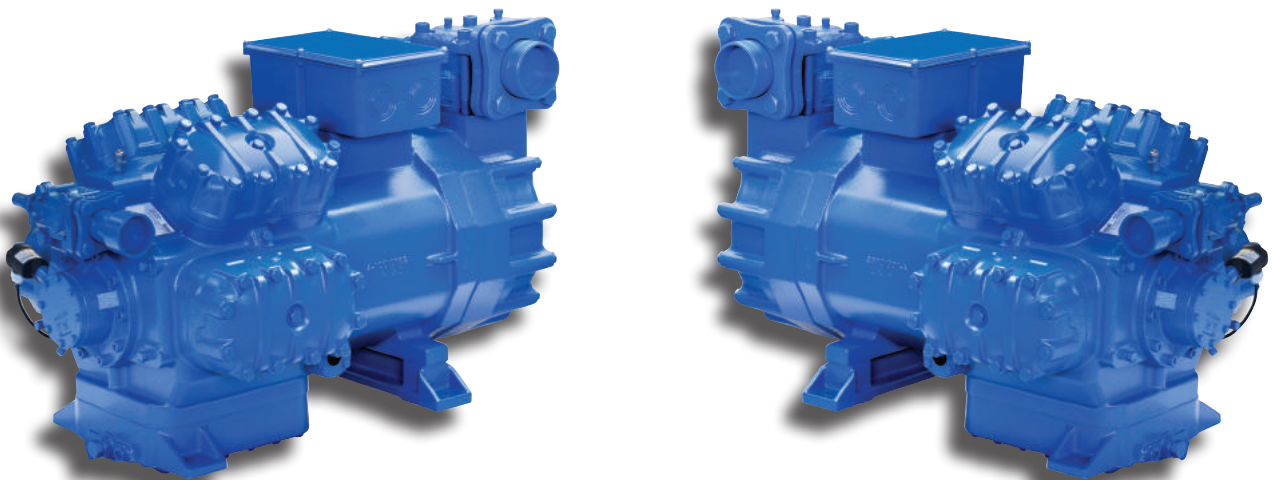


Frascold[®]

Semi-hermetic reciprocating compressors



Catalogue index

• Index - General information	Pag. 2
• General information	Pag. 3 - 5
• Range of models	Pag. 6
• Special features	Pag. 7
• Technical specifications	Pag. 8 - 9
• Multifunctional device Kriwan INT69 @Diagnose	Pag. 10
• Standard equipment and optional accessories	Pag. 11
• Operating limits	Pag. 12 - 15
• Performance [50 Hz]	Pag. 16 - 57
• Dimensional drawings	Pag. 58 - 67
• ATEX compressors	Pag. 68 - 69
• Compressors in TWIN configuration	Pag. 70 - 71
• Two-stage compressors	Pag. 72 - 73
• Frascold Selection Software	Pag. 74
• Frascold	Pag. 75

General information

Fracold produces a wide range of semi-hermetic reciprocating single- and two-stage compressors with displacement ranging from 4 to 240 m³/h at 50Hz and electrical ratings from 0.50 to 80 HP.

Suitable for conventional HFC-based refrigerants, new low-GWP refrigerants, HFO, natural refrigerants.

The compressors are suitable for use in a wide range of retail and industrial cooling applications, process chillers and AC, heat pumps; in single, multi-compressor systems and cascade systems. A long list of accessories multiplies their application versatility.

All models can work with inverter.

The range stands out for its high efficiency and ensuing operating cost savings. The design also assures sturdiness, low noise and compact overall dimensions.

The protection system integrated in the compressors is the most advanced on the market.

In addition to standard models, the compressor range also includes the ECOinside models optimised for use with R134a and R1234ze, AXH, AXY and AXE models with ATEX configuration, VS models with integrated inverter, SK3 and TK models for applications with CO₂ in subcritical and transcritical cycle, two-stage models, twin configuration models.

The performance of most models is ASERCOM-certified.



ASERCOM performance certification



Fracold is a member of ASERCOM, the Association which ensures the accuracy and reliability of compressor performance and that has set out the procedure for measuring the performance of compressors and their certification process. The certification of compressors certifies and guarantees that the performance published corresponds to that actually measured with reference to European standard EN12900.

The compressors with certified performance are marked with the Certified Product logo.

Further details on www.asercom.org.

Data on compressor capacity

This catalogue indicates the data for compressors with R134a, R407A, R407F, R404A, R507A, R448A, R449A, R407C, R22, R1234ze. Data relating to other refrigerants are available on request.

The capacities are indicated in accordance with European EN12900 standard and at 50Hz operation. To calculate capacity in other conditions and at 60 Hz use the Frascold Selection Software.

Operating limits

Compressor operation is possible within the application diagram; pay attention to the indications for the various areas of the diagram. The limits refer to the operation of the compressor at full load and with a power supply frequency of 50 Hz.

They also differ in terms of application in the 3 different motor sizes.

The diagrams published in this catalogue are to be considered as a general diagram for the full range of compressors.

Check the diagram of every single compressor model on the Frascold Selection Software program.

Motor version

Compressors can be fitted with three different electric motors:

- Size 1: for medium-high temperature applications
- Size 2: for low temperature applications
- Size 3: optimised for applications with R134a and R1234ze in medium temperatures

Safety

Frascold compressors are constructed according to International safety standards. They may only be used if installed within systems complying with the operating instructions and conforming to the regulations in force.

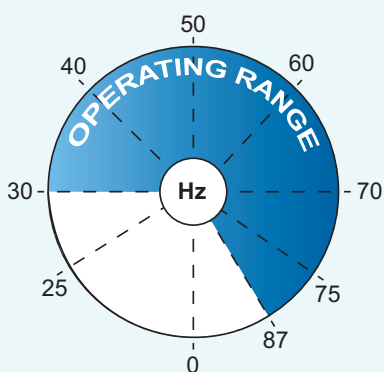
For the relevant standards please refer to the Manufacturer's Declaration, available on the www.frascold.it website in the documentation section. They will be put into service by experienced staff, suitably documented in relation to the manufacturer's declarations and able to understand and apply the instructions contained in the installation manual supplied with the compressor or available on the www.frascold.it website.

Application with variable frequency drive

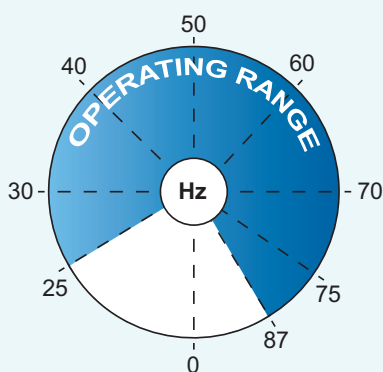
All compressors are constructed for use with inverter technology and are suitable for operation with variable frequency drive in a wide range of applications.

- 2 cylinder models: cooling capacity control from 60% to 174% (30Hz - 87Hz)
- 4 cylinder models with centrifugal lubrication: cooling capacity control from 50% to 174% (25Hz - 87Hz)
- 4 cylinder models with forced lubrication: cooling capacity control from 60% to 140% (30Hz - 70Hz)
- 6 and 8 cylinder models: cooling capacity control from 60% to 140% (30Hz - 70Hz)

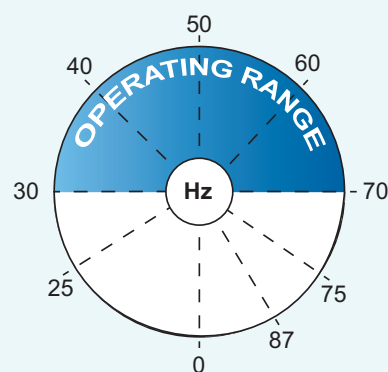
A-B-D Series



Q-S Series



V-Z-W Series



For 400V motors, in certain application conditions there might be a narrowing of the frequency range. Always check on the Frascold Selection Software. For capacity data at the various frequencies see the Frascold Selection Software.

Protection of compressors series A - B - D

All models are supplied with protection consisting of a chain of PTC thermistors inserted in the electric motor stator and connected to the INT69 electronic control module inside the electrical box.

The INT69 device is triggered and stops the compressor in the event of thermal overload due to electric motor or mechanical issues.

Protection of compressors series Q - S - V - Z - W with Diagnose technology

Frascold equips semi-hermetic reciprocating compressors with Diagnose technology, which enables a significant step forward in the compressor protection system and adds new diagnostic and communication functions.

Increased protection

Frascold compressors are even more reliable. Diagnose technology monitors the system conditions and stops the compressor in the event of incorrect functional parameters.

Lower costs

Quick identification of the cause of the malfunction. The information stored in Diagnose devices allow technicians to accurately and quickly diagnose the past and present state of the cooling system, ensuring fast and cost-effective servicing, with short system downtime.

More information

The communication systems supported by Diagnose technology allow you to monitor and download system operating data in real time; technicians can then intervene improving the efficiency and reliability of the system, diagnosing any required maintenance in advance.

Safety device to control discharge temperature

The discharge temperature, in certain extreme conditions (such as high condensing temperatures, low evaporator pressures or extremely high compression ratios), may reach values that can damage the compressor.

All V - Z and W series models are supplied complete with a safety device which, in combination with the electronic control module, stops the compressor in the event that the discharge temperature exceed the set safety limit.

Electronic safety device to control lubrication

Frascold compressors in the V - Z and W series are supplied complete with an electronic pressure switch to control lubrication. It efficiently monitors the differential pressure in the lubrication system and stops the compressor in the event of any detected measurement that does not comply with the set safety values. The device is attached directly to the compressor's oil pump and does not require additional fittings.

Unloaded start

In Frascold compressors, the compressor can be started unloaded through the US device integrated in the head (available on request). The device equalises the suction and discharge pressure, thus reducing the starting torque on the compressor reducing absorption peaks from the electrical mains. Note: a check valve, not supplied by Frascold, must be installed after the discharge valve.

Capacity control with RSH system

The thermal load of many applications can change considerably and a refrigerating system should be able to adapt to the mutated conditions. The maximum number of start stop cycles and the minimum running time of the compressor impose some limitations, therefore the simple start-stop regulation may not be the most efficient method to follow precisely the system load fluctuations. These limitations determine the minimum and maximum pressure reached in the evaporator. The higher is the pressure difference, the higher is the amount of energy wasted.

The exclusive RSH capacity control system developed by Frascold allows the system designer to reduce substantially the total energy consumption of the system. The new RSH system solves completely the problems of the traditional capacity control system based on a permanent or pulsing choke of the suction of the cylinder head, avoiding the overheat of the valve plates and the accumulation of oil in the cylinder head, therefore it can be used for long periods of time in a wide range of operating conditions without damaging the compressor. The RSH system reduces by 50% the capacity of each cylinder head where is installed, therefore the possible capacity control steps are:

2 cylinder compressors	4 cylinder compressors
50% - 100%	1 x RSH: 75% - 100% 2 x RSH: 50% - 75% - 100%
6 cylinder compressors	8 cylinder compressors
1 x RSH: 83% - 100% 2 x RSH: 66% - 83% - 100% 3 x RSH: 50% - 66% - 83% - 100%	1 x RSH: 87,5% - 100% 2 x RSH: 75% - 87,5% - 100% 3 x RSH: 62,5% - 75% - 87,5% - 100% 4 x RSH: 50% - 62,5% - 75% - 87,5% - 100%

Compared to a traditional CC capacity control system, the new RSH system offers the possibility to regulate the capacity with more steps and without time limitation, therefore it is able to follow the fluctuations of the system load more effectively and improve the total system efficiency substantially.

Features and advantages

- Enhanced system efficiency and reliability
- Greater reduction of compressor on-off cycles
- Enhanced suction pressure stability
- Greater number of regulating steps
- No time operation limit
- No increase in vibration and noise compared to full load operation
- No overheating on discharge
- No oil carry-over

Standard capacity control

Through the CC device, available on request, on Frascold 4, 6 and 8-cylinder compressors, capacity may be adjusted by choking the heads in order to adapt the cooling capacity of the system to the actual thermal demand. This reduces the start-up frequency and the stress on the compressor mechanics and electric motor.

Possible control stages:

- 4-cylinder models: 50% - 100% (2 steps)
- 6-cylinder models: 33% - 66% - 100% (2 or 3 steps)
- 8-cylinder models: 50% - 66% - 100% (2 or 3 steps)

Lubricating oil

All compressors are supplied filled with oil with specific features for refrigerants.

Oil viscosity assures, perfect lubrication within the application limits of the compressors.

Accessories

Frascold has selected and developed a comprehensive range of accessories for its compressors, suitable to assure efficiency and reliability in all intended operating conditions.

General information

Frascold reserves ownership of this brochure FCAT100.6, no reproduction is allowed without our explicit consent. The data and information contained in the brochure were determined based on our current capabilities and do not exempt the user from his duty to check the suitability of the products for the intended application. Frascold reserves the right to change the content of the catalogue as a consequence of normal innovations and updates deemed necessary.

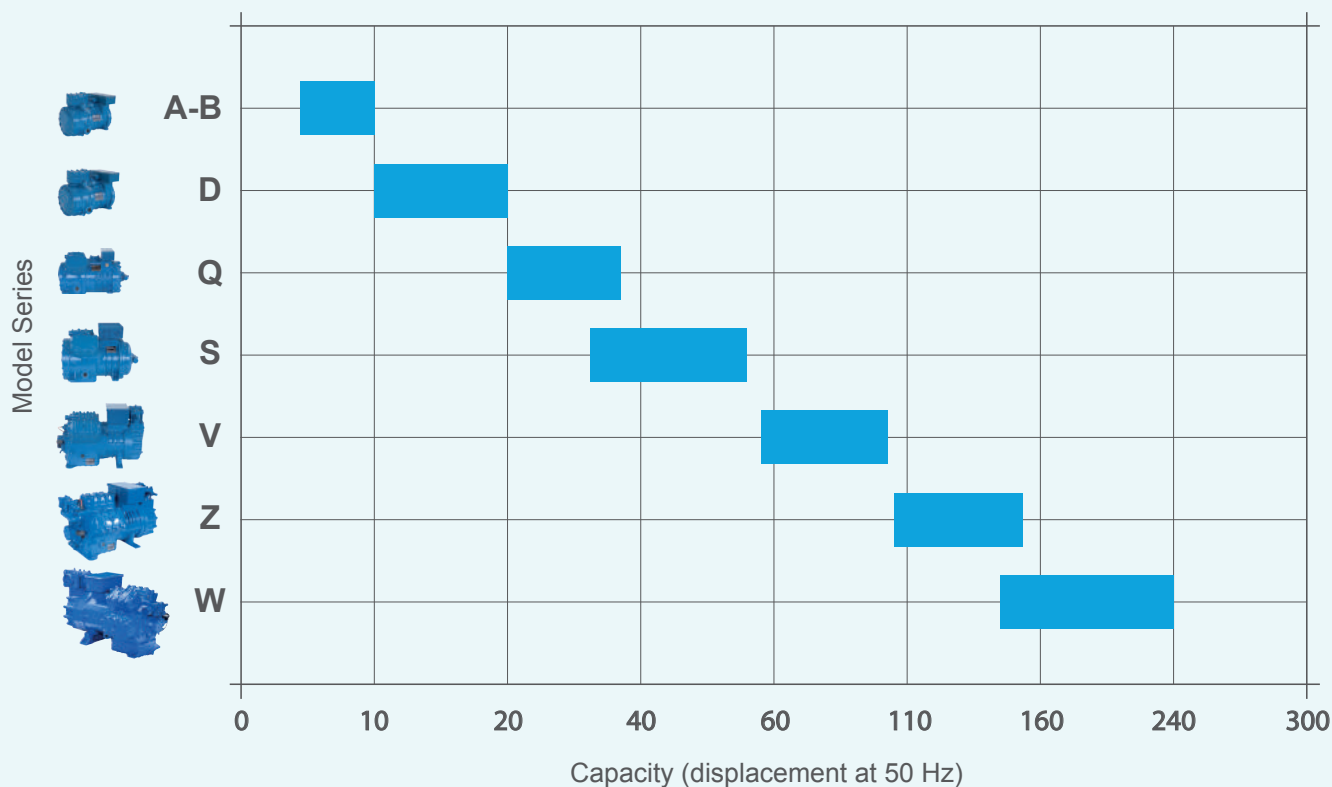
Range of models

The range of Frascold semi-hermetic reciprocating compressors includes models with 2, 4, 6 and 8 cylinders for refrigeration in low and medium temperature, process cooling, air conditioning and heat pump applications.

To select the right model, use this catalogue, the Frascold FSS3 selection software and the many publications available on the www.frascold.it website.

Current range:

7 series, 85 models with 38 capacity stages, from 3.95 to 239.00 m³/h (50 Hz)



Compressors for special applications



Inverter Compressors

By varying the power supply frequency, Frascold inverter compressors ensure the modulation of the cooling capacity in order to optimise operation at low loads, while maximising efficiency.



Two-stage Compressors

The Frascold range includes 4 and 6-cylinder two-stage compressors with a modern and innovative design, offering unique control and protection features

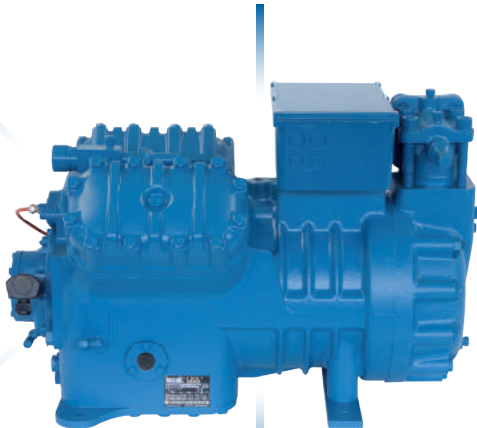


ATEX Compressors

To meet the ATEX standards required in applications in explosive atmospheres, Frascold offers a wide range of models certified in accordance with directive 94/9/EC. All ATEX compressors made by Frascold are also approved for use with hydrocarbons (R290 and R1270).

Semi-hermetic reciprocating compressors

Special features



Suitable for standard HFC and HFO refrigerants and new low GWP blends. Models for applications with hydrocarbons available.

- Perfect mechanical balancing with low level of vibrations, pulsation and noise.
- Innovative protection, diagnostics and preventive maintenance system, with Diagnose technology
- Compact design requiring less space for installation.
- High efficiency level.
- ASERCOM certified performance.
- Q - V - Z - W available in TWIN version.
- High reliability even in critical operating conditions.
- Three motor sizes optimise the various applications
- Advanced lubrication system management.
- Capacity modulation through the exclusive RSH system. The standard CC heads or a variable frequency drive.
- Wide operating range to ensure the use of a single model for low and medium temperature applications

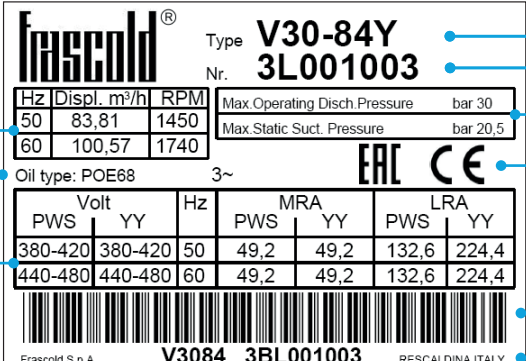
Model names

V 30 - 84 Y

Model series	A - B - D - Q - S - V - Z - W	Oil type	POE (others on request)
Electric motor	from 0,5 to 80 HP	Displacement	from 3,95 to 239,00 m ³ /h at 50Hz

Compressor nameplate

All the important information to identify the compressor is displayed on the nameplate. The date of production is contained in the serial number. The indication of the type of refrigerant is the installer's responsibility.



Compressor model: V30-84Y
Serial number: 3L001003

Maximum operating pressures:
Max. Operating Disch. Pressure: bar 30
Max. Static Suct. Pressure: bar 20,5

Safety markings: EAC, CE

Displacement (m ³ /h)		Oil type	
50	83,81	60	100,57
RPM: 1450		3~	
Electrical data		Bar code	
Volt	Hz	MRA	LRA
PWS	YY	PWS	YY
380-420	380-420	50	49,2
440-480	440-480	60	49,2
			132,6
			224,4

Identification number: V3084 3BL001003

Production facility: RESCALDINA ITALY

Semi-hermetic reciprocating compressors

Technical specifications

Compressor	Cylinders Nr.	Displacement m ³ /h 50Hz	Oil Charge dm ³	Net Weight kg	Electrical data										Pipe connections ^⑩			
					Motor		Max operating current A ^⑨			Max power consumption kW	Locked rotor current A ^⑨			Suction		Discharge		
					Version	Connections	230V		400V		230V	400V		inch	mm	inch	mm	
							④	⑤⑥	DOL	DOL		PWS	⑨	DOL	DOL	PWS		
A05-4Y	2	3,95	1	36	1	⑦	4,9	2,8		1,6	18,6	10,7		5/8	15,8	1/2	12,7	
A05-5Y	2		1	36	2	⑦	4,7	2,7		1,5	18,6	10,7		5/8	15,8	1/2	12,7	
A07-5Y	2	4,93	1	36	1	⑦	4,7	2,7		1,5	18,6	10,7		5/8	15,8	1/2	12,7	
A07-6Y	2		1	36	2	⑦	4,9	2,8		1,6	18,6	10,7		5/8	15,8	1/2	12,7	
A1-6Y	2	5,47	1	36	1	⑦	6,2	3,6		2,0	23,6	13,6		5/8	15,8	1/2	12,7	
A1-7Y	2		1	36	2	⑦	6,4	3,7		2,1	23,6	13,6		5/8	15,8	1/2	12,7	
A1.5-7Y	2	6,91	1	36	1	⑦	7,9	4,5		2,3	35,8	20,6		5/8	15,8	1/2	12,7	
A1.5-8Y	2	7,65	1	36	1	⑦	8,4	4,8		2,3	35,8	20,6		5/8	15,8	1/2	12,7	
B1.5-9.1Y	2	8,96	1	38	2	⑦	10,2	5,9		3,3	46,6	26,8		5/8	15,8	1/2	12,7	
B1.5-10.1Y	2		1	38	2	⑦	9,5	5,5		3,1	46,6	26,8		5/8	15,8	1/2	12,7	
B2-10.1Y	2	9,88	1	40	1	⑦	11,7	6,7		3,6	62,5	35,9		5/8	15,8	1/2	12,7	
D2-11.1Y	2	11,26	1,1	45	1	⑦	12,4	7,1		4,1	62,5	35,9		7/8	22,2	5/8	15,8	
D2-13.1Y	2		1,1	45	2	⑦	12,4	7,1		4,1	62,5	35,9		7/8	22,2	5/8	15,8	
D3-13.1Y	2	13,15	1,1	49	1	⑦	15,3	8,8		4,8	79,9	43,7		1 1/8	28,6	5/8	15,8	
D2-15.1Y	2		1,1	45	2	⑦	14,6	8,4		4,7	62,5	35,9		7/8	22,2	5/8	15,8	
D3-15.1Y	2	15,36	1,1	49	1	⑦	17,5	10,1		5,7	75,9	43,7		1 1/8	28,6	5/8	15,8	
D3-16.1Y	2		1,1	49	2	⑦	17,2	9,9		5,4	75,9	43,7		1 1/8	28,6	5/8	15,8	
D4-16.1Y	2	16,40	1,2	51	1	⑦	20,1	11,6		6,2	90,3	52,0		1 1/8	28,6	3/4	19,0	
D3-18.1Y	2		1,1	49	2	⑦	17,3	10,0		5,5	75,9	43,7		1 1/8	28,6	5/8	15,8	
D4-18.1Y	2	17,93	1,2	51	1	⑦	21,7	12,5		6,7	90,3	52,0		1 1/8	28,6	3/4	19,0	
D3-19.1Y	2		1,1	49	2	⑦	17,0	9,8		5,4	75,9	43,7		1 1/8	28,6	5/8	15,8	
D4-19.1Y	2	19,12	1,2	51	1	⑦	20,5	11,8		6,4	90,3	52,0		1 1/8	28,6	3/4	19,0	
Q4-20.1E	4		1,6	74	3	⑦	10,6	6,1		3,1	97,8	56,3		1 1/8	28,6	3/4	19,0	
Q4-20.1Y	4	19,77	1,6	74	2	⑦	17,5	10,1		5,7	92,6	53,2		1 1/8	28,6	3/4	19,0	
Q4-21.1Y	4		1,6	79	2	⑦	17,3	10,0		5,7	92,6	53,2		1 1/8	28,6	3/4	19,0	
Q5-21.1Y	4	21,18	1,6	79	1	⑦	20,1	11,6		6,6	109,7	63,1		1 1/8	28,6	3/4	19,0	
Q4-24.1E	4		1,6	79	3	⑦	12,5	7,2		4,0	97,8	56,3		1 1/8	28,6	3/4	19,0	
Q4-24.1Y	4	23,91	1,6	79	2	⑦	20,3	11,7		6,8	92,6	53,2		1 1/8	28,6	3/4	19,0	
Q5-24.1Y	4		1,6	79	1	⑦	23,9	13,8		7,9	109,7	63,1		1 1/8	28,6	7/8	22,2	
Q4-25.1Y	4		1,6	77	2	⑦	19,1	11,0		7,0	92,6	53,2		1 1/8	28,6	3/4	19,0	
Q5-25.1Y	4	24,69	1,6	79	2	⑦	22,1	12,7		8,5	109,7	63,1		1 1/8	28,6	7/8	22,2	
Q7-25.1Y	4		1,6	79	1	⑦	26,8	15,4		8,4	151,8	87,3		1 1/8	28,6	7/8	22,2	
Q5-28.1E	4		1,6	79	3	⑦	13,7	7,9		4,7	95,1	54,7		1 1/8	35,0	7/8	22,2	
Q5-28.1Y	4	28,02	1,6	79	2	⑦	24,3	14,0		8,2	109,7	63,1		1 1/8	35,0	7/8	22,2	
Q7-28.1Y	4		1,6	79	1	⑦	30,7	17,6		9,5	151,8	87,3		1 1/8	35,0	1 1/8	28,6	
Q5-33.1E	4		1,6	79	3	⑦	16,2	9,3		5,6	95,1	54,7		1 1/8	35,0	1 1/8	28,6	
Q5-33.1Y	4	32,66	1,6	79	2	⑦	25,0	14,4		8,3	109,7	63,1		1 1/8	35,0	1 1/8	28,6	
Q7-33.1Y	4		1,6	79	1	⑦	34,7	20,0		11,2	151,8	87,3		1 1/8	35,0	1 1/8	28,6	
Q5-36.1E	4		1,6	79	3	⑦	20,5	11,8		6,9	109,7	63,1		1 1/8	35,0	1 1/8	28,6	
Q7-36.1Y	4	35,86	1,6	79	1	⑦	33,6	19,4		10,8	151,8	87,3		1 1/8	35,0	1 1/8	28,6	

① Conversion factor for 60Hz = 1,2.

② Lubricant charge.

③ Including valves, oil charge and rubber dampers.

④ Motor size.

⑤ Connection alternatives.

⑥ Tolerance ±10% based on mean value of voltage range. Other voltages upon request.

⑦ 220-240V Δ / 380-420V Λ / 3 / 50Hz

265-290V Δ / 440-480V Λ / 3 / 60Hz

⑧ 380V-420V Λ/Λ/Λ / 3 / 50Hz

440V-480V Λ/Λ/Λ / 3 / 60Hz

⑨ Referred to 50Hz operation. At 60 Hz the max operating current remains unchanged while the max power consumption should be multiplied by 1,2. The maximum operating current /max. power consumption must be considered for the selection of cables, fuses and contactors (AC3 category).

⑩ Valves with solder connections.

Semi-hermetic reciprocating compressors

Technical specifications

Compressor	Cylinders Nr.	Displacement m ³ /h 50Hz	Oil Charge dm ³	Net Weight kg	Electrical data										Pipe connections ⑩			
					Motor		Max operating current A ⑨			Max power consumption kW	Locked rotor current A ⑨			Suction		Discharge		
					Version	Connections	230V		400V		230V	400V		inch	mm	inch	mm	
							DOL	DOL	PWS	⑨		DOL	DOL					PWS
S5-33Y	4		2,9	115	2				15,9	7,8		57,8	35,5	1 ³ / ₈	35,0	1 ¹ / ₈	28,6	
S7-33Y	4	32,80	2,9	117	1	⑧			20,4	11,1		75,0	47,0	1 ³ / ₈	35,0	1 ¹ / ₈	28,6	
S8-42E	4		2,9	117	3				12,8	7,3		90,3	52,7	1 ³ / ₈	35,0	1 ¹ / ₈	28,6	
S8-42Y	4	41,32	2,9	117	2	⑧			20,3	11,8		90,3	52,7	1 ³ / ₈	35,0	1 ¹ / ₈	28,6	
S12-42Y	4		2,9	120	1				22,4	12,9		102,3	59,1	1 ³ / ₈	35,0	1 ¹ / ₈	28,6	
S10-52E	4		2,9	120	3				14,7	8,4		102,7	59,5	1 ³ / ₈	35,0	1 ¹ / ₈	28,6	
S10-52Y	4	51,50	2,9	120	2	⑧			24,5	14,9		102,3	59,1	1 ³ / ₈	35,0	1 ¹ / ₈	28,6	
S15-52Y	4		2,9	126	1				32,4	17,8		117,1	74,8	1 ⁵ / ₈	42,0	1 ¹ / ₈	28,6	
S12-56E	4		2,9	130	3				16,1	9,0		102,7	59,5	1 ⁵ / ₈	42,0	1 ¹ / ₈	28,6	
S15-56Y	4	56,00	2,9	130	2	⑧			30,7	16,5		117,1	74,8	1 ⁵ / ₈	42,0	1 ¹ / ₈	28,6	
S20-56Y	4		2,9	132	1				38,4	19,6		136,2	87,5	1 ⁵ / ₈	42,0	1 ¹ / ₈	28,6	
V15-59E	4		4,0	170	3				17,5	10,2		102,7	59,5	1 ⁵ / ₈	42,0	1 ¹ / ₈	28,6	
V15-59Y	4	58,48	4,0	170	2	⑧			31,1	17,8		117,1	74,8	1 ⁵ / ₈	42,0	1 ¹ / ₈	28,6	
V20-59Y	4		4,0	174	1				35,3	19,6		180,5	106,6	1 ⁵ / ₈	42,0	1 ¹ / ₈	28,6	
V15-71E	4		4,0	174	3				20,2	12,0		102,7	59,5	1 ⁵ / ₈	42,0	1 ¹ / ₈	28,6	
V15-71Y	4	70,77	4,0	174	2	⑧			32,2	19,6		117,1	74,8	1 ⁵ / ₈	42,0	1 ¹ / ₈	28,6	
V25-71Y	4		4,0	184	1				43,5	23,6		202,7	118,3	2 ¹ / ₈	54,0	1 ³ / ₈	35,0	
V20-84E	4		4,0	180	3				27,2	14,2		173,0	103,0	1 ⁵ / ₈	42,0	1 ¹ / ₈	28,6	
V20-84Y	4	83,81	4,0	180	2	⑧			46,2	24,2		180,5	106,6	2 ¹ / ₈	54,0	1 ³ / ₈	35,0	
V30-84Y	4		4,0	187	1				49,2	28,4		224,4	132,6	2 ¹ / ₈	54,0	1 ³ / ₈	35,0	
V25-93Y	4		4,0	200	2				52,3	25,8		202,7	118,3	2 ¹ / ₈	54,0	1 ³ / ₈	35,0	
V32-93Y	4	93,05	4,0	192	1	⑧			53,1	30,9		239,2	144,5	2 ¹ / ₈	54,0	1 ³ / ₈	35,0	
V25-103E	4		4,0	204	3				29,9	16,9		210,3	122,7	2 ¹ / ₈	54,0	1 ³ / ₈	35,0	
V25-103Y	4	102,90	4,0	204	2	⑧			52,3	28,8		202,7	118,3	2 ¹ / ₈	54,0	1 ³ / ₈	35,0	
V35-103Y	4		4,0	207	1				61,0	38,5		239,2	144,5	2 ¹ / ₈	54,0	1 ³ / ₈	35,0	
Z25-106E	6		3,7	220	3				30,2	17,1		210,3	122,7	2 ¹ / ₈	54,0	1 ³ / ₈	35,0	
Z25-106Y	6	106,16	3,7	220	2	⑧			53,6	31,9		202,7	118,3	2 ¹ / ₈	54,0	1 ³ / ₈	35,0	
Z35-106Y	6		3,7	223	1				60,2	35,1		239,2	144,5	2 ¹ / ₈	54,0	1 ³ / ₈	35,0	
Z30-126E	6		7,2	229	3				33,8	19,7		212,5	122,7	2 ¹ / ₈	54,0	1 ³ / ₈	35,0	
Z30-126Y	6	125,72	7,2	229	2	⑧			55,7	35,0		224,4	132,6	2 ¹ / ₈	54,0	1 ³ / ₈	35,0	
Z40-126Y	6		7,2	240	1				71,9	40,7		273,0	159,2	2 ⁵ / ₈	67,0	1 ⁵ / ₈	42,0	
Z40-154E	6		7,2	240	3				41,1	23,8		239,2	144,5	2 ⁵ / ₈	67,0	1 ⁵ / ₈	42,0	
Z40-154Y	6	154,38	7,2	240	2	⑧			77,9	37,9		273,0	159,2	2 ⁵ / ₈	67,0	1 ⁵ / ₈	42,0	
Z50-154Y	6		7,2	244	1				90,4	52,1		321,4	188,8	2 ⁵ / ₈	67,0	1 ⁵ / ₈	42,0	
W40-142Y	8	141,50	7,7	295	2	⑧			89,3	42,3		298,0	215,0	2 ⁵ / ₈	67,0	1 ⁵ / ₈	42,0	
W40-168Y	8		7,7	299	2				71,4	37,3		298,0	215,0	2 ⁵ / ₈	67,0	1 ⁵ / ₈	42,0	
W50-168Y	8	167,60	7,7	305	1	⑧			94,8	55,2		367,0	258,0	3 ¹ / ₈	79,4	1 ⁵ / ₈	42,0	
W50-187Y	8		7,7	311	2				89,1	50,2		367,0	258,0	3 ¹ / ₈	79,4	1 ⁵ / ₈	42,0	
W60-187Y	8	186,10	7,7	315	1	⑧			103,5	59,9		455,0	326,0	3 ¹ / ₈	79,4	1 ⁵ / ₈	42,0	
W60-206Y	8		7,7	320	2				98,8	56,7		455,0	326,0	3 ¹ / ₈	79,4	2 ¹ / ₈	54,0	
W70-206Y	8	205,80	7,7	328	1	⑧			116,8	66,8		548,0	390,0	3 ¹ / ₈	79,4	2 ¹ / ₈	54,0	
W70-228Y	8		7,7	328	2				109,5	61,9		548,0	390,0	3 ¹ / ₈	79,4	2 ¹ / ₈	54,0	
W75-228Y	8	227,77	7,7	328	1	⑧			128,4	74,2		584,0	417,0	3 ¹ / ₈	79,4	2 ¹ / ₈	54,0	
W75-240Y	8		7,7	328	2				115,3	65,4		584,0	417,0	3 ¹ / ₈	79,4	2 ¹ / ₈	54,0	
W80-240Y	8	239,02	7,7	328	1	⑧			135,7	78,9		584,0	417,0	3 ¹ / ₈	79,4	2 ¹ / ₈	54,0	

Kriwan INT69 ®Diagnose multifunctional device

Kriwan Diagnose devices are a step ahead in the protection of compressors.

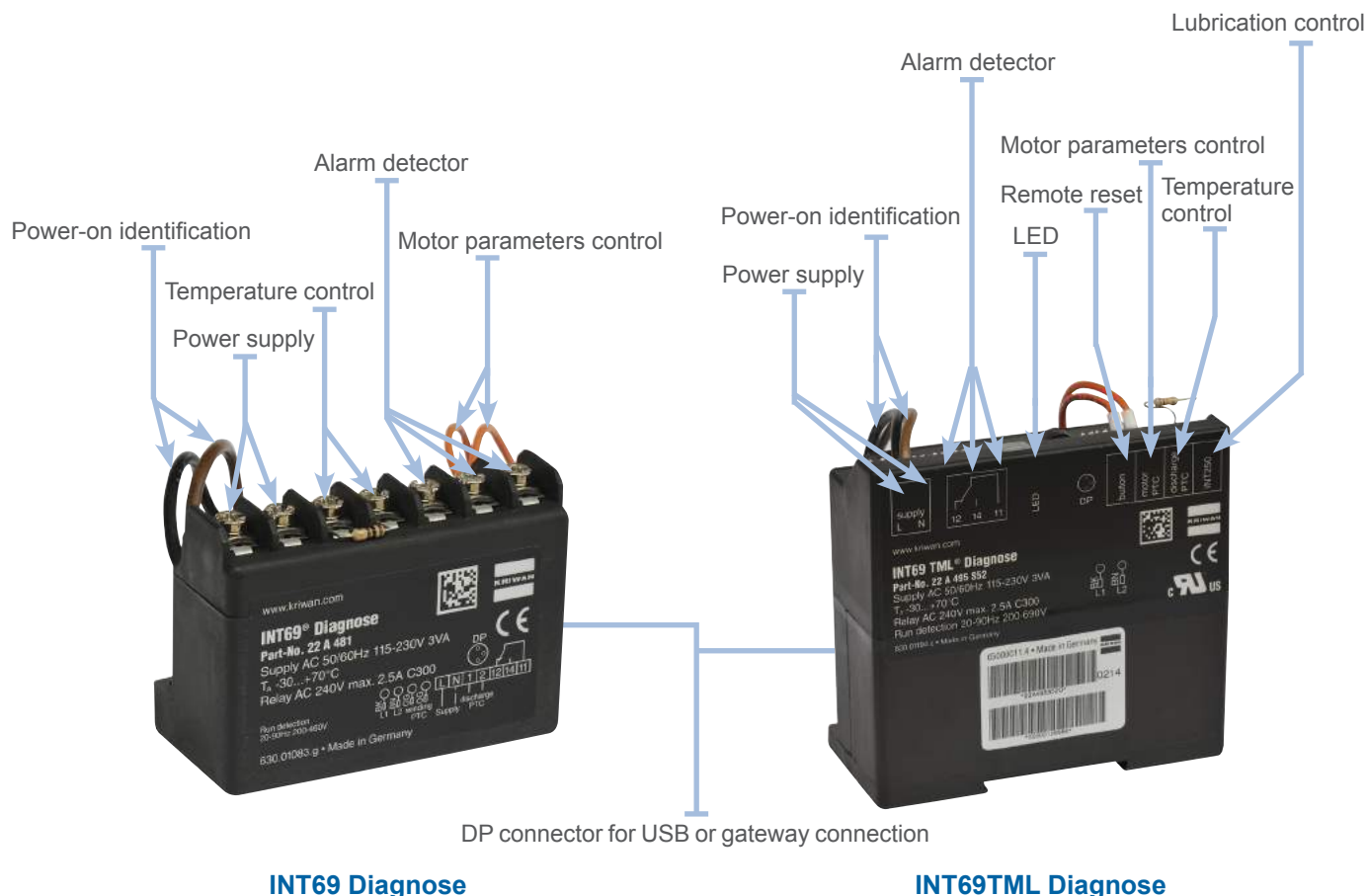
The Diagnose technology is not only limited to protecting the compressor, but also offers diagnosis and system optimisation features; providing detailed information to technicians in order to promptly diagnose system problems; it even makes it possible to prevent malfunctioning before it occurs thanks to data analysis.

The additional protection features help extending the compressor's service life.

Through this technology applied to compressors, users will benefit from enhanced reliability of the cooling system and from the reduction in running and maintenance costs. Frascold was the first compressor manufacturer to adopt this innovative technology and today it is standard on all models in the Q - S - V - Z - W series.

Advantages

- Guaranteed optimal operation throughout the compressor's entire life cycle
- Simple and straightforward operation
- Fast diagnosis and precise instructions for solving the problems causing errors and failures
- Specifically designed to satisfy the user's needs
- Intelligent monitoring of compressor operation
- Extends the operative life of cooling systems
- Improves compressor protection
- Reduces running and maintenance costs
- Automatic storage of operational data and errors in a memory
- Technical card with retrieval of stored data
- Display of compressor status through flash LED code (for TML version)
- Data download through USB connection
- Remote communication through DP-Modbus gateway to PLC (Modbus protocol RS485) or Modbus-LAN Gateway to the web (HTTP protocol)
- Applicable to previously installed compressors



INT69 Diagnose

INT69TML Diagnose

INT69® Diagnose and INT69TML® Diagnose are intellectual property and trademarks ® of KRIWAN Industrie-Elektronik GmbH.

Semi-hermetic reciprocating compressors

Standard equipment and optional accessories

Frascold supplies its compressors equipped with standard components as shown here below. Optional accessories are available on request for other needs.

Description	Series						
	A - B	D	Q	S	V	Z	W
Semi-hermetic compressor with integrated electric motor, direct on line start and PTC sensor / AMS sensor 220-240V Δ / 380-420V λ / 3 / 50 Hz 265-290V Δ / 440-480V λ / 3 / 60 Hz	S PTC	S PTC	S AMS				
Semi-hermetic compressor with integrated electric motor, part winding start and AMS sensor / PTC sensor 380-420V λ / 3 / 50 Hz 440-480V λ / 3 / 60 Hz				S AMS	S AMS	S AMS	S PTC
Electric terminal box Protection class	S IP56	S IP56	S IP56	S IP56	S IP65	S IP65	S IP65
Control and protection device	S	S					
Multifunctional control, protection and diagnostics device	▲	▲	S	S	S	S	S
Discharge temperature sensor			▲	▲	S	S	S
Differential oil pressure switch					S	S	S
Reversible oil pump					S	S	S
Oil sight glass	S [x1]	S [x1]	S [x2]	S [x2]	S [x2]	S [x2]	S [x2]
POE oil charge	S	S	S	S	S	S	S
Viscosity (cSt)	32	32	32	32	68	68	68
Liquid injection connection			S	S	S	S	S
Suction shut-off valve	S	S	S	S	S	S	S
Discharge shut-off valve	S	S	S	S	S	S	S
Nitrogen protective charge	S	S	S	S	S	S	S
Rubber dampers kit	S	S	S	S	S	S	S
Oil heater	▲	▲	▲	▲	▲	▲	▲
US unloader start head		▲	▲	▲	▲	▲	▲
RSH capacity control head		▲	▲	▲	▲	▲	▲
CC capacity control head			▲	▲	▲	▲	▲
Head cooling fan	▲	▲	▲	▲	▲	▲	▲
Water cooled head	▲	▲	▲	▲	▲	▲	▲
Electronic liquid injection kit			▲	▲	▲	▲	▲
Oil level switch	▲	▲	▲	▲	▲	▲	▲
Oil level regulator	▲	▲	▲	▲	▲	▲	▲
Flange and shut-off valve for oil equalization	▲	▲	▲	▲	▲	▲	▲
DP Modbus gateway			▲	▲	▲	▲	▲
INT-gateway cable			▲	▲	▲	▲	▲
Modbus-LAN gateway			▲	▲	▲	▲	▲
USB adapter cable			▲	▲	▲	▲	▲

S Included in the standard extent of delivery

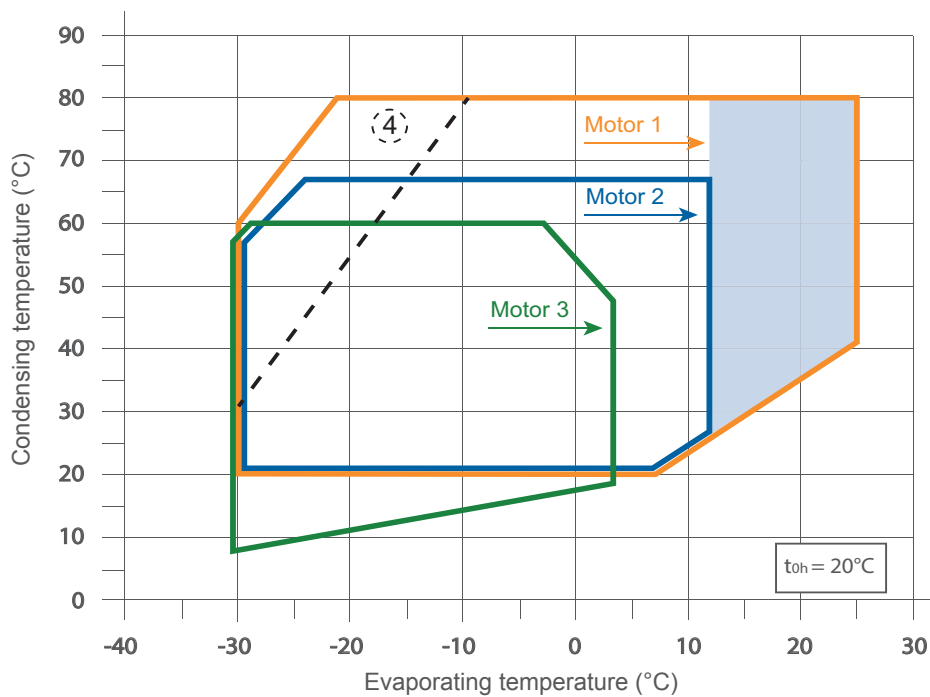
▲ Option available at an additional charge

Operating limits

The compressors can operate within the range of the application diagrams; pay attention to the different areas. For the operating limits of each compressor refer to the Frascold Selection Software program (see page 74).

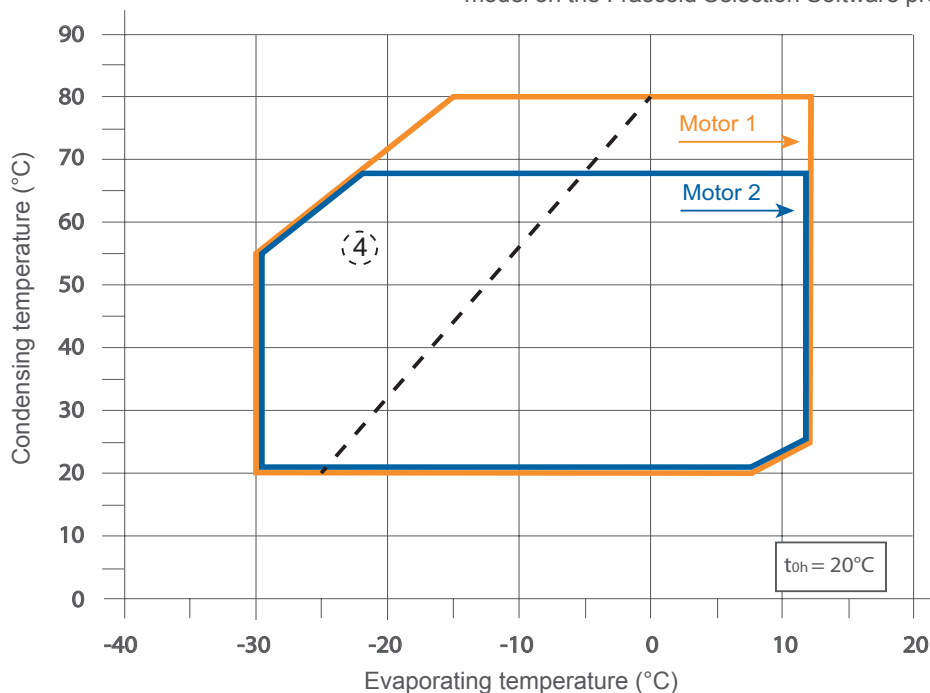
R134a

Standard application diagram
 Motor size 1 - 2 - 3
 Check the diagram of every single compressor model on the Frascold Selection Software program





R450A - R513A

Standard application diagram
 Motor size 1 - 2 - 3
 Check the diagram of every single compressor model on the Frascold Selection Software program



Compressor at 100% capacity

- t_{0h} Suction gas temperature = 20°C
-  For operation in this area contact Frascold
-  Additional cooling or superheat reduction, check on the Frascold Selection Software program

Operating limits

The compressors can operate within the range of the application diagrams; pay attention to the different areas. For the operating limits of each compressor refer to the Frascold Selection Software program (see page 74).

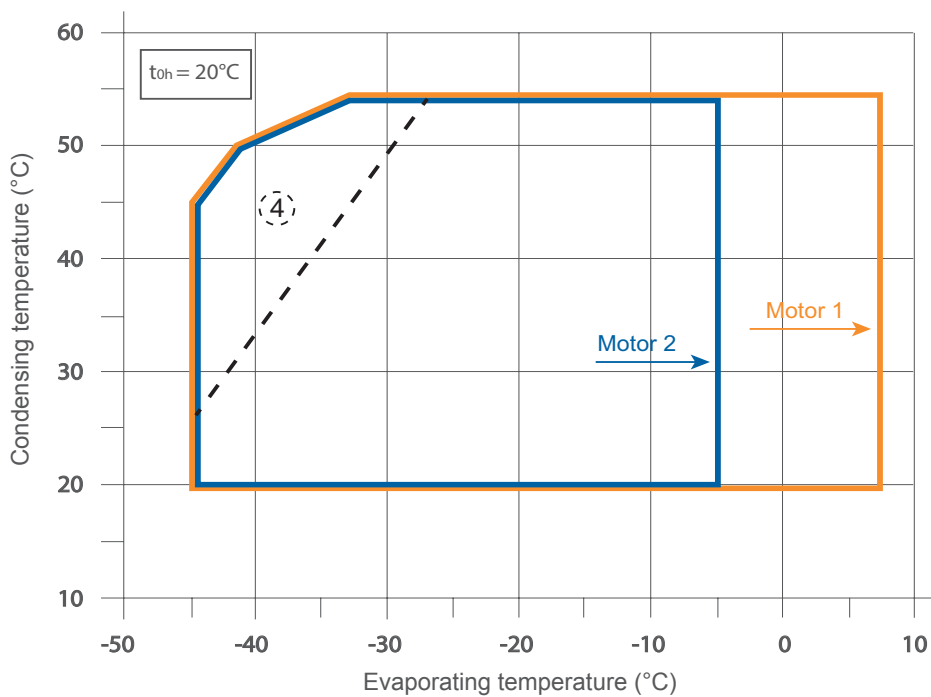
R404A - R507A

Standard application diagram

Motor size 1 - 2

Check the diagram of every single compressor

model on the Frascold Selection Software program



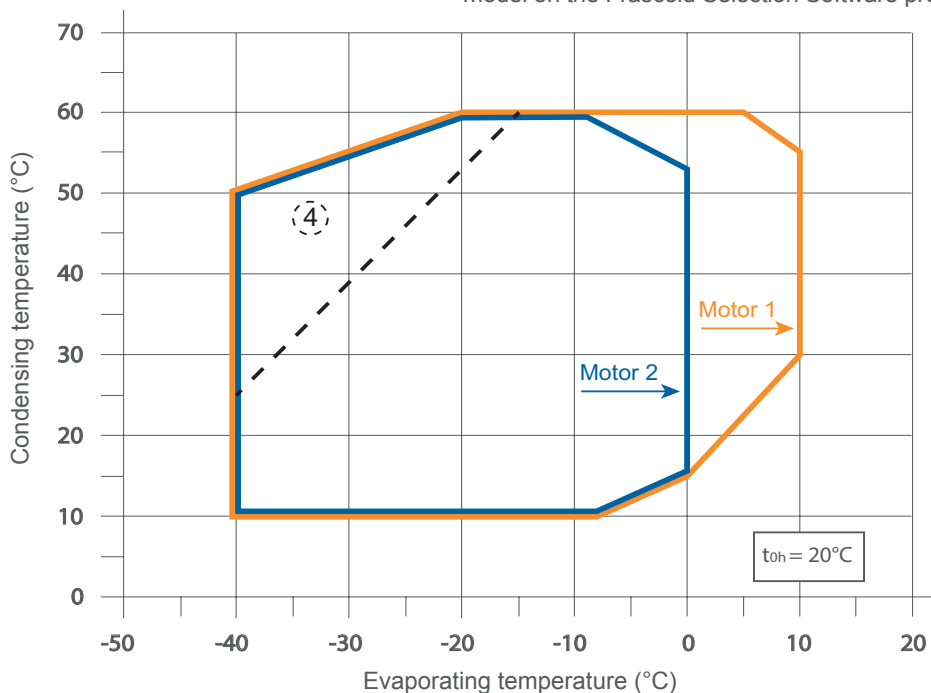
R448A - R449A

Standard application diagram

Motor size 1 - 2

Check the diagram of every single compressor

model on the Frascold Selection Software program



Compressor at 100% capacity

t_{0h}
④

Suction gas temperature = 20 ° C

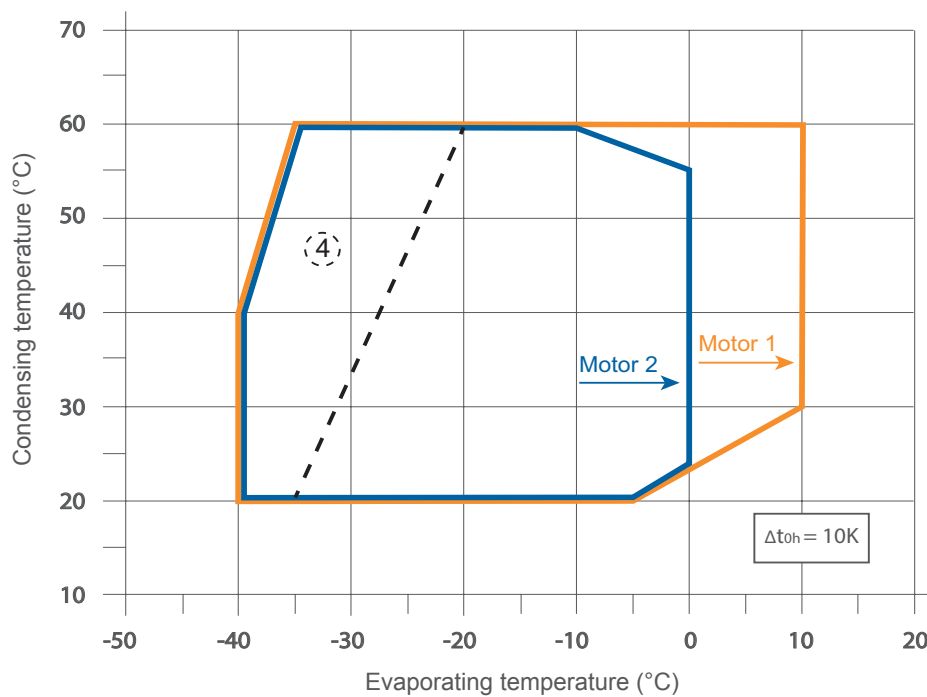
Additional cooling or superheat reduction, check on the Frascold Selection Software program

Operating limits

The compressors can operate within the range of the application diagrams; pay attention to the different areas. For the operating limits of each compressor refer to the Frascold Selection Software program (see page 74).

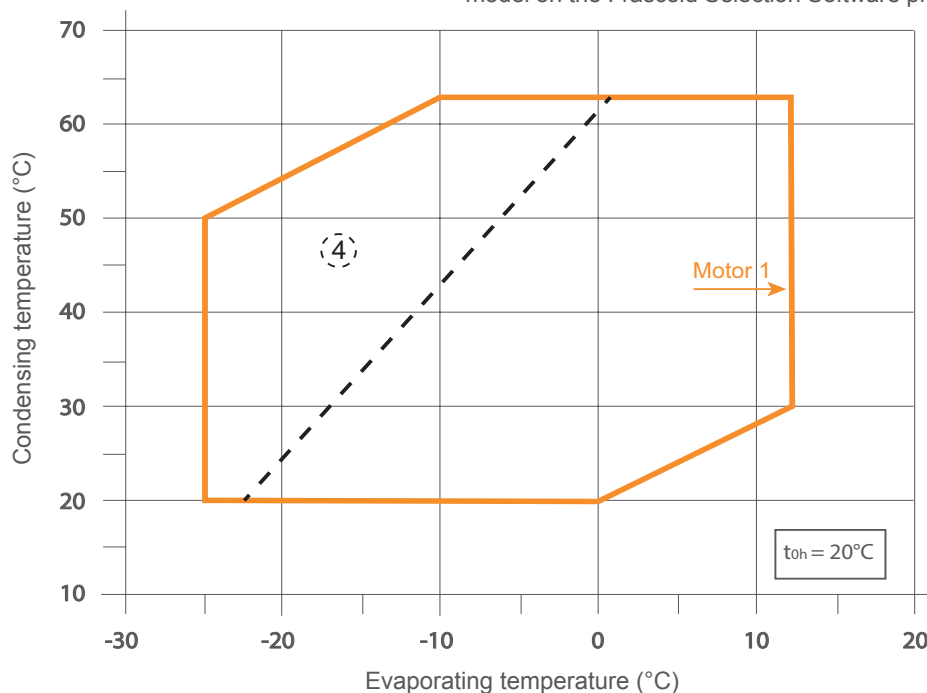
R407F - R407A

Standard application diagram
 Motor size 1 - 2
 Check the diagram of every single compressor model on the Frascold Selection Software program



R407C

Standard application diagram
 Motor size 1
 Check the diagram of every single compressor model on the Frascold Selection Software program



Compressor at 100% capacity

t_{oh} Suction gas temperature = 20 °C

Δt_{oh} Superheat = 10K

(4) Additional cooling or superheat reduction, check on the Frascold Selection Software program

Operating limits

The compressors can operate within the range of the application diagrams; pay attention to the different areas. For the operating limits of each compressor refer to the Frascold Selection Software program (see page 74).

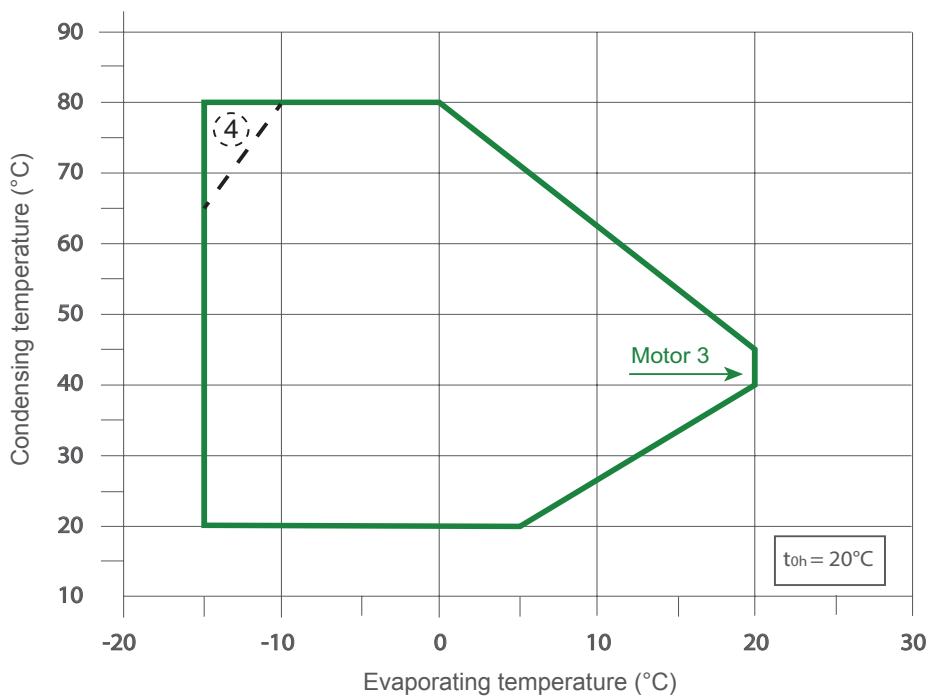
R1234ze

Standard application diagram

Motor size 3

Check the diagram of every single compressor

model on the Frascold Selection Software program



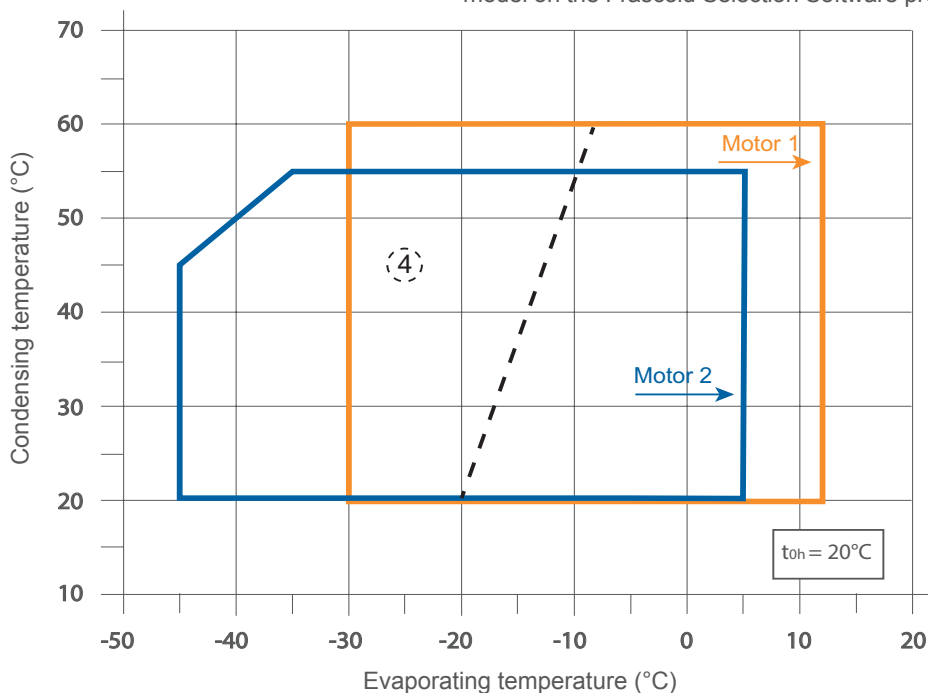
R22

Standard application diagram

Motor size 1 - 2

Check the diagram of every single compressor

model on the Frascold Selection Software program



Compressor at 100% capacity

t_{0h}
④

Suction gas temperature = 20 ° C

Additional cooling or superheat reduction, check on the Frascold Selection Software program

Semi-hermetic reciprocating compressors

Performance R134a [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				12,5	10	7,5	5	0	-5	-10	-15	-20	-25	-30
A05-4Y	1	30	Qo	3535	3204	2895	2607	2091	1648	1273	958	698	485	314
			Pe	0,61	0,59	0,57	0,55	0,51	0,84	0,44	0,40	0,36	0,31	0,26
		40	Qo	3128	2831	2554	22,96	1835	1439	1103	821	585	390	229
			Pe	0,70	0,68	0,66	0,63	0,59	0,55	0,50	0,45	0,39	0,33	0,26
		50	Qo	2745	2482	2237	2010	1602	1254	958	707	496	318	166
			Pe	0,81	0,78	0,75	0,72	0,67	0,61	0,56	0,49	0,42	0,34	0,24
A05-5Y	2	30	Qo	4379	3974	3595	3241	2604	2057	1591	1199	875	609	396
			Pe	0,76	0,73	0,71	0,68	0,64	0,60	0,55	0,50	0,45	0,39	0,32
		40	Qo	3873	3510	3170	2854	2284	1795	1379	1027	733	489	288
			Pe	0,88	0,85	0,82	0,79	0,74	0,68	0,62	0,56	0,49	0,41	0,32
		50	Qo	3399	3077	2777	2497	1995	1564	1196	884	620	397	208
			Pe	1,01	0,97	0,94	0,90	0,84	0,77	0,69	0,61	0,52	0,42	0,30
A07-5Y	1	50	Qo	3368	3047	2747	2467	1966	1536	1169	857	593	369	178
			Pe	0,99	0,96	0,93	0,90	0,83	0,76	0,69	0,61	0,52	0,42	0,31
		60	Qo	2911	2628	2366	2121	1685	1311	991	719	486	284	
			Pe	1,12	1,08	1,04	1,00	0,92	0,84	0,74	0,64	0,53	0,40	
		70	Qo	2465	2222	1996	1787	1414	1096	823	590	387		
			Pe	1,23	1,19	1,14	1,09	1,00	0,89	0,78	0,65	0,52		
A07-6Y	2	30	Qo	4755	4315	3904	3521	2835	2246	1745	1321	964	665	414
			Pe	0,79	0,77	0,76	0,74	0,70	0,67	0,62	0,57	0,51	0,43	0,35
		40	Qo	4161	3767	3399	3058	2447	1925	1481	1105	787	518	287
			Pe	0,92	0,90	0,88	0,86	0,81	0,76	0,69	0,62	0,54	0,45	0,33
		50	Qo	3614	3265	2940	2638	2101	1644	1255	925	645	404	192
			Pe	1,05	1,02	1,00	0,97	0,91	0,84	0,76	0,67	0,57	0,45	0,31
A1-6Y	1	50	Qo	3585	3246	2929	2633	2104	1648	1259	927	645	403	194
			Pe	1,04	1,01	0,98	0,96	0,90	0,83	0,75	0,66	0,55	0,43	0,30
		60	Qo	3101	2803	2525	2266	1804	1408	1069	778	529	312	
			Pe	1,16	1,13	1,10	1,07	0,99	0,91	0,81	0,70	0,57	0,43	
		70	Qo	2636	2379	2140	1918	1523	1186	897	649	433		
			Pe	1,29	1,26	1,22	1,18	1,10	0,99	0,88	0,75	0,60		
A1-7Y	2	30	Qo	6223	5663	5141	4655	3785	3041	2411	1882	1442	1080	782
			Pe	0,91	0,90	0,89	0,88	0,85	0,82	0,78	0,73	0,67	0,61	0,53
		40	Qo	5494	4989	4520	4084	3305	2640	2077	1605	1209	879	602
			Pe	1,11	1,09	1,07	1,05	1,00	0,94	0,88	0,80	0,72	0,62	0,52
		50	Qo	4787	4338	3921	3534	2845	2258	1762	1344	992	693	435
			Pe	1,29	1,26	1,23	1,20	1,13	1,05	0,96	0,85	0,74	0,62	0,48
A1.5-7Y	1	50	Qo	4722	4289	3886	3510	2836	2258	1763	1343	986	681	418
			Pe	1,28	1,25	1,23	1,20	1,13	1,06	0,97	0,87	0,76	0,64	0,50
		60	Qo	4072	3689	3334	3003	2411	1905	1472	1103	787	513	
			Pe	1,44	1,40	1,37	1,33	1,24	1,14	1,03	0,90	0,76	0,61	
		70	Qo	3422	3090	2782	2496	1988	1554	1185	922	594		
			Pe	1,60	1,55	1,50	1,45	1,34	1,21	1,08	0,74	0,76		
A1.5-8Y	1	30	Qo	6715	6144	5607	5103	4186	3387	2698	2109	1614	1205	873
			Pe	1,00	0,99	0,99	0,98	0,96	0,93	0,88	0,83	0,76	0,69	0,60
		40	Qo	5987	5468	4981	4523	3694	2972	2350	1820	1374	1004	702
			Pe	1,22	1,20	1,18	1,16	1,11	1,05	0,98	0,90	0,81	0,71	0,60
		50	Qo	5261	4795	4357	3947	3206	2593	2010	1540	1143	814	543
			Pe	1,43	1,40	1,36	1,33	1,25	1,16	1,06	0,95	0,84	0,71	0,58
B1.5-9.1Y	2	30	Qo	8072	7370	6713	6100	4999	4050	3241	2556	1983	1505	1110
			Pe	1,44	1,40	1,36	1,31	1,21	1,11	1,00	0,89	0,78	0,68	0,58
		40	Qo	7181	6547	5955	5403	4410	3554	2821	2197	1668	1218	835
			Pe	1,67	1,60	1,54	1,47	1,33	1,19	1,05	0,92	0,79	0,68	0,57
		50	Qo	6279	5715	5188	4697	3814	3052	2397	1834	1350	930	559
			Pe	1,86	1,77	1,68	1,59	1,41	1,24	1,08	0,93	0,79	0,67	0,57
B1.5-10.1Y	2	30	Qo	9101	8311	7572	6883	5644	4578	3669	2900	2257	1722	1280
			Pe	1,56	1,52	1,48	1,44	1,34	1,22	1,10	0,98	0,86	0,76	0,66
		40	Qo	8092	7381	6716	6096	4982	4023	3201	2502	1908	1404	974
			Pe	1,85	1,78	1,71	1,64	1,48	1,33	1,17	1,02	0,88	0,76	0,66
		50	Qo	7076	6444	5855	5305	4316	3464	2730	2100	1557	1085	668
			Pe	2,08	1,98	1,89	1,79	1,59	1,39	1,21	1,04	0,88	0,75	0,65
B2-10.1Y	1	50	Qo	6871	6261	5688	5152	4181	3339	2617	2004	1490	1065	720
			Pe	2,02	2,00	1,96	1,91	1,79	1,63	1,46	1,27	1,07	0,88	0,69
		60	Qo	5846	5313	4814	4347	3505	2776	2151	1620	1173	799	
			Pe	2,38	2,32	2,24	2,16	1,97	1,75	1,52	1,28	1,04	0,82	
		70	Qo	4832	4377	3951	3554	2840	2223	1695	1246	865		
			Pe	2,69	2,58	2,47	2,35	2,09	1,82	1,53	1,25	0,97		
D2-11.1Y	1	50	Qo	7846	7151	6493	5872	4743	3760	2913	2195	1593		
			Pe	2,15	2,11	2,06	2,01	1,87	1,72	1,56	1,38	1,20		
		60	Qo	6574	5980	5416	4883	3909	3056	2316	1681	1143		
			Pe	2,45	2,38	2,30	2,21	2,02	1,82	1,62	1,40	1,19		
		70	Qo	5327	4829	4356	3906	3080	2349	1710	1154	675		
			Pe	2,70	2,59	2,48	2,37	2,13	1,88	1,64	1,39	1,16		

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.





To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R134a [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				12,5	10	7,5	5	0	-5	-10	-15	-20	-25	-30
D2-13.1Y 	2	30	Qo	12215	11137	10128	9187	7499	6054	4829	3800	2937		
			Pe	1,65	1,70	1,72	1,73	1,72	1,65	1,56	1,44	1,31		
		40	Qo	10750	9793	8897	8061	6560	5274	4183	3264	2491		
			Pe	2,17	2,16	2,13	2,10	2,00	1,87	1,72	1,55	1,39		
		50	Qo	9282	8447	7666	6935	5624	4500	3546	2742	2064		
			Pe	2,60	2,55	2,48	2,40	2,23	2,04	1,84	1,65	1,47		
D3-13.1Y 	1	50	Qo	9370	8481	7651	6879	5504	4342	3373	2574	1922		
			Pe	2,61	2,55	2,48	2,41	2,23	2,03	1,83	1,63	1,44		
		60	Qo	7882	7114	6398	5732	4549	3553	2728	2055	1511		
			Pe	2,96	2,86	2,74	2,63	2,38	2,13	1,89	1,66	1,47		
		70	Qo	6406	5764	5165	4609	3624	2799	2120	1574	1139		
			Pe	3,26	3,11	2,96	2,81	2,51	2,22	1,95	1,71	1,53		
D2-15.1Y	2	30	Qo	13790	12605	11496	10458	8586	6967	5578	4395	3396	2556	1854
			Pe	2,60	2,48	2,36	2,25	2,02	1,80	1,59	1,39	1,21	1,04	0,89
		40	Qo	12249	11179	10177	9240	7551	6088	4829	3750	2828	2041	1364
			Pe	2,88	2,73	2,59	2,44	2,17	1,91	1,67	1,45	1,25	1,08	0,93
		50	Qo	10688	9734	8840	8006	6502	5198	4072	3100	2258	1524	875
			Pe	3,11	2,93	2,76	2,60	2,29	2,00	1,73	1,50	1,29	1,12	0,99
D3-15.1Y	1	50	Qo	10714	9741	8832	7984	6458	5140	4006	3032	2195	1470	833
			Pe	2,92	2,78	2,64	2,50	2,24	1,99	1,75	1,54	1,35	1,18	1,03
		60	Qo	9140	8284	7485	6741	5404	4247	3249	2383	1628	959	
			Pe	3,09	2,93	2,77	2,62	2,32	2,05	1,80	1,58	1,39	1,23	
		70	Qo	7554	6817	6131	5492	4346	3355	2494	1741	1071		
			Pe	3,23	3,05	2,88	2,71	2,39	2,11	1,86	1,64	1,45		
D3-16.1Y	2	30	Qo	14515	13238	12044	10931	8934	7217	5756	4522	3489	2629	1916
			Pe	2,41	2,38	2,33	2,28	2,16	2,01	1,84	1,65	1,44	1,23	1,01
		40	Qo	12860	11710	10637	9637	7841	6297	4977	3854	2901	2092	1398
			Pe	2,87	2,79	2,70	2,61	2,41	2,19	1,96	1,72	1,48	1,23	1,00
		50	Qo	11196	10175	9222	8335	6743	5371	4193	3182	2310	1551	878
			Pe	3,25	3,12	2,99	2,86	2,59	2,31	2,02	1,74	1,47	1,20	0,95
D4-16.1Y 	1	50	Qo	11383	10375	9431	8548	6963	5604	4448	3470	2642		
			Pe	3,56	3,47	3,38	3,28	3,07	2,84	2,59	2,33	2,04		
		60	Qo	9702	8837	8026	7267	5903	4732	3734	2890	2172		
			Pe	4,02	3,89	3,76	3,63	3,34	3,05	2,73	2,40	2,06		
		70	Qo	8052	7330	6653	6018	4876	3894	3056	2345	1740		
			Pe	4,46	4,29	4,12	3,95	3,60	3,23	2,85	2,46	2,06		
D3-18.1Y	2	30	Qo	16438	15008	13669	12420	10182	8268	6648	5288	4150		
			Pe	2,64	2,63	2,61	2,58	2,49	2,37	2,22	2,06	1,89		
		40	Qo	14527	13259	12072	10963	8974	7271	5827	4610	3587		
			Pe	3,26	3,20	3,14	3,06	2,89	2,69	2,48	2,26	2,04		
		50	Qo	12588	11483	10448	9481	7745	6257	4993	3927	3027		
			Pe	3,82	3,71	3,60	3,48	3,23	2,96	2,69	2,42	2,15		
D4-18.1Y	1	50	Qo	13431	12203	11059	9993	8084	6443	5035	3828	2788	1883	1079
			Pe	3,40	3,30	3,19	3,07	2,82	2,55	2,27	1,98	1,69	1,42	1,16
		60	Qo	11445	10371	9371	8441	6776	5342	4105	3034	2094	1252	
			Pe	3,77	3,63	3,48	3,32	3,00	2,67	2,33	2,00	1,68	1,38	
		70	Qo	9455	8535	7680	6887	5467	4243	3181	2247	1409		
			Pe	4,08	3,90	3,71	3,52	3,13	2,74	2,35	1,98	1,63		
D3-19.1Y	2	30	Qo	18611	16991	15475	14060	11516	9326	7459	5883	4567	3479	2587
			Pe	2,91	2,86	2,81	2,74	2,58	2,39	2,18	1,95	1,71	1,46	1,22
		40	Qo	16486	15033	13674	12406	10125	8158	6474	5042	3829	2804	1936
			Pe	3,50	3,39	3,27	3,15	2,89	2,62	2,34	2,06	1,77	1,50	1,25
		50	Qo	14354	13067	11865	10744	8726	6983	5483	4194	3085	2124	1279
			Pe	3,99	3,82	3,65	3,48	3,13	2,78	2,44	2,11	1,80	1,51	1,25
D4-19.1Y 	1	50	Qo	13476	12299	11198	10169	8320	6729	5374	4235	3287		
			Pe	4,10	4,01	3,92	3,80	3,55	3,27	2,97	2,67	2,38		
		60	Qo	11428	10418	9475	8596	7019	5667	4517	3546	2734		
			Pe	4,67	4,53	4,38	4,22	3,88	3,52	3,16	2,81	2,50		
		70	Qo	9381	8540	7757	7030	5731	4622	3680	2883	2210		
			Pe	5,17	4,98	4,78	4,57	4,15	3,72	3,31	2,93	2,59		
Q4-20.1Y	2	30	Qo	14644	13347	12128	10983	8912	7115	5576	4275	3197	2322	1634
			Pe	3,57	3,51	3,43	3,34	3,12	2,87	2,60	2,30	2,00	1,70	1,41
		40	Qo	12582	11445	10377	9377	7567	6000	4657	3520	2571	1794	1170
			Pe	4,19	4,08	3,95	3,81	3,50	3,16	2,81	2,44	2,08	1,72	1,38
		50	Qo	10498	9526	8614	7762	6224	4895	3757	2792	1983		
			Pe	4,77	4,60	4,42	4,23	3,83	3,41	2,97	2,54	2,11		
Q4-20.1E ECOinside	3	20	Qo					13132	10643	8520	6743	5294	4156	3310
			Pe					1,68	1,70	1,68	1,61	1,51	1,38	1,24
		30	Qo					12193	9843	7826	6125	4721	3595	2731
			Pe					2,31	2,22	2,08	1,92	1,74	1,54	1,33
		40	Qo					10752	8620	6790	5244	3963	2930	2126
			Pe					2,79	2,60	2,38	2,14	1,90	1,65	1,41
		50	Qo					8913	7079	5515	4203	3126	2264	1601
			Pe					3,09	2,82	2,53	2,24	1,96	1,68	1,43

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.










To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

 This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R134a [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]											
				12,5	10	7,5	5	0	-5	-10	-15	-20	-25	-30	
Q4-21.1Y 	2	30	Qo	19518	17709	16019	14444	11630	9236	7224	5552	4173			
			Pe	2,47	2,51	2,53	2,53	2,47	2,35	2,18	1,98	1,77			
		40	Qo	17212	15587	14068	12653	10125	7977	6174	4679	3450			
			Pe	3,25	3,20	3,14	3,07	2,87	2,64	2,38	2,11	1,84			
		50	Qo	14784	13355	12019	10775	8556	6675	5104	3809	2751			
			Pe	3,86	3,74	3,60	3,46	3,15	2,83	2,49	2,17	1,88			
Q5-21.1Y 	1	50	Qo	14952	13498	12137	10871	8609	6692	5092	3774	2702			
			Pe	3,78	3,67	3,55	3,42	3,14	2,83	2,51	2,19	1,88			
		60	Qo	12641	11369	10179	9072	7100	5435	4054	2929	2028			
			Pe	4,26	4,09	3,92	3,74	3,36	2,97	2,58	2,21	1,86			
		70	Qo	10308	9229	8222	7284	5618	4219	3070	2146	1420			
			Pe	4,63	4,41	4,18	3,95	3,49	3,02	2,58	2,16	1,77			
Q4-24.1Y 	2	30	Qo	21805	19829	17980	16255	13164	10524	8294	6428	4877			
			Pe	2,90	2,93	2,93	2,92	2,85	2,71	2,53	2,32	2,08			
		40	Qo	19092	17349	15718	14194	11462	9123	7144	5481	4090			
			Pe	3,68	3,64	3,58	3,50	3,31	3,06	2,79	2,48	2,18			
		50	Qo	16415	14903	13485	12161	9782	7744	6013	4555	3327			
			Pe	4,38	4,27	4,15	4,01	3,70	3,36	2,99	2,61	2,24			
Q4-24.1E  ECOinside	3	20	Qo					15221	12329	9870	7800	6075	4651	3483	
			Pe					2,30	2,24	2,15	2,02	1,86	1,69	1,50	
		30	Qo					13503	10878	8656	6793	5245	3967	2916	
			Pe					2,87	2,71	2,52	2,30	2,07	1,84	1,60	
		40	Qo					11821	9459	7470	5810	4435	3301	2364	
			Pe					3,35	3,09	2,82	2,52	2,23	1,93	1,65	
50	Qo					10180	8078	6319	4859	3653	2659	1832			
	Pe					3,76	3,40	3,04	2,68	2,32	1,97	1,64			
Q5-24.1Y 	1	50	Qo	16817	15218	13722	12328	9835	7711	5920	4422	3171			
			Pe	4,33	4,20	4,05	3,90	3,58	3,23	2,87	2,51	2,16			
		60	Qo	14181	12798	11503	10296	8137	6298	4748	3453	2374			
			Pe	4,90	4,71	4,51	4,30	3,87	3,43	3,00	2,58	2,18			
		70	Qo	11519	10359	9273	8259	6445	4902	3603	2521	1622			
			Pe	5,40	5,15	4,89	4,63	4,10	3,58	3,08	2,60	2,16			
Q4-25.1Y 	2	30	Qo	21889	19944	18119	16410	13323	10650	8360	6421	4800	3466	2385	
			Pe	2,92	2,93	2,92	2,90	2,81	2,67	2,48	2,26	2,01	1,76	1,50	
		40	Qo	19181	17426	15783	14247	11480	9095	7059	5340	3906	2724	1763	
			Pe	3,76	3,69	3,61	3,52	3,29	3,03	2,73	2,42	2,09	1,77	1,45	
		50	Qo	16550	14984	13522	12159	9713	7615	5832	4333	3084	2055	1212	
			Pe	4,49	4,35	4,20	4,03	3,68	3,31	2,91	2,51	2,12	1,73	1,37	
Q5-25.1Y	2	30	Qo	23014	21009	19139	17398	14281	11613	9350	7445	5854	4531	3432	
			Pe	2,85	2,91	2,94	2,95	2,91	2,80	2,65	2,46	2,26	2,04	1,84	
		40	Qo	20508	18708	17030	15469	12676	10282	8244	6515	5051	3806	2735	
			Pe	3,78	3,76	3,72	3,66	3,49	3,28	3,02	2,75	2,47	2,19	1,94	
		50	Qo	17980	16385	14901	13521	11053	8936	7125	5574	4238	3073	2033	
			Pe	4,66	4,57	4,45	4,33	4,03	3,70	3,35	2,98	2,62	2,29	1,98	
Q7-25.1Y	1	50	Qo	18412	16773	15246	13826	11285	9104	7240	5648	4283	3101	2057	
			Pe	4,79	4,70	4,60	4,48	4,21	3,89	3,54	3,18	2,81	2,45	2,11	
		60	Qo	15888	14449	13111	11868	9646	7739	6103	4692	3463	2371	1372	
			Pe	5,56	5,41	5,25	5,07	4,67	4,25	3,81	3,36	2,91	2,49	2,09	
		70	Qo	13325	12089	10942	9879	7982	6355	4952	3730	2643	1647		
			Pe	6,28	6,06	5,83	5,59	5,08	4,55	4,01	3,48	2,96	2,47		
Q5-28.1Y 	2	30	Qo	25263	22987	20859	18878	15335	12319	9780	7660	5900			
			Pe	3,58	3,58	3,56	3,52	3,39	3,22	2,99	2,74	2,47			
		40	Qo	22361	20332	18435	16667	13503	10807	8533	6631	5045			
			Pe	4,53	4,44	4,34	4,23	3,96	3,65	3,32	2,98	2,62			
		50	Qo	19394	17617	15954	14404	11629	9262	7265	5592	4195			
			Pe	5,37	5,20	5,02	4,83	4,43	4,00	3,57	3,13	2,71			
Q5-28.1E  ECOinside	3	20	Qo					17757	14379	11504	9089	7092	5469	4177	
			Pe					2,69	2,62	2,50	2,35	2,16	1,97	1,76	
		30	Qo					15761	12699	10101	7924	6125	4660	3487	
			Pe					3,35	3,16	2,94	2,69	2,42	2,15	1,88	
		40	Qo					13789	11042	8720	6778	5174	3866	2811	
			Pe					3,92	3,61	3,29	2,94	2,60	2,26	1,93	
50	Qo					11858	9424	7374	5666	4257	3104	2163			
	Pe					4,38	3,97	3,55	3,12	2,70	2,30	1,92			
Q7-28.1Y 	1	50	Qo	19590	17750	16033	14435	11588	9172	7144	5454	4047			
			Pe	5,33	5,17	4,99	4,81	4,43	4,02	3,60	3,17	2,75			
		60	Qo	16626	15037	13552	12171	9708	7620	5869	4413	3202			
			Pe	6,02	5,78	5,54	5,29	4,77	4,26	3,74	3,23	2,74			
		70	Qo	13641	12308	11063	9903	7835	6083	4617	3400	2392			
			Pe	6,61	6,30	5,99	5,67	5,04	4,41	3,81	3,23	2,68			

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.





To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R134a [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				12,5	10	7,5	5	0	-5	-10	-15	-20	-25	-30
Q5-33.1Y 	2	30	Qo	28870	26294	23894	21665	17691	14305	11429	8977	6860		
			Pe	4,38	4,31	4,24	4,16	3,97	3,75	3,48	3,17	2,81		
		40	Qo	25324	23075	20980	19032	15555	12583	10047	7870	5969		
			Pe	5,34	5,20	5,06	4,91	4,60	4,27	3,90	3,49	3,05		
		50	Qo	21931	19994	18188	16507	13500	10921	8707	6790	5095		
			Pe	6,29	6,09	5,88	5,66	5,23	4,77	4,29	3,79	3,25		
Q5-33.1E ECOinside 	3	20	Qo					20928	16951	13567	10720	8353	6411	4836
			Pe					3,17	3,08	2,94	2,77	2,56	2,33	2,09
		30	Qo					18570	14963	11906	9343	7217	5472	4052
			Pe					3,95	3,72	3,45	3,16	2,85	2,53	2,22
		40	Qo					16249	13008	10273	7989	6100	4548	3277
			Pe					4,62	4,25	3,87	3,47	3,06	2,66	2,28
50	Qo					13983	11103	8687	6678	5020	3656	2531		
	Pe					5,17	4,68	4,18	3,68	3,19	2,72	2,28		
Q7-33.1Y 	1	50	Qo	22783	20740	18822	17029	13803	11029	8666	6666	4974		
			Pe	6,44	6,29	6,11	5,91	5,44	4,92	4,37	3,82	3,31		
		60	Qo	19398	17645	15999	14458	11682	9294	7258	5531	4067		
			Pe	7,25	7,01	6,75	6,46	5,87	5,25	4,64	4,06	3,55		
		70	Qo	15993	14538	13169	11887	9576	7585	5888	4448	3226		
			Pe	7,95	7,63	7,30	6,96	6,27	5,59	4,95	4,38	3,91		
S5-33Y	2	30	Qo	30264	27652	25213	22940	18865	15368	12394	9884	7781	6029	4571
			Pe	4,80	4,78	4,73	4,65	4,40	4,07	3,70	3,31	2,94	2,62	2,38
		40	Qo	27006	24658	22467	20426	16768	13627	10944	8664	6728	5081	3663
			Pe	6,03	5,88	5,70	5,51	5,06	4,59	4,10	3,65	3,26	2,95	2,78
		50	Qo	23724	21640	19697	17890	14651	11866	9477	7427	5660	4118	2744
			Pe	7,06	6,79	6,52	6,23	5,63	5,05	4,50	4,02	3,64	3,40	3,32
S7-33Y	1	50	Qo	23743	21622	19646	17809	14521	11698	9283	7217	5442	3901	2535
			Pe	6,17	6,02	5,85	5,65	5,21	4,72	4,20	3,65	3,10	2,58	2,08
		60	Qo	20418	18562	16836	15233	12365	9901	7782	5951	4350	2919	1602
			Pe	7,14	6,89	6,62	6,33	5,73	5,08	4,42	3,77	3,12	2,52	1,96
		70	Qo	17059	15470	13996	12629	10187	8087	6271	4680	3257	1943	
			Pe	7,99	7,64	7,28	6,90	6,13	5,34	4,55	3,78	3,05	2,37	
Q5-36.1Y ECOinside 	3	20	Qo					21457	17579	14233	11378	8971	6972	5338
			Pe					3,58	3,49	3,34	3,14	2,90	2,64	2,37
		30	Qo					19384	15834	12776	10170	7973	6144	4641
			Pe					4,49	4,22	3,91	3,56	3,20	2,84	2,48
		40	Qo					17177	13970	11216	8875	6903	5260	3904
			Pe					5,33	4,89	4,43	3,96	3,48	3,02	2,59
50	Qo					14864	12016	9582	7520	5790	4348	3154		
	Pe					6,02	5,43	4,83	4,23	3,66	3,12	2,62		
Q7-36.1Y	1	30	Qo	32386	29867	27470	25195	21001	17273	14000	11170	8771		
			Pe	6,44	6,03	5,69	5,40	4,99	4,72	4,53	4,33	4,08		
		40	Qo	29174	26828	24598	22482	18586	15128	12097	9480	7267		
			Pe	7,13	6,66	6,25	5,91	5,37	4,98	4,66	4,34	3,97		
		50	Qo	25985	23844	21812	19886	16350	13225	10498	8158	6193		
			Pe	8,02	7,50	7,05	6,66	6,03	5,54	5,12	4,71	4,24		
S8-42Y	2	30	Qo	40831	37265	33932	30821	25232	20426	16333	12881	9997	7610	5649
			Pe	5,60	5,72	5,77	5,76	5,59	5,24	4,77	4,22	3,65	3,09	2,60
		40	Qo	36822	33509	30416	27535	22373	17951	14198	11040	8408	6229	4430
			Pe	7,85	7,69	7,49	7,25	6,65	5,95	5,20	4,45	3,73	3,11	2,63
		50	Qo	32600	29548	26705	24063	19347	15326	11930	9086	6722	4768	3152
			Pe	9,58	9,18	8,75	8,30	7,34	6,35	5,37	4,47	3,67	3,04	2,61
S8-42E ECOinside	3	20	Qo					29370	23902	19236	15176	11941	8754	6167
			Pe					3,97	3,99	3,90	3,70	3,52	3,10	2,69
		30	Qo					26517	21465	17170	13428	10412	7400	5058
			Pe					5,03	4,87	4,60	4,24	3,93	3,35	2,77
		40	Qo					23385	18798	14810	11410	8700	6030	3955
			Pe					5,98	5,60	5,10	4,62	4,13	3,40	2,68
50	Qo					19951	15849	12323	9366	6872	4511	2690		
	Pe					6,68	6,09	5,43	4,79	4,08	3,23	2,40		
S12-42Y	1	50	Qo	29272	26614	24122	21790	17583	13950	10844	8222	6039	4250	2810
			Pe	7,16	6,94	6,70	6,44	5,89	5,30	4,68	4,03	3,39	2,75	2,13
		60	Qo	25144	22761	20533	18455	14722	11519	8801	6522	4639	3106	1879
			Pe	8,09	7,78	7,44	7,10	6,38	5,64	4,88	4,12	3,36	2,64	1,95
		70	Qo	21034	18934	16978	15160	11916	9158	6841	4920	3351	2089	
			Pe	9,02	8,61	8,19	7,76	6,88	5,99	5,11	4,23	3,39	2,59	
S10-52Y	2	30	Qo	46921	42849	39048	35507	29159	23718	19096	15204	11956	9263	7037
			Pe	6,72	6,72	6,69	6,60	6,33	5,93	5,45	4,92	4,36	3,82	3,33
		40	Qo	41766	38113	34704	31530	25842	20960	16796	13262	10271	7734	5565
			Pe	8,59	8,42	8,22	7,98	7,43	6,79	6,12	5,43	4,77	4,17	3,66
		50	Qo	36593	33358	30344	27538	22511	18189	14485	11311	8579	6200	4088
			Pe	10,24	9,91	9,55	9,17	8,37	7,53	6,69	5,89	5,15	4,51	4,01

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.


To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R134a [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				12,5	10	7,5	5	0	-5	-10	-15	-20	-25	-30
S10-52E <i>ECOinside</i>	3	20	Qo					35106	28055	21995	16899	12696	9288	6525
			Pe					4,82	4,74	4,55	4,24	3,83	3,37	2,87
		30	Qo					30841	24563	19205	14610	10849	7791	5316
			Pe					5,98	5,67	5,25	4,74	4,16	3,55	2,90
		40	Qo					26660	21119	16434	12373	8946	6207	4073
Pe						6,94	6,42	5,79	5,09	4,34	3,57	2,79		
50	Qo					22345	17612	13541	10119	7170	4745	2825		
	Pe					7,70	6,94	6,12	5,25	4,34	3,43	2,52		
S15-52Y	1	50	Qo	36604	33327	30276	27439	22363	18008	14283	11099	8363	5984	3873
			Pe	8,65	8,49	8,30	8,08	7,57	6,97	6,30	5,59	4,84	4,09	3,34
		60	Qo	31463	28593	25926	23450	19024	15224	11960	9140	6675	4472	2442
			Pe	10,10	9,80	9,48	9,14	8,39	7,57	6,70	5,81	4,90	4,00	3,13
		70	Qo	26268	23811	21533	19422	15656	12421	9626	7182	4996	2979	
			Pe	11,42	10,99	10,53	10,06	9,07	8,03	6,96	5,88	4,81	3,76	
S12-56E <i>ECOinside</i>	3	20	Qo					37765	30053	23510	18020	13511	9874	6936
			Pe					5,19	5,10	4,87	4,52	4,06	3,53	2,95
		30	Qo					33093	26290	20529	15594	11572	8318	5694
			Pe					6,42	6,09	5,64	5,07	4,42	3,72	2,99
		40	Qo					28524	22586	17574	13224	9563	6655	4410
			Pe					7,46	6,90	6,21	5,43	4,58	3,74	2,90
50	Qo					23888	18820	14483	10847	7711	5144	3127		
	Pe					8,27	7,48	6,58	5,62	4,64	3,61	2,63		
S15-56Y	2	30	Qo	51659	47184	43006	39111	32123	26126	21025	16723	13125	10136	7661
			Pe	8,59	8,54	8,43	8,28	7,87	7,32	6,68	5,97	5,24	4,52	3,83
		40	Qo	46068	42045	38290	34792	28517	23125	18520	14608	11292	8476	6066
			Pe	10,67	10,41	10,11	9,77	9,02	8,19	7,31	6,41	5,54	4,72	3,99
		50	Qo	40436	36865	33536	30436	24878	20095	15992	12473	9442	6804	4464
			Pe	12,45	11,99	11,50	11,00	9,94	8,86	7,77	6,71	5,73	4,84	4,10
S20-56Y	1	50	Qo	40994	37342	33938	30772	25102	20233	16065	12500	9440	6786	4439
			Pe	10,68	10,40	10,08	9,74	8,98	8,14	7,27	6,39	5,52	4,69	3,94
		60	Qo	35304	32103	29126	26359	21409	17154	13495	10334	7572	5110	2851
			Pe	12,15	11,71	11,25	10,77	9,76	8,72	7,66	6,63	5,64	4,73	3,93
		70	Qo	29536	26793	24247	21886	17667	14038	10900	8153	5701	3444	
			Pe	13,43	12,85	12,25	11,65	10,41	9,16	7,94	6,77	5,69	4,71	
V15-59Y	2	30	Qo	54947	50179	45727	41575	34128	27736	22297	17710	13873	10684	8041
			Pe	8,57	8,50	8,39	8,23	7,79	7,23	6,57	5,85	5,11	4,36	3,65
		40	Qo	48975	44687	40684	36955	30265	24516	19605	15431	11893	8889	6316
			Pe	10,59	10,31	10,00	9,65	8,89	8,04	7,14	6,23	5,34	4,50	3,75
		50	Qo	42957	39149	35599	32294	26366	21263	16885	13129	9894	7078	4580
			Pe	12,28	11,81	11,32	10,81	9,73	8,63	7,53	6,46	5,46	4,55	3,78
V15-59E <i>ECOinside</i>	3	20	Qo					41098	32894	25941	20178	15386	11420	8192
			Pe					5,63	5,54	5,32	4,99	4,58	4,09	3,57
		30	Qo					37157	29455	22935	17543	13160	9546	6576
			Pe					7,06	6,65	6,14	5,56	4,91	4,24	3,55
		40	Qo					32648	25533	19691	14860	10922	7688	5029
			Pe					8,28	7,57	6,79	5,97	5,12	4,27	3,44
50	Qo					27971	21678	16498	12244	8796	5978	3658		
	Pe					9,34	8,34	7,31	6,26	5,22	4,21	3,26		
V20-59Y	1	50	Qo	43798	39839	36150	32717	26565	21278	16752	12880	9556	6675	4132
			Pe	10,67	10,32	9,95	9,55	8,70	7,81	6,89	5,97	5,08	4,25	3,51
		60	Qo	37564	34090	30857	27852	22473	17847	13868	10431	7431	4761	2316
			Pe	11,97	11,48	10,97	10,44	9,36	8,27	7,18	6,14	5,16	4,27	3,50
		70	Qo	31268	28285	25514	22943	18348	14394	10975	7985	5320	2872	
			Pe	13,07	12,44	11,81	11,16	9,88	8,61	7,38	6,23	5,18	4,25	
V15-71Y 	2	30	Qo	64862	59249	54008	49123	40362	32844	26447	21051	16533	12773	9648
			Pe	9,96	9,90	9,78	9,60	9,10	8,45	7,68	6,85	5,99	5,16	4,39
		40	Qo	57731	52698	48002	43627	35782	29041	23283	18386	14228	10690	7648
			Pe	12,46	12,14	11,78	11,38	10,48	9,47	8,41	7,35	6,31	5,35	4,52
		50	Qo	50581	46127	41975	38109	31179	25213	20091	15692	11894	8575	5614
			Pe	14,57	14,03	13,45	12,84	11,56	10,25	8,94	7,67	6,49	5,45	4,59
V15-71E <i>ECOinside</i>	3	20	Qo					47145	38124	30278	23627	18042	13399	9605
			Pe					6,50	6,43	6,19	5,81	5,32	4,75	4,12
		30	Qo					42762	33989	26562	20347	15285	11083	7651
			Pe					8,19	7,73	7,14	6,45	5,70	4,90	4,10
		40	Qo					37665	29532	22821	17284	12743	9022	6016
			Pe					9,62	8,81	7,91	6,96	5,98	5,00	4,05
50	Qo					32593	25374	19429	14543	10575	7355	4747		
	Pe					10,89	9,76	8,59	7,41	6,25	5,13	4,08		

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.





To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R134a [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				12,5	10	7,5	5	0	-5	-10	-15	-20	-25	-30
V25-71Y	1	50	Qo	50416	45814	41501	37467	30192	23908	18532	13983	10177	7033	4469
			Pe	14,37	13,89	13,38	12,85	11,72	10,52	9,28	8,03	6,80	5,61	4,49
		60	Qo	42548	38555	34822	31340	25084	19704	15120	11247	8005	5310	3081
			Pe	15,87	15,21	14,52	13,82	12,39	10,92	9,45	8,01	6,61	5,29	4,07
		70	Qo	35040	31650	28492	25556	20306	15820	12014	8807	6116	3858	
			Pe	17,11	16,28	15,44	14,59	12,88	11,17	9,50	7,88	6,36	4,94	
V20-84Y 	2	30	Qo	76087	69392	63112	57234	46623	37447	29591	22943	17389	12815	9108
			Pe	12,04	11,87	11,66	11,41	10,77	10,00	9,12	8,17	7,18	6,17	5,18
		40	Qo	66637	60649	55044	49808	40387	32273	25352	19512	14638	10617	7336
			Pe	14,41	14,03	13,62	13,17	12,17	11,08	9,93	8,73	7,53	6,36	5,24
		50	Qo	57687	52395	47454	42851	34599	27527	21521	16468	12254	8766	5890
			Pe	16,44	15,87	15,27	14,65	13,34	11,97	10,57	9,17	7,80	6,50	5,29
V20-84E ECOinside	3	20	Qo					54741	44711	35849	27661	21750	15157	10970
			Pe					7,61	7,54	7,26	6,66	6,19	5,08	4,37
		30	Qo					49916	40152	31662	23951	18472	12532	8846
			Pe					9,63	9,08	8,38	7,37	6,56	5,13	4,20
		40	Qo					44318	35094	27362	20379	15354	10313	7192
			Pe					11,36	10,37	9,26	7,87	6,74	5,16	4,25
50	Qo					38677	30351	23347	17079	12538	8470	5850		
	Pe					12,87	11,47	9,97	8,23	6,80	5,23	4,31		
V30-84Y 	1	50	Qo	57001	51914	47145	42682	34627	27655	21669	16576	12281	8689	5706
			Pe	16,15	15,66	15,13	14,58	13,40	12,14	10,83	9,49	8,16	6,85	5,59
		60	Qo	48767	44288	40097	36183	29137	23057	17846	13411	9655	6486	3807
			Pe	17,93	17,25	16,54	15,82	14,31	12,76	11,19	9,62	8,08	6,59	5,18
		70	Qo	40614	36745	33136	29774	23744	18562	14132	10360	7151	4410	
			Pe	19,39	18,53	17,66	16,77	14,96	13,13	11,31	9,52	7,78	6,13	
V25-93Y	2	30	Qo	81620	75169	69026	63184	52389	42746	34216	26761	20343	14924	10467
			Pe	14,00	13,85	13,62	13,32	12,55	11,58	10,48	9,29	8,07	6,86	5,73
		40	Qo	73511	67539	61861	56470	46535	37695	29913	23151	17370	12532	8599
			Pe	17,25	16,77	16,23	15,64	14,34	12,93	11,45	9,97	8,54	7,20	6,01
		50	Qo	65085	59638	54469	49575	40590	32645	25703	19723	14670	10504	7187
			Pe	19,98	19,19	18,37	17,51	15,75	13,95	12,16	10,45	8,85	7,44	6,25
V32-93Y 	1	50	Qo	65978	59742	53894	48422	38556	30044	22786	16683	11636	7544	4309
			Pe	17,93	17,37	16,76	16,11	14,70	13,19	11,62	10,02	8,45	6,93	5,51
		60	Qo	55632	50138	45001	40207	31600	24220	17966	12739	8439	4967	2223
			Pe	19,63	18,85	18,03	17,17	15,40	13,56	11,70	9,86	8,08	6,41	4,88
		70	Qo	45538	40793	36373	32264	24933	18700	13464	9128	5590	2753	
			Pe	20,89	19,89	18,87	17,83	15,71	13,58	11,46	9,41	7,47	5,68	
V25-103Y	2	30	Qo	86780	79531	72676	66208	54392	44004	34970	27211	20653	15217	10829
			Pe	13,81	13,83	13,75	13,58	13,02	12,20	11,19	10,04	8,81	7,56	6,37
		40	Qo	76401	69884	63735	57943	47392	38155	30157	23320	17568	12825	9014
			Pe	17,65	17,30	16,88	16,39	15,23	13,90	12,45	10,94	9,43	7,99	6,66
		50	Qo	66790	60990	55529	50396	41078	32960	25965	20017	15039	10956	7689
			Pe	20,99	20,30	19,55	18,75	17,05	15,24	13,40	11,57	9,83	8,23	6,83
V25-103E ECOinside	3	20	Qo					67295	55141	44334	35100	27259	20655	15198
			Pe					10,05	9,76	9,26	8,60	7,82	6,95	6,03
		30	Qo					60506	48923	38962	30481	23462	17556	12618
			Pe					12,17	11,42	10,52	9,50	8,39	7,24	6,09
		40	Qo					52839	42326	33526	26013	19742	14426	9969
			Pe					13,97	12,79	11,51	10,15	8,76	7,36	6,00
50	Qo					45372	36200	28444	21811	16218	11446	7426		
	Pe					15,48	13,92	12,29	10,62	8,97	7,35	5,82		
V35-103Y	1	50	Qo	71722	65372	59448	53930	44030	35508	28201	21947	16582	11943	7867
			Pe	20,12	19,45	18,73	17,97	16,34	14,63	12,87	11,13	9,44	7,87	6,47
		60	Qo	61592	56054	50894	46092	37478	30051	23646	18101	13252	8937	4992
			Pe	22,89	21,92	20,91	19,88	17,77	15,65	13,56	11,55	9,68	8,00	6,56
		70	Qo	51381	46661	42270	38188	30873	24550	19057	14231	9909	5928	
			Pe	25,30	24,04	22,77	21,49	18,94	16,45	14,07	11,84	9,83	8,08	
Z25-106Y 	2	30	Qo	97622	88968	80855	73266	59583	47778	37707	29225	22190	16457	11883
			Pe	16,05	15,81	15,51	15,15	14,29	13,26	12,10	10,86	9,58	8,30	7,07
		40	Qo	83812	76231	69144	62532	50661	40475	31830	24583	18591	13709	9794
			Pe	19,00	18,48	17,91	17,29	15,96	14,52	13,01	11,48	9,97	8,51	7,16
		50	Qo	71204	64657	58554	52878	42737	34088	26789	20695	15664	11551	8214
			Pe	21,45	20,68	19,87	19,04	17,31	15,53	13,74	11,98	10,31	8,75	7,35

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.





To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R134a [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				12,5	10	7,5	5	0	-5	-10	-15	-20	-25	-30
Z25-106E <i>ECOinside</i>	3	20	Qo					70873	57495	46141	36549	28458	21606	15732
			Pe					10,10	9,84	9,48	9,00	8,37	7,57	6,56
		30	Qo					64336	51850	41308	32447	25005	18722	13334
			Pe					12,56	11,73	10,88	9,97	8,98	7,88	6,65
		40	Qo					56301	44912	35385	27458	20869	15357	10660
			Pe					14,56	13,25	11,98	10,72	9,45	8,14	6,76
50	Qo					47400	37311	29003	22213	16680	12143	8339		
	Pe					16,19	14,47	12,87	11,34	9,87	8,43	6,99		
Z35-106Y	1	50	Qo	75477	68770	62518	56700	46272	37306	29621	23039	17379	12460	8103
			Pe	18,43	17,83	17,18	16,50	15,02	13,45	11,84	10,24	8,70	7,27	6,01
		60	Qo	64877	59015	53559	48485	39399	31575	24835	18997	13882	9310	5101
			Pe	20,93	20,06	19,15	18,22	16,31	14,37	12,46	10,62	8,92	7,39	6,09
		70	Qo	54178	49167	44513	40193	32462	25796	20013	14934	10379	6168	
			Pe	23,10	21,97	20,82	19,67	17,36	15,09	12,92	10,88	9,05	7,45	
Z30-126Y 	2	30	Qo	115255	105213	95794	86975	71054	57277	45473	35469	27093	20172	14535
			Pe	17,31	17,16	16,94	16,65	15,87	14,87	13,69	12,38	10,99	9,57	8,14
		40	Qo	101354	92322	83866	75964	61739	49475	38999	30139	22723	16579	11535
			Pe	21,12	20,64	20,09	19,48	18,12	16,60	14,95	13,24	11,50	9,78	8,12
		50	Qo	87864	79835	72335	65345	52803	42039	32878	25150	18682	13302	8837
			Pe	24,40	23,59	22,74	21,85	19,95	17,95	15,89	13,81	11,76	9,79	7,95
Z30-126E <i>ECOinside</i>	3	20	Qo					85431	68684	54601	42863	33151	25146	18531
			Pe					12,35	11,96	11,34	10,55	9,62	8,60	7,54
		30	Qo					74905	59956	47438	37031	28417	21277	15293
			Pe					15,00	14,06	12,94	11,70	10,38	9,03	7,69
		40	Qo					64690	51506	40520	31411	23862	17554	12168
			Pe					17,17	15,72	14,15	12,51	10,86	9,22	7,66
50	Qo					54932	43481	33993	26150	19633	14123	9301		
	Pe					18,89	16,98	15,02	13,04	11,10	9,23	7,50		
Z40-126Y	1	50	Qo	89585	81551	74065	67100	54624	43901	34710	26830	20041	14122	8852
			Pe	22,81	22,10	21,34	20,51	18,71	16,77	14,74	12,69	10,67	8,75	6,99
		60	Qo	76694	69683	63160	57097	46242	36897	28841	21854	15714	10201	5094
			Pe	25,88	24,84	23,74	22,61	20,25	17,82	15,39	13,00	10,72	8,61	6,74
		70	Qo	63760	57776	52219	47062	37835	29875	22962	16874	11391	6291	
			Pe	28,50	27,12	25,72	24,30	21,42	18,55	15,74	13,06	10,56	8,30	
W40-142Y 	2	50	Qo	101545	92241	83527	75384	60730	48116	37379	28357	20887	14806	9953
			Pe	27,82	27,19	26,49	25,72	24,00	22,09	20,07	18,00	15,94	13,96	12,12
		60	Qo	86613	78420	70768	63638	50862	39929	30677	22943	16564	11377	7221
			Pe	31,14	30,15	29,09	27,98	25,65	23,21	20,73	18,27	15,90	13,68	11,69
		70	Qo	71910	64838	58260	52153	41277	32046	24300	17874	12608	8337	
			Pe	33,89	32,55	31,16	29,75	26,85	23,92	21,03	18,24	15,61	13,21	
Z40-154Y 	2	30	Qo	139527	127216	115688	104916	85532	68845	54634	42682	32769	24675	18182
			Pe	19,31	19,22	19,02	18,74	17,93	16,83	15,53	14,06	12,51	10,92	9,37
		40	Qo	122877	111831	101510	91885	74617	59807	47236	36686	27937	20770	14966
			Pe	24,39	23,84	23,21	22,50	20,91	19,13	17,22	15,23	13,24	11,31	9,48
		50	Qo	106046	96283	87184	78722	63602	50702	39804	30688	23136	16928	11846
			Pe	28,70	27,72	26,68	25,59	23,28	20,88	18,42	15,98	13,62	11,39	9,37
Z40-154E <i>ECOinside</i>	3	20	Qo					98035	79207	63217	49787	38638	29492	22070
			Pe					14,30	14,00	13,35	12,43	11,34	10,15	8,96
		30	Qo					87766	70603	56077	43908	33819	25530	18762
			Pe					17,71	16,70	15,41	13,94	12,36	10,78	9,26
		40	Qo					76968	61546	48559	37728	28774	21418	15382
			Pe					20,56	18,91	17,06	15,10	13,12	11,21	9,44
50	Qo					65835	52231	40860	31442	23700	17354	12125		
	Pe					22,80	20,58	18,24	15,86	13,54	11,37	9,42		
Z50-154Y 	1	50	Qo	108377	98551	89353	80759	65299	51988	40647	31095	23151	16634	11364
			Pe	28,51	27,59	26,60	25,55	23,31	20,94	18,48	16,02	13,60	11,30	9,18
		60	Qo	91619	83068	75089	67658	54351	42966	33322	25239	18537	13034	
			Pe	32,01	30,71	29,36	27,97	25,10	22,18	19,26	16,41	13,69	11,16	
		70	Qo	74981	67734	61000	54758	43657	34251	26359	19799			
			Pe	34,78	33,13	31,45	29,75	26,33	22,93	19,61	16,44			

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.










To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R134a [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				12,5	10	7,5	5	0	-5	-10	-15	-20	-25	-30
W40-168Y	2	30	Qo	154175	140760	128243	116585	95697	77789	62556	49691	38887	29840	22243
			Pe	21,56	21,54	21,39	21,09	20,17	18,85	17,26	15,47	13,58	11,70	9,91
		40	Qo	137734	125619	114326	103817	85000	68860	55093	43392	33451	24964	17624
			Pe	27,40	26,83	26,15	25,37	23,55	21,46	19,21	16,89	14,59	12,41	10,45
		50	Qo	121093	110285	100224	90872	74141	59786	47501	36980	27917	20005	12940
			Pe	32,44	31,36	30,20	28,96	26,33	23,55	20,73	17,95	15,31	12,92	10,86
W50-168Y 	1	50	Qo	117573	107089	97270	88091	71550	57257	45006	34590	25800	18431	12274
			Pe	30,07	29,26	28,37	27,41	25,28	22,96	20,50	17,97	15,42	12,92	10,53
		60	Qo	99853	90648	82046	74021	59599	47175	36542	27491	19817	13312	
			Pe	33,78	32,60	31,35	30,04	27,27	24,37	21,38	18,38	15,42	12,58	
		70	Qo	82255	74332	66948	60079	47781	37229	28216	20536			
			Pe	36,70	35,15	33,56	31,92	28,54	25,08	21,60	18,16			
W50-187Y 	2	30	Qo	172708	157507	143247	129895	105783	84904	66990	51775	38992	28376	19658
			Pe	23,76	23,96	24,02	23,95	23,44	22,50	21,20	19,61	17,81	15,86	13,84
		40	Qo	151891	138198	125376	113391	91800	73158	57200	43656	32262	22751	14855
			Pe	29,50	29,17	28,73	28,17	26,74	24,97	22,92	20,67	18,28	15,82	13,38
		50	Qo	131781	119586	108192	97563	78473	62049	48024	36132	26106	17680	10585
			Pe	34,46	33,64	32,72	31,70	29,43	26,88	24,15	21,28	18,37	15,47	12,66
W60-187Y 	1	50	Qo	131008	118924	107604	97017	77929	61426	47272	35234	25078	16568	9470
			Pe	33,65	32,64	31,53	30,33	27,73	24,88	21,87	18,75	15,61	12,50	9,50
		60	Qo	110716	100209	90389	81226	64757	50566	38419	28081	19319	11898	
			Pe	37,71	36,23	34,68	33,07	29,68	26,13	22,50	18,84	15,23	11,74	
		70	Qo	91435	82493	74162	66411	52537	40634	30470	21810			
			Pe	41,15	39,24	37,29	35,29	31,18	27,00	22,81	18,68			
W60-206Y 	2	30	Qo	190762	174146	158579	144024	117803	95187	75885	59602	46044	34919	25932
			Pe	26,17	26,07	25,82	25,45	24,37	22,89	21,11	19,13	17,02	14,87	12,77
		40	Qo	170121	154962	140787	127560	103801	83392	66039	51449	39327	29381	21316
			Pe	32,64	31,99	31,23	30,37	28,37	26,07	23,58	20,97	18,34	15,77	13,34
		50	Qo	149259	135582	122826	110953	89709	71559	56209	43364	32731	24017	16927
			Pe	38,24	37,09	35,84	34,51	31,66	28,61	25,46	22,30	19,20	16,26	13,58
W70-206Y 	1	50	Qo	147748	134204	121544	109735	88540	70358	54928	41989	31280	22539	15506
			Pe	38,07	36,98	35,78	34,49	31,68	28,65	25,49	22,30	19,17	16,21	13,51
		60	Qo	125142	113426	102508	92355	74214	58742	45677	34758	25725	18315	
			Pe	42,44	40,88	39,24	37,54	33,98	30,30	26,60	22,98	19,53	16,35	
		70	Qo	102877	93005	83844	75362	60305	47572	36902	28034			
			Pe	45,92	43,94	41,91	39,84	35,63	31,42	27,29	23,34			
W70-228Y 	2	30	Qo	208464	190058	172817	156701	127683	102678	81363	63414	48507	36318	26522
			Pe	28,01	28,07	27,97	27,70	26,76	25,34	23,56	21,51	19,29	17,02	14,78
		40	Qo	185643	168871	153192	138567	112315	89791	70672	54632	41348	30496	21752
			Pe	35,18	34,60	33,89	33,04	31,03	28,66	26,04	23,27	20,46	17,70	15,11
		50	Qo	162898	147780	133685	120572	97130	77129	60247	46159	34541	25070	17420
			Pe	41,43	40,25	38,96	37,58	34,57	31,33	27,95	24,55	21,22	18,07	15,19
W75-228Y 	1	50	Qo	159842	144893	130936	117936	94659	74772	57986	44011	32558	23336	16057
			Pe	40,16	38,99	37,71	36,33	33,31	30,06	26,68	23,29	19,99	16,91	14,14
		60	Qo	135580	122516	110360	99076	78981	61942	47668	35870	26259	18544	
			Pe	45,65	43,87	42,03	40,08	36,08	31,98	27,90	23,95	20,24	16,87	
		70	Qo	112093	100916	90563	81000	64093	49907	38151	28535			
			Pe	50,24	47,90	45,51	43,09	38,21	33,38	28,71	24,31			
W75-240Y 	2	30	Qo	223232	203865	185702	168702	138016	111461	88694	69371	53149	39683	28629
			Pe	30,56	30,47	30,22	29,83	28,63	26,96	24,91	22,57	20,03	17,38	14,69
		40	Qo	195689	178368	162156	147009	119741	96219	76099	59038	44691	32716	22767
			Pe	37,72	37,03	36,20	35,25	33,00	30,39	27,51	24,42	21,24	18,04	14,91
		50	Qo	169274	153969	139676	126353	102441	81891	64357	49497	36965	26419	17515
			Pe	43,83	42,58	41,22	39,75	36,57	33,11	29,48	25,75	22,02	18,37	14,89
W80-240Y 	1	50	Qo	167659	152092	137551	123999	99713	78934	61362	46697	34639	24889	17146
			Pe	44,81	43,66	42,38	41,00	37,96	34,66	31,22	27,73	24,33	21,12	18,21
		60	Qo	142149	128553	115896	104141	83182	65377	50427	38030	27889	19702	
			Pe	49,93	48,19	46,35	44,44	40,45	36,34	32,21	28,18	24,37	20,89	
		70	Qo	117438	105816	95045	85087	67459	52632	40307	30183			
			Pe	54,11	51,82	49,48	47,10	42,27	37,45	32,75	28,29			

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R404A - R507A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
				A05-4Y	1	30	Qo	4293	3577	2945	2391	1910	1495	1141
Pe	0,80	0,78	0,76				0,74	0,71	0,67	0,62	0,56	0,49	0,40	
40	Qo	3509	2912			2388	1930	1533	1190	896	645	432	250	
	Pe	0,95	0,92			0,88	0,83	0,78	0,72	0,64	0,56	0,46	0,35	
50	Qo	2784	2301			1878	1510	1191	914	675	467	285	122	
	Pe	1,10	1,05			0,98	0,92	0,84	0,75	0,66	0,55	0,42	0,28	
A05-5Y	2	30	Qo			3754	3026	2402	1872	1429	1065	773	544	369
			Pe			0,99	0,96	0,91	0,84	0,76	0,68	0,59	0,51	0,45
		40	Qo			3054	2443	1922	1484	1121	824	586	398	254
			Pe			1,14	1,07	0,98	0,88	0,78	0,68	0,58	0,50	0,43
		50	Qo			2396	1899	1481	1132	846	615	429	282	
			Pe			1,27	1,16	1,04	0,92	0,80	0,68	0,58	0,50	
A07-5Y	1	30	Qo	5648	4658	3794	3048	2410	1871	1424	1059	766	538	366
			Pe	0,97	0,99	0,98	0,95	0,90	0,84	0,76	0,68	0,60	0,52	0,45
		40	Qo	4663	3818	3086	2459	1927	1483	1116	818	581	395	251
			Pe	1,22	1,19	1,13	1,06	0,98	0,88	0,79	0,69	0,59	0,51	0,44
		50	Qo			2421	1911	1484	1131	843	611	427	281	
			Pe			1,26	1,15	1,04	0,92	0,80	0,69	0,59	0,51	
A07-6Y	2	30	Qo			4043	3285	2635	2081	1613	1222	895	622	393
			Pe			1,05	1,01	0,95	0,89	0,82	0,74	0,65	0,55	0,44
		40	Qo			3347	2702	2152	1685	1291	959	678	439	229
			Pe			1,22	1,15	1,06	0,97	0,87	0,76	0,64	0,51	0,37
		50	Qo			2700	2162	1705	1317	989	710	468	254	
			Pe			1,38	1,27	1,15	1,03	0,89	0,75	0,60	0,44	
A1-6Y	1	30	Qo	6217	5190	4277	3472	2770	2165	1652	1226	880	610	410
			Pe	1,08	1,10	1,09	1,05	1,00	0,92	0,84	0,75	0,66	0,57	0,49
		40	Qo	5156	4285	3514	2836	2247	1742	1313	957	668	439	267
			Pe	1,34	1,31	1,26	1,18	1,09	0,98	0,87	0,76	0,66	0,56	0,48
		50	Qo	4106	3392	2763	2213	1738	1331	988	702	469	283	
			Pe	1,57	1,49	1,40	1,28	1,16	1,03	0,90	0,77	0,65	0,55	
A1-7Y	2	30	Qo			5400	4429	3587	2862	2244	1721	1280	912	604
			Pe			1,52	1,44	1,35	1,25	1,14	1,01	0,89	0,75	0,61
		40	Qo			4488	3659	2943	2329	1804	1358	979	656	377
			Pe			1,73	1,61	1,48	1,33	1,18	1,02	0,86	0,69	0,52
		50	Qo			3611	2919	2324	1815	1379	1005	683	400	
			Pe			1,91	1,75	1,57	1,38	1,19	1,00	0,79	0,59	
A1.5-7Y	1	30	Qo	8113	6743	5540	4493	3591	2823	2177	1642	1208	862	
			Pe	1,48	1,45	1,40	1,33	1,25	1,15	1,05	0,94	0,83	0,72	
		40	Qo	6816	5638	4611	3723	2963	2320	1782	1339	980	693	
			Pe	1,77	1,69	1,59	1,48	1,36	1,23	1,10	0,97	0,84	0,73	
		50	Qo	5587	4592	3730	2991	2363	1836	1397	1036	742	504	
			Pe	2,01	1,89	1,75	1,60	1,45	1,29	1,14	0,99	0,85	0,73	
A1.5-8Y	1	30	Qo	8418	7014	5794	4742	3841	3075	2428	1884	1425	1037	702
			Pe	1,69	1,67	1,62	1,55	1,46	1,34	1,22	1,09	0,95	0,80	0,66
		40	Qo	7171	5937	4872	3960	3185	2529	1977	1512	1118	779	478
			Pe	2,02	1,95	1,84	1,72	1,58	1,43	1,28	1,11	0,95	0,79	0,63
		50	Qo	5957	4893	3982	3208	2556	2008	1549	1162	830	539	
			Pe	2,32	2,18	2,03	1,87	1,69	1,51	1,32	1,13	0,95	0,77	
B1.5-9.1Y	2	30	Qo	9835	8180	6734	5483	4412	3505	2747	2123	1618	1217	904
			Pe	2,08	2,02	1,93	1,83	1,70	1,57	1,43	1,29	1,15	1,02	0,91
		40	Qo	8401	6953	5697	4617	3699	2927	2286	1762	1338	1000	733
			Pe	2,53	2,39	2,24	2,07	1,89	1,71	1,54	1,37	1,21	1,07	0,95
		50	Qo	6908	5674	4614	3713	2955	2326	1810	1392	1057	790	
			Pe	2,90	2,70	2,48	2,26	2,04	1,82	1,61	1,42	1,25	1,10	
B1.5-10.1Y	2	30	Qo			7300	6022	4902	3928	3089	2373	1767	1261	842
			Pe			2,15	2,07	1,96	1,81	1,63	1,44	1,25	1,06	0,88
		40	Qo			6145	5049	4093	3265	2553	1946	1431	997	633
			Pe			2,46	2,31	2,13	1,93	1,71	1,49	1,27	1,07	0,88
		50	Qo			5048	4132	3338	2654	2068	1567	1142	779	
			Pe			2,75	2,53	2,30	2,05	1,80	1,55	1,32	1,11	
B2-10.1Y	1	30	Qo	10763	9009	7463	6111	4939	3933	3081	2367	1778	1301	
			Pe	2,31	2,29	2,23	2,13	2,01	1,86	1,70	1,52	1,35	1,19	
		40	Qo	9107	7601	6280	5131	4140	3292	2575	1974	1476	1066	
			Pe	2,76	2,66	2,53	2,37	2,19	1,99	1,79	1,59	1,41	1,23	
		50	Qo	7508	6248	5151	4202	3389	2698	2113	1623	1213		
			Pe	3,17	3,00	2,80	2,58	2,35	2,11	1,88	1,67	1,47		
D2-11.1Y	1	30	Qo	12862	10744	8884	7265	5868	4672	3659	2809	2104	1525	
			Pe	2,48	2,46	2,40	2,29	2,16	1,99	1,82	1,63	1,44	1,26	
		40	Qo	10864	9050	7465	6089	4904	3891	3029	2301	1686	1166	
			Pe	3,01	2,90	2,76	2,58	2,38	2,16	1,94	1,71	1,50	1,31	
		50	Qo	8845	7337	6027	4896	3924	3094	2386	1779	1257		
			Pe	3,47	3,28	3,06	2,81	2,55	2,29	2,03	1,78	1,55		

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.













To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R404A - R507A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]											
				5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45	
D2-13.1Y 	2	30	Qo			10326	8506	6919	5548	4378	3391	2571	1901	1366	
			Pe			2,87	2,74	2,57	2,38	2,16	1,93	1,70	1,46	1,24	
		40	Qo			8762	7192	5831	4661	3668	2833	2141	1574	1118	
			Pe			3,28	3,08	2,85	2,60	2,33	2,06	1,80	1,54	1,30	
		50	Qo			7255	5933	4795	3824	3005	2320	1753	1288		
			Pe			3,74	3,47	3,17	2,87	2,55	2,24	1,95	1,66		
D3-13.1Y 	1	30	Qo	15124	12636	10454	8552	6906	5491	4282	3255				
			Pe	2,88	2,86	2,79	2,68	2,52	2,33	2,12	1,90				
		40	Qo	12705	10598	8756	7152	5764	4564	3530	2636				
			Pe	3,51	3,38	3,21	3,00	2,76	2,51	2,25	1,98				
		50	Qo	10390	8660	7152	5843	4706	3718	2854	2088				
			Pe	4,11	3,88	3,61	3,33	3,02	2,72	2,42	2,12				
D2-15.1Y 	2	30	Qo			11535	9512	7747	6221	4915	3811	2889	2130	1517	
			Pe			3,38	3,22	3,02	2,79	2,54	2,27	1,99	1,70	1,41	
		40	Qo			9672	7961	6475	5196	4103	3179	2405	1761	1229	
			Pe			3,86	3,62	3,36	3,07	2,76	2,43	2,10	1,77	1,44	
		50	Qo			7945	6533	5313	4266	3373	2615	1974	1431		
			Pe			4,32	4,01	3,68	3,33	2,96	2,59	2,21	1,83		
D3-15.1Y 	1	30	Qo	17155	14417	12010	9911	8096	6543	5227	4124				
			Pe	3,44	3,52	3,49	3,37	3,18	2,95	2,68	2,40				
		40	Qo	14526	12191	10147	8369	6834	5519	4400	3454				
			Pe	4,34	4,24	4,06	3,81	3,52	3,20	2,86	2,54				
		50	Qo	11831	9911	8240	6795	5551	4486	3576	2798				
			Pe	5,10	4,85	4,54	4,18	3,80	3,41	3,03	2,68				
D3-16.1Y 	2	30	Qo			12721	10514	8577	6893	5441	4200	3152	2275	1551	
			Pe			3,70	3,48	3,24	2,97	2,68	2,37	2,05	1,73	1,40	
		40	Qo			10777	8867	7197	5748	4500	3433	2527	1763	1120	
			Pe			4,33	4,01	3,65	3,28	2,90	2,51	2,12	1,74	1,36	
		50	Qo			8876	7260	5854	4638	3592	2697	1932	1277		
			Pe			4,93	4,49	4,03	3,56	3,09	2,62	2,16	1,72		
D4-16.1Y 	1	30	Qo	18799	15745	13058	10713	8679	6931	5441	4180				
			Pe	3,83	3,79	3,68	3,52	3,30	3,04	2,76	2,45				
		40	Qo	16131	13488	11169	9147	7394	5882	4584	3471				
			Pe	4,66	4,49	4,26	3,99	3,67	3,33	2,97	2,60				
		50	Qo	13396	11181	9246	7563	6106	4846	3756	2808				
			Pe	5,42	5,12	4,78	4,40	3,99	3,57	3,13	2,70				
D3-18.1Y 	2	30	Qo			13895	11541	9481	7693	6155	4847	3747	2832	2083	
			Pe			4,15	3,97	3,73	3,45	3,13	2,80	2,47	2,14	1,83	
		40	Qo			11790	9764	8000	6475	5168	4057	3121	2339	1689	
			Pe			4,86	4,52	4,15	3,75	3,34	2,94	2,54	2,17	1,85	
		50	Qo			9739	8040	6569	5305	4226	3311	2538	1887		
			Pe			5,50	5,02	4,53	4,03	3,53	3,06	2,62	2,22		
D4-18.1Y 	1	30	Qo	19831	16745	14012	11608	9508	7689	6125	4791				
			Pe	4,32	4,21	4,04	3,83	3,59	3,32	3,04	2,77				
		40	Qo	16916	14272	11937	9889	8102	6553	5216	4068				
			Pe	5,16	4,93	4,66	4,35	4,01	3,67	3,32	2,99				
		50	Qo	13909	11731	9820	8153	6705	5452	4368	3431				
			Pe	5,98	5,64	5,26	4,85	4,44	4,02	3,61	3,23				
D3-19.1Y 	2	30	Qo					10017	8173	6587	5237	4099	3150	2368	
			Pe					4,05	3,76	3,42	3,07	2,71	2,36	2,03	
		40	Qo					8508	6938	5590	4443	3472	2656	1972	
			Pe					4,56	4,14	3,70	3,27	2,85	2,45	2,09	
		50	Qo					6987	5695	4590	3651	2854	2176		
			Pe					4,98	4,45	3,93	3,43	2,95	2,52		
D4-19.1Y 	1	30	Qo			14880	12243	9975	8041	6409	5044	3912	2981	2215	
			Pe			4,29	4,11	3,88	3,62	3,33	3,04	2,75	2,48	2,24	
		40	Qo			12578	10347	8435	6806	5429	4268	3290	2462	1750	
			Pe			4,95	4,66	4,34	3,98	3,61	3,24	2,88	2,54	2,23	
		50	Qo			10357	8519	6948	5611	4474	3503	2666	1927		
			Pe			5,68	5,28	4,84	4,38	3,91	3,44	2,99	2,57		
Q4-20.1Y 	2	30	Qo			14773	12190	9934	7981	6308	4893	3712	2743	1963	
			Pe			3,94	3,71	3,44	3,16	2,85	2,54	2,22	1,92	1,63	
		40	Qo			12745	10452	8458	6741	5277	4044	3019	2179	1500	
			Pe			4,61	4,25	3,86	3,46	3,06	2,67	2,29	1,93	1,60	
		50	Qo			10651	8661	6943	5474	4232	3195	2337	1638		
			Pe			5,19	4,70	4,20	3,70	3,21	2,74	2,30	1,89		
Q4-21.1Y 	2	30	Qo			16354	13354	10755	8528	6640	5061	3759	2704	1864	
			Pe			4,10	3,91	3,66	3,36	3,03	2,67	2,32	1,97	1,66	
		40	Qo			13856	11228	8965	7038	5414	4062	2952	2051	1329	
			Pe			4,84	4,47	4,07	3,64	3,20	2,76	2,35	1,96	1,63	
		50	Qo			11230	8996	7092	5485	4146	3043	2145	1420		
			Pe			5,34	4,83	4,30	3,76	3,24	2,74	2,29	1,89		

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.











To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R404A - R507A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]											
				5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45	
Q5-21.1Y 	1	30	Qo	23567	19812	16466	13502	10895	8618	6644	4948				
			Pe	4,16	4,18	4,11	3,95	3,71	3,40	3,04	2,61				
		40	Qo	19832	16633	13785	11262	9038	7086	5381	3895				
			Pe	5,07	4,95	4,75	4,46	4,10	3,67	3,19	2,66				
		50	Qo	16070	13429	11081	9001	7162	5538	4103	2830				
			Pe	5,82	5,57	5,24	4,83	4,35	3,81	3,21	2,57				
Q4-24.1Y 	2	30	Qo			18258	15039	12223	9781	7683	5900	4402	3159	2143	
			Pe			4,81	4,52	4,19	3,83	3,45	3,05	2,65	2,25	1,87	
		40	Qo			15275	12534	10143	8074	6297	4782	3500	2421	1516	
			Pe			5,61	5,16	4,69	4,21	3,72	3,23	2,74	2,28	1,85	
		50	Qo			12383	10108	8130	6422	4953	3695	2617	1690		
			Pe			6,28	5,69	5,09	4,49	3,90	3,33	2,78	2,26		
Q5-24.1Y 	1	30	Qo	27077	22624	18707	15286	12324	9781	7621	5804				
			Pe	5,03	4,94	4,77	4,53	4,23	3,88	3,50	3,09				
		40	Qo	22873	19060	15716	12801	10279	8109	6254	4676				
			Pe	6,11	5,85	5,52	5,13	4,70	4,24	3,75	3,26				
		50	Qo	18574	15425	12677	10292	8233	6459	4934	3618				
			Pe	7,10	6,67	6,19	5,66	5,10	4,53	3,94	3,36				
Q4-25.1Y 	2	30	Qo			18778	15437	12512	9973	7794	5944	4396	3121	2090	
			Pe			4,89	4,59	4,24	3,85	3,44	3,01	2,58	2,15	1,74	
		40	Qo			15813	12913	10388	8207	6343	4767	3450	2364	1481	
			Pe			5,70	5,22	4,71	4,18	3,64	3,11	2,58	2,08	1,62	
		50	Qo			12924	10468	8343	6521	4974	3673	2589	1694		
			Pe			6,40	5,75	5,09	4,42	3,77	3,14	2,54	1,98		
Q5-25.1Y 	1	30	Qo	27872	23293	19273	15771	12747	10159	7968	6134	4615	3370		
			Pe	5,17	5,09	4,94	4,72	4,44	4,10	3,73	3,32	2,88	2,44		
		40	Qo	23541	19641	16228	13262	10702	8507	6637	5051	3709	2571		
			Pe	6,34	6,08	5,76	5,38	4,95	4,48	3,98	3,46	2,93	2,40		
		50	Qo	19188	15968	13164	10735	8639	6838	5290	3954				
			Pe	7,37	6,93	6,44	5,90	5,33	4,73	4,12	3,49				
Q7-25.1Y 	1	30	Qo	28897	23966	19659	15930	12738	10037	7783	5933	4443	3269		
			Pe	5,33	5,24	5,06	4,80	4,48	4,12	3,74	3,35	2,96	2,61		
		40	Qo	24066	19892	16270	13157	10508	8280	6429	4910	3681	2696		
			Pe	6,43	6,14	5,78	5,37	4,92	4,46	3,99	3,54	3,12	2,74		
		50	Qo	19537	16097	13139	10618	8490	6712	5240	4030				
			Pe	7,37	6,91	6,40	5,86	5,30	4,76	4,23	3,74				
Q5-28.1Y 	2	30	Qo			21828	18036	14716	11833	9353	7241	5464	3987	2776	
			Pe			5,90	5,55	5,16	4,73	4,28	3,80	3,30	2,79	2,28	
		40	Qo			18419	15164	12325	9866	7755	5956	4435	3158	2092	
			Pe			6,79	6,28	5,75	5,18	4,60	4,01	3,41	2,81	2,23	
		50	Qo			15037	12320	9962	7928	6185	4699	3435	2358		
			Pe			7,54	6,88	6,21	5,51	4,82	4,12	3,43	2,75		
Q7-28.1Y 	1	30	Qo	31964	26815	22280	18314	14870	11906	9374	7231				
			Pe	6,34	6,15	5,90	5,61	5,26	4,87	4,44	3,98				
		40	Qo	27134	22726	18856	15479	12550	10024	7855	6000				
			Pe	7,51	7,15	6,74	6,29	5,81	5,29	4,75	4,18				
		50	Qo	22283	18615	15409	12621	10205	8117	6310	4741				
			Pe	8,60	8,07	7,50	6,91	6,29	5,65	4,99	4,32				
Q5-33.1Y 	2	30	Qo			25201	20904	17148	13892	11091	8703	6685	4994	3588	
			Pe			6,90	6,58	6,15	5,65	5,09	4,51	3,93	3,37	2,87	
		40	Qo			21309	17614	14401	11628	9251	7227	5514	4068	2847	
			Pe			8,22	7,61	6,93	6,22	5,49	4,76	4,07	3,44	2,90	
		50	Qo					11799	9500	7537	5868	4450	3240		
			Pe					7,63	6,72	5,83	4,98	4,20	3,51		
Q7-33.1Y 	1	30	Qo	36974	30974	25708	21122	17162	13774	10905	8500				
			Pe	7,48	7,29	6,99	6,59	6,12	5,61	5,08	4,57				
		40	Qo	31368	26248	21766	17867	14497	11603	9130	7025				
			Pe	8,84	8,42	7,91	7,33	6,69	6,04	5,40	4,79				
		50	Qo	25698	21468	17778	14574	11804	9412	7344	5548				
			Pe	10,07	9,44	8,74	7,99	7,21	6,44	5,69	5,01				
S5-33Y	2	30	Qo			25844	21322	17467	14197	11429	9081	7071	5317	3737	
			Pe			6,30	6,15	5,89	5,54	5,11	4,63	4,11	3,57	3,03	
		40	Qo			22272	18313	14954	12113	9708	7657	5878	4289	2807	
			Pe			7,68	7,34	6,90	6,36	5,76	5,11	4,43	3,73	3,04	
		50	Qo					15270	12393	9968	7913	6145	4583	3145	
			Pe					8,48	7,83	7,10	6,31	5,47	4,60	3,72	
S7-33Y	1	30	Qo	36857	30862	25662	21178	17327	14029	11201	8763	6633	4730		
			Pe	6,82	6,80	6,64	6,35	5,95	5,48	4,95	4,39	3,82	3,27		
		40	Qo	31575	26422	21963	18114	14796	11926	9424	7207	5195	3307		
			Pe	8,60	8,31	7,89	7,37	6,77	6,11	5,43	4,73	4,05	3,42		
		50	Qo	26225	21915	18194	14981	12194	9752	7574	5578				
			Pe	10,20	9,64	8,97	8,23	7,43	6,60	5,76	4,94				

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.







To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R404A - R507A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
Q7-36.1Y 	1	30	Qo			29191	24167	19770	15951	12666	9868	7511	5549	3936
			Pe			7,88	7,42	6,9	6,33	5,72	5,09	4,45	3,82	3,20
		40	Qo			24673	20325	16534	13256	10442	8048	6028	4334	2921
			Pe			9,10	8,40	7,65	6,88	6,10	5,31	4,54	3,79	3,08
		50	Qo			20173	16505	13328	10594	8258	6273	4594	3173	
			Pe			10,11	9,18	8,23	7,27	6,33	5,40	4,51	3,66	
S8-42Y 	2	30	Qo			33430	27691	22663	18287	14504	11257	8487	6137	4147
			Pe			8,67	8,15	7,56	6,91	6,22	5,49	4,74	3,97	3,21
		40	Qo			28341	23401	19083	15328	12078	9276	6862	4778	2967
			Pe			9,93	9,17	8,35	7,50	6,62	5,73	4,83	3,94	3,07
		50	Qo			22954	18862	15302	12218	9550	7240	5230	3463	
			Pe			10,91	9,92	8,91	7,88	6,84	5,80	4,78	3,78	
S12-42Y 	1	30	Qo	45911	38508	31958	26205	21195	16872	13181	10068			
			Pe	8,63	8,37	7,98	7,50	6,94	6,31	5,64	4,95			
		40	Qo	39041	32568	26869	21889	17573	13866	10713	8059			
			Pe	10,32	9,75	9,09	8,36	7,57	6,74	5,90	5,06			
		50	Qo	32203	26668	21829	17629	14016	10933	8325	6138			
			Pe	11,76	10,90	9,98	9,02	8,02	7,01	6,01	5,04			
S10-52Y	2	30	Qo			39744	32862	26979	21974	17724	14105	10995	8270	5809
			Pe			10,59	10,06	9,37	8,56	7,68	6,76	5,85	4,99	4,22
		40	Qo			34176	28191	23096	18767	15081	11915	9146	6651	4308
			Pe			12,48	11,61	10,62	9,54	8,42	7,30	6,22	5,23	4,35
		50	Qo			28585	23477	19147	15471	12327	9591	7142	4855	
			Pe			14,16	12,97	11,69	10,36	9,01	7,70	6,46	5,34	
S15-52Y	1	30	Qo	58615	49134	40907	33806	27703	22470	17979	14102			
			Pe	10,59	10,48	10,17	9,67	9,04	8,31	7,51	6,69			
		40	Qo	50269	42130	35080	28990	23731	19177	15200	11671			
			Pe	13,15	12,62	11,93	11,10	10,18	9,20	8,19	7,20			
		50	Qo	41797	35001	29128	24050	19638	15764	12301	9121			
			Pe	15,44	14,51	13,46	12,32	11,12	9,90	8,71	7,57			
S15-56Y	2	30	Qo			44655	36854	30178	24491	19660	15549	12024	8950	6192
			Pe			11,46	10,88	10,15	9,29	8,35	7,38	6,41	5,48	4,65
		40	Qo			38401	31601	25801	20867	16665	13059	9914	7097	4472
			Pe			13,35	12,43	11,37	10,23	9,04	7,85	6,70	5,63	4,69
		50	Qo			32058	26245	21309	17114	13527	10412	7635	5061	
			Pe			15,03	13,76	12,40	10,98	9,55	8,15	6,83	5,63	
S20-56Y	1	30	Qo	64238	53901	44920	37160	30483	24753	19832	15584			
			Pe	12,21	11,97	11,50	10,86	10,07	9,19	8,26	7,32			
		40	Qo	55173	46291	38587	31922	26161	21166	16801	12928			
			Pe	14,84	14,14	13,27	12,27	11,18	10,05	8,93	7,85			
		50	Qo	45928	38509	32087	26525	21687	17435	13632	10142			
			Pe	17,12	15,99	14,74	13,42	12,07	10,72	9,44	8,24			
V15-59Y	2	30	Qo			45831	37860	31040	25231	20293	16089	12478	9322	6482
			Pe			12,54	11,85	10,99	10,00	8,93	7,83	6,74	5,72	4,81
		40	Qo			39416	32480	26565	21532	17241	13554	10332	7435	4725
			Pe			14,55	13,47	12,25	10,95	9,61	8,27	6,99	5,82	4,80
		50	Qo			32917	26999	21972	17697	14036	10849	7997	5342	
			Pe			16,29	14,83	13,28	11,67	10,07	8,51	7,06	5,74	
V20-59Y 	1	30	Qo	67598	56526	46781	38270	30897	24569	19190	14667	10904	7807	
			Pe	12,17	12,00	11,63	11,08	10,39	9,58	8,68	7,74	6,77	5,81	
		40	Qo	57529	47884	39434	32083	25736	20300	15680	11781	8509	5769	
			Pe	14,89	14,27	13,48	12,55	11,51	10,39	9,23	8,06	6,90	5,79	
		50	Qo	47184	39011	31899	25752	20476	15977	12159	8929			
			Pe	17,16	16,11	14,93	13,64	12,29	10,90	9,49	8,12			
V15-71Y	2	30	Qo			54745	45194	37045	30119	24241	19231	14913	11109	7642
			Pe			14,83	14,10	13,14	12,00	10,74	9,43	8,13	6,89	5,77
		40	Qo			46892	38600	31552	25571	20480	16100	12255	8767	5459
			Pe			17,42	16,22	14,82	13,29	11,68	10,06	8,48	7,01	5,71
		50	Qo					26046	20980	16646	12867	9466	6264	
			Pe					16,18	14,27	12,32	10,39	8,55	6,86	
V25-71Y 	1	30	Qo	81879	68373	56522	46204	37297	29680	23229	17822	13339	9656	
			Pe	15,78	15,34	14,68	13,83	12,84	11,73	10,54	9,31	8,08	6,87	
		40	Qo	69095	57486	47345	38552	30983	24517	19031	14405	10514	7238	
			Pe	18,55	17,65	16,58	15,35	14,01	12,60	11,15	9,70	8,28	6,92	
		50	Qo	56514	46784	38338	31053	24806	19475	14939	11076			
			Pe	20,85	19,53	18,07	16,50	14,85	13,17	11,48	9,83			
V20-84Y 	2	30	Qo			65085	53815	43922	35312	27891	21565	16241	11823	8219
			Pe			17,65	16,55	15,30	13,95	12,52	11,04	9,55	8,08	6,65
		40	Qo			54821	45222	36833	29560	23310	17988	13501	9755	6655
			Pe			20,36	18,71	16,98	15,19	13,38	11,59	9,84	8,16	6,59
		50	Qo			43855	36042	29273	23454	18490	14288	10754	7794	
			Pe			22,36	20,24	18,10	15,96	13,86	11,83	9,90	8,10	

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.







To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R404A - R507A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
V30-84Y 	1	30	Qo	97012	81353	67543	55454	44960	35934	28248	21777	16394	11971	
			Pe	18,42	18,09	17,45	16,54	15,42	14,12	12,71	11,24	9,74	8,28	
		40	Qo	82435	68860	56942	46556	37575	29872	23320	17793	13163	9303	
			Pe	21,62	20,75	19,60	18,25	16,73	15,09	13,39	11,67	9,99	8,39	
		50	Qo	67966	56493	46488	37825	30377	24017	18617	14053			
			Pe	24,77	23,35	21,72	19,92	18,02	16,05	14,06	12,12			
V25-93Y 	2	30	Qo			72170	59569	48522	38914	30631	23558	17580	12584	8454
			Pe			19,79	18,46	16,99	15,40	13,73	12,00	10,26	8,52	6,81
		40	Qo			60385	49539	40070	31864	24807	18783	13680	9381	5773
			Pe			22,08	20,25	18,32	16,32	14,27	12,21	10,17	8,19	6,28
		50	Qo				39869	31966	25150	19306	14321	10079	6466	
			Pe				21,59	19,24	16,86	14,47	12,12	9,83	7,62	
V32-93Y 	1	30	Qo	107618	89777	74043	60276	48335	38082	29375	22075	16041	11133	
			Pe	20,68	20,15	19,29	18,16	16,81	15,29	13,66	11,96	10,26	8,60	
		40	Qo	90864	75419	61867	50068	39881	31167	23786	17597	12460	8236	
			Pe	24,26	23,02	21,52	19,81	17,95	15,99	13,98	11,97	10,02	8,18	
		50	Qo	74481	61445	50087	40268	31848	24686	18643	13578			
			Pe	27,22	25,33	23,25	21,03	18,71	16,37	14,04	11,78			
V25-103Y	2	30	Qo			78654	65632	53989	43660	34582	26689	19920	14208	9491
			Pe			22,89	21,60	19,97	18,12	16,14	14,11	12,15	10,35	8,81
		40	Qo			68233	56438	45967	36757	28742	21861	16047	11238	7369
			Pe			26,46	24,51	22,30	19,93	17,50	15,11	12,84	10,81	9,10
		50	Qo				46620	37433	29452	22613	16853	12107	8311	
			Pe				26,98	24,23	21,40	18,57	15,84	13,32	11,10	
V35-103Y	1	30	Qo	113342	95275	79413	65572	53568	43218	34337	26741	20246	14669	
			Pe	23,91	23,29	22,22	20,81	19,13	17,30	15,39	13,49	11,71	10,14	
		40	Qo	95848	80540	67121	55406	45211	36353	28646	21908	15955	10602	
			Pe	29,44	27,82	25,88	23,71	21,40	19,06	16,76	14,60	12,68	11,08	
		50	Qo	79234	66544	55425	45693	37165	29656	22982	16960			
			Pe	34,32	31,76	29,01	26,14	23,27	20,47	17,85	15,49			
Z25-106Y 	2	30	Qo			85968	70732	57390	45815	35877	27449	20401	14607	9936
			Pe			21,98	20,98	19,64	18,03	16,23	14,31	12,35	10,42	8,59
		40	Qo			72721	59543	48062	38147	29672	22507	16525	11597	7594
			Pe			25,82	23,99	21,92	19,68	17,35	15,01	12,72	10,56	8,60
		50	Qo			59331	48274	38714	30522	23571	17732	12876	8875	
			Pe			29,02	26,44	23,72	20,94	18,16	15,47	12,93	10,62	
Z35-106Y	1	30	Qo	124926	104388	86345	70624	57057	45471	35697	27565	20902	15539	
			Pe	21,37	21,10	20,42	19,41	18,12	16,64	15,01	13,30	11,58	9,91	
		40	Qo	105423	87772	72352	58994	47526	37778	29579	22760	17148	12574	
			Pe	26,15	25,05	23,63	21,95	20,08	18,08	16,02	13,96	11,97	10,11	
		50	Qo	86184	71433	58651	47668	38314	30417	23808	18315			
			Pe	30,46	28,57	26,44	24,13	21,71	19,25	16,79	14,42			
Z30-126Y 	2	30	Qo			99297	81793	66481	53206	41816	32156	24074	17415	12026
			Pe			24,72	23,44	21,86	20,03	18,03	15,91	13,74	11,59	9,51
		40	Qo			83350	68385	55354	44102	34477	26323	19489	13820	9163
			Pe			28,63	26,54	24,24	21,79	19,26	16,70	14,18	11,76	9,51
		50	Qo			67440	55041	44317	35115	27280	20660	15100	10447	
			Pe			31,94	29,13	26,19	23,19	20,20	17,28	14,48	11,88	
Z40-126Y 	1	30	Qo	145126	121334	100364	82032	66153	52543	41017	31390	23477	17094	
			Pe	25,88	25,50	24,66	23,43	21,89	20,11	18,18	16,16	14,14	12,19	
		40	Qo	123218	102617	84557	68853	55319	43771	34026	25897	19200	13750	
			Pe	31,31	29,90	28,13	26,08	23,82	21,43	18,98	16,56	14,23	12,08	
		50	Qo	100631	83359	68345	55404	44352	35003	27174	20680			
			Pe	35,70	33,36	30,77	28,00	25,12	22,22	19,36	16,63			
W40-142Y	2	30	Qo		146740	121924	100318	81599	65447	51539	39553			
			Pe		29,44	28,99	27,96	26,44	24,54	22,34	19,95			
		40	Qo		126830	104956	85998	69634	55543	43402	32891			
			Pe		35,93	34,30	32,21	29,76	27,03	24,13	21,16			
		50	Qo			86292	70382	56772	45142	35168	26530			
			Pe			38,57	35,54	32,27	28,85	25,38	21,95			
Z40-154Y	2	30	Qo			120493	99607	81793	66655	53799	42826	33342	24950	17254
			Pe			31,36	29,90	27,95	25,62	23,03	20,31	17,57	14,93	12,52
		40	Qo			103000	85017	69718	56707	45588	35965	27441	19621	12108
			Pe			37,07	34,59	31,71	28,55	25,23	21,86	18,57	15,47	12,70
		50	Qo				70438	57532	46526	37022	28626	20941		
			Pe				38,67	34,89	30,91	26,87	22,87	19,04		

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.











To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R404A - R507A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]											
				5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45	
Z50-154Y 	1	30	Qo	174579	146356	121442	99609	80630	64275	50316	38525	28674	20535		
			Pe	33,81	32,74	31,20	29,27	27,02	24,53	21,86	19,10	16,31	13,56		
		40	Qo	148915	124386	102824	84002	67691	53664	41691	31545	22997	15819		
			Pe	40,26	38,07	35,51	32,66	29,58	26,35	23,05	19,74	16,50	13,40		
		50	Qo	122548	101845	83769	68090	54582	43015	33161	24792				
			Pe	45,61	42,40	38,91	35,22	31,40	27,52	23,66	19,89				
W40-168Y	2	30	Qo				110488	89506	71187	55404	42028	30932	21988		
			Pe				31,39	29,16	26,72	24,09	21,27	18,26	15,07		
		40	Qo				93106	74989	59181	45552	33977	24327	16474		
			Pe				35,38	32,26	28,97	25,52	21,92	18,15	14,24		
		50	Qo					60541	47331	35946	26259	18143			
			Pe					34,65	30,50	26,22	21,81	17,28			
W50-168Y 	1	30	Qo	197603	165215	136778	112000	90593	72266	56729	43692				
			Pe	33,80	33,50	32,55	31,06	29,12	26,83	24,30	21,63				
		40	Qo	168617	140687	116238	94980	76624	60879	47455	36063				
			Pe	41,70	40,05	37,88	35,29	32,39	29,28	26,05	22,80				
		50	Qo	138101	114875	94662	77171	62113	49197	38134	28633				
			Pe	48,26	45,37	42,10	38,55	34,81	30,98	27,17	23,48				
W50-187Y 	2	30	Qo		149041	122022	98508	78232	60923	46312	34130	24108	15975		
			Pe		36,86	34,44	31,83	29,03	26,08	22,98	19,75	16,41	12,99		
		40	Qo		125232	102014	81884	64574	49813	37333	26864	18136			
			Pe		41,84	38,45	34,92	31,25	27,46	23,58	19,62	15,60			
		50	Qo		102048	82551	65725	51299	39006	28575	19738				
			Pe		46,03	41,67	37,20	32,65	28,03	23,35	18,65				
W60-187Y 	1	30	Qo	217230	180960	149290	121880	98365	78405	61645	47733				
			Pe	39,24	38,37	36,85	34,80	32,34	29,57	26,61	23,58				
		40	Qo	184200	153140	126130	102810	82831	65836	51475	39398				
			Pe	47,46	45,07	42,20	38,94	35,43	31,76	28,06	24,44				
		50	Qo	150320	124620	102400	83297	66971	53068	41234	31120				
			Pe	54,23	50,46	46,36	42,03	37,59	33,16	28,84	24,75				
W60-206Y 	2	30	Qo		165282	136066	110478	88268	69187	52986	39415	28226	19170		
			Pe		41,17	38,79	36,06	33,04	29,77	26,32	22,73	19,05	15,34		
		40	Qo		140019	114679	92593	73510	57182	43359	31792	22232			
			Pe		47,09	43,49	39,66	35,64	31,48	27,24	22,97	18,72			
		50	Qo		114725	93351	74855	58988	45501	34145					
			Pe		51,96	47,25	42,40	37,48	32,54	27,61					
W70-206Y 	1	30	Qo	236553	198055	164244	134768	109272	87404	68812	53142				
			Pe	42,40	41,61	40,10	37,99	35,40	32,43	29,19	25,80				
		40	Qo	201959	168599	139386	113969	91994	73108	56958	43192				
			Pe	51,02	48,73	45,86	42,52	38,83	34,89	30,81	26,72				
		50	Qo	167009	138897	114394	93147	74804	59011	45415	33664				
			Pe	58,39	54,71	50,58	46,11	41,41	36,60	31,79	27,08				
W70-228Y 	2	30	Qo		178117	146921	119621	95947	75624	58381	43943	32039	22396		
			Pe		44,86	42,20	39,20	35,91	32,38	28,66	24,79	20,82	16,80		
		40	Qo		151627	124421	100729	80278	62795	48007	35642	25427			
			Pe		51,07	47,21	43,09	38,77	34,29	29,71	25,06	20,41			
		50	Qo		125475	102297	82249	65058	50451	38157					
			Pe		56,53	51,50	46,31	41,00	35,62	30,22					
W75-228Y 	1	30	Qo	256359	214290	177319	145065	117149	93188	72802	55609				
			Pe	48,66	47,27	45,15	42,42	39,19	35,57	31,69	27,65				
		40	Qo	217997	181780	150041	122400	98476	77887	60252	45192				
			Pe	57,75	54,74	51,16	47,10	42,70	38,05	33,28	28,51				
		50	Qo	178406	148286	122023	99239	79551	62579	47941	35257				
			Pe	65,17	60,71	55,80	50,57	45,14	39,61	34,11	28,75				
W75-240Y 	2	30	Qo		188831	154944	125511	100209	78720	60721	45892	33912	24460		
			Pe		46,77	44,19	41,10	37,61	33,86	29,95	26,02	22,19	18,56		
		40	Qo		160044	130583	105157	83446	65129	49885	37393	27332			
			Pe		53,83	49,69	45,21	40,53	35,76	31,03	26,45	22,15			
		50	Qo		132000	106959	85536	67411	52261	39767					
			Pe		59,70	54,14	48,43	42,70	37,07	31,65					
W80-240Y 	1	30	Qo	265713	222270	184136	150917	122218	97646	76806	59305				
			Pe	50,95	49,45	47,21	44,36	41,01	37,30	33,36	29,31				
		40	Qo	226857	189061	155992	127254	102454	81197	63089	47736				
			Pe	60,70	57,45	53,62	49,33	44,70	39,87	34,96	30,09				
		50	Qo	187191	155213	127379	103292	82560	64788	49582	36547				
			Pe	68,93	64,04	58,72	53,09	47,28	41,42	35,64	30,06				

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R448A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]									
				5	0	-5	-10	-15	-20	-25	-30	-35	-40
A05-4Y	1	30	Qo	4126	3377	2730	2179	1712	1322	999	734	517	340
			Pe	0,71	0,7	0,69	0,66	0,64	0,6	0,55	0,5	0,45	0,38
		40	Qo	3456	2821	2277	1815	1426	1100	829	603	414	252
			Pe	0,86	0,84	0,8	0,76	0,71	0,66	0,59	0,52	0,45	0,37
		50	Qo	2829	2303	1856	1478	1160	894	669	477	309	156
			Pe	1,01	0,96	0,91	0,84	0,78	0,7	0,62	0,53	0,44	0,34
A05-5Y	2	30	Qo		4359	3479	2745	2141	1649	1254	938	685	478
			Pe		0,9	0,89	0,86	0,81	0,74	0,67	0,6	0,54	0,49
		40	Qo		3668	2907	2280	1770	1361	1036	778	570	396
			Pe		1,09	1,04	0,98	0,89	0,81	0,72	0,64	0,57	0,53
		50	Qo		3060	2406	1874	1447	1108	841	629	455	302
			Pe		1,25	1,16	1,07	0,96	0,85	0,75	0,67	0,6	0,56
A07-5Y	1	30	Qo	5450	4404	3515	2769	2150	1646	1242	924	678	491
			Pe	0,85	0,86	0,86	0,83	0,8	0,75	0,69	0,62	0,56	0,49
		40	Qo	4588	3694	2940	2312	1795	1376	1040	774	563	394
			Pe	1,09	1,07	1,03	0,98	0,92	0,84	0,76	0,68	0,59	0,51
		50	Qo	3772	3024	2398	1881	1459	1118	844	622	440	282
			Pe	1,32	1,26	1,18	1,09	0,99	0,88	0,77	0,66	0,55	0,45
A07-6Y	2	30	Qo		4667	3743	2976	2346	1833	1416	1076	792	545
			Pe		0,98	0,94	0,9	0,85	0,79	0,73	0,66	0,59	0,53
		40	Qo		3993	3187	2524	1984	1548	1195	906	660	436
			Pe		1,18	1,12	1,05	0,97	0,89	0,8	0,71	0,62	0,53
		50	Qo		3421	2713	2136	1669	1291	984	726	498	280
			Pe		1,35	1,26	1,17	1,06	0,96	0,85	0,74	0,63	0,52
A1-6Y	1	30	Qo	5975	4901	3968	3166	2485	1915	1446	1069	772	546
			Pe	0,97	0,99	0,98	0,95	0,89	0,82	0,74	0,67	0,6	0,55
		40	Qo	5078	4151	3351	2667	2089	1607	1212	893	639	442
			Pe	1,22	1,19	1,14	1,07	0,99	0,89	0,8	0,71	0,64	0,59
		50	Qo	4172	3394	2728	2163	1690	1298	978	718	510	343
			Pe	1,43	1,37	1,28	1,18	1,06	0,95	0,85	0,75	0,68	0,64
A1-7Y	2	30	Qo		6175	4997	4012	3195	2522	1971	1517	1136	807
			Pe		1,42	1,36	1,29	1,2	1,11	1,01	0,91	0,81	0,71
		40	Qo		5302	4272	3418	2716	2141	1671	1282	951	653
			Pe		1,67	1,58	1,47	1,35	1,22	1,09	0,96	0,84	0,72
		50	Qo		4529	3627	2884	2276	1780	1372	1028	725	439
			Pe		1,88	1,75	1,6	1,45	1,29	1,13	0,97	0,82	0,68
A1.5-7Y	1	30	Qo	7797	6370	5143	4098	3221	2495	1903	1430	1058	772
			Pe	1,32	1,31	1,27	1,2	1,12	1,02	0,93	0,84	0,75	0,69
		40	Qo	6719	5469	4401	3501	2752	2137	1641	1247	938	699
			Pe	1,6	1,54	1,45	1,35	1,23	1,12	1,01	0,91	0,82	0,77
		50	Qo	5677	4597	3685	2923	2296	1787	1381	1060	809	612
			Pe	1,84	1,73	1,6	1,47	1,33	1,19	1,07	0,97	0,89	0,84
A1.5-8Y	1	30	Qo		6624	5376	4323	3444	2717	2123	1640	1248	927
			Pe		1,5	1,46	1,39	1,3	1,2	1,08	0,97	0,86	0,77
		40	Qo		5765	4657	3729	2960	2331	1819	1405	1067	786
			Pe		1,77	1,68	1,57	1,44	1,31	1,17	1,04	0,93	0,83
		50	Qo		4906	3941	3141	2487	1957	1531	1189	909	671
			Pe		2	1,87	1,72	1,56	1,4	1,25	1,11	0,99	0,89
B1.5-9.1Y	2	30	Qo	9451	7731	6256	5005	3959	3097	2400	1847	1419	1095
			Pe	1,86	1,82	1,75	1,64	1,52	1,39	1,26	1,15	1,05	0,99
		40	Qo	8287	6751	5444	4345	3435	2693	2100	1635	1278	1009
			Pe	2,29	2,18	2,04	1,88	1,72	1,55	1,41	1,28	1,18	1,13
		50	Qo	7020	5684	4560	3628	2869	2262	1787	1425	1155	957
			Pe	2,66	2,47	2,27	2,07	1,87	1,68	1,52	1,39	1,3	1,26
B1.5-10.1Y	2	30	Qo		8294	6756	5457	4369	3463	2714	2091	1569	1118
			Pe		1,96	1,93	1,86	1,75	1,61	1,45	1,29	1,14	1,01
		40	Qo		7200	5848	4716	3776	3001	2364	1835	1387	993
			Pe		2,34	2,24	2,11	1,95	1,76	1,58	1,4	1,25	1,12
		50	Qo		6254	5067	4081	3271	2606	2060	1605	1212	855
			Pe		2,66	2,51	2,32	2,12	1,91	1,7	1,52	1,37	1,26
B2-10.1Y	1	30	Qo	10340	8511	6929	5576	4432	3478	2694	2061	1559	1169
			Pe	2,06	2,07	2,02	1,92	1,79	1,65	1,5	1,36	1,24	1,15
		40	Qo	8981	7376	5998	4828	3846	3032	2368	1834	1409	1076
			Pe	2,51	2,43	2,3	2,15	1,98	1,81	1,64	1,49	1,37	1,3
		50	Qo	7629	6256	5089	4108	3295	2629	2091	1662	1322	1052
			Pe	2,9	2,75	2,56	2,36	2,15	1,96	1,78	1,63	1,53	1,49
D2-11.1Y	1	30	Qo	12357	10147	8246	6627	5264	4130	3200	2447	1844	1366
			Pe	2,21	2,22	2,16	2,06	1,93	1,77	1,61	1,45	1,32	1,21
		40	Qo	10710	8780	7129	5730	4559	3587	2790	2140	1610	1176
			Pe	2,73	2,64	2,51	2,34	2,16	1,96	1,77	1,6	1,47	1,38
		50	Qo	8990	7348	5956	4788	3816	3016	2359	1821	1375	994
			Pe	3,17	3,01	2,8	2,58	2,35	2,12	1,91	1,74	1,61	1,55

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R448A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]									
				5	0	-5	-10	-15	-20	-25	-30	-35	-40
D2-13.1Y	2	30	Qo		11756	9561	7711	6167	4891	3844	2987	2283	1691
			Pe		2,66	2,58	2,46	2,3	2,11	1,91	1,72	1,55	1,41
		40	Qo		10291	8344	6719	5377	4281	3390	2667	2074	1570
			Pe		3,13	2,99	2,8	2,59	2,37	2,15	1,94	1,76	1,62
		50	Qo		9007	7283	5857	4693	3750	2991	2376	1867	1426
			Pe		3,62	3,41	3,17	2,92	2,66	2,42	2,2	2,02	1,89
D3-13.1Y	1	30	Qo	14527	11926	9693	7793	6192	4855	3748	2836	2085	1460
			Pe	2,57	2,58	2,52	2,41	2,25	2,07	1,88	1,69	1,52	1,39
		40	Qo	12520	10275	8357	6731	5362	4217	3261	2459	1776	1179
			Pe	3,18	3,08	2,92	2,73	2,51	2,28	2,06	1,86	1,69	1,57
		50	Qo	10561	8673	7070	5719	4585	3633	2828	2137	1525	957
			Pe	3,75	3,55	3,31	3,05	2,78	2,52	2,28	2,08	1,92	1,84
D2-15.1Y	2	30	Qo		13122	10681	8623	6905	5483	4315	3358	2568	1901
			Pe		3,16	3,05	2,89	2,7	2,48	2,25	2,03	1,82	1,63
		40	Qo		11327	9206	7435	5972	4773	3795	2995	2329	1755
			Pe		3,69	3,51	3,3	3,06	2,8	2,54	2,29	2,06	1,86
		50	Qo		9814	7973	6451	5203	4187	3359	2677	2097	1575
			Pe		4,17	3,94	3,67	3,38	3,09	2,8	2,53	2,29	2,1
D3-15.1Y	1	30	Qo	16480	13625	11157	9046	7264	5780	4565	3588	2820	2231
			Pe	3,08	3,18	3,15	3,03	2,84	2,62	2,37	2,14	1,94	1,81
		40	Qo	14331	11841	9701	7881	6350	5080	4041	3201	2533	2006
			Pe	3,93	3,86	3,7	3,47	3,19	2,9	2,62	2,37	2,19	2,1
		50	Qo	12027	9932	8149	6647	5398	4371	3537	2865	2326	1890
			Pe	4,66	4,44	4,16	3,83	3,49	3,16	2,86	2,62	2,48	2,45
D3-16.1Y	2	30	Qo		14430	11772	9526	7644	6077	4779	3702	2798	2020
			Pe		3,47	3,32	3,12	2,89	2,64	2,38	2,12	1,87	1,65
		40	Qo		12615	10258	8283	6640	5284	4165	3236	2449	1757
			Pe		4,21	3,94	3,65	3,33	3,01	2,68	2,37	2,08	1,82
		50	Qo		11001	8911	7171	5734	4552	3577	2761	2057	1417
			Pe		4,86	4,5	4,11	3,71	3,32	2,93	2,57	2,24	1,96
D4-16.1Y	1	30	Qo	18055	14864	12115	9768	7786	6129	4761	3641	2731	1994
			Pe	3,42	3,41	3,32	3,16	2,95	2,71	2,45	2,19	1,94	1,74
		40	Qo	15903	13085	10666	8609	6876	5427	4224	3230	2404	1710
			Pe	4,22	4,09	3,88	3,63	3,34	3,03	2,72	2,43	2,17	1,97
		50	Qo	13615	11196	9136	7397	5940	4726	3717	2874	2160	1536
			Pe	4,95	4,7	4,38	4,04	3,67	3,31	2,96	2,64	2,37	2,18
D3-18.1Y	2	30	Qo		15707	12863	10461	8450	6781	5405	4272	3332	2536
			Pe		3,84	3,74	3,56	3,33	3,06	2,78	2,5	2,25	2,05
		40	Qo		13741	11228	9125	7381	5949	4777	3817	3019	2333
			Pe		4,68	4,43	4,12	3,78	3,43	3,08	2,76	2,49	2,29
		50	Qo		11991	9777	7942	6435	5207	4209	3390	2702	2095
			Pe		5,4	5,01	4,6	4,16	3,74	3,34	3	2,72	2,54
D4-18.1Y	1	30	Qo	19048	15818	13011	10594	8535	6800	5356	4172	3214	2450
			Pe	3,86	3,8	3,66	3,45	3,2	2,94	2,69	2,47	2,31	2,22
		40	Qo	16686	13854	11405	9308	7529	6035	4795	3774	2941	2262
			Pe	4,68	4,5	4,25	3,95	3,63	3,32	3,03	2,8	2,63	2,57
		50	Qo	14134	11746	9703	7972	6520	5315	4324	3514	2852	2306
			Pe	5,46	5,17	4,82	4,45	4,07	3,71	3,4	3,16	3,01	2,97
D3-19.1Y	2	30	Qo		16432	13491	11007	8929	7205	5784	4616	3648	2830
			Pe		4,14	4,04	3,86	3,62	3,33	3,04	2,74	2,48	2,27
		40	Qo		14414	11819	9648	7850	6373	5165	4177	3356	2651
			Pe		5,07	4,82	4,5	4,15	3,77	3,41	3,07	2,78	2,58
		50	Qo			10264	8383	6842	5588	4571	3739	3042	2427
			Pe			5,46	5,02	4,57	4,13	3,72	3,36	3,07	2,88
D4-19.1Y	1	30	Qo		16999	13782	11100	8889	7086	5625	4444	3478	2662
			Pe		3,98	3,87	3,69	3,46	3,21	2,95	2,71	2,52	2,4
		40	Qo		14784	11982	9668	7779	6250	5017	4016	3184	2455
			Pe		4,72	4,52	4,25	3,94	3,62	3,31	3,04	2,81	2,67
		50	Qo		12831	10400	8411	6799	5500	4451	3587	2844	2159
			Pe		5,48	5,17	4,82	4,44	4,06	3,69	3,37	3,12	2,96
Q4-20.1Y	2	30	Qo		16781	13669	11044	8851	7035	5540	4312	3293	2430
			Pe		3,72	3,55	3,33	3,07	2,8	2,53	2,26	2,03	1,84
		40	Qo		14975	12140	9768	7804	6194	4880	3809	2925	2172
			Pe		4,49	4,2	3,87	3,52	3,17	2,82	2,51	2,24	2,03
		50	Qo		13279	10696	8553	6794	5364	4208	3270	2495	1827
			Pe		5,15	4,74	4,3	3,87	3,44	3,04	2,69	2,39	2,17
Q4-21.1Y	2	30	Qo		19183	15783	12840	10312	8157	6336	4805	3523	2450
			Pe		4,02	3,89	3,67	3,39	3,06	2,71	2,34	1,97	1,62
		40	Qo		16860	13773	11117	8851	6934	5324	3979	2858	1919
			Pe		4,88	4,58	4,21	3,8	3,35	2,89	2,43	2	1,6
		50	Qo		14508	11742	9383	7387	5715	4325	3174	2222	1427
			Pe		5,63	5,17	4,66	4,12	3,56	3,01	2,47	1,97	1,53



① Suction gas temperature 20°C without liquid sub-cooling.
 The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.
 To calculate the performance in different operating points refer to the Frascold Selection Software.
 All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R448A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]									
				5	0	-5	-10	-15	-20	-25	-30	-35	-40
Q5-21.1Y	1	30	Qo	22631	18683	15253	12297	9770	7628	5826	4319	3062	2012
			Pe	3,69	3,72	3,66	3,52	3,31	3,04	2,71	2,34	1,94	1,5
		40	Qo	19524	16103	13140	10591	8411	6556	4980	3640	2491	1488
			Pe	4,61	4,51	4,32	4,06	3,75	3,38	2,96	2,51	2,04	1,55
		50	Qo	16330	13439	10946	8806	6976	5411	4065	2895	1856	902
			Pe	5,39	5,14	4,82	4,44	4,02	3,55	3,04	2,51	1,97	1,42
Q4-24.1Y	2	30	Qo		21375	17531	14183	11294	8831	6761	5048	3658	2557
			Pe		4,35	4,07	3,79	3,49	3,19	2,87	2,53	2,17	1,79
		40	Qo		18354	14989	12067	9555	7419	5624	4136	2921	1945
			Pe		5,05	4,67	4,28	3,89	3,49	3,08	2,66	2,23	1,78
		50	Qo		15529	12602	10069	7895	6046	4488	3186	2107	1216
			Pe		5,64	5,15	4,66	4,18	3,69	3,19	2,69	2,19	1,67
Q5-24.1Y	1	30	Qo	26009	21357	17351	13934	11051	8648	6667	5055	3755	2712
			Pe	4,48	4,42	4,28	4,06	3,78	3,46	3,11	2,76	2,42	2,12
		40	Qo	22540	18482	15003	12048	9561	7487	5771	4357	3190	2214
			Pe	5,58	5,34	5,03	4,67	4,28	3,87	3,46	3,06	2,71	2,41
		50	Qo	18881	15449	12532	10072	8015	6304	4886	3704	2702	1826
			Pe	6,57	6,15	5,69	5,19	4,69	4,19	3,72	3,29	2,92	2,62
Q4-25.1Y	2	30	Qo		21393	17378	13987	11149	8792	6845	5238	3899	2757
			Pe		4,6	4,39	4,1	3,78	3,42	3,05	2,69	2,35	2,04
		40	Qo		18621	15051	12061	9582	7542	5871	4496	3348	2355
			Pe		5,57	5,19	4,76	4,3	3,83	3,37	2,93	2,53	2,19
		50	Qo		16154	12977	10339	8169	6396	4950	3758	2751	1857
			Pe		6,38	5,84	5,27	4,7	4,13	3,58	3,07	2,63	2,25
Q5-25.1Y	2	30	Qo	26778	22001	17889	14385	11434	8981	6968	5342	4045	3022
			Pe	4,6	4,56	4,43	4,22	3,96	3,65	3,31	2,96	2,61	2,28
		40	Qo	23208	19056	15499	12482	9949	7844	6112	4697	3543	2594
			Pe	5,78	5,55	5,25	4,89	4,5	4,09	3,67	3,26	2,87	2,52
		50	Qo	19502	15993	13010	10498	8402	6665	5232	4047	3054	2197
			Pe	6,82	6,39	5,92	5,41	4,9	4,38	3,88	3,41	2,99	2,63
Q7-25.1Y	1	30	Qo	27777	22655	18263	14541	11430	8870	6801	5164	3898	2944
			Pe	4,75	4,71	4,55	4,3	4	3,66	3,31	2,98	2,69	2,47
		40	Qo	23733	19304	15539	12376	9757	7622	5910	4563	3519	2720
			Pe	5,87	5,61	5,27	4,88	4,47	4,05	3,66	3,32	3,06	2,89
		50	Qo	19851	16116	12978	10375	8248	6537	5183	4125	3304	2660
			Pe	6,82	6,37	5,87	5,36	4,86	4,39	3,98	3,65	3,43	3,35
Q5-28.1Y	2	30	Qo		25391	20948	17044	13647	10729	8259	6206	4540	3232
			Pe		5,31	5	4,68	4,33	3,96	3,56	3,14	2,7	2,23
		40	Qo		21981	18062	14627	11647	9092	6931	5135	3673	2515
			Pe		6,05	5,64	5,21	4,76	4,3	3,8	3,29	2,76	2,2
		50	Qo		18730	15302	12306	9712	7489	5607	4036	2746	1707
			Pe		6,69	6,17	5,64	5,09	4,52	3,94	3,33	2,71	2,06
Q7-28.1Y	1	30	Qo	30703	25322	20676	16703	13341	10528	8201	6299	4760	3521
			Pe	5,65	5,51	5,3	5,02	4,7	4,33	3,95	3,55	3,15	2,77
		40	Qo	26752	22048	18008	14568	11668	9244	7235	5578	4212	3075
			Pe	6,86	6,53	6,14	5,72	5,28	4,82	4,37	3,92	3,51	3,13
		50	Qo	22646	18642	15228	12343	9926	7913	6243	4853	3682	2668
			Pe	7,96	7,44	6,89	6,33	5,77	5,23	4,71	4,22	3,79	3,43
Q5-33.1Y	2	30	Qo		29408	24209	19706	15840	12554	9788	7484	5584	4030
			Pe		6,1	5,88	5,57	5,19	4,74	4,26	3,74	3,2	2,67
		40	Qo		25606	20969	16975	13564	10680	8262	6253	4595	3229
			Pe		7,3	6,86	6,35	5,79	5,18	4,56	3,92	3,28	2,67
		50	Qo		22145	18018	14481	11474	8939	6818	5053	3585	2355
			Pe		8,35	7,7	7,01	6,28	5,53	4,77	4,02	3,3	2,62
Q7-33.1Y	1	30	Qo	35514	29255	23862	19265	15392	12171	9530	7398	5702	4372
			Pe	6,67	6,55	6,29	5,91	5,46	4,98	4,5	4,07	3,72	3,5
		40	Qo	30933	25478	20798	16823	13480	10697	8403	6526	4995	3737
			Pe	8,07	7,7	7,22	6,66	6,07	5,49	4,95	4,5	4,17	4
		50	Qo	26126	21511	17581	14262	11485	9177	7265	5680	4347	3198
			Pe	9,32	8,71	8,03	7,31	6,6	5,93	5,35	4,9	4,6	4,51
S5-33Y	2	30	Qo		29504	23921	19317	15559	12510	10037	8004	6276	4719
			Pe		5,7	5,69	5,53	5,27	4,92	4,53	4,13	3,75	3,43
		40	Qo		26275	21238	17124	13798	11126	8973	7204	5683	4278
			Pe		7,19	7	6,69	6,27	5,8	5,29	4,79	4,32	3,92
		50	Qo		23336	18777	15086	12126	9764	7865	6293	4913	3592
			Pe		8,58	8,22	7,75	7,19	6,58	5,96	5,36	4,81	4,34
S7-33Y	1	30	Qo	35388	29126	23796	19298	15534	12402	9803	7637	5803	4202
			Pe	6,07	6,1	5,96	5,69	5,31	4,87	4,4	3,92	3,47	3,08
		40	Qo	31134	25642	20984	17060	13770	11015	8693	6707	4954	3336
			Pe	7,85	7,58	7,19	6,7	6,15	5,57	4,99	4,45	3,97	3,6
		50	Qo	26670	21969	18003	14673	11879	9521	7498	5711	4060	2445
			Pe	9,43	8,88	8,24	7,54	6,82	6,1	5,43	4,83	4,33	3,98

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R448A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]									
				5	0	-5	-10	-15	-20	-25	-30	-35	-40
Q7-36.1Y	1	30	Qo		33076	27015	21898	17616	14060	11124	8698	6674	4945
			Pe		7,43	7,09	6,65	6,16	5,62	5,08	4,55	4,06	3,65
		40	Qo		28867	23491	18990	15257	12183	9661	7582	5837	4320
			Pe		8,85	8,28	7,65	6,98	6,29	5,62	5	4,44	3,98
		50	Qo		25017	20257	16306	13055	10396	8221	6421	4889	3516
			Pe		10	9,23	8,41	7,58	6,77	5,99	5,29	4,68	4,2
S8-42Y	2	30	Qo		37860	30935	25091	20199	16127	12747	9927	7538	5450
			Pe		8,17	7,79	7,3	6,75	6,14	5,52	4,91	4,32	3,79
		40	Qo		33072	26967	21856	17607	14092	11180	8741	6646	4763
			Pe		9,64	9,03	8,35	7,62	6,87	6,12	5,4	4,73	4,14
		50	Qo		28357	23036	18620	14980	11985	9506	7412	5573	3859
			Pe		10,76	9,95	9,1	8,22	7,34	6,48	5,68	4,95	4,33
S12-42Y	1	30	Qo	44093	36349	29642	23889	19009	14917	11532	8770	6549	4785
			Pe	7,67	7,47	7,14	6,7	6,19	5,62	5,02	4,42	3,85	3,32
		40	Qo	38486	31591	25657	20600	16339	12791	9872	7499	5590	4063
			Pe	9,41	8,89	8,28	7,61	6,89	6,17	5,45	4,77	4,16	3,64
		50	Qo	32735	26718	21585	17253	13639	10662	8237	6282	4714	3450
			Pe	10,89	10,06	9,18	8,28	7,37	6,49	5,67	4,92	4,28	3,77
S10-52Y	2	30	Qo		45279	36787	29772	24033	19365	15567	12434	9763	7353
			Pe		9,82	9,53	9,02	8,36	7,61	6,81	6,04	5,34	4,79
		40	Qo		40181	32579	26358	21313	17242	13941	11209	8841	6634
			Pe		11,97	11,36	10,57	9,67	8,72	7,76	6,87	6,09	5,5
		50	Qo		35542	28727	23195	18741	15163	12258	9822	7653	5548
			Pe		13,81	12,91	11,87	10,76	9,63	8,54	7,54	6,71	6,1
S15-52Y	1	30	Qo	56279	46373	37935	30809	24837	19864	15734	12289	9373	6830
			Pe	9,43	9,4	9,13	8,67	8,07	7,39	6,67	5,96	5,33	4,82
		40	Qo	49572	40890	33519	27303	22085	17709	14018	10856	8067	5494
			Pe	12,01	11,53	10,88	10,1	9,24	8,37	7,53	6,77	6,14	5,71
		50	Qo	42505	35086	28822	23555	19129	15389	12178	9338	6715	4151
			Pe	14,29	13,38	12,36	11,28	10,19	9,15	8,2	7,4	6,8	6,45
S15-56Y	2	30	Qo		50931	41327	33386	26881	21584	17268	13706	10671	7936
			Pe		10,63	10,31	9,76	9,06	8,25	7,41	6,59	5,85	5,26
		40	Qo		45215	36602	29543	23809	19174	15411	12292	9589	7077
			Pe		12,82	12,16	11,32	10,36	9,35	8,33	7,38	6,56	5,92
		50	Qo		39949	32217	25928	20855	16771	13449	10661	8181	5780
			Pe		14,68	13,71	12,6	11,41	10,21	9,04	7,99	7,1	6,43
S20-56Y	1	30	Qo	61677	50874	41660	33868	27332	21883	17354	13579	10390	7619
			Pe	10,89	10,74	10,33	9,73	8,99	8,17	7,33	6,53	5,83	5,3
		40	Qo	54411	44932	36872	30066	24344	19541	15490	12021	8969	6167
			Pe	13,55	12,91	12,09	11,15	10,15	9,15	8,2	7,37	6,73	6,32
		50	Qo	46706	38602	31748	25978	21124	17018	13494	10384	7522	4738
			Pe	15,84	14,74	13,54	12,29	11,06	9,9	8,88	8,06	7,49	7,23
V15-59Y	2	30	Qo		52236	42417	34299	27650	22236	17824	14182	11077	8275
			Pe		11,67	11,27	10,62	9,81	8,89	7,93	7	6,16	5,47
		40	Qo		46362	37571	30366	24515	19785	15943	12756	9991	7415
			Pe		14,01	13,24	12,27	11,18	10,02	8,87	7,79	6,85	6,11
		50	Qo		40958	33079	26673	21505	17344	13957	11110	8570	6105
			Pe		15,99	14,86	13,59	12,23	10,86	9,54	8,34	7,32	6,55
V20-59Y	1	30	Qo	64929	53362	43393	34888	27709	21721	16789	12777	9548	6967
			Pe	10,83	10,76	10,44	9,93	9,27	8,52	7,71	6,9	6,14	5,47
		40	Qo	56706	46445	37653	30194	23932	18730	14454	10967	8133	5818
			Pe	13,58	13,02	12,28	11,41	10,46	9,47	8,49	7,57	6,76	6,1
		50	Qo	47965	39083	31538	25197	19922	15578	12028	9138	6771	4792
			Pe	15,87	14,85	13,71	12,51	11,28	10,08	8,94	7,93	7,09	6,46
V15-71Y	2	30	Qo		62466	50668	40942	32996	26543	21292	16954	13239	9857
			Pe		13,71	13,33	12,64	11,73	10,66	9,54	8,43	7,42	6,59
		40	Qo		55243	44700	36087	29116	23496	18939	15154	11852	8743
			Pe		16,68	15,86	14,78	13,51	12,16	10,78	9,47	8,31	7,37
		50	Qo			39287	31642	25498	20565	16554	13176	10140	7157
			Pe			17,95	16,49	14,91	13,27	11,67	10,18	8,88	7,86
V25-71Y	1	30	Qo	78657	64565	52446	42130	33449	26233	20314	15522	11687	8641
			Pe	13,99	13,6	13,02	12,28	11,41	10,44	9,39	8,31	7,2	6,11
		40	Qo	68119	55771	45216	36284	28805	22612	17534	13402	10047	7301
			Pe	17,32	16,28	15,16	13,97	12,76	11,54	10,36	9,23	8,18	7,26
		50	Qo	57449	46873	37908	30385	24136	18991	14780	11335	8487	6066
			Pe	19,97	18,31	16,65	15,05	13,51	12,07	10,76	9,61	8,65	7,9
V20-84Y	2	30	Qo		73801	60257	48789	39164	31149	24512	19018	14436	10531
			Pe		16,69	15,86	14,83	13,65	12,4	11,11	9,87	8,72	7,73
		40	Qo		63991	52147	42215	33962	27154	21560	16945	13077	9723
			Pe		19,87	18,53	17,04	15,48	13,9	12,35	10,91	9,63	8,57
		50	Qo		54161	43979	35545	28626	22988	18399	14626	11435	8594
			Pe		22,19	20,41	18,56	16,68	14,86	13,14	11,59	10,26	9,22

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R448A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]									
				5	0	-5	-10	-15	-20	-25	-30	-35	-40
V30-84Y	1	30	Qo	93182	76821	62679	50574	40330	31766	24703	18963	14366	10732
			Pe	16,31	16,03	15,47	14,68	13,7	12,57	11,33	10,02	8,69	7,37
		40	Qo	81287	66820	54391	43820	34928	27536	21465	16536	12570	9388
			Pe	20,2	19,13	17,92	16,61	15,22	13,82	12,43	11,11	9,88	8,8
		50	Qo	69084	56594	45961	37006	29550	23414	18418	14384	11132	8483
			Pe	23,72	21,88	20,01	18,17	16,39	14,72	13,19	11,84	10,73	9,89
V25-93Y	2	30	Qo		81957	66787	53970	43233	34302	26903	20764	15609	11166
			Pe		18,78	17,75	16,52	15,15	13,69	12,2	10,73	9,35	8,1
		40	Qo		70837	57470	46273	36973	29295	22968	17716	13266	9345
			Pe		21,54	20,08	18,45	16,73	14,97	13,21	11,53	9,97	8,59
		50	Qo		60950	49178	39394	31323	24693	19228	14657	10704	7096
			Pe		23,69	21,81	19,82	17,78	15,73	13,74	11,86	10,16	8,67
V32-93Y	1	30	Qo	103387	84749	68673	54945	43351	33677	25710	19234	14036	9901
			Pe	18,31	17,83	17,08	16,1	14,93	13,61	12,18	10,67	9,13	7,58
		40	Qo	89543	73116	59039	47097	37077	28763	21943	16402	11926	8300
			Pe	22,64	21,22	19,67	18,04	16,36	14,67	13,01	11,42	9,92	8,57
		50	Qo	75695	61526	49494	39385	30985	24078	18453	13893	10186	7117
			Pe	26,08	23,75	21,45	19,2	17,05	15,02	13,16	11,51	10,11	8,99
V25-103Y	2	30	Qo		88203	72720	59439	48119	38523	30410	23543	17681	12586
			Pe		21,36	20,59	19,37	17,83	16,1	14,32	12,61	11,1	9,93
		40	Qo		79289	64933	52726	42427	33799	26601	20595	15541	11201
			Pe		25,46	24,07	22,32	20,32	18,22	16,15	14,22	12,58	11,36
		50	Qo				46043	36659	28892	22503	17252	12900	9209
			Pe				24,7	22,32	19,9	17,59	15,52	13,81	12,6
V35-103Y	1	30	Qo	108836	89931	73660	59779	48047	38221	30058	23316	17753	13126
			Pe	21,22	20,67	19,73	18,48	17	15,38	13,69	12,02	10,45	9,05
		40	Qo	94491	78129	64097	52150	42046	33544	26400	20373	15219	10697
			Pe	27,51	25,68	23,67	21,57	19,47	17,43	15,55	13,9	12,57	11,63
		50	Qo	80562	66675	54811	44729	36185	28937	22744	17362	12548	8062
			Pe	32,82	29,75	26,72	23,82	21,13	18,73	16,7	15,13	14,08	13,65
Z25-106Y	2	30	Qo		97877	79572	64105	51154	40399	31520	24195	18104	12926
			Pe		20,28	19,76	18,81	17,53	16,03	14,41	12,79	11,28	9,97
		40	Qo		85450	69203	55600	44321	35044	27450	21217	16025	11553
			Pe		24,83	23,51	21,86	19,99	18	16,01	14,13	12,45	11,1
		50	Qo		73887	59538	47641	37874	29916	23448	18148	13696	9771
			Pe		28,5	26,47	24,22	21,85	19,48	17,21	15,15	13,41	12,1
Z35-106Y	1	30	Qo	120035	98635	80183	64447	51193	40189	31200	23993	18334	13992
			Pe	18,92	18,69	18,11	17,23	16,11	14,8	13,36	11,85	10,33	8,83
		40	Qo	103975	85197	69123	55518	44151	34786	27191	21133	16378	12692
			Pe	24,43	23,11	21,61	19,98	18,28	16,56	14,88	13,29	11,85	10,61
		50	Qo	87591	71550	57967	46608	37240	29629	23542	18746	15008	12093
			Pe	29,15	26,77	24,37	22,01	19,75	17,64	15,74	14,09	12,77	11,81
Z30-126Y	2	30	Qo		112990	91925	74138	59257	46911	36731	28345	21382	15473
			Pe		23,03	22,23	21,02	19,51	17,8	16,01	14,22	12,55	11,09
		40	Qo		97794	79315	63857	51048	40518	31896	24812	18893	13771
			Pe		27,64	26,06	24,18	22,1	19,93	17,77	15,72	13,88	12,36
		50	Qo		83791	67678	54328	43371	34435	27151	21146	16052	11496
			Pe		31,4	29,14	26,68	24,13	21,58	19,15	16,92	15,01	13,53
Z40-126Y	1	30	Qo	139439	114617	93174	74845	59363	46462	35876	27338	20582	15341
			Pe	22,93	22,61	21,88	20,8	19,45	17,89	16,18	14,4	12,61	10,88
		40	Qo	121482	99556	80743	64778	51395	40326	31306	24068	18346	13874
			Pe	29,24	27,59	25,74	23,75	21,69	19,62	17,62	15,75	14,08	12,68
		50	Qo	102257	83460	67511	54144	43092	34090	26870	21166	16712	13242
			Pe	34,19	31,28	28,38	25,55	22,85	20,36	18,14	16,25	14,77	13,77
W40-142Y	2	30	Qo	167811	138129	112749	91219	73082	57883	45169	34484	25373	17382
			Pe	26,01	26,31	25,92	24,97	23,56	21,8	19,79	17,64	15,46	13,35
		40	Qo	149591	122992	100379	81299	65296	51915	40702	31202	22960	15521
			Pe	35,1	33,54	31,6	29,38	26,99	24,53	22,12	19,86	17,85	16,21
		50	Qo	128640	105417	85865	69528	55953	44683	35266	27244	20164	13571
			Pe	42,21	38,97	35,62	32,29	29,07	26,08	23,42	21,2	19,53	18,52
Z40-154Y	2	30	Qo		137361	111527	90237	72855	58740	47254	37759	29615	22184
			Pe		28,95	28,22	26,83	24,95	22,77	20,44	18,15	16,05	14,32
		40	Qo		121056	98172	79480	64340	52113	42162	33846	26528	19568
			Pe		35,44	33,74	31,51	28,9	26,09	23,25	20,56	18,17	16,27
		50	Qo		106378	86071	69601	56329	45616	36824	29315	22448	15586
			Pe		41,03	38,43	35,4	32,11	28,74	25,45	22,41	19,79	17,77
Z50-154Y	1	30	Qo	167687	138179	112672	90834	72335	56844	44031	33564	25114	18350
			Pe	29,95	28,97	27,62	25,95	24,01	21,84	19,5	17,04	14,5	11,93
		40	Qo	146799	120650	98176	79045	62927	49491	38407	29343	21970	15957
			Pe	37,57	35,09	32,46	29,73	26,96	24,18	21,45	18,82	16,34	14,04
		50	Qo	124548	101990	82779	66586	53080	41930	32805	25376	19310	14279
			Pe	43,66	39,73	35,88	32,15	28,59	25,26	22,19	19,44	17,06	15,09

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R448A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]									
				5	0	-5	-10	-15	-20	-25	-30	-35	-40
W40-168Y	2	30	Qo		152579	124241	100117	79770	62765	48666	37036	27440	19442
			Pe		31,59	29,97	28,09	26,01	23,76	21,42	19,03	16,64	14,31
		40	Qo		133149	108118	86941	69182	54405	42175	32056	23611	16405
			Pe		37,26	34,87	32,25	29,47	26,58	23,63	20,67	17,76	14,95
		50	Qo			93258	74735	59270	46429	35776	26874	19287	12580
			Pe			38,85	35,5	32,01	28,46	24,89	21,36	17,91	14,61
W50-168Y	1	30	Qo	189814	156020	126930	102144	81262	63884	49612	38043	28778	21419
			Pe	29,94	29,7	28,88	27,58	25,88	23,87	21,64	19,28	16,89	14,55
		40	Qo	166230	136494	111018	89402	71246	56150	43716	33541	25226	18372
			Pe	38,96	36,96	34,65	32,13	29,48	26,79	24,17	21,68	19,44	17,51
		50	Qo	140369	115056	93558	75476	60410	47960	37726	29309	22308	16323
			Pe	46,19	42,52	38,81	35,16	31,66	28,4	25,46	22,94	20,94	19,53
W50-187Y	2	30	Qo		170541	137962	110579	87783	68963	53511	40816	30268	21258
			Pe		35,03	33,06	30,83	28,39	25,81	23,18	20,55	18	15,6
		40	Qo		147900	119189	95263	75513	59328	46101	35221	26077	18061
			Pe		40,84	38,05	35,05	31,89	28,66	25,42	22,25	19,21	16,38
		50	Qo		127776	102448	81496	64308	50277	38791	29242	21020	13514
			Pe		45,66	42,04	38,25	34,36	30,46	26,6	22,87	19,32	16,04
W60-187Y	1	30	Qo	208709	170957	138601	111178	88225	69276	53871	41542	31828	24265
			Pe	34,78	34,02	32,69	30,89	28,73	26,3	23,7	21,02	18,37	15,84
		40	Qo	181631	148641	120515	96790	77001	60685	47379	36618	27938	20876
			Pe	44,33	41,6	38,61	35,46	32,25	29,08	26,05	23,26	20,8	18,77
		50	Qo	152807	124852	101229	81474	65123	51711	40777	31855	24482	18195
			Pe	51,92	47,31	42,75	38,34	34,18	30,37	27,01	24,19	22,01	20,57
W60-206Y	2	30	Qo		188083	152973	123306	98465	77830	60782	46703	34973	24975
			Pe		38,75	36,98	34,75	32,17	29,37	26,44	23,53	20,74	18,19
		40	Qo		164499	133259	107099	85399	67541	52906	40875	30829	22150
			Pe		45,73	42,85	39,63	36,19	32,63	29,08	25,66	22,48	19,67
		50	Qo		142854	115145	92151	73253	57832	45271	34948	26247	18548
			Pe		51,31	47,43	43,33	39,12	34,92	30,86	27,04	23,59	20,62
W70-206Y	1	30	Qo	227171	186963	152351	122851	97978	77246	60170	46266	35047	26029
			Pe	37,54	36,85	35,54	33,71	31,46	28,86	26,01	23	19,93	16,87
		40	Qo	199123	163598	133156	107309	85574	67465	52497	40185	30043	21587
			Pe	47,64	44,94	41,94	38,72	35,36	31,97	28,63	25,43	22,47	19,83
		50	Qo	169799	139192	113151	91191	72827	57573	44946	34458	25626	17965
			Pe	55,91	51,28	46,63	42,07	37,69	33,56	29,79	26,47	23,67	21,51
W70-228Y	2	30	Qo		188083	152973	123306	98465	77830	60782	46703	34973	24975
			Pe		38,75	36,98	34,75	32,17	29,37	26,44	23,53	20,74	18,19
		40	Qo		164499	133259	107099	85399	67541	52906	40875	30829	22150
			Pe		45,73	42,85	39,63	36,19	32,63	29,08	25,66	22,48	19,67
		50	Qo		142854	115145	92151	73253	57832	45271	34948	26247	18548
			Pe		51,31	47,43	43,33	39,12	34,92	30,86	27,04	23,59	20,62
W75-228Y	1	30	Qo	246232	202283	164464	132236	105059	82393	63700	48439	36072	26059
			Pe	43,1	41,83	39,97	37,61	34,82	31,68	28,27	24,67	20,97	17,23
		40	Qo	214848	176285	143249	115201	91601	71909	55588	42096	30895	21445
			Pe	53,89	50,45	46,76	42,88	38,91	34,91	30,98	27,18	23,61	20,33
		50	Qo	181347	148520	120617	97100	77427	61060	47461	36088	26402	17865
			Pe	62,4	56,89	51,45	46,17	41,11	36,35	31,99	28,09	24,75	22,03
W75-240Y	2	30	Qo		215742	174824	140436	111845	88313	69107	53491	40727	30083
			Pe		43,77	42,05	39,61	36,67	33,42	30,05	26,76	23,76	21,24
		40	Qo		189025	152442	122004	96976	76622	60208	46996	36253	27242
			Pe		52,23	49,01	45,27	41,23	37,07	33	29,21	25,91	23,28
		50	Qo		165271	132564	105615	83691	66055	51972	40706	31523	23686
			Pe		59,04	54,48	49,61	44,63	39,73	35,12	31	27,56	25
W80-240Y	1	30	Qo	255174	209818	170795	137561	109571	86281	67147	51623	39166	29230
			Pe	45,14	43,79	41,82	39,34	36,43	33,2	29,74	26,14	22,5	18,91
		40	Qo	223665	183462	149032	119830	95312	74933	58150	44417	33190	23924
			Pe	56,67	52,98	49,03	44,92	40,73	36,56	32,51	28,68	25,15	22,03
		50	Qo	190339	155576	126026	101144	80385	63206	49061	37406	27696	19388
			Pe	66	60,03	54,15	48,45	43,03	37,98	33,39	29,37	26,01	23,4

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R449A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]									
				5	0	-5	-10	-15	-20	-25	-30	-35	-40
A05-4Y	1	30	Qo	4155	3408	2761	2205	1732	1336	1007	738	521	349
			Pe	0,71	0,71	0,69	0,67	0,64	0,6	0,56	0,51	0,45	0,38
		40	Qo	3471	2845	2305	1843	1450	1118	841	609	415	251
			Pe	0,87	0,84	0,81	0,77	0,72	0,66	0,6	0,53	0,45	0,37
		50	Qo	2842	2330	1888	1510	1187	912	677	473	294	130
			Pe	1,01	0,97	0,92	0,86	0,79	0,71	0,63	0,53	0,43	0,33
A05-5Y	2	30	Qo		4686	3674	2845	2177	1651	1244	937	709	539
			Pe		1,08	0,98	0,89	0,81	0,73	0,66	0,61	0,57	0,55
		40	Qo		3807	2970	2292	1752	1330	1004	755	561	402
			Pe		1,15	1,05	0,96	0,87	0,79	0,71	0,64	0,58	0,54
		50	Qo		3075	2395	1851	1422	1087	825	616	439	273
			Pe		1,27	1,17	1,06	0,95	0,85	0,75	0,65	0,56	0,48
A07-5Y	1	30	Qo	5468	4442	3560	2812	2186	1671	1255	928	678	493
			Pe	0,86	0,9	0,89	0,86	0,81	0,75	0,68	0,61	0,55	0,51
		40	Qo	4614	3733	2981	2347	1821	1390	1043	770	558	398
			Pe	1,11	1,09	1,05	0,98	0,9	0,82	0,73	0,65	0,58	0,54
		50	Qo	3802	3061	2434	1910	1477	1126	843	619	441	298
			Pe	1,32	1,26	1,18	1,08	0,97	0,86	0,76	0,67	0,6	0,56
A07-6Y	2	30	Qo		5074	3971	3080	2374	1823	1399	1072	816	601
			Pe		1,19	1,05	0,93	0,84	0,77	0,72	0,67	0,63	0,59
		40	Qo		4217	3285	2541	1957	1504	1155	880	650	438
			Pe		1,25	1,13	1,03	0,94	0,86	0,79	0,71	0,64	0,55
		50	Qo		3556	2765	2138	1648	1266	962	709	478	241
			Pe		1,41	1,29	1,17	1,06	0,95	0,84	0,71	0,57	0,42
A1-6Y	1	30	Qo	6017	4947	4012	3204	2515	1936	1459	1076	779	559
			Pe	0,97	1	0,99	0,95	0,9	0,83	0,75	0,67	0,6	0,55
		40	Qo	5099	4187	3392	2707	2124	1634	1229	901	641	442
			Pe	1,22	1,2	1,16	1,09	1	0,91	0,81	0,72	0,64	0,59
		50	Qo	4192	3433	2775	2210	1729	1325	988	711	485	302
			Pe	1,44	1,38	1,3	1,2	1,08	0,97	0,85	0,75	0,67	0,61
A1-7Y	2	30	Qo		6682	5297	4162	3246	2520	1953	1514	1174	901
			Pe		1,71	1,51	1,34	1,2	1,09	0,99	0,92	0,85	0,8
		40	Qo		5517	4366	3432	2683	2090	1621	1247	937	660
			Pe		1,76	1,59	1,44	1,31	1,19	1,08	0,97	0,86	0,74
		50	Qo		4555	3610	2847	2235	1745	1345	1006	696	386
			Pe		1,92	1,75	1,59	1,44	1,28	1,12	0,95	0,76	0,56
A1.5-7Y	1	30	Qo	7852	6429	5199	4147	3259	2521	1919	1440	1068	791
			Pe	1,32	1,32	1,28	1,21	1,13	1,03	0,93	0,84	0,76	0,7
		40	Qo	6747	5515	4455	3555	2799	2173	1665	1258	941	698
			Pe	1,6	1,55	1,47	1,37	1,25	1,14	1,02	0,92	0,83	0,76
		50	Qo	5704	4650	3748	2986	2349	1824	1395	1050	774	553
			Pe	1,85	1,75	1,63	1,49	1,35	1,21	1,08	0,96	0,87	0,81
A1.5-8Y	1	30	Qo		6685	5435	4374	3483	2744	2140	1651	1259	947
			Pe		1,51	1,47	1,4	1,31	1,21	1,09	0,98	0,87	0,77
		40	Qo		5814	4715	3786	3011	2370	1845	1418	1071	785
			Pe		1,78	1,7	1,59	1,46	1,33	1,19	1,05	0,93	0,83
		50	Qo		4964	4010	3210	2545	1996	1546	1177	869	605
			Pe		2,03	1,9	1,75	1,59	1,42	1,26	1,1	0,97	0,86
B1.5-9.1Y	2	30	Qo	9517	7802	6323	5063	4004	3129	2420	1860	1432	1119
			Pe	1,87	1,83	1,76	1,66	1,53	1,4	1,27	1,15	1,06	0,99
		40	Qo	8321	6808	5511	4412	3493	2738	2130	1650	1282	1008
			Pe	2,3	2,2	2,06	1,91	1,74	1,58	1,43	1,29	1,19	1,12
		50	Qo	7055	5750	4639	3707	2935	2307	1804	1410	1108	880
			Pe	2,67	2,5	2,31	2,11	1,9	1,71	1,53	1,38	1,28	1,22
B1.5-10.1Y	2	30	Qo		8975	7157	5657	4438	3461	2690	2088	1617	1241
			Pe		2,35	2,13	1,93	1,74	1,58	1,43	1,31	1,21	1,13
		40	Qo		7492	5976	4735	3733	2932	2296	1786	1366	999
			Pe		2,45	2,26	2,07	1,89	1,72	1,56	1,41	1,27	1,15
		50	Qo		6297	5048	4032	3213	2554	2018	1567	1164	772
			Pe		2,71	2,52	2,31	2,11	1,9	1,69	1,48	1,28	1,08
B2-10.1Y	1	30	Qo	10413	8590	7005	5641	4483	3513	2716	2075	1573	1195
			Pe	2,07	2,08	2,03	1,94	1,81	1,66	1,51	1,37	1,24	1,15
		40	Qo	9018	7439	6073	4902	3911	3083	2402	1851	1414	1075
			Pe	2,51	2,45	2,33	2,19	2,01	1,84	1,66	1,5	1,38	1,3
		50	Qo	7668	6330	5178	4197	3369	2678	2109	1644	1268	963
			Pe	2,92	2,78	2,61	2,41	2,19	1,98	1,79	1,63	1,5	1,43
D2-11.1Y	1	30	Qo	12444	10242	8336	6705	5324	4172	3226	2463	1861	1396
			Pe	2,22	2,23	2,18	2,08	1,94	1,78	1,62	1,46	1,32	1,22
		40	Qo	10755	8855	7217	5818	4635	3647	2829	2159	1616	1175
			Pe	2,73	2,67	2,54	2,38	2,19	1,99	1,8	1,62	1,47	1,37
		50	Qo	9035	7434	6061	4891	3903	3074	2382	1803	1314	894
			Pe	3,19	3,04	2,85	2,63	2,39	2,15	1,93	1,74	1,59	1,49

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R449A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]									
				5	0	-5	-10	-15	-20	-25	-30	-35	-40
D2-13.1Y	2	30	Qo		12708	10122	7991	6263	4887	3812	2984	2352	1864
			Pe		3,16	2,83	2,54	2,29	2,07	1,89	1,75	1,64	1,56
		40	Qo		10695	8522	6747	5319	4187	3298	2601	2043	1573
			Pe		3,28	3,01	2,76	2,53	2,32	2,12	1,95	1,79	1,65
		50	Qo		9064	7257	5792	4617	3681	2933	2319	1788	1289
			Pe		3,69	3,43	3,17	2,91	2,65	2,4	2,14	1,89	1,64
D3-13.1Y	1	30	Qo	14630	12039	9801	7886	6264	4905	3779	2855	2105	1497
			Pe	2,58	2,59	2,54	2,43	2,27	2,09	1,89	1,7	1,53	1,4
		40	Qo	12573	10364	8461	6834	5452	4286	3306	2481	1782	1178
			Pe	3,19	3,1	2,96	2,77	2,55	2,32	2,09	1,87	1,7	1,57
		50	Qo	10614	8775	7194	5842	4688	3702	2855	2116	1455	842
			Pe	3,78	3,59	3,37	3,11	2,83	2,56	2,3	2,07	1,89	1,77
D2-15.1Y	2	30	Qo		14177	11304	8935	7013	5481	4281	3354	2643	2090
			Pe		3,76	3,35	2,99	2,69	2,43	2,22	2,05	1,92	1,81
		40	Qo		11780	9406	7468	5908	4668	3691	2919	2294	1759
			Pe		3,87	3,54	3,25	2,98	2,74	2,51	2,3	2,09	1,9
		50	Qo		9883	7946	6376	5116	4107	3292	2613	2013	1433
			Pe		4,25	3,95	3,66	3,37	3,08	2,78	2,47	2,14	1,79
D3-15.1Y	1	30	Qo	16593	13750	11277	9151	7346	5837	4601	3611	2843	2272
			Pe	3,09	3,19	3,17	3,06	2,87	2,64	2,39	2,15	1,95	1,82
		40	Qo	14392	11946	9825	8005	6460	5167	4099	3232	2542	2004
			Pe	3,95	3,9	3,75	3,52	3,24	2,95	2,65	2,4	2,2	2,09
		50	Qo	12091	10054	8296	6794	5521	4454	3567	2836	2235	1740
			Pe	4,68	4,5	4,23	3,9	3,55	3,2	2,88	2,62	2,44	2,36
D3-16.1Y	2	30	Qo		15636	12480	9877	7762	6071	4737	3697	2885	2237
			Pe		4,16	3,66	3,24	2,88	2,59	2,35	2,15	1,98	1,85
		40	Qo		13128	10481	8314	6563	5162	4047	3152	2414	1766
			Pe		4,43	3,98	3,59	3,24	2,93	2,64	2,37	2,12	1,86
		50	Qo		11075	8876	7084	5636	4465	3507	2697	1970	1261
			Pe		4,98	4,52	4,1	3,69	3,29	2,9	2,51	2,09	1,66
D4-16.1Y	1	30	Qo	18181	15003	12248	9883	7875	6191	4798	3665	2756	2041
			Pe	3,43	3,43	3,35	3,19	2,97	2,73	2,46	2,2	1,96	1,75
		40	Qo	15969	13197	10800	8742	6992	5517	4284	3260	2412	1708
			Pe	4,23	4,12	3,93	3,68	3,39	3,08	2,76	2,45	2,18	1,96
		50	Qo	13684	11329	9297	7556	6073	4815	3751	2845	2067	1383
			Pe	4,98	4,75	4,45	4,11	3,74	3,36	2,98	2,63	2,33	2,09
D3-18.1Y	2	30	Qo		18298	14236	11032	8558	6688	5296	4254	3435	2714
			Pe		5,33	4,44	3,77	3,29	2,95	2,71	2,53	2,38	2,21
		40	Qo		15604	12090	9359	7282	5735	4589	3718	2996	2295
			Pe		5,68	4,81	4,15	3,66	3,29	3,01	2,77	2,55	2,29
		50	Qo			10328	8023	6297	5025	4079	3333	2660	1933
			Pe			5,37	4,66	4,11	3,66	3,29	2,94	2,59	2,2
D4-18.1Y	1	30	Qo	19180	15965	13154	10718	8631	6867	5399	4199	3242	2501
			Pe	3,87	3,82	3,68	3,48	3,23	2,97	2,71	2,49	2,32	2,24
		40	Qo	16755	13976	11551	9454	7658	6136	4863	3810	2951	2260
			Pe	4,7	4,54	4,3	4,01	3,69	3,37	3,08	2,82	2,64	2,56
		50	Qo	14209	11890	9877	8145	6665	5412	4358	3477	2743	2127
			Pe	5,49	5,23	4,9	4,53	4,14	3,77	3,43	3,15	2,96	2,87
D3-19.1Y	2	30	Qo			14645	11563	9125	7230	5779	4671	3806	3082
			Pe			4,71	4,06	3,58	3,23	2,98	2,8	2,64	2,48
		40	Qo			12595	9956	7889	6294	5071	4119	3339	2629
			Pe			5,23	4,57	4,06	3,67	3,37	3,11	2,87	2,62
		50	Qo				8487	6778	5469	4461	3652	2942	2232
			Pe				5,22	4,6	4,09	3,66	3,25	2,85	2,42
D4-19.1Y	1	30	Qo		18356	14582	11501	9028	7082	5580	4439	3577	2911
			Pe		4,72	4,24	3,82	3,46	3,15	2,92	2,75	2,65	2,63
		40	Qo		15352	12233	9709	7698	6118	4885	3918	3135	2451
			Pe		4,93	4,54	4,19	3,86	3,56	3,29	3,05	2,86	2,71
		50	Qo		12900	10359	8318	6694	5405	4368	3500	2719	1942
			Pe		5,57	5,2	4,82	4,44	4,05	3,67	3,28	2,91	2,54
Q4-20.1Y	2	30	Qo		18186	14492	11451	8988	7025	5490	4306	3397	2690
			Pe		4,44	3,9	3,45	3,07	2,75	2,49	2,29	2,15	2,05
		40	Qo		15564	12395	9804	7715	6054	4745	3713	2882	2178
			Pe		4,72	4,24	3,81	3,42	3,08	2,78	2,52	2,28	2,07
		50	Qo		13354	10653	8455	6686	5269	4130	3194	2384	1627
			Pe		5,26	4,76	4,29	3,85	3,42	3,02	2,62	2,23	1,84
Q4-21.1Y	2	30	Qo		20280	16033	12549	9738	7512	5780	4454	3444	2660
			Pe		4,56	4,07	3,64	3,26	2,93	2,65	2,42	2,24	2,11
		40	Qo		17091	13473	10531	8174	6315	4862	3728	2823	2057
			Pe		4,92	4,45	4,01	3,61	3,24	2,91	2,61	2,34	2,11
		50	Qo		14273	11229	8774	6817	5270	4043	3047	2192	1390
			Pe		5,41	4,9	4,41	3,93	3,48	3,04	2,62	2,22	1,83

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R449A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]									
				5	0	-5	-10	-15	-20	-25	-30	-35	-40
Q5-21.1Y	1	30	Qo	22793	18862	15425	12445	9885	7707	5874	4348	3091	2067
			Pe	3,71	3,76	3,71	3,56	3,35	3,06	2,73	2,36	1,96	1,55
		40	Qo	19609	16243	13303	10751	8550	6662	5049	3673	2499	1487
			Pe	4,59	4,53	4,37	4,12	3,8	3,42	2,99	2,53	2,04	1,54
		50	Qo	16409	13593	11134	8993	7133	5517	4107	2866	1756	740
			Pe	5,35	5,17	4,89	4,53	4,1	3,61	3,07	2,51	1,92	1,33
Q4-24.1Y	2	30	Qo	22480	17903	14130	11066	8617	6691	5193	4031	3110	
			Pe	5,43	4,77	4,2	3,73	3,34	3,02	2,76	2,56	2,41	
		40	Qo	18647	14855	11753	9250	7251	5662	4391	3344	2426	
			Pe	5,76	5,16	4,63	4,16	3,75	3,38	3,04	2,74	2,45	
		50	Qo	15483	12380	9858	7822	6178	4834	3696	2670	1663	
			Pe	6,36	5,76	5,19	4,66	4,15	3,66	3,18	2,69	2,2	
Q5-24.1Y	1	30	Qo	26192	21558	17542	14098	11179	8735	6721	5088	3789	2776
			Pe	4,5	4,47	4,33	4,1	3,81	3,48	3,13	2,78	2,45	2,17
		40	Qo	22635	18641	15189	12232	9722	7611	5852	4398	3200	2212
			Pe	5,55	5,36	5,09	4,74	4,34	3,92	3,49	3,08	2,71	2,4
		50	Qo	18974	15630	12751	10289	8197	6428	4933	3666	2579	1623
			Pe	6,53	6,19	5,77	5,29	4,79	4,27	3,76	3,28	2,86	2,51
Q4-25.1Y	2	30	Qo	23156	18416	14505	11326	8785	6785	5230	4026	3077	
			Pe	5,53	4,85	4,26	3,77	3,35	3,01	2,72	2,49	2,3	
		40	Qo	19374	15379	12110	9471	7365	5699	4375	3299	2374	
			Pe	5,88	5,25	4,68	4,18	3,72	3,31	2,93	2,58	2,24	
		50	Qo	16260	12925	10212	8027	6272	4854	3675	2641	1656	
			Pe	6,53	5,87	5,25	4,66	4,09	3,54	3	2,45	1,89	
Q5-25.1Y	2	30	Qo	26964	22206	18085	14554	11565	9071	7025	5377	4080	3088
			Pe	4,62	4,6	4,48	4,27	4	3,68	3,33	2,98	2,64	2,34
		40	Qo	23305	19220	15693	12674	10118	7975	6199	4741	3555	2591
			Pe	5,75	5,58	5,31	4,96	4,57	4,14	3,7	3,27	2,87	2,52
		50	Qo	19601	16182	13239	10726	8593	6794	5281	4006	2920	1978
			Pe	6,77	6,43	6	5,52	5	4,46	3,92	3,4	2,93	2,52
Q7-25.1Y	1	30	Qo	27972	22864	18461	14711	11561	8960	6857	5199	3934	3010
			Pe	4,78	4,75	4,6	4,35	4,04	3,69	3,33	3	2,72	2,53
		40	Qo	23829	19467	15729	12565	9923	7750	5995	4606	3531	2717
			Pe	5,84	5,64	5,33	4,96	4,54	4,11	3,7	3,34	3,06	2,88
		50	Qo	19949	16304	13205	10600	8437	6664	5230	4082	3169	2439
			Pe	6,77	6,4	5,96	5,47	4,96	4,47	4,02	3,64	3,37	3,23
Q5-28.1Y	2	30	Qo	26813	21405	16945	13321	10425	8146	6374	5000	3914	
			Pe	6,65	5,84	5,16	4,6	4,13	3,74	3,44	3,19	2,98	
		40	Qo	22421	17911	14221	11242	8864	6976	5469	4233	3158	
			Pe	6,93	6,24	5,63	5,1	4,62	4,18	3,78	3,4	3,02	
		50	Qo	18743	15034	12019	9588	7631	6037	4698	3504	2343	
			Pe	7,58	6,91	6,28	5,68	5,1	4,52	3,93	3,32	2,67	
Q7-28.1Y	1	30	Qo	30918	25559	20904	16899	13494	10634	8267	6341	4802	3599
			Pe	5,67	5,56	5,36	5,08	4,74	4,37	3,97	3,57	3,19	2,84
		40	Qo	26864	22240	18234	14793	11865	9397	7336	5630	4226	3071
			Pe	6,82	6,56	6,21	5,81	5,36	4,89	4,41	3,95	3,51	3,12
		50	Qo	22762	18863	15497	12610	10150	8064	6299	4803	3524	2408
			Pe	7,91	7,48	7	6,46	5,89	5,32	4,75	4,21	3,72	3,29
Q5-33.1Y	2	30	Qo	31575	24922	19585	15376	12107	9589	7633	6050	4653	
			Pe	7,71	6,84	6,08	5,43	4,89	4,44	4,08	3,8	3,59	
		40	Qo	27170	21337	16719	13129	10376	8273	6632	5263	3978	
			Pe	8,52	7,63	6,84	6,13	5,51	4,96	4,48	4,07	3,71	
		50	Qo	18621	14593	11490	9125	7308	5851	4566	3264		
			Pe	8,93	7,97	7,07	6,23	5,45	4,72	4,03	3,38		
Q7-33.1Y	1	30	Qo	35761	29527	24124	19491	15567	12293	9606	7445	5751	4462
			Pe	6,7	6,61	6,36	5,97	5,51	5,01	4,53	4,09	3,76	3,58
		40	Qo	31062	25700	21061	17085	13710	10876	8522	6588	5011	3733
			Pe	8,03	7,74	7,3	6,76	6,17	5,57	5,01	4,53	4,17	3,99
		50	Qo	26261	21770	17894	14573	11746	9353	7331	5621	4162	2892
			Pe	9,26	8,76	8,14	7,46	6,74	6,04	5,41	4,89	4,51	4,34
S5-33Y	2	30	Qo	34082	26371	20339	15734	12304	9797	7963	6549	5304	
			Pe	7,98	6,75	5,83	5,16	4,7	4,39	4,18	4,03	3,87	
		40	Qo	29578	22817	17590	13643	10726	8588	6976	5639	4325	
			Pe	8,77	7,65	6,78	6,12	5,61	5,19	4,83	4,47	4,05	
		50	Qo	20555	15908	12397	9770	7776	6163	4680	3074		
			Pe	9,29	8,26	7,38	6,59	5,85	5,11	4,31	3,4		
S7-33Y	1	30	Qo	35634	29399	24059	19526	15711	12525	9879	7685	5853	4295
			Pe	6,1	6,16	6,03	5,75	5,37	4,91	4,42	3,94	3,51	3,16
		40	Qo	31265	25867	21250	17325	14004	11196	8814	6769	4971	3332
			Pe	7,81	7,62	7,27	6,8	6,25	5,65	5,04	4,47	3,97	3,59
		50	Qo	26809	22234	18324	14991	12146	9701	7566	5653	3873	2137
			Pe	9,37	8,93	8,36	7,69	6,96	6,21	5,48	4,82	4,25	3,82

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R449A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]									
				5	0	-5	-10	-15	-20	-25	-30	-35	-40
Q7-36.1Y	1	30	Qo		35826	28633	22704	17890	14047	11028	8686	6874	5447
			Pe		8,87	7,81	6,9	6,14	5,51	5,01	4,61	4,3	4,07
		40	Qo		30029	23997	19064	15084	11908	9392	7389	5751	4334
			Pe		9,31	8,37	7,53	6,79	6,13	5,54	5,01	4,52	4,06
		50	Qo		25166	20170	16109	12834	10201	8062	6272	4683	3149
			Pe		10,22	9,27	8,38	7,54	6,73	5,94	5,16	4,37	3,56
S8-42Y	2	30	Qo		41031	32797	26017	20513	16111	12637	9913	7767	6022
			Pe		9,78	8,59	7,58	6,73	6,03	5,44	4,97	4,58	4,25
		40	Qo		34416	27551	21940	17406	13775	10872	8521	6548	4777
			Pe		10,16	9,13	8,22	7,41	6,68	6,02	5,41	4,82	4,23
		50	Qo		28538	22937	18390	14722	11758	9322	7239	5334	3432
			Pe		11	9,99	9,06	8,16	7,29	6,42	5,54	4,62	3,65
S12-42Y	1	30	Qo	44402	36689	29968	24171	19228	15069	11625	8828	6607	4892
			Pe	7,71	7,54	7,22	6,78	6,25	5,66	5,05	4,45	3,89	3,42
		40	Qo	38646	31862	25976	20916	16616	13004	10012	7570	5608	4059
			Pe	9,36	8,93	8,37	7,72	7	6,25	5,51	4,8	4,16	3,63
		50	Qo	32899	27030	21963	17627	13954	10874	8319	6217	4501	3101
			Pe	10,81	10,11	9,31	8,44	7,53	6,62	5,73	4,91	4,18	3,59
S10-52Y	2	30	Qo		49053	39000	30867	24397	19335	15427	12418	10051	8072
			Pe		11,76	10,49	9,35	8,34	7,46	6,72	6,12	5,65	5,34
		40	Qo		41719	33247	26451	21079	16874	13580	10944	8709	6621
			Pe		12,59	11,47	10,41	9,42	8,5	7,65	6,89	6,2	5,6
		50	Qo		35682	28591	22937	18463	14916	12039	9578	7277	4881
			Pe		14,14	12,99	11,84	10,7	9,57	8,46	7,36	6,28	5,22
S15-52Y	1	30	Qo	56669	46808	38355	31172	25120	20061	15856	12367	9454	6980
			Pe	9,48	9,5	9,24	8,77	8,15	7,44	6,7	6	5,39	4,94
		40	Qo	49779	41250	33946	27729	22460	18001	14213	10957	8095	5489
			Pe	11,94	11,58	11	10,25	9,39	8,49	7,61	6,8	6,15	5,69
		50	Qo	42729	35511	29335	24064	19557	15678	12286	9244	6413	3654
			Pe	14,19	13,45	12,53	11,5	10,4	9,31	8,28	7,38	6,67	6,21
S15-56Y	2	30	Qo		55188	43823	34619	27290	21549	17111	13689	10996	8747
			Pe		12,72	11,35	10,12	9,04	8,1	7,31	6,67	6,19	5,86
		40	Qo		46956	37356	29647	23543	18757	15003	11995	9447	7072
			Pe		13,48	12,28	11,14	10,09	9,11	8,22	7,41	6,68	6,03
		50	Qo		40114	32064	25634	20540	16494	13209	10401	7782	5067
			Pe		15,01	13,78	12,56	11,35	10,15	8,96	7,79	6,63	5,49
S20-56Y	1	30	Qo	62104	51350	42120	34267	27642	22099	17489	13665	10479	7784
			Pe	10,93	10,84	10,45	9,84	9,08	8,23	7,37	6,57	5,9	5,43
		40	Qo	54639	45328	37343	30536	24759	19864	15705	12133	9001	6161
			Pe	13,48	12,97	12,23	11,32	10,31	9,28	8,29	7,42	6,73	6,3
		50	Qo	46953	39071	32315	26540	21596	17336	13613	10279	7186	4186
			Pe	15,73	14,82	13,73	12,53	11,29	10,08	8,97	8,04	7,34	6,97
V15-59Y	2	30	Qo		56602	44977	35563	28069	22200	17663	14164	11410	9107
			Pe		13,98	12,42	11,02	9,79	8,72	7,82	7,08	6,52	6,12
		40	Qo		48146	38343	30473	24242	19358	15525	12452	9843	7406
			Pe		14,77	13,38	12,08	10,87	9,75	8,73	7,8	6,97	6,24
		50	Qo		41125	32922	26372	21182	17058	13707	10836	8150	5356
			Pe		16,36	14,94	13,54	12,15	10,79	9,45	8,13	6,84	5,58
V20-59Y	1	30	Qo	65382	53860	43872	35300	28029	21943	16926	12861	9633	7125
			Pe	10,88	10,86	10,56	10,04	9,36	8,58	7,76	6,95	6,21	5,59
		40	Qo	56942	46844	38121	30657	24336	19042	14658	11070	8160	5812
			Pe	13,52	13,09	12,42	11,58	10,63	9,61	8,59	7,62	6,76	6,08
		50	Qo	48203	39538	32090	25743	20382	15889	12149	9046	6463	4285
			Pe	15,78	14,94	13,92	12,75	11,51	10,26	9,04	7,91	6,95	6,19
V15-71Y	2	30	Qo		68254	53844	42339	33317	26353	21023	16905	13573	10604
			Pe		16,74	14,72	13	11,55	10,34	9,34	8,51	7,82	7,24
		40	Qo		58562	46142	36336	28720	22870	18362	14773	11679	8656
			Pe		18,38	16,4	14,66	13,13	11,78	10,58	9,5	8,5	7,55
		50	Qo				31799	25272	20220	16219	12843	9671	6277
			Pe				16,97	15,02	13,2	11,47	9,8	8,15	6,5
V25-71Y	1	30	Qo	79207	65167	53022	42626	33833	26499	20478	15623	11790	8832
			Pe	14,11	13,86	13,31	12,52	11,57	10,51	9,42	8,36	7,4	6,61
		40	Qo	68402	56250	45779	36841	29293	22989	17782	13528	10080	7293
			Pe	16,83	16,18	15,27	14,17	12,94	11,66	10,38	9,18	8,12	7,26
		50	Qo	57737	47423	38575	31046	24692	19367	14925	11221	8109	5443
			Pe	19,17	18,12	16,85	15,43	13,92	12,4	10,94	9,59	8,42	7,5
V20-84Y	2	30	Qo		79791	63790	50559	39782	31139	24316	18994	14856	11585
			Pe		19,92	17,48	15,39	13,62	12,16	10,96	9,99	9,23	8,64
		40	Qo		66555	53276	42396	33598	26565	20979	16524	12882	9736
			Pe		20,94	18,73	16,78	15,05	13,52	12,16	10,93	9,81	8,76
		50	Qo		54530	43810	35118	28137	22550	18040	14289	10980	7796
			Pe		22,69	20,5	18,47	16,57	14,76	13,01	11,3	9,6	7,86

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R449A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]									
				5	0	-5	-10	-15	-20	-25	-30	-35	-40
V30-84Y	1	30	Qo	93831	77537	63366	51167	40791	32086	24901	19087	14491	10965
			Pe	16,48	16,36	15,83	14,98	13,89	12,66	11,36	10,09	8,93	7,97
		40	Qo	81625	67398	55072	44497	35522	27997	21771	16693	12612	9378
			Pe	19,63	19,02	18,06	16,84	15,44	13,95	12,46	11,05	9,8	8,81
		50	Qo	69438	57266	46775	37812	30227	23871	18591	14238	10660	7707
			Pe	22,77	21,66	20,25	18,63	16,89	15,11	13,39	11,81	10,46	9,41
V25-93Y	2	30	Qo	88773	70800	55971	43918	34273	26667	20733	16103	12408	
			Pe	22,46	19,6	17,17	15,13	13,42	12,01	10,86	9,91	9,13	
		40	Qo	73741	58736	46458	36537	28607	22298	17242	13072	9419	
			Pe	22,77	20,31	18,15	16,24	14,52	12,97	11,53	10,16	8,82	
		50	Qo	61345	48965	38894	30762	24202	18846	14325	10271	6316	
			Pe	24,22	21,88	19,69	17,61	15,59	13,6	11,58	9,49	7,29	
V32-93Y	1	30	Qo	104116	85544	69432	55596	43855	34024	25921	19363	14167	10149
			Pe	18,47	18,17	17,45	16,41	15,14	13,71	12,22	10,75	9,39	8,22
		40	Qo	89914	73737	59764	47812	37698	29239	22253	16554	11962	8293
			Pe	21,99	21,07	19,82	18,3	16,6	14,83	13,05	11,36	9,84	8,58
		50	Qo	76064	62233	50350	40232	31696	24560	18640	13752	9715	6345
			Pe	25,03	23,5	21,7	19,7	17,59	15,46	13,39	11,48	9,81	8,46
V25-103Y	2	30	Qo	95904	77215	61646	48844	38455	30126	23502	18230	13956	
			Pe	25,49	22,65	20,08	17,79	15,8	14,12	12,77	11,75	11,08	
		40	Qo	66348	52911	41918	33018	25854	20075	15326	11253		
			Pe	24,33	21,98	19,78	17,75	15,9	14,25	12,81	11,59		
		50	Qo	45491	36031	28341	22067	16855	12351	8202			
			Pe	24,62	22,18	19,77	17,42	15,14	12,94	10,83			
V35-103Y	1	30	Qo	109599	90777	74475	60484	48597	38604	30297	23468	17908	13409
			Pe	21,4	21,07	20,18	18,86	17,25	15,49	13,73	12,11	10,76	9,83
		40	Qo	94890	78817	64911	52961	42760	34098	26769	20563	15271	10686
			Pe	26,72	25,49	23,83	21,87	19,74	17,6	15,58	13,82	12,46	11,64
		50	Qo	80982	67478	55784	45693	36996	29485	22951	17185	11980	7127
			Pe	31,53	29,42	27	24,41	21,78	19,26	16,98	15,1	13,74	13,05
Z25-106Y	2	30	Qo	105878	84283	66456	51963	40371	31249	24161	18676	14361	
			Pe	24,37	21,8	19,51	17,48	15,72	14,21	12,95	11,93	11,15	
		40	Qo	88872	70703	55832	43826	34251	26675	20665	15788	11611	
			Pe	26,14	23,74	21,51	19,44	17,53	15,77	14,16	12,68	11,34	
		50	Qo	74384	59316	47077	37232	29349	22996	17738	13144	8780	
			Pe	29,14	26,61	24,14	21,72	19,36	17,05	14,77	12,53	10,31	
Z35-106Y	1	30	Qo	120870	99548	81057	65199	51778	40594	31451	24150	18494	14285
			Pe	19,12	19,08	18,53	17,58	16,33	14,91	13,4	11,94	10,62	9,56
		40	Qo	104404	85928	69985	56376	44905	35372	27581	21334	16432	12679
			Pe	23,74	22,97	21,78	20,26	18,54	16,71	14,9	13,21	11,74	10,62
		50	Qo	88035	72398	58994	47626	38096	30206	23759	18556	14401	11094
			Pe	27,99	26,49	24,64	22,55	20,34	18,12	15,99	14,06	12,45	11,27
Z30-126Y	2	30	Qo	122172	97340	76848	60197	46889	36426	28307	22037	17116	
			Pe	27,58	24,5	21,8	19,46	17,46	15,79	14,4	13,28	12,41	
		40	Qo	101720	81041	64128	50483	39607	31002	24170	18612	13830	
			Pe	29,1	26,32	23,8	21,5	19,41	17,5	15,75	14,14	12,63	
		50	Qo	84350	67415	53673	42625	33773	26619	20664	15410	10358	
			Pe	32,1	29,28	26,59	23,98	21,45	18,96	16,5	14,03	11,54	
Z40-126Y	1	30	Qo	140414	115684	94196	75724	60046	46936	36169	27520	20766	15682
			Pe	23,14	23,06	22,38	21,22	19,72	18,02	16,23	14,5	12,96	11,74
		40	Qo	121985	100407	81744	65772	52265	41000	31752	24295	18406	13860
			Pe	28,42	27,43	25,94	24,08	22	19,81	17,66	15,66	13,96	12,69
		50	Qo	102766	84436	68695	55317	44078	34754	27121	20952	16024	12112
			Pe	32,82	30,95	28,7	26,18	23,55	20,92	18,43	16,21	14,39	13,11
W40-142Y	2	30	Qo	169325	139803	114333	92542	74057	58507	45519	34720	25739	18202
			Pe	26,15	26,67	26,34	25,34	23,83	21,98	19,95	17,91	16,02	14,44
		40	Qo	150410	124078	101452	82161	65831	52092	40570	30893	22688	15584
			Pe	33,63	32,99	31,63	29,73	27,45	24,95	22,41	19,98	17,83	16,13
		50	Qo	129008	106194	86742	70280	56436	44836	35110	26884	19786	13443
			Pe	39,99	38,25	35,93	33,19	30,21	27,14	24,15	21,4	19,06	17,3
Z40-154Y	2	30	Qo	149990	118514	93359	73611	58355	46677	37663	30399	23971	
			Pe	35,33	31,11	27,55	24,57	22,09	20,03	18,32	16,87	15,6	
		40	Qo	128005	101184	79975	63466	50742	40890	32994	26141	19417	
			Pe	39,16	34,94	31,27	28,09	25,31	22,85	20,63	18,58	16,6	
		50	Qo	87933	69908	55874	44919	36129	28587	21382	13599		
			Pe	40,83	36,37	32,3	28,52	24,97	21,56	18,2	14,84		
Z50-154Y	1	30	Qo	168861	139473	113914	91906	73167	57421	44387	33787	25341	18770
			Pe	30,2	29,52	28,23	26,46	24,34	22	19,56	17,16	14,92	12,98
		40	Qo	147409	121690	99399	80259	63990	50312	38948	29618	22042	15941
			Pe	36,48	34,84	32,69	30,15	27,35	24,43	21,51	18,72	16,2	14,06
		50	Qo	125174	103187	84229	68022	54287	42744	33114	25118	18477	12912
			Pe	41,92	39,31	36,28	32,97	29,49	25,98	22,57	19,39	16,57	14,23

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R449A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]									
				5	0	-5	-10	-15	-20	-25	-30	-35	-40
W40-168Y	2	30	Qo		163497	130492	103123	80728	62646	48214	36768	27649	20191
			Pe		37,43	32,73	28,92	25,84	23,3	21,11	19,11	17,11	14,93
		40	Qo		141552	112170	88045	68517	52921	40598	30882	23113	16629
			Pe		40,87	36,02	32	28,6	25,66	23	20,43	17,78	14,86
		50	Qo			96494	75387	58497	45161	34718	26505	19860	14120
			Pe			40,23	35,67	31,66	28,02	24,57	21,13	17,52	13,56
W50-168Y	1	30	Qo	191137	157475	128325	103346	82194	64529	50009	38292	29035	21898
			Pe	30,24	30,32	29,56	28,14	26,24	24,04	21,7	19,42	17,36	15,71
		40	Qo	166922	137671	112404	90779	72453	57084	44333	33854	25309	18353
			Pe	37,87	36,74	34,92	32,57	29,89	27,04	24,2	21,55	19,27	17,53
		50	Qo	141077	116413	95203	77107	61781	48884	38075	29011	21351	14752
			Pe	44,36	42,07	39,23	36,01	32,59	29,15	25,85	22,89	20,44	18,67
W50-187Y	2	30	Qo		181499	144781	114298	89346	69224	53229	40655	30803	22967
			Pe		41,12	36,08	31,87	28,36	25,42	22,9	20,68	18,62	16,58
		40	Qo		153600	122011	96021	74928	58028	44620	33999	25463	18308
			Pe		43,7	38,83	34,65	31,01	27,78	24,82	22,01	19,2	16,26
		50	Qo		129494	102656	80782	63170	49116	37918	28872	21275	14425
			Pe		47,55	42,53	38,05	33,95	30,11	26,4	22,66	18,78	14,62
W60-187Y	1	30	Qo	210160	172542	140116	112480	89233	69974	54300	41812	32106	24783
			Pe	35,09	34,68	33,43	31,51	29,13	26,49	23,77	21,17	18,88	17,11
		40	Qo	182382	149917	122018	98283	78312	61702	48053	36963	28031	20855
			Pe	43,07	41,32	38,89	35,95	32,71	29,36	26,1	23,12	20,62	18,79
		50	Qo	153577	126328	103019	83249	66617	52721	41160	31532	23437	16472
			Pe	49,85	46,8	43,22	39,3	35,23	31,22	27,45	24,13	21,44	19,58
W60-206Y	2	30	Qo		200035	160465	127432	100227	78143	60473	46507	35540	26862
			Pe		45,39	40,27	35,89	32,16	28,95	26,16	23,69	21,43	19,26
		40	Qo		170783	136404	107966	84761	66080	51218	39464	30112	22454
			Pe		48,83	43,7	39,2	35,23	31,68	28,44	25,41	22,47	19,53
		50	Qo		144775	115393	91355	71955	56484	44234	34498	26567	19735
			Pe		53,39	48	43,14	38,7	34,57	30,63	26,8	22,95	18,98
W70-206Y	1	30	Qo	228753	188709	154028	124296	99098	78020	60647	46563	35354	26606
			Pe	37,9	37,59	36,35	34,39	31,9	29,06	26,09	23,17	20,49	18,26
		40	Qo	199951	165015	134825	108967	87027	68588	53238	40561	30142	21566
			Pe	46,29	44,66	42,26	39,26	35,87	32,28	28,69	25,29	22,28	19,85
		50	Qo	170667	140843	115149	93170	74491	58698	45375	34109	24484	16085
			Pe	53,68	50,74	47,16	43,12	38,83	34,49	30,28	26,4	23,05	20,42
W70-228Y	2	30	Qo		215141	172869	137575	108511	84930	66084	51224	39604	30476
			Pe		49,51	43,86	39,05	34,96	31,47	28,45	25,79	23,36	21,04
		40	Qo		184684	147749	117185	92242	72174	56233	43670	33738	25691
			Pe		52,94	47,4	42,55	38,28	34,47	30,98	27,71	24,52	21,29
		50	Qo		158079	126246	100173	79115	62323	49050	38547	30068	22864
			Pe		57,97	52,23	47,03	42,27	37,81	33,54	29,33	25,07	20,62
W75-228Y	1	30	Qo	247958	204181	166282	133800	106270	83229	64212	48757	36399	26675
			Pe	43,46	42,63	40,86	38,36	35,31	31,91	28,36	24,85	21,58	18,74
		40	Qo	215747	177806	145034	116968	93144	73098	56367	42487	30994	21425
			Pe	52,33	50,1	47,09	43,48	39,47	35,27	31,06	27,04	23,41	20,36
		50	Qo	182252	150260	122728	99190	79185	62247	47915	35722	25207	15905
			Pe	59,9	56,29	52,04	47,34	42,39	37,39	32,54	28,02	24,04	20,78
W75-240Y	2	30	Qo		228894	183165	145098	113883	88712	68776	53264	41368	32280
			Pe		51,15	45,71	40,9	36,67	32,97	29,74	26,95	24,54	22,45
		40	Qo		195899	155950	123024	96310	75001	58287	45358	35407	27623
			Pe		55,67	49,95	44,8	40,17	36,02	32,29	28,93	25,89	23,12
		50	Qo		167262	132821	104763	82279	64560	50797	40180	31900	25150
			Pe		61,39	55,16	49,44	44,19	39,35	34,88	30,72	26,83	23,15
W80-240Y	1	30	Qo	256948	211774	172673	139178	110825	87147	67678	51953	39505	29869
			Pe	45,52	44,63	42,75	40,12	36,94	33,44	29,83	26,32	23,14	20,5
		40	Qo	224597	185047	150896	121680	96931	76184	58974	44834	33298	23900
			Pe	55,03	52,62	49,38	45,54	41,32	36,93	32,59	28,52	24,94	22,05
		50	Qo	191306	157416	128252	103350	82242	64462	49546	37027	26439	17317
			Pe	63,36	59,39	54,75	49,68	44,38	39,07	33,97	29,3	25,27	22,1

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R407F [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]								
				0	-5	-10	-15	-20	-25	-30	-35	-40
				A05-5Y	2	30	Qo	4498	3676	2967	2361	1844
Pe	1,008	0,965	0,902				0,822	0,731	0,634	0,537	0,443	0,359
40	Qo	3925	3181			2543	2000	1540	1150	820	537	289
	Pe	1,185	1,105			1,007	0,896	0,777	0,655	0,535	0,422	0,321
50	Qo	3343	2678			2113	1635	1233	894	608	362	
	Pe	1,316	1,201			1,071	0,931	0,786	0,641	0,501	0,371	
A07-6Y	2	30	Qo	5099	4189	3394	2705	2115	1614	1195	847	563
			Pe	1,122	1,075	1,01	0,931	0,841	0,744	0,643	0,543	0,446
		40	Qo	4469	3650	2937	2323	1797	1352	979	669	414
			Pe	1,329	1,243	1,141	1,029	0,909	0,784	0,66	0,538	0,423
		50	Qo	3832	3106	2477	1937	1477	1089	763	492	
			Pe	1,496	1,372	1,237	1,093	0,945	0,796	0,649	0,508	
A1-7Y	2	30	Qo	6492	5365	4369	3498	2745	2104	1567	1127	778
			Pe	1,419	1,36	1,278	1,178	1,065	0,944	0,818	0,692	0,57
		40	Qo	5725	4696	3791	3004	2328	1756	1282	897	597
			Pe	1,692	1,582	1,454	1,313	1,162	1,006	0,85	0,698	0,553
		50	Qo	4963	4033	3220	2518	1920	1418	1007	679	
			Pe	1,921	1,764	1,593	1,412	1,226	1,038	0,855	0,679	
A1.5-8Y	1	30	Qo	7263	6000	4888	3917	3079	2365	1768	1278	887
			Pe	1,561	1,504	1,418	1,311	1,188	1,055	0,918	0,783	0,657
		40	Qo	6400	5256	4252	3379	2629	1993	1464	1031	687
			Pe	1,874	1,759	1,621	1,466	1,301	1,13	0,962	0,8	0,652
		50	Qo	5533	4510	3617	2845	2186	1631	1172	799	
			Pe	2,143	1,972	1,784	1,584	1,378	1,173	0,975	0,789	
B1.5-9.1Y	2	30	Qo	8223	6773	5520	4444	3526	2747	2086	1524	1041
			Pe	1,772	1,705	1,604	1,477	1,332	1,177	1,019	0,866	0,727
		40	Qo	7300	5978	4841	3870	3045	2347	1756	1253	817
			Pe	2,14	2	1,835	1,651	1,456	1,258	1,065	0,885	0,726
		50	Qo	6335	5147	4133	3272	2547	1936	1422	983	
			Pe	2,458	2,25	2,023	1,785	1,544	1,308	1,084	0,88	
B1.5-10.1Y	2	30	Qo	9330	7692	6267	5038	3986	3091	2336	1701	1169
			Pe	2,051	1,961	1,837	1,688	1,522	1,345	1,166	0,992	0,83
		40	Qo	8251	6760	5472	4366	3425	2630	1961	1401	930
			Pe	2,5	2,326	2,127	1,91	1,683	1,454	1,23	1,019	0,829
		50	Qo	7167	5826	4675	3694	2865	2170	1589	1105	
			Pe	2,896	2,641	2,368	2,085	1,8	1,521	1,255	1,01	
D2-11.1Y	1	30	Qo	10364	8467	6844	5465	4299	3318	2491	1788	1180
			Pe	2,23	2,129	1,987	1,813	1,618	1,41	1,201	0,998	0,813
		40	Qo	9105	7384	5920	4684	3645	2774	2041	1416	869
			Pe	2,674	2,481	2,256	2,008	1,747	1,482	1,223	0,981	0,764
		50	Qo	7873	6322	5013	3914	2997	2231	1587	1034	
			Pe	3,036	2,757	2,453	2,135	1,812	1,493	1,19	0,911	
D2-13.1Y	2	30	Qo	12275	10089	8191	6554	5155	3968	2967	2128	1426
			Pe	2,668	2,555	2,393	2,191	1,962	1,716	1,465	1,221	0,995
		40	Qo	10795	8810	7096	5628	4380	3327	2444	1706	1088
			Pe	3,196	2,982	2,727	2,442	2,137	1,825	1,516	1,222	0,955
		50	Qo	9315	7531	6002	4701	3604	2685	1920	1283	
			Pe	3,625	3,317	2,976	2,612	2,239	1,866	1,505	1,168	
D2-15.1Y	2	30	Qo	14210	11719	9545	7663	6045	4665	3496	2511	1684
			Pe	3,138	3,004	2,809	2,568	2,295	2,003	1,706	1,418	1,153
		40	Qo	12541	10264	8289	6588	5137	3907	2873	2007	1284
			Pe	3,746	3,499	3,201	2,866	2,507	2,138	1,773	1,426	1,111
		50	Qo	10872	8809	7032	5515	4230	3151	2252	1505	
			Pe	4,224	3,875	3,483	3,062	2,627	2,191	1,767	1,369	
D3-16.1Y	2	30	Qo	15333	12614	10260	8236	6509	5045	3811	2772	1896
			Pe	3,31	3,175	2,979	2,738	2,464	2,171	1,873	1,583	1,315
		40	Qo	13529	11058	8930	7113	5572	4275	3186	2273	1503
			Pe	3,979	3,72	3,412	3,07	2,706	2,333	1,967	1,619	1,304
		50	Qo	11728	9505	7604	5994	4641	3510	2568	1782	
			Pe	4,541	4,167	3,755	3,318	2,871	2,427	2	1,602	
D3-18.1Y	2	30	Qo	16522	13643	11137	8971	7112	5528	4185	3049	2088
			Pe	3,63	3,478	3,26	2,99	2,686	2,361	2,031	1,712	1,419
		40	Qo	14634	11997	9716	7758	6090	4679	3491	2493	1653
			Pe	4,345	4,067	3,733	3,358	2,958	2,548	2,143	1,76	1,413
		50	Qo	12751	10358	8303	6553	5076	3838	2806	1947	
			Pe	4,927	4,533	4,094	3,624	3,14	2,656	2,188	1,751	
D3-19.1Y	2	30	Qo	17410	14391	11761	9485	7529	5860	4443	3244	2229
			Pe	3,871	3,705	3,467	3,175	2,846	2,497	2,144	1,804	1,495
		40	Qo	15434	12663	10265	8203	6445	4956	3701	2648	1761
			Pe	4,616	4,323	3,969	3,569	3,142	2,703	2,27	1,86	1,49
		50	Qo	13473	10951	8784	6936	5375	4065	2973	2064	
			Pe	5,202	4,797	4,34	3,848	3,336	2,823	2,326	1,86	

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R407F [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]								
				0	-5	-10	-15	-20	-25	-30	-35	-40
Q4-20.1Y	2	30	Qo	18289	14902	12005	9545	7473	5737	4287	3072	2042
			Pe	3,849	3,691	3,458	3,168	2,837	2,484	2,126	1,781	1,465
		40	Qo	15995	12941	10343	8151	6314	4782	3503	2426	1502
			Pe	4,585	4,275	3,904	3,491	3,051	2,604	2,167	1,757	1,392
		50	Qo	13702	10986	8694	6775	5179	3856	2753	1821	
			Pe	5,184	4,732	4,233	3,706	3,168	2,636	2,13	1,665	
Q4-21.1Y	2	30	Qo	19608	16071	13013	10388	8154	6265	4676	3343	2222
			Pe	4,215	4,028	3,761	3,432	3,059	2,662	2,258	1,866	1,505
		40	Qo	17194	13976	11213	8860	6871	5203	3811	2651	1677
			Pe	5,039	4,688	4,271	3,807	3,314	2,812	2,318	1,851	1,429
		50	Qo	14779	11886	9423	7345	5607	4165	2975	1991	
			Pe	5,697	5,193	4,637	4,049	3,447	2,851	2,277	1,745	
Q4-24.1Y	2	30	Qo	22469	18446	14983	12022	9507	7381	5588	4069	2769
			Pe	4,841	4,637	4,331	3,95	3,517	3,06	2,603	2,172	1,791
		40	Qo	19621	15986	12878	10238	8011	6140	4566	3235	2089
			Pe	5,848	5,433	4,939	4,392	3,816	3,237	2,681	2,173	1,739
		50	Qo	16820	13575	10822	8506	6567	4951	3600	2458	
			Pe	6,686	6,074	5,404	4,703	3,996	3,309	2,667	2,095	
Q5-25.1Y	2	30	Qo	22876	18743	15185	12146	9569	7397	5574	4042	2747
			Pe	4,823	4,628	4,344	3,989	3,584	3,15	2,705	2,269	1,864
		40	Qo	20134	16370	13151	10419	8119	6193	4585	3238	2096
			Pe	5,827	5,424	4,953	4,434	3,886	3,329	2,783	2,269	1,806
		50	Qo	17399	14008	11131	8711	6691	5015	3626	2468	
			Pe	6,679	6,08	5,433	4,759	4,079	3,41	2,775	2,192	
Q5-28.1Y	2	30	Qo	26123	21451	17399	13913	10939	8422	6310	4546	3078
			Pe	5,491	5,282	4,967	4,569	4,11	3,613	3,099	2,592	2,113
		40	Qo	22947	18701	15042	11915	9267	7043	5190	3652	2377
			Pe	6,6	6,168	5,652	5,075	4,458	3,825	3,198	2,599	2,049
		50	Qo	19771	15957	12697	9936	7620	5696	4108	2803	
			Pe	7,535	6,89	6,184	5,438	4,674	3,916	3,185	2,504	
Q5-33.1Y	2	30	Qo	30722	25257	20530	16473	13018	10095	7635	5571	3832
			Pe	6,385	6,14	5,792	5,358	4,858	4,311	3,735	3,149	2,572
		40	Qo	27088	22119	17848	14208	11130	8544	6383	4577	3057
			Pe	7,65	7,171	6,609	5,983	5,313	4,616	3,912	3,219	2,556
		50	Qo	23461	18993	15184	11967	9271	7029	5172	3630	
			Pe	8,705	8,008	7,25	6,45	5,626	4,797	3,981	3,199	
S5-33Y	2	30	Qo	30898	24947	19917	15705	12208	9321	6942	4966	3291
			Pe	6,101	5,779	5,396	4,957	4,467	3,933	3,36	2,754	2,121
		40	Qo	26735	21484	17059	13358	10278	7714	5563	3721	2086
			Pe	7,324	6,763	6,155	5,507	4,824	4,111	3,376	2,624	1,859
		50	Qo	22655	18089	14256	11053	8375	6120	4183	2463	
			Pe	8,369	7,57	6,74	5,886	5,012	4,125	3,231	2,334	
Q7-36.1Y	1	30	Qo	33655	27539	22318	17891	14161	11027	8392	6154	4216
			Pe	6,963	6,711	6,339	5,869	5,326	4,731	4,109	3,48	2,87
		40	Qo	29616	24090	19401	15451	12139	9367	7035	5045	3296
			Pe	8,385	7,855	7,231	6,537	5,796	5,03	4,263	3,518	2,817
		50	Qo	25567	20641	16495	13030	10146	7745	5727	3992	
			Pe	9,614	8,82	7,959	7,055	6,131	5,21	4,314	3,467	
S8-42Y	2	30	Qo	39640	32107	25725	20367	15905	12210	9155	6612	4452
			Pe	7,825	7,45	6,978	6,422	5,797	5,114	4,387	3,628	2,852
		40	Qo	34413	27680	22009	17270	13336	10078	7370	5082	3087
			Pe	9,404	8,709	7,945	7,124	6,26	5,365	4,453	3,536	2,629
		50	Qo	29298	23374	18420	14308	10910	8097	5743	3719	
			Pe	10,808	9,807	8,764	7,691	6,6	5,506	4,422	3,36	
S10-52Y	2	30	Qo	48634	39219	31264	24606	19080	14522	10767	7651	5010
			Pe	9,446	8,98	8,382	7,673	6,874	6,008	5,095	4,158	3,217
		40	Qo	41976	33619	26593	20732	15872	11849	8498	5656	3157
			Pe	11,195	10,348	9,399	8,372	7,287	6,167	5,032	3,904	2,805
		50	Qo	35488	28181	22073	17000	12797	9300	6344	3765	
			Pe	12,674	11,463	10,183	8,857	7,505	6,15	4,812	3,513	
S15-56Y	2	30	Qo	54118	43815	35083	27750	21642	16586	12408	8935	5994
			Pe	10,595	10,199	9,553	8,721	7,767	6,755	5,749	4,814	4,012
		40	Qo	46981	37812	30076	23601	18212	13736	10000	6831	4055
			Pe	12,629	11,79	10,745	9,56	8,297	7,021	5,796	4,686	3,755
		50	Qo	40001	31958	25210	19583	14905	11001	7699	4826	
			Pe	14,321	13,082	11,682	10,185	8,656	7,159	5,757	4,515	
V15-59Y	2	30	Qo	56642	45707	36541	28919	22616	17405	13061	9359	6073
			Pe	11,18	10,568	9,82	8,972	8,058	7,113	6,171	5,269	4,44
		40	Qo	49544	39685	31477	24696	19114	14507	10650	7315	4279
			Pe	13,088	12,111	11,031	9,883	8,701	7,521	6,377	5,304	4,337
		50	Qo	42528	33772	26549	20635	15802	11826	8481	5542	
			Pe	14,71	13,404	12,028	10,616	9,203	7,824	6,513	5,305	

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R407F [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]								
				0	-5	-10	-15	-20	-25	-30	-35	-40
V15-71Y	2	30	Qo	69338	56168	45040	35722	27981	21585	16301	11895	8137
			Pe	13,793	13,018	12,11	11,099	10,018	8,897	7,766	6,658	5,603
		40	Qo	60834	48960	38989	30690	23828	18173	13490	9547	6113
			Pe	16,303	15,057	13,725	12,336	10,923	9,516	8,146	6,844	5,642
		50	Qo	52345	41824	33067	25843	19918	15060	11036	7613	
			Pe	18,517	16,843	15,129	13,405	11,703	10,053	8,487	7,035	
V20-84Y	2	30	Qo	83519	67748	54460	43355	34133	26495	20143	14777	10097
			Pe	16,824	15,837	14,739	13,548	12,285	10,968	9,617	8,253	6,894
		40	Qo	73505	59290	47385	37489	29306	22534	16875	12029	7698
			Pe	20,074	18,499	16,871	15,208	13,53	11,856	10,206	8,6	7,057
		50	Qo	63514	50908	40439	31808	24716	18863	13951	9680	
			Pe	23,036	20,916	18,799	16,706	14,655	12,666	10,759	8,952	
V25-93Y	2	30	Qo	90015	72682	58129	46008	35972	27673	20763	14894	9718
			Pe	17,716	16,721	15,522	14,17	12,72	11,226	9,74	8,316	7,008
		40	Qo	78669	63058	50038	39263	30385	23056	16927	11651	6881
			Pe	20,774	19,213	17,494	15,669	13,793	11,919	10,1	8,39	6,842
		50	Qo	67426	53582	42143	32759	25084	18770	13469	8834	
			Pe	23,371	21,293	19,103	16,854	14,601	12,396	10,293	8,346	
V25-103Y	2	30	Qo	100541	81686	65778	52456	41358	32123	24389	17795	11979
			Pe	19,973	18,908	17,639	16,216	14,689	13,107	11,52	9,978	8,529
		40	Qo	89017	71846	57454	45478	35557	27329	20434	14508	9192
			Pe	23,81	22,068	20,185	18,211	16,195	14,186	12,235	10,391	8,702
		50	Qo	-	61948	49149	38597	29931	22789	16810	11632	
			Pe	-	24,858	22,414	19,94	17,487	15,104	12,84	10,745	
Z25-106Y	2	30	Qo	103691	84092	67567	53740	42233	32670	24675	17870	11879
			Pe	20,72	19,493	18,141	16,678	15,119	13,479	11,774	10,017	8,224
		40	Qo	91507	73683	58754	46343	36075	27572	20458	14356	8890
			Pe	24,683	22,727	20,714	18,658	16,575	14,48	12,386	10,311	8,267
		50	Qo	79204	63231	49976	39061	30110	22746	16592	11271	
			Pe	28,167	25,533	22,91	20,313	17,757	15,256	12,827	10,483	
Z30-126Y	2	30	Qo	120978	99206	80465	64454	50873	39422	29799	21705	14840
			Pe	24,679	23,546	22,016	20,196	18,189	16,1	14,034	12,096	10,391
		40	Qo	106169	86634	69888	55629	43556	33370	24770	17454	11124
			Pe	29,394	27,423	25,13	22,619	19,996	17,364	14,829	12,496	10,468
		50	Qo	-	73957	59274	46834	36338	27485	19975	13507	
			Pe	-	30,754	27,771	24,644	21,477	18,376	15,445	12,789	
Z40-154Y	2	30	Qo	149627	122889	99856	80159	63430	49300	37400	27362	18818
			Pe	30,32	29,026	27,252	25,125	22,767	20,307	17,868	15,576	13,557
		40	Qo	131640	107564	86917	69329	54432	41857	31236	22199	14379
			Pe	35,892	33,645	31,001	28,087	25,027	21,947	18,973	16,23	13,843
		50	Qo	113255	91974	73845	58498	45565	34677	25466	17563	
			Pe	40,713	37,612	34,198	30,597	26,934	23,335	19,925	16,83	

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R407A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]								
				0	-5	-10	-15	-20	-25	-30	-35	-40
A05-5Y	2	30	Qo	4294	3506	2820	2228	1721	1292	934	639	399
			Pe	0,954	0,911	0,851	0,778	0,695	0,607	0,516	0,426	0,34
		40	Qo	3706	3005	2396	1872	1425	1048	732	471	256
			Pe	1,109	1,032	0,941	0,84	0,731	0,62	0,508	0,4	0,3
		50	Qo	3113	2499	1969	1515	1130	805	534	308	
			Pe	1,222	1,114	0,995	0,867	0,736	0,604	0,474	0,351	
A07-6Y	2	30	Qo	4845	3980	3221	2563	1997	1517	1116	786	521
			Pe	1,064	1,02	0,959	0,884	0,798	0,706	0,61	0,515	0,424
		40	Qo	4206	3436	2763	2181	1682	1260	906	615	379
			Pe	1,25	1,17	1,075	0,969	0,856	0,739	0,621	0,506	0,398
		50	Qo	3560	2887	2302	1798	1367	1003	699	447	
			Pe	1,398	1,284	1,158	1,024	0,885	0,745	0,608	0,476	
A1-7Y	2	30	Qo	6169	5088	4134	3300	2581	1970	1460	1046	721
			Pe	1,343	1,288	1,211	1,117	1,01	0,894	0,774	0,655	0,54
		40	Qo	5386	4417	3566	2825	2187	1648	1201	838	554
			Pe	1,592	1,491	1,372	1,239	1,096	0,949	0,801	0,657	0,521
		50	Qo	4603	3748	2999	2351	1797	1330	944	634	
			Pe	1,796	1,653	1,494	1,326	1,151	0,975	0,802	0,637	
A1.5-8Y	1	30	Qo	6904	5693	4627	3699	2900	2221	1655	1191	824
			Pe	1,479	1,42	1,339	1,239	1,125	1,002	0,875	0,747	0,623
		40	Qo	6025	4948	4003	3182	2476	1877	1377	968	640
			Pe	1,759	1,649	1,52	1,377	1,225	1,068	0,911	0,758	0,614
		50	Qo	5137	4196	3373	2661	2051	1535	1104	750	
			Pe	1,996	1,836	1,663	1,48	1,292	1,104	0,921	0,746	
B1.5-9.1Y	2	30	Qo	8070	6613	5358	4285	3376	2610	1968	1429	976
			Pe	1,727	1,661	1,564	1,443	1,304	1,155	1,001	0,85	0,709
		40	Qo	7045	5742	4626	3677	2877	2204	1640	1165	759
			Pe	2,073	1,939	1,78	1,605	1,419	1,229	1,042	0,865	0,704
		50	Qo	6029	4880	3904	3079	2387	1808	1322	910	
			Pe	2,369	2,17	1,955	1,729	1,5	1,274	1,058	0,859	
B1.5-10.1Y	2	30	Qo	8857	7320	5962	4772	3745	2871	2142	1551	1089
			Pe	1,932	1,845	1,73	1,592	1,438	1,275	1,108	0,943	0,787
		40	Qo	7752	6375	5162	4104	3194	2422	1782	1265	863
			Pe	2,329	2,168	1,986	1,787	1,58	1,369	1,161	0,963	0,78
		50	Qo	6647	5431	4365	3439	2647	1980	1429	988	
			Pe	2,673	2,441	2,194	1,939	1,681	1,426	1,181	0,953	
D2-11.1Y	1	30	Qo	9971	8137	6558	5211	4069	3111	2310	1642	1084
			Pe	2,105	2,008	1,875	1,714	1,533	1,34	1,142	0,949	0,767
		40	Qo	8682	7029	5615	4416	3407	2564	1863	1279	787
			Pe	2,5	2,32	2,112	1,883	1,642	1,396	1,154	0,924	0,713
		50	Qo	7405	5933	4685	3635	2759	2032	1431	930	
			Pe	2,82	2,562	2,283	1,992	1,696	1,403	1,121	0,859	
D2-13.1Y	2	30	Qo	11667	9606	7788	6202	4834	3674	2710	1930	1322
			Pe	2,518	2,406	2,251	2,063	1,851	1,623	1,389	1,158	0,939
		40	Qo	10146	8303	6684	5276	4068	3048	2205	1527	1001
			Pe	2,993	2,789	2,55	2,285	2,004	1,715	1,427	1,151	0,894
		50	Qo	8631	7007	5587	4359	3312	2435	1714	1139	
			Pe	3,374	3,085	2,768	2,433	2,089	1,746	1,412	1,096	
D2-15.1Y	2	30	Qo	13505	11158	9077	7251	5669	4320	3193	2277	1562
			Pe	2,962	2,828	2,643	2,419	2,165	1,894	1,617	1,345	1,089
		40	Qo	11785	9673	7807	6177	4772	3581	2593	1797	1182
			Pe	3,509	3,273	2,994	2,683	2,351	2,009	1,67	1,343	1,04
		50	Qo	10072	8196	6547	5115	3888	2857	2009	1335	
			Pe	3,931	3,604	3,24	2,853	2,452	2,05	1,657	1,285	
D3-16.1Y	2	30	Qo	14568	12024	9776	7812	6118	4680	3484	2517	1765
			Pe	3,126	2,996	2,812	2,587	2,332	2,059	1,779	1,504	1,245
		40	Qo	12715	10438	8435	6691	5194	3929	2883	2041	1392
			Pe	3,73	3,488	3,202	2,885	2,547	2,201	1,858	1,53	1,227
		50	Qo	10866	8859	7102	5582	4283	3194	2299	1586	
			Pe	4,227	3,882	3,503	3,102	2,691	2,281	1,883	1,51	
D3-18.1Y	2	30	Qo	15699	13005	10612	8509	6685	5128	3826	2769	1944
			Pe	3,428	3,282	3,077	2,825	2,541	2,238	1,928	1,626	1,344
		40	Qo	13752	11325	9177	7299	5677	4301	3158	2239	1531
			Pe	4,074	3,814	3,503	3,156	2,784	2,403	2,025	1,662	1,33
		50	Qo	11812	9654	7754	6102	4685	3492	2512	1733	
			Pe	4,586	4,224	3,82	3,389	2,943	2,496	2,06	1,65	
D3-19.1Y	2	30	Qo	16542	13718	11207	8997	7077	5436	4063	2947	2075
			Pe	3,656	3,496	3,273	3	2,693	2,367	2,035	1,713	1,415
		40	Qo	14503	11954	9695	7717	6008	4555	3349	2378	1631
			Pe	4,328	4,054	3,724	3,354	2,958	2,549	2,144	1,757	1,402
		50	Qo	12480	10207	8204	6459	4961	3699	2661	1837	
			Pe	4,842	4,469	4,05	3,598	3,127	2,653	2,19	1,753	

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R407A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]								
				0	-5	-10	-15	-20	-25	-30	-35	-40
Q4-20.1Y	2	30	Qo	17446	14306	11544	9143	7084	5348	3917	2772	1894
			Pe	3,692	3,528	3,296	3,01	2,687	2,343	1,992	1,65	1,334
		40	Qo	15094	12298	9849	7730	5921	4403	3159	2169	1416
			Pe	4,378	4,078	3,72	3,321	2,896	2,461	2,032	1,625	1,254
		50	Qo	12777	10326	8191	6354	4795	3497	2440	1606	
			Pe	4,918	4,491	4,019	3,518	3,002	2,489	1,993	1,53	
Q4-21.1Y	2	30	Qo	18624	15310	12388	9841	7650	5795	4257	3019	2060
			Pe	3,977	3,796	3,543	3,235	2,888	2,517	2,137	1,765	1,417
		40	Qo	16141	13181	10583	8328	6397	4772	3434	2363	1542
			Pe	4,72	4,389	4	3,569	3,112	2,644	2,181	1,739	1,334
		50	Qo	13670	11068	8796	6837	5170	3779	2642	1743	
			Pe	5,298	4,83	4,317	3,776	3,221	2,669	2,134	1,634	
Q4-24.1Y	2	30	Qo	21421	17515	14160	11301	8885	6856	5161	3744	2552
			Pe	4,577	4,376	4,083	3,721	3,313	2,882	2,452	2,044	1,682
		40	Qo	18540	15047	12068	9548	7432	5667	4198	2970	1929
			Pe	5,494	5,101	4,636	4,122	3,582	3,04	2,518	2,039	1,626
		50	Qo	15745	12664	10059	7876	6061	4558	3314	2274	
			Pe	6,252	5,681	5,058	4,406	3,749	3,11	2,51	1,974	
Q5-25.1Y	2	30	Qo	21809	17797	14352	11418	8943	6871	5148	3719	2531
			Pe	4,559	4,368	4,095	3,758	3,376	2,967	2,547	2,135	1,75
		40	Qo	19025	15408	12324	9716	7532	5716	4214	2972	1935
			Pe	5,473	5,092	4,649	4,162	3,648	3,126	2,614	2,129	1,689
		50	Qo	16288	13069	10346	8067	6175	4617	3338	2283	
			Pe	6,244	5,686	5,085	4,459	3,827	3,205	2,612	2,066	
Q5-28.1Y	2	30	Qo	24794	20400	16536	13172	10281	7833	5800	4152	2862
			Pe	5,198	5,005	4,707	4,327	3,888	3,412	2,922	2,442	1,994
		40	Qo	21554	17616	14170	11185	8634	6488	4718	3294	2189
			Pe	6,195	5,801	5,322	4,779	4,197	3,597	3,003	2,438	1,925
		50	Qo	18331	14856	11833	9234	7028	5189	3687	2493	
			Pe	7,013	6,431	5,783	5,09	4,377	3,666	2,98	2,342	
Q5-33.1Y	2	30	Qo	29141	24048	19552	15626	12242	9371	6987	5062	3568
			Pe	6,01	5,832	5,511	5,078	4,569	4,015	3,451	2,91	2,425
		40	Qo	25420	20870	16868	13388	10401	7881	5798	4126	2836
			Pe	7,187	6,785	6,26	5,646	4,976	4,284	3,602	2,965	2,405
		50	Qo	21719	17715	14211	11180	8595	6427	4649	3233	
			Pe	8,16	7,552	6,842	6,065	5,253	4,44	3,659	2,944	
S5-33Y	2	30	Qo	29339	23652	18862	14861	11539	8788	6499	4562	2868
			Pe	5,902	5,553	5,141	4,678	4,176	3,649	3,109	2,569	2,042
		40	Qo	25518	20356	16046	12479	9546	7139	5147	3463	1977
			Pe	6,995	6,406	5,776	5,117	4,442	3,763	3,093	2,446	1,833
		50	Qo	21727	17105	13291	10174	7646	5598	3921	2506	
			Pe	7,902	7,085	6,248	5,405	4,567	3,747	2,959	2,215	
Q7-36.1Y	1	30	Qo	32129	26241	21204	16930	13331	10317	7800	5691	3901
			Pe	6,613	6,365	6,001	5,543	5,016	4,444	3,849	3,257	2,69
		40	Qo	28048	22782	18305	14527	11361	8717	6507	4642	3033
			Pe	7,934	7,425	6,825	6,158	5,447	4,718	3,992	3,294	2,648
		50	Qo	23962	19329	15422	12152	9430	7167	5275	3665	
			Pe	9,057	8,306	7,491	6,634	5,759	4,892	4,054	3,27	
S8-42Y	2	30	Qo	37619	30482	24448	19387	15168	11660	8733	6255	4096
			Pe	7,604	7,193	6,694	6,124	5,501	4,843	4,168	3,494	2,84
		40	Qo	32970	26467	21015	16484	12743	9660	7106	4949	3058
			Pe	9,083	8,366	7,59	6,772	5,932	5,087	4,255	3,454	2,702
		50	Qo	28322	22478	17632	13655	10416	7783	5625	3813	
			Pe	10,382	9,374	8,338	7,29	6,248	5,232	4,259	3,347	
S10-52Y	2	30	Qo	46247	37312	29767	23449	18195	13843	10229	7190	4564
			Pe	9,189	8,666	8,033	7,311	6,524	5,697	4,851	4,011	3,199
		40	Qo	40139	32070	25310	19698	15069	11262	8113	5460	3139
			Pe	10,8	9,918	8,959	7,945	6,9	5,848	4,811	3,814	2,879
		50	Qo	34104	26916	20958	16067	12080	8834	6166	3914	
			Pe	12,152	10,93	9,664	8,377	7,093	5,836	4,628	3,493	
S15-56Y	2	30	Qo	51060	41271	33030	26146	20428	15686	11727	8363	5400
			Pe	10,219	9,665	8,989	8,215	7,369	6,476	5,559	4,645	3,758
		40	Qo	44641	35742	28314	22166	17106	12944	9490	6551	3938
			Pe	12,131	11,179	10,141	9,043	7,91	6,765	5,635	4,543	3,515
		50	Qo	38285	30297	23702	18310	13929	10369	7439	4947	
			Pe	13,766	12,439	11,063	9,663	8,265	6,892	5,57	4,324	
V15-59Y	2	30	Qo	52718	42689	34224	27122	21181	16199	11974	8305	4989
			Pe	10,718	10,045	9,288	8,463	7,588	6,68	5,755	4,831	3,925
		40	Qo	46111	36959	29305	22947	17682	13310	9627	6433	3526
			Pe	12,46	11,449	10,378	9,267	8,131	6,987	5,853	4,746	3,683
		50	Qo	39644	31386	24558	18959	14386	10639	7514	4811	
			Pe	13,936	12,606	11,244	9,866	8,49	7,132	5,81	4,541	

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R407A [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]								
				0	-5	-10	-15	-20	-25	-30	-35	-40
V15-71Y	2	30	Qo	64324	52213	41983	33391	26196	20156	15028	10571	6542
			Pe	13,223	12,408	11,488	10,485	9,424	8,327	7,218	6,119	5,055
		40	Qo	56463	45409	36154	28456	22073	16764	12286	8398	4857
			Pe	15,499	14,26	12,95	11,593	10,212	8,829	7,47	6,156	4,91
		50	Qo	48770	38789	30527	23740	18188	13627	9817	6515	
			Pe	17,489	15,852	14,178	12,492	10,816	9,175	7,59	6,086	
V20-84Y	2	30	Qo	77523	63117	50940	40706	32127	24918	18791	13459	8636
			Pe	16,257	15,284	14,181	12,98	11,714	10,413	9,111	7,837	6,625
		40	Qo	68364	55206	44183	35005	27387	21042	15682	11021	6772
			Pe	19,266	17,762	16,176	14,54	12,885	11,243	9,646	8,127	6,715
		50	Qo	59402	47514	37663	29562	22923	17461	12889	8918	
			Pe	22,008	20,004	17,966	15,925	13,912	11,96	10,1	8,365	
V25-93Y	2	30	Qo	83775	67876	54440	43153	33699	25766	19039	13203	7944
			Pe	17,011	15,946	14,741	13,425	12,026	10,572	9,093	7,615	6,169
		40	Qo	73250	58755	46614	36513	28139	21176	15311	10229	5616
			Pe	19,794	18,189	16,485	14,71	12,895	11,066	9,252	7,482	5,785
		50	Qo	62943	49875	39053	30163	22891	16922	11943	7639	
			Pe	22,149	20,035	17,865	15,666	13,466	11,295	9,18	7,151	
V25-103Y	2	30	Qo	92862	75511	60841	48508	38170	29482	22103	15689	9898
			Pe	19,18	18,057	16,762	15,336	13,823	12,265	10,706	9,188	7,754
		40	Qo	81678	65844	52573	41522	32349	24709	18261	12661	7565
			Pe	22,61	20,875	19,017	17,08	15,106	13,139	11,22	9,394	7,702
		50	Qo	70731	56437	44590	34846	26861	20294	14800	10037	
			Pe	25,671	23,352	20,961	18,541	16,135	13,787	11,538	9,432	
Z25-106Y	2	30	Qo	96462	78330	63001	50116	39318	30249	22551	15866	9836
			Pe	19,887	18,608	17,229	15,762	14,215	12,598	10,92	9,191	7,421
		40	Qo	84652	68112	54251	42711	33135	25165	18443	12610	7310
			Pe	23,427	21,487	19,504	17,488	15,447	13,391	11,33	9,273	7,23
		50	Qo	73090	58166	45799	35630	27302	20456	14735	9780	
			Pe	26,553	23,98	21,419	18,88	16,372	13,905	11,488	9,131	
Z30-126Y	2	30	Qo	112190	92124	74797	59922	47211	36376	27130	19185	12253
			Pe	23,665	22,452	20,889	19,07	17,087	15,032	12,999	11,081	9,369
		40	Qo	97936	79858	64348	51119	39881	30349	22234	15248	9105
			Pe	27,86	25,894	23,636	21,18	18,616	16,039	13,542	11,215	9,154
		50	Qo	83938	67859	54177	42603	32851	24632	17659	11644	
			Pe	31,52	28,845	25,937	22,886	19,787	16,731	13,812	11,122	
Z40-154Y	2	30	Qo	138311	113672	92396	74128	58516	45205	33842	24072	15542
			Pe	29,136	27,744	25,926	23,793	21,455	19,024	16,612	14,329	12,288
		40	Qo	120932	98731	79682	63431	49625	37909	27930	19334	11767
			Pe	34,134	31,883	29,269	26,404	23,397	20,362	17,408	14,647	12,191
		50	Qo	103867	84116	67307	53084	41096	30987	22404	14993	
			Pe	38,509	35,459	32,109	28,571	24,956	21,374	17,938	14,759	

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R407C [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				12,5	10	5	0	-5	-10	-15	-20	-25	-30	-35
A05-4Y	1	30	Qo	5204	4733	3881	3143	2510	1973	1524	1153	853		
			Pe	0,61	0,64	0,67	0,69	0,69	0,68	0,66	0,63	0,60		
		40	Qo	4478	4057	3301	2649	2093	1625	1236	916	658		
			Pe	0,83	0,83	0,83	0,81	0,79	0,75	0,70	0,66	0,61		
		50	Qo	3757	3389	2729	2166	1689	1292	964	697	482		
			Pe	1,01	1,00	0,96	0,91	0,86	0,79	0,73	0,67	0,61		
A07-5Y	1	30	Qo	6667	6042	4920	3957	3140	2454	1888	1426	1056		
			Pe	0,83	0,85	0,86	0,85	0,83	0,79	0,74	0,69	0,63		
		40	Qo	5695	5147	4168	3332	2627	2038	1552	1157	838		
			Pe	1,12	1,11	1,07	1,02	0,96	0,88	0,81	0,73	0,66		
		50	Qo	4722	4252	3417	2710	2117	1627	1224	896	629		
			Pe	1,36	1,32	1,24	1,15	1,05	0,95	0,86	0,76	0,68		
A1-6Y	1	30	Qo	7352	6673	5447	4389	3484	2721	2086	1566	1148		
			Pe	0,88	0,92	0,95	0,95	0,93	0,88	0,81	0,74	0,66		
		40	Qo	6335	5731	4646	3715	2923	2260	1711	1264	906		
			Pe	1,20	1,20	1,17	1,12	1,05	0,97	0,87	0,78	0,69		
		50	Qo	5311	4785	3844	3044	2371	1812	1354	984	690		
			Pe	1,46	1,43	1,35	1,26	1,15	1,04	0,92	0,81	0,72		
A1.5-7Y	1	30	Qo	9393	8552	7033	5717	4589	3631	2828	2163	1622		
			Pe	1,26	1,27	1,28	1,26	1,21	1,15	1,08	0,99	0,91		
		40	Qo	8196	7447	6097	4932	3938	3097	2393	1811	1334		
			Pe	1,63	1,61	1,56	1,48	1,39	1,29	1,18	1,07	0,96		
		50	Qo	6990	6333	5156	4147	3291	2571	1971	1475	1067		
			Pe	1,95	1,90	1,79	1,66	1,53	1,39	1,25	1,12	0,99		
A1.5-8Y	1	30	Qo	10504	9541	7809	6318	5050	3983	3098	2374	1793		
			Pe	1,42	1,43	1,43	1,39	1,34	1,26	1,17	1,08	0,98		
		40	Qo	9098	8246	6721	5417	4313	3391	2628	2007	1506		
			Pe	1,84	1,81	1,73	1,64	1,52	1,40	1,28	1,15	1,04		
		50	Qo	7754	7013	5692	4572	3631	2849	2207	1684	1261		
			Pe	2,21	2,14	2,00	1,85	1,68	1,52	1,37	1,22	1,09		
B2-10.1Y	1	30	Qo	12924	11811	9805	8070	6579	5308	4231	3322	2556		
			Pe	1,99	2,01	1,99	1,92	1,82	1,69	1,54	1,38	1,23		
		40	Qo	11328	10348	8584	7057	5743	4615	3648	2817	2096		
			Pe	2,54	2,50	2,40	2,26	2,09	1,90	1,70	1,51	1,34		
		50	Qo	9688	8843	7324	6009	4874	3892	3039	2289	1616		
			Pe	3,01	2,93	2,75	2,54	2,31	2,08	1,85	1,64	1,45		
D2-11.1Y	1	30	Qo	15698	14338	11885	9764	7943	6392	5079	3975	3049		
			Pe	2,39	2,40	2,37	2,29	2,16	2,01	1,83	1,64	1,45		
		40	Qo	13737	12536	10373	8504	6897	5521	4346	3342	2477		
			Pe	3,06	3,01	2,87	2,68	2,47	2,25	2,01	1,78	1,56		
		50	Qo	11741	10702	8832	7218	5827	4631	3597	2695	1894		
			Pe	3,65	3,54	3,29	3,02	2,74	2,45	2,16	1,89	1,65		
D3-13.1Y	1	30	Qo	17792	16261	13502	11116	9066	7315	5829	4569	3501		
			Pe	2,88	2,85	2,75	2,62	2,45	2,26	2,05	1,85	1,65		
		40	Qo	15678	14315	11862	9742	7918	6356	5017	3867	2868		
			Pe	3,51	3,41	3,20	2,96	2,71	2,46	2,21	1,98	1,77		
		50	Qo	13515	12320	10175	8323	6729	5356	4168	3129	2202		
			Pe	4,05	3,90	3,59	3,27	2,95	2,64	2,36	2,12	1,91		
D3-15.1Y	1	30	Qo	20498	18714	15503	12732	10359	8338	6627	5182	3960		
			Pe	2,92	2,94	2,93	2,85	2,72	2,55	2,35	2,14	1,92		
		40	Qo	17961	16382	13546	11101	9003	7209	5674	4356	3211		
			Pe	3,77	3,71	3,56	3,35	3,12	2,85	2,59	2,32	2,07		
		50	Qo	15375	14004	11544	9426	7606	6039	4683	3493	2426		
			Pe	4,56	4,43	4,13	3,81	3,47	3,13	2,79	2,48	2,21		
D4-16.1Y	1	30	Qo	22082	20163	16708	13725	11168	8990	7143	5582	4259		
			Pe	3,35	3,36	3,33	3,23	3,08	2,87	2,64	2,39	2,14		
		40	Qo	19384	17682	14622	11983	9717	7778	6119	4694	3455		
			Pe	4,23	4,16	3,99	3,76	3,49	3,19	2,88	2,58	2,29		
		50	Qo	16622	15139	12478	10185	8215	6519	5052	3766	2615		
			Pe	5,01	4,87	4,56	4,21	3,84	3,46	3,09	2,74	2,43		
D4-18.1Y	1	30	Qo	24487	22369	18561	15278	12468	10079	8056	6347	4899		
			Pe	3,24	3,29	3,32	3,27	3,15	2,99	2,79	2,58	2,36		
		40	Qo	21537	19661	16293	13393	10908	8785	6971	5414	4060		
			Pe	4,22	4,19	4,07	3,89	3,66	3,41	3,14	2,87	2,62		
		50	Qo	18507	16876	13953	11441	9286	7436	5836	4435	3180		
			Pe	5,13	5,02	4,76	4,47	4,14	3,81	3,48	3,17	2,90		
Q5-21.1Y	1	30	Qo	28126	25635	21127	17210	13839	10968	8553	6547	4906		
			Pe	3,16	3,30	3,46	3,48	3,38	3,18	2,93	2,63	2,31		
		40	Qo	24501	22289	18297	14845	11887	9379	7274	5528	4095		
			Pe	4,42	4,44	4,37	4,19	3,92	3,59	3,22	2,83	2,46		
		50	Qo	20801	18878	15426	12462	9941	7818	6047	4583	3380		
			Pe	5,53	5,43	5,16	4,80	4,39	3,94	3,48	3,04	2,63		

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.








All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.



Semi-hermetic reciprocating compressors

Performance R407C [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				12,5	10	5	0	-5	-10	-15	-20	-25	-30	-35
Q5-24.1Y		30	Qo	31934	29099	23984	19559	15769	12555	9859	7626	5797		
			Pe	3,62	3,78	3,96	3,98	3,87	3,66	3,38	3,05	2,70		
		40	Qo	27692	25196	20709	16844	13546	10757	8419	6475	4868		
			Pe	5,16	5,17	5,08	4,86	4,55	4,16	3,74	3,31	2,89		
		50	Qo	23622	21459	17586	14269	11451	9073	7079	5412	4014		
			Pe	6,48	6,35	6,01	5,58	5,08	4,56	4,02	3,50	3,04		
Q7-25.1Y		30	Qo	32170	29401	24381	20005	16219	12972	10209	7876	5921		
			Pe	4,20	4,27	4,33	4,29	4,16	3,96	3,70	3,40	3,06		
		40	Qo	28243	25767	21286	17392	14029	11146	8687	6601	4832		
			Pe	5,59	5,54	5,39	5,15	4,85	4,49	4,10	3,67	3,24		
		50	Qo	24378	22195	18257	14845	11907	9388	7236	5397	3817		
			Pe	6,83	6,68	6,32	5,90	5,44	4,93	4,41	3,87	3,35		
Q7-28.1Y		30	Qo	37384	34121	28217	23091	18678	14913	11738	9083	6887		
			Pe	4,99	5,04	5,04	4,95	4,76	4,50	4,18	3,79	3,37		
		40	Qo	32608	29743	24571	20092	16241	12955	10170	7822	5848		
			Pe	6,41	6,35	6,15	5,87	5,51	5,09	4,62	4,10	3,56		
		50	Qo	27977	25502	21046	17197	13891	11066	8656	6599	4830		
			Pe	7,71	7,54	7,15	6,69	6,16	5,58	4,96	4,32	3,66		
Q7-33.1Y		30	Qo	43662	39906	33062	27070	21886	17465	13763	10736	8339		
			Pe	6,30	6,30	6,21	6,00	5,70	5,32	4,90	4,46	4,01		
		40	Qo	37663	34447	28597	23486	19068	15299	12136	9533	7446		
			Pe	7,81	7,72	7,43	7,05	6,58	6,06	5,50	4,93	4,37		
		50	Qo	32202	29478	24527	20201	16454	13242	10521	8246	6373		
			Pe	9,37	9,16	8,67	8,08	7,43	6,73	6,02	5,30	4,60		
S7-33Y		30	Qo	46476	42420	35119	28818	23419	18825	14939	11665	8904		
			Pe	5,37	5,50	5,64	5,63	5,48	5,22	4,87	4,46	4,01		
		40	Qo	40884	37264	30760	25157	20358	16265	12782	9810	7254		
			Pe	7,38	7,38	7,24	6,98	6,60	6,13	5,60	5,02	4,42		
		50	Qo	35130	31954	26264	21377	17194	13618	10553	7902	5567		
			Pe	9,31	9,16	8,76	8,24	7,63	6,95	6,23	5,48	4,73		
Q7-36.1Y		30	Qo	48203	44197	36887	30472	24900	20121	16083	12735	10026		
			Pe	7,08	7,01	6,79	6,51	6,17	5,78	5,36	4,91	4,44		
		40	Qo	42089	38590	32224	26656	21835	17710	14231	11345	9002		
			Pe	8,97	8,78	8,35	7,86	7,32	6,75	6,14	5,52	4,90		
		50	Qo	36565	33520	27989	23159	18981	15402	12372	9840	7755		
			Pe	10,86	10,54	9,87	9,14	8,37	7,58	6,77	5,95	5,14		
S12-42Y		30	Qo	58017	53096	44113	36214	29324	23369	18274	13966	10369		
			Pe	7,73	7,73	7,60	7,32	6,92	6,41	5,83	5,21	4,56		
		40	Qo	50828	46363	38238	31121	24938	19614	15076	11248	8057		
			Pe	9,83	9,64	9,16	8,56	7,87	7,11	6,31	5,49	4,68		
		50	Qo	43521	39530	32294	25991	20547	15888	11938	8624	5871		
			Pe	11,66	11,30	10,48	9,58	8,62	7,62	6,61	5,62	4,67		
S15-52Y		30	Qo	70801	64647	53564	43993	35789	28805	22896	17917	13721		
			Pe	8,70	8,84	8,92	8,78	8,44	7,96	7,36	6,70	6,01		
		40	Qo	62309	56826	46968	38468	31180	24959	19659	15134	11239		
			Pe	11,59	11,50	11,15	10,62	9,93	9,15	8,29	7,42	6,55		
		50	Qo	53577	48775	40166	32761	26414	20980	16312	12266	8696		
			Pe	14,29	13,97	13,20	12,29	11,28	10,20	9,10	8,02	7,00		
S20-56Y		30	Qo	77910	71213	59146	48720	39776	32159	25710	20273	15690		
			Pe	9,68	9,83	9,90	9,73	9,36	8,84	8,21	7,51	6,79		
		40	Qo	68920	62939	52182	42901	34939	28138	22343	17395	13139		
			Pe	12,76	12,66	12,27	11,70	10,98	10,16	9,28	8,39	7,54		
		50	Qo	59589	54342	44931	36831	29886	23939	18833	14410	10515		
			Pe	15,60	15,26	14,45	13,50	12,47	11,38	10,29	9,25	8,29		
V20-59Y		30	Qo	77608	70945	58859	48320	39202	31378	24720	19103	14399		
			Pe	10,01	10,14	10,21	10,05	9,68	9,16	8,50	7,73	6,90		
		40	Qo	67988	62040	51277	41918	33835	26901	20991	15976	11730		
			Pe	13,16	13,03	12,60	11,99	11,22	10,32	9,34	8,30	7,23		
		50	Qo	58530	53298	43859	35680	28633	22591	17428	13017	9230		
			Pe	15,95	15,57	14,67	13,64	12,48	11,25	9,97	8,67	7,39		
V25-71Y		30	Qo	93977	85755	70894	58014	46958	37571	29695	23175	17854		
			Pe	12,11	12,24	12,27	12,02	11,55	10,9	10,12	9,25	8,34		
		40	Qo	81686	74479	61498	50299	40726	32622	25831	20196	15562		
			Pe	15,93	15,72	15,13	14,33	13,37	12,31	11,18	10,04	8,94		
		50	Qo	70261	64036	52872	43289	35134	28249	22477	17663	13651		
			Pe	19,37	18,86	17,7	16,41	15,03	13,62	12,21	10,86	9,61		
V30-84Y		30	Qo	115528	105739	87987	72515	59132	47652	37885	29644	22738		
			Pe	14,22	14,41	14,50	14,26	13,74	12,98	12,04	10,95	9,77		
		40	Qo	102008	93210	77290	63447	51492	41238	32495	25075	18790		
			Pe	18,72	18,54	17,96	17,10	16,01	14,74	13,34	11,86	10,34		
		50	Qo	88378	80580	66510	54315	43806	34796	27095	20516	14869		
			Pe	22,70	22,17	20,94	19,48	17,85	16,10	14,27	12,41	10,58		

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.









To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R407C [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				12,5	10	5	0	-5	-10	-15	-20	-25	-30	-35
				V32-93Y 	1	30	Qo	128091	117027	96959	79461	64323	51334	40282
Pe	16,20	16,32	16,27				15,85	15,12	14,12	12,91	11,55	10,08		
40	Qo	112689	102729			84699	69015	55466	43842	33930	25521	18402		
	Pe	20,91	20,64			19,85	18,74	17,38	15,82	14,10	12,28	10,41		
50	Qo	97201	88355			72387	58540	46604	36368	27621	20151	13748		
	Pe	25,01	24,36			22,85	21,09	19,12	17,01	14,80	12,55	10,32		
V35-103Y	1	30	Qo	139768	127899	106297	87381	70951	56813	44768	34621	26173		
			Pe	16,19	16,81	17,43	17,37	16,77	15,77	14,54	13,21	11,95		
		40	Qo	124224	113374	93705	76580	61802	49173	38498	29579	22218		
			Pe	22,47	22,46	21,94	20,88	19,45	17,78	16,03	14,34	12,87		
		50	Qo	107236	97494	79935	64779	51829	40888	31760	24246	18150		
			Pe	27,97	27,35	25,74	23,76	21,55	19,27	17,06	15,07	13,45		
Z35-106Y 	1	30	Qo	146457	133580	110314	90162	72882	58231	45964	35840	27614		
			Pe	16,40	16,90	17,39	17,29	16,70	15,74	14,51	13,14	11,72		
		40	Qo	127556	116089	95456	77690	62545	49780	39151	30415	23328		
			Pe	22,72	22,61	22,00	20,92	19,50	17,85	16,07	14,28	12,58		
		50	Qo	108960	98921	80957	65609	52634	41790	32833	25519	19607		
			Pe	28,20	27,54	25,91	23,97	21,82	19,57	17,34	15,24	13,37		
Z40-126Y 	1	30	Qo	171216	156424	129601	106229	86034	68739	54068	41746	31497		
			Pe	19,98	20,40	20,76	20,53	19,80	18,65	17,17	15,45	13,57		
		40	Qo	149873	136771	113057	92437	74633	59370	46372	35364	26070		
			Pe	27,04	26,85	26,05	24,78	23,11	21,13	18,93	16,60	14,21		
		50	Qo	127713	116347	95837	78061	62743	49606	38375	28776	20530		
			Pe	33,35	32,56	30,65	28,37	25,81	23,04	20,16	17,25	14,40		
W40-142Y 	1	30	Qo	199701	182220	150560	123035	99320	79093	62030	47809	36105		
			Pe	24,65	25,21	25,78	25,67	25,00	23,87	22,39	20,66	18,78		
		40	Qo	175042	159452	131303	106930	86009	68217	53230	40724	30378		
			Pe	32,57	32,42	31,67	30,38	28,67	26,63	24,38	22,01	19,63		
		50	Qo	151152	137452	112814	91593	73465	58107	45195	34405	25416		
			Pe	39,60	38,79	36,82	34,46	31,81	28,97	26,05	23,15	20,39		
Z50-154Y 	1	30	Qo	209564	191549	158874	130388	105744	84598	66603	51416	38690		
			Pe	27,67	27,79	27,54	26,72	25,42	23,70	21,66	19,38	16,95		
		40	Qo	182691	166718	137823	112708	91028	72438	56591	43144	31751		
			Pe	35,62	35,05	33,51	31,51	29,14	26,48	23,61	20,62	17,58		
		50	Qo	156770	142826	117682	95911	77166	61103	47377	35642	25553		
			Pe	42,61	41,39	38,64	35,56	32,22	28,71	25,11	21,50	17,97		
W50-168Y	1	30	Qo	234600	214261	177378	145228	117420	93559	73255	56115	41746		
			Pe	27,34	27,86	28,27	27,94	26,98	25,47	23,53	21,25	18,75		
		40	Qo	205892	187707	154806	126205	101512	80334	62279	46955	33969		
			Pe	36,35	36,13	35,17	33,58	31,47	28,94	26,09	23,02	19,84		
		50	Qo	177870	161842	132930	107885	86315	67827	52029	38528	26933		
			Pe	44,34	43,43	41,18	38,42	35,25	31,78	28,11	24,34	20,57		
W60-187Y	1	30	Qo	258495	236185	195711	160415	129872	103657	81344	62510	46729		
			Pe	30,40	30,83	31,09	30,63	29,52	27,84	25,69	23,14	20,27		
		40	Qo	228189	208166	171913	140365	113097	89684	69702	52725	38329		
			Pe	39,91	39,61	38,48	36,71	34,39	31,60	28,42	24,93	21,22		
		50	Qo	196412	178789	146982	119408	95642	75258	57832	42939	30154		
			Pe	48,32	47,31	44,82	41,79	38,30	34,43	30,26	25,87	21,36		
W70-206Y 	1	30	Qo	284549	259978	215437	176628	143070	114281	89779	69081	51706		
			Pe	36,26	36,56	36,48	35,58	33,98	31,80	29,15	26,15	22,91		
		40	Qo	250481	228461	188640	154043	124189	98594	76778	58258	42552		
			Pe	46,55	45,99	44,30	41,92	38,99	35,60	31,89	27,96	23,92		
		50	Qo	217121	197662	162582	132218	106087	83708	64599	48277	34261		
			Pe	55,66	54,30	51,09	47,34	43,17	38,68	34,00	29,24	24,51		
W75-228Y 	1	30	Qo	302664	276804	229922	189072	153749	123448	97667	75900	57644		
			Pe	38,78	39,24	39,34	38,48	36,80	34,46	31,60	28,38	24,95		
		40	Qo	267390	244188	202218	165741	134253	107250	84228	64682	48109		
			Pe	50,10	49,55	47,77	45,22	42,04	38,39	34,42	30,28	26,12		
		50	Qo	232468	211940	174915	142845	115226	91553	71324	54033	39176		
			Pe	60,06	58,58	55,08	51,00	46,50	41,72	36,81	31,92	27,20		
W80-240Y 	1	30	Qo	329627	301013	249200	204160	165356	132253	104315	81006	61791		
			Pe	42,99	43,02	42,42	41,04	38,99	36,41	33,42	30,15	26,72		
		40	Qo	292621	266820	220223	179852	145171	115645	90737	69913	52635		
			Pe	54,27	53,42	51,16	48,26	44,85	41,05	36,99	32,79	28,59		
		50	Qo	253254	230441	189410	154058	123850	98250	76723	58732	43743		
			Pe	64,38	62,68	58,84	54,50	49,80	44,85	39,79	34,74	29,83		

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R22 [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				10	5	0	-5	-10	-15	-20	-25	-30	-35	-40
A05-4Y	1	30	Qo	4657	3878	3196	2604	2095	1661	1296	991	739	534	368
			Pe	0,60	0,64	0,66	0,65	0,64	0,61	0,57	0,53	0,47	0,42	0,37
		40	Qo	4124	3422	2809	2279	1825	1439	1114	843	618	433	279
			Pe	0,82	0,82	0,80	0,76	0,72	0,66	0,60	0,54	0,47	0,41	0,35
		50	Qo	3588	2962	2420	1953	1555	1217	934	698	500	335	195
			Pe	1,06	1,01	0,95	0,88	0,80	0,72	0,63	0,55	0,46	0,39	0,31
A05-5Y	2	30	Qo				3265	2634	2098	1647	1272	961	705	493
			Pe				0,81	0,78	0,75	0,70	0,64	0,57	0,50	0,43
		40	Qo				2867	2300	1821	1419	1084	807	578	385
			Pe				0,98	0,91	0,84	0,75	0,67	0,58	0,50	0,42
		50	Qo				2471	1967	1545	1192	900	658	455	282
			Pe				1,15	1,04	0,93	0,81	0,70	0,59	0,48	0,39
A07-5Y	1	30	Qo	5801	4839	3997	3266	2637	2101	1648	1270	956	699	489
			Pe	0,73	0,78	0,80	0,80	0,78	0,74	0,69	0,64	0,57	0,51	0,44
		40	Qo	5125	4263	3511	2861	2303	1828	1426	1090	809	574	377
			Pe	1,02	1,02	1,00	0,95	0,90	0,83	0,75	0,66	0,58	0,50	0,42
		50	Qo	4440	3680	3020	2451	1966	1553	1205	912	665	455	272
			Pe	1,35	1,29	1,21	1,12	1,02	0,91	0,80	0,69	0,58	0,48	0,39
A07-6Y	2	30	Qo				3601	2905	2315	1819	1407	1067	788	558
			Pe				0,89	0,87	0,82	0,76	0,69	0,62	0,54	0,46
		40	Qo				3161	2535	2006	1565	1199	898	649	442
			Pe				1,09	1,01	0,93	0,83	0,74	0,64	0,54	0,45
		50	Qo				2733	2174	1706	1317	996	731	512	326
			Pe				1,28	1,16	1,03	0,90	0,77	0,64	0,53	0,42
A1-6Y	1	30	Qo	6473	5401	4462	3647	2945	2347	1841	1419	1070	783	548
			Pe	0,81	0,86	0,89	0,89	0,87	0,83	0,78	0,71	0,65	0,57	0,50
		40	Qo	5742	4776	3933	3204	2578	2045	1596	1219	905	644	425
			Pe	1,11	1,11	1,09	1,05	0,99	0,91	0,83	0,74	0,65	0,57	0,48
		50	Qo	5008	4148	3403	2760	2211	1745	1352	1022	745	510	307
			Pe	1,45	1,39	1,31	1,22	1,12	1,00	0,89	0,77	0,65	0,54	0,45
A1-7Y	2	30	Qo				4655	3779	3035	2409	1886	1452	1092	794
			Pe				1,13	1,11	1,06	0,99	0,91	0,82	0,72	0,63
		40	Qo				4124	3337	2671	2112	1646	1258	934	660
			Pe				1,40	1,32	1,22	1,11	0,99	0,87	0,74	0,63
		50	Qo				3600	2900	2310	1817	1406	1062	772	522
			Pe				1,67	1,53	1,38	1,22	1,06	0,90	0,75	0,61
A1.5-7Y	1	30	Qo	8294	6938	5754	4727	3844	3090	2452	1915	1466	1090	
			Pe	1,02	1,09	1,12	1,13	1,11	1,07	1,01	0,94	0,86	0,78	
		40	Qo	7423	6197	5129	4206	3413	2736	2162	1677	1266	916	
			Pe	1,40	1,41	1,39	1,34	1,27	1,19	1,10	1,00	0,90	0,80	
		50	Qo	6545	5449	4498	3679	2977	2379	1870	1436	1064	740	
			Pe	1,83	1,77	1,68	1,57	1,46	1,33	1,20	1,06	0,93	0,80	
A1.5-8Y	1	30	Qo	9460	7883	6517	5342	4340	3492	2778	2179	1676	1251	883
			Pe	1,22	1,31	1,34	1,34	1,31	1,24	1,16	1,06	0,94	0,83	0,71
		40	Qo	8437	7011	5781	4727	3832	3075	2438	1902	1448	1055	706
			Pe	1,70	1,70	1,67	1,60	1,50	1,39	1,26	1,12	0,97	0,83	0,70
		50	Qo	7409	6133	5039	4107	3319	2655	2096	1623	1216	858	528
			Pe	2,20	2,12	2,01	1,87	1,71	1,54	1,36	1,17	0,99	0,82	0,67
B1.5-9.1Y	2	30	Qo		9243	7656	6291	5127	4142	3315	2623	2045	1560	1144
			Pe		1,56	1,61	1,61	1,57	1,49	1,39	1,26	1,13	0,99	0,85
		40	Qo		8211	6781	5557	4517	3640	2903	2286	1766	1321	931
			Pe		2,05	2,00	1,92	1,80	1,66	1,50	1,33	1,16	0,99	0,83
		50	Qo		7193	5917	4830	3911	3138	2489	1943	1477	1071	702
			Pe		2,54	2,40	2,23	2,04	1,83	1,62	1,40	1,18	0,98	0,80
B1.5-10.1Y	2	30	Qo				7064	5753	4645	3717	2943	2297	1756	1294
			Pe				1,79	1,76	1,68	1,57	1,43	1,28	1,12	0,95
		40	Qo				6273	5088	4091	3259	2566	1986	1496	1070
			Pe				2,15	2,04	1,89	1,72	1,53	1,33	1,13	0,93
		50	Qo				5505	4440	3548	2806	2188	1669	1224	829
			Pe				2,49	2,30	2,09	1,85	1,61	1,36	1,12	0,90
B2-10.1Y	1	30	Qo	12391	10394	8648	7131	5821	4695	3732	2910	2207		
			Pe	1,61	1,76	1,84	1,88	1,85	1,79	1,67	1,52	1,32		
		40	Qo	11006	9210	7645	6290	5122	4121	3263	2526	1890		
			Pe	2,16	2,21	2,21	2,16	2,06	1,92	1,75	1,53	1,28		
		50	Qo	9611	8019	6639	5450	4430	3556	2807	2161	1596		
			Pe	2,67	2,63	2,54	2,41	2,24	2,03	1,79	1,51	1,22		
D2-11.1Y	1	30	Qo	13995	11703	9703	7970	6479	5206	4126	3214	2446	1797	
			Pe	1,96	2,10	2,16	2,16	2,09	1,97	1,82	1,63	1,43	1,22	
		40	Qo	12465	10417	8635	7094	5770	4637	3671	2848	2142	1529	
			Pe	2,54	2,57	2,54	2,44	2,29	2,10	1,88	1,65	1,40	1,15	
		50	Qo	10971	9164	7595	6242	5079	4082	3226	2486	1838	1257	
			Pe	3,06	3,00	2,88	2,71	2,49	2,24	1,97	1,69	1,41	1,14	

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R22 [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				10	5	0	-5	-10	-15	-20	-25	-30	-35	-40
D2-13.1Y	2	30	Qo		13960	11610	9586	7843	6354	5091	4023	3120	2352	1688
			Pe		2,29	2,42	2,47	2,44	2,35	2,21	2,02	1,79	1,54	1,28
		40	Qo		12330	10250	8444	6899	5581	4458	3502	2681	1967	1329
			Pe		2,92	2,94	2,88	2,76	2,58	2,36	2,09	1,80	1,49	1,17
		50	Qo		10730	8891	7310	5956	4799	3810	2958	2213	1545	924,5
			Pe		3,51	3,43	3,27	3,05	2,79	2,48	2,14	1,77	1,40	1,03
D3-13.1Y	1	30	Qo	16798	14042	11649	9585	7817	6310	5030	3944	3016		
			Pe	2,16	2,32	2,40	2,40	2,34	2,22	2,06	1,86	1,64		
		40	Qo	14946	12470	10325	8477	6893	5537	4377	3378	2506		
			Pe	2,82	2,87	2,84	2,74	2,59	2,39	2,16	1,90	1,63		
		50	Qo	13109	10907	9004	7366	5960	4750	3703	2786	1963		
			Pe	3,46	3,40	3,26	3,08	2,84	2,58	2,28	1,97	1,66		
D2-15.1Y	2	30	Qo				10648	8679	7017	5620	4451	3468	2632	1903
			Pe				2,75	2,70	2,59	2,42	2,21	1,96	1,69	1,41
		40	Qo				9420	7647	6154	4902	3852	2964	2197	1512
			Pe				3,25	3,10	2,88	2,62	2,32	2,00	1,66	1,32
		50	Qo				8227	6637	5303	4185	3243	2437	1729	1077
			Pe				3,69	3,43	3,12	2,77	2,39	1,99	1,59	1,20
D3-15.1Y	1	30	Qo		15745	13055	10737	8752	7065	5637	4432	3413	2541	
			Pe		2,60	2,71	2,74	2,69	2,58	2,42	2,22	1,99	1,74	
		40	Qo		14003	11585	9505	7727	6213	4926	3829	2885	2057	
			Pe		3,27	3,26	3,18	3,03	2,83	2,58	2,30	2,01	1,70	
		50	Qo		12277	10124	8276	6697	5350	4198	3202	2327	1535	
			Pe		3,91	3,78	3,59	3,34	3,04	2,72	2,37	2,01	1,64	
D3-16.1Y	2	30	Qo		16561	13803	11418	9370	7621	6134	4870	3792	2862	2042
			Pe		2,65	2,79	2,83	2,79	2,67	2,50	2,28	2,02	1,74	1,45
		40	Qo		14642	12191	10077	8262	6710	5382	4240	3247	2366	1557
			Pe		3,43	3,43	3,34	3,19	2,96	2,69	2,38	2,05	1,70	1,34
		50	Qo		12747	10596	8745	7157	5794	4618	3591	2676	1835	1030
			Pe		4,17	4,04	3,83	3,55	3,22	2,85	2,45	2,03	1,60	1,18
D4-16.1Y	1	30	Qo	20075	16846	14041	11621	9543	7767	6252	4955	3837		
			Pe	2,50	2,72	2,84	2,88	2,83	2,73	2,56	2,35	2,09		
		40	Qo	17834	14949	12449	10294	8441	6849	5478	4286	3231		
			Pe	3,35	3,43	3,42	3,33	3,18	2,97	2,72	2,42	2,10		
		50	Qo	15556	13021	10831	8945	7322	5920	4698	3615	2630		
			Pe	4,15	4,09	3,95	3,75	3,49	3,19	2,85	2,49	2,11		
D3-18.1Y	2	30	Qo				12784	10448	8472	6809	5411	4230	3219	2331
			Pe				3,15	3,11	3,00	2,82	2,60	2,33	2,04	1,72
		40	Qo				11350	9235	7453	5954	4693	3621	2692	1856
			Pe				3,74	3,58	3,36	3,09	2,77	2,42	2,05	1,66
		50	Qo				9930	8027	6429	5087	3954	2982	2124	1332
			Pe				4,29	4,02	3,69	3,32	2,91	2,47	2,02	1,57
D4-18.1Y	1	30	Qo	22651	18945	15742	12992	10645	8650	6958	5520	4284		
			Pe	2,88	3,09	3,20	3,23	3,18	3,06	2,89	2,67	2,42		
		40	Qo	20260	16920	14041	11571	9461	7661	6121	4791	3621		
			Pe	3,81	3,85	3,81	3,70	3,53	3,32	3,06	2,78	2,48		
		50	Qo	17843	14867	12307	10115	8239	6630	5239	4014	2907		
			Pe	4,72	4,60	4,41	4,18	3,90	3,60	3,27	2,93	2,59		
D3-19.1Y	2	30	Qo				13222	10797	8752	7035	5596	4384	3348	2438
			Pe				3,48	3,39	3,23	3,00	2,72	2,41	2,08	1,75
		40	Qo				11675	9513	7696	6173	4893	3807	2863	2009
			Pe				4,27	4,02	3,70	3,34	2,95	2,54	2,12	1,72
		50	Qo				10115	8213	6622	5292	4170	3208	2353	1555
			Pe				5,04	4,62	4,15	3,66	3,14	2,63	2,13	1,65
D4-19.1Y	1	30	Qo		20373	16983	14012	11428	9201	7300	5694	4353	3244	2339
			Pe		3,52	3,66	3,69	3,60	3,43	3,19	2,90	2,56	2,21	1,86
		40	Qo		18291	15183	12467	10113	8088	6364	4907	3689	2678	1842
			Pe		4,54	4,52	4,38	4,15	3,85	3,48	3,07	2,64	2,20	1,78
		50	Qo		16191	13369	10912	8790	6972	5427	4124	3033	2122	1361
			Pe		5,46	5,26	4,97	4,60	4,16	3,67	3,16	2,63	2,11	1,61
Q4-20.1Y	2	30	Qo				13722	11242	9118	7316	5799	4531	3477	2600
			Pe				3,42	3,34	3,18	2,96	2,69	2,39	2,06	1,73
		40	Qo				12366	10121	8203	6575	5202	4048	3076	2251
			Pe				4,17	3,94	3,65	3,31	2,93	2,52	2,11	1,71
		50	Qo				11037	9031	7320	5870	4643	3604	2718	
			Pe				4,84	4,47	4,04	3,58	3,09	2,60	2,10	
Q4-21.1Y	2	30	Qo			19134	15854	12993	10517	8392	6584	5060	3784	2724
			Pe			4,04	3,97	3,82	3,62	3,35	3,04	2,69	2,31	1,91
		40	Qo			17163	14142	11516	9251	7313	5668	4281	3120	2150
			Pe			5,09	4,81	4,48	4,09	3,68	3,23	2,76	2,28	1,80
		50	Qo			15148	12394	10011	7964	6219	4744	3503	2464	1591
			Pe			6,09	5,60	5,07	4,52	3,94	3,35	2,76	2,18	1,61

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R22 [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				10	5	0	-5	-10	-15	-20	-25	-30	-35	-40
Q5-21.1Y	1	30	Qo	26021	21804	18109	14895	12120	9744	7724	6021	4593		
			Pe	3,01	3,32	3,50	3,57	3,52	3,38	3,15	2,85	2,49		
		40	Qo	23312	19473	16117	13204	10692	8540	6708	5153	3835		
			Pe	4,20	4,33	4,34	4,23	4,03	3,75	3,39	2,96	2,49		
		50	Qo	20556	17101	14091	11486	9243	7323	5683	4284			
			Pe	5,43	5,36	5,18	4,90	4,54	4,09	3,59	3,03			
Q4-24.1Y	2	30	Qo			20706	17134	14012	11307	8983	7006	5341	3955	2813
			Pe			4,31	4,27	4,13	3,90	3,60	3,24	2,83	2,40	1,96
		40	Qo			18479	15197	12339	9872	7762	5974	4473	3225	2195
			Pe			5,44	5,17	4,81	4,39	3,92	3,42	2,89	2,35	1,82
		50	Qo			16243	13252	10661	8437	6543	4946	3611	2504	1590
			Pe			6,49	5,98	5,42	4,81	4,17	3,51	2,86	2,21	1,60
Q5-24.1Y	1	30	Qo	29616	24814	20605	16942	13779	11070	8769	6831	5207		
			Pe	3,58	3,92	4,09	4,13	4,03	3,84	3,56	3,21	2,83		
		40	Qo	26582	22215	18395	15076	12212	9757	7665	5890	4386		
			Pe	5,00	5,11	5,06	4,89	4,61	4,24	3,81	3,33	2,82		
		50	Qo	23502	19575	16150	13182	10623	8428	6551	4945	3565		
			Pe	6,43	6,29	6,02	5,63	5,16	4,61	4,02	3,39	2,76		
Q4-25.1Y	2	30	Qo				18202	14874	12037	9631	7599	5882	4420	3157
			Pe				4,46	4,40	4,24	3,98	3,64	3,24	2,79	2,31
		40	Qo				16156	13129	10558	8366	6554	5004	3676	2512
			Pe				5,26	5,02	4,68	4,27	3,79	3,27	2,71	2,14
		50	Qo				14097	11371	9068	7130	5498	4115	2920	1857
			Pe				5,99	5,56	5,05	4,48	3,87	3,22	2,56	1,89
Q5-25.1Y	1	30	Qo		25546	21450	17842	14683	11937	9565	7531	5797	4325	3078
			Pe		4,04	4,25	4,33	4,28	4,12	3,88	3,55	3,17	2,75	2,30
		40	Qo		22770	19051	15784	12931	10455	8318	6482	4911	3567	2412
			Pe		5,23	5,23	5,10	4,87	4,54	4,14	3,68	3,18	2,65	2,10
		50	Qo		20159	16801	13859	11295	9073	7155	5502	4078	2846	1767
			Pe		6,43	6,21	5,87	5,45	4,95	4,39	3,78	3,14	2,49	1,83
Q7-25.1Y	1	30	Qo	31308	26319	21943	18135	14846	12031	9642	7631	5953		
			Pe	3,76	4,10	4,27	4,30	4,20	4,00	3,72	3,37	2,98		
		40	Qo	28215	23647	19655	16192	13210	10663	8504	6686	5161		
			Pe	5,18	5,29	5,24	5,07	4,79	4,42	3,99	3,51	3,00		
		50	Qo	25104	20960	17353	14237	11565	9288	7362	5737	4369		
			Pe	6,58	6,45	6,18	5,8	5,33	4,80	4,21	3,59	2,97		
Q5-28.1Y	2	30	Qo			23591	19438	15884	12864	10310	8154	6331	4773	3412
			Pe			4,74	4,77	4,68	4,46	4,15	3,77	3,33	2,86	2,37
		40	Qo			20972	17236	14050	11346	9057	7115	5455	4008	2709
			Pe			5,92	5,71	5,38	4,97	4,47	3,93	3,35	2,75	2,17
		50	Qo			18379	15046	12212	9809	7769	6027	4514	3165	1911
			Pe			7,10	6,63	6,07	5,43	4,74	4,02	3,29	2,57	1,87
Q7-28.1Y	1	30	Qo	36064	30175	25049	20617	16810	13559	10795	8450	6454		
			Pe	4,43	4,77	4,93	4,93	4,80	4,55	4,21	3,80	3,34		
		40	Qo	32223	26890	22260	18263	14831	11893	9383	7230	5366		
			Pe	5,83	5,94	5,89	5,69	5,37	4,95	4,45	3,90	3,31		
		50	Qo	28371	23594	19458	15896	12837	10213	7954	5993	4260		
			Pe	7,12	7,02	6,77	6,39	5,90	5,32	4,68	3,99	3,29		
Q5-33.1Y	2	30	Qo				22299	18559	15280	12415	9919	7744	5844	4174
			Pe				5,14	5,15	5,01	4,74	4,36	3,90	3,36	2,78
		40	Qo				20232	16805	13795	11156	8843	6808	5004	3387
			Pe				6,37	6,21	5,90	5,46	4,92	4,29	3,59	2,84
		50	Qo				17937	14818	12074	9657	7522	5623	3912	2344
			Pe				7,50	7,15	6,65	6,03	5,31	4,49	3,61	2,68
Q7-33.1Y	1	30	Qo	39393	33090	27634	22943	18934	15524	12630	10171	8063		
			Pe	4,65	5,01	5,22	5,29	5,24	5,09	4,84	4,52	4,14		
		40	Qo	35627	29894	24945	20697	17066	13972	11329	9057	7072		
			Pe	6,28	6,38	6,36	6,22	5,99	5,68	5,30	4,86	4,40		
		50	Qo	31832	26665	22218	18408	15153	12369	9974	7885	6019		
			Pe	7,88	7,74	7,49	7,16	6,76	6,30	5,79	5,26	4,73		
S5-33Y	2	30	Qo				23632	19531	15942	12822	10128	7817	5847	4173
			Pe				5,64	5,36	4,99	4,56	4,08	3,57	3,03	2,50
		40	Qo				20835	17162	13945	11143	8711,8	6609	4790	3214
			Pe				6,55	6,09	5,56	4,99	4,39	3,78	3,17	2,59
		50	Qo				18055	14799	11946	9451	7273	5367	3692	2203
			Pe				7,37	6,73	6,04	5,33	4,62	3,91	3,23	2,59
S7-33Y	1	30	Qo	42461	36051	30286	25141	20590	16609	13170	10250	7822		
			Pe	5,63	5,73	5,69	5,52	5,26	4,90	4,48	4,01	3,51		
		40	Qo	37827	31927	26650	21970	17863	14302	11263	8719	6644		
			Pe	7,07	6,94	6,69	6,34	5,91	5,41	4,86	4,28	3,69		
		50	Qo	33252	27855	23060	18839	15168	12022	9375	7200	5474		
			Pe	8,42	8,08	7,64	7,12	6,53	5,89	5,23	4,56	3,89		

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R22 [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				10	5	0	-5	-10	-15	-20	-25	-30	-35	-40
Q7-36.1Y	1	30	Qo	43478	36863	31097	26100	21793	18096	14931	12217	9875		
			Pe	5,29	5,54	5,70	5,75	5,71	5,58	5,34	5,02	4,59		
		40	Qo	39677	33581	28282	23698	19751	16361	13448	10934	8737		
			Pe	7,25	7,23	7,13	6,95	6,7	6,37	5,96	5,48	4,92		
		50	Qo	35842	30257	25414	21233	17635	14541	11871	9545	7484		
			Pe	9,15	8,86	8,51	8,1	7,64	7,12	6,54	5,91	5,22		
S8-42Y	2	30	Qo				30383	25143	20550	16552	13094	10123	7587	5430
			Pe				7,27	6,92	6,46	5,92	5,31	4,66	4,01	3,37
		40	Qo				26778	22052	17912	14305	11176	8473,2	6142	4129
			Pe				8,40	7,82	7,15	6,44	5,69	4,93	4,20	3,51
		50	Qo				23206	19014	15347	12150	9370	6954	4848	2998
			Pe				9,42	8,61	7,75	6,87	5,99	5,14	4,34	3,62
S12-42Y	1	30	Qo	54393	45470	37691	30958	25171	20232	16042	12501	9510		
			Pe	7,01	7,18	7,16	7,00	6,70	6,28	5,77	5,19	4,56		
		40	Qo	48687	40599	33569	27495	22280	17825	14031	10798	8028		
			Pe	8,94	8,80	8,52	8,11	7,59	6,98	6,30	5,57	4,82		
		50	Qo	42463	35286	29076	23737	19168	15270	11946	9095	6620		
			Pe	10,70	10,30	9,78	9,14	8,41	7,62	6,79	5,94	5,09		
S10-52Y	2	30	Qo				37065	30628	24992	20087	15840	12179	9033	6329
			Pe				8,85	8,44	7,89	7,22	6,46	5,65	4,82	3,99
		40	Qo				32627	26840	21781	17377	13557	10249	7381	4881
			Pe				10,20	9,53	8,71	7,81	6,88	5,93	4,99	4,11
		50	Qo				28366	23217	18720	14805	11399	8431	5829	3520
			Pe				11,50	10,50	9,40	8,29	7,18	6,10	5,08	4,15
S15-52Y	1	30	Qo	68090	56986	47235	38739	31401	25124	19809	15360	11678		
			Pe	8,76	8,87	8,78	8,53	8,13	7,60	6,96	6,23	5,44		
		40	Qo	61134	51021	42161	34455	27807	22119	17293	13232	9839		
			Pe	10,90	10,70	10,30	9,75	9,10	8,35	7,53	6,65	5,75		
		50	Qo	53521	44501	36633	29820	23963	18966	14731	11161	8157		
			Pe	13,00	12,40	11,70	10,90	10,00	9,09	8,10	7,10	6,10		
S15-56Y	2	30	Qo		59380	49781	41359	34015	27654	22177	17486	13485	10077	7163
			Pe		10,40	10,30	9,93	9,40	8,72	7,93	7,08	6,20	5,33	4,51
		40	Qo		53467	44591	36830	30088	24267	19270	15000	11358	8248	5572
			Pe		12,70	12,20	11,40	10,60	9,58	8,56	7,51	6,48	5,50	4,62
		50	Qo		47385	39269	32208	26105	20863	16384	12571	9327	6553	4154
			Pe		14,80	13,80	12,70	11,60	10,30	9,09	7,87	6,71	5,66	4,75
S20-56Y	1	30	Qo	73345	61080	50718	41985	34607	28307	22813	17849	13141		
			Pe	10,40	10,30	10,10	9,84	9,41	8,85	8,14	7,30	6,30		
		40	Qo	65501	54319	44930	37057	30426	24763	19792	15240	10830		
			Pe	12,80	12,40	11,90	11,30	10,50	9,71	8,76	7,69	6,49		
		50	Qo	57426	47392	39036	32086	26265	21300	16915	12837	8790		
			Pe	15,00	14,30	13,40	12,50	11,50	10,40	9,22	7,93	6,54		
V15-59Y	2	30	Qo		61150	50984	42122	34454	27868	22250	17490	13475	10094	7233
			Pe		11,10	10,70	10,20	9,53	8,78	7,93	7,00	6,02	4,99	3,92
		40	Qo		55280	45840	37642	30573	24522	19377	15025	11355	8254	5612
			Pe		13,40	12,70	11,90	11,00	9,98	8,90	7,76	6,57	5,35	4,11
		50	Qo		49326	40642	33136	26696	21210	16566	12652	9357	6567	4171
			Pe		15,60	14,60	13,60	12,40	11,20	9,91	8,56	7,18	5,77	4,36
V20-59Y	1	30	Qo	74143	61505	50951	42159	34806	28572	23134	18170	13359		
			Pe	10,50	10,30	9,95	9,58	9,13	8,58	7,89	7,07	6,07		
		40	Qo	66783	55212	45610	37655	31025	25398	20453	15868	11320		
			Pe	12,80	12,30	11,70	11,10	10,40	9,65	8,75	7,71	6,51		
		50	Qo	59329	48844	40213	33114	27225	22225	17792	13603	9337		
			Pe	15,00	14,30	13,50	12,60	11,70	10,70	9,61	8,36	6,96		
V15-71Y	2	30	Qo				49224	40523	32917	26309	20602	15698	11501	7912
			Pe				12,10	11,30	10,40	9,43	8,33	7,15	5,91	4,64
		40	Qo				43995	36061	29135	23120	17919	13434	9568	6224
			Pe				14,10	13,10	11,90	10,60	9,24	7,83	6,38	4,92
		50	Qo				39162	31946	25651	20180	15435	11320	7736	4586
			Pe				16,20	14,80	13,40	11,80	10,20	8,62	6,98	5,34
V25-71Y	1	30	Qo	88669	73592	60980	50456	41643	34163	27638	21692	15946		
			Pe	12,80	12,40	12,10	11,60	11,10	10,40	9,54	8,52	7,30		
		40	Qo	79933	66125	54647	45123	37176	30426	24498	19014	13595		
			Pe	15,40	14,80	14,20	13,40	12,60	11,70	10,60	9,30	7,83		
		50	Qo	71618	59029	48637	40064	32932	26864	21483	16411	11270		
			Pe	18,20	17,20	16,30	15,30	14,20	12,90	11,60	10,00	8,27		
V20-84Y	2	30	Qo				58328	47860	38840	31109	24507	18877	14058	9893
			Pe				14,40	13,30	12,20	11,20	10,00	8,81	7,40	5,75
		40	Qo				51990	42548	34418	27442	21461	16315	11847	7896
			Pe				16,90	15,40	14,10	12,70	11,20	9,61	7,83	5,82
		50	Qo				46309	37798	30464	24149	18694	13939	9726	5896
			Pe				19,60	17,80	16,10	14,40	12,60	10,70	8,54	6,17

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R22 [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				10	5	0	-5	-10	-15	-20	-25	-30	-35	-40
V30-84Y	1	30	Qo	104180	86407	71562	59200	48871	40130	32529	25620	18955		
			Pe	15,50	15,00	14,50	13,90	13,20	12,40	11,40	10,30	8,94		
		40	Qo	93890	77608	64103	52928	43634	35774	28901	22568	16326		
			Pe	18,70	17,90	17,00	16,10	15,10	14,00	12,80	11,50	9,94		
		50	Qo	84052	69229	57029	47005	38710	31697	25518	19725	13871		
			Pe	22,10	20,90	19,70	18,50	17,20	15,80	14,30	12,80	11,00		
V25-93Y	2	30	Qo				64697	53238	43228	34542	27056	20644	15181	10541
			Pe				15,70	14,70	13,60	12,30	10,80	9,28	7,66	5,99
		40	Qo				57763	47339	38243	30350	23534	17670	12634	8300
			Pe				18,40	17,00	15,40	13,80	12,00	10,20	8,25	6,31
		50	Qo				50979	41579	33384	26271	20113	14786	10166	6126
			Pe				21,00	19,30	17,40	15,40	13,30	11,20	8,99	6,80
V32-93Y	1	30	Qo	116640	96815	80220	66367	54763	44918	36338	28532	21008		
			Pe	16,60	16,20	15,70	15,10	14,40	13,50	12,40	11,10	9,56		
		40	Qo	105070	86916	71818	59282	48814	39925	32120	24910	17802		
			Pe	20,10	19,30	18,50	17,50	16,40	15,20	13,80	12,10	10,20		
		50	Qo	93346	76901	63330	52139	42837	34932	27933	21348	14684		
			Pe	23,70	22,50	21,20	19,90	18,40	16,90	15,10	13,10	11,00		
V25-103Y	2	30	Qo				69690	57718	47162	37911	29855	22882	16882	11743
			Pe				17,40	16,30	15,00	13,60	12,00	10,40	8,60	6,80
		40	Qo				62070	51234	41680	33297	25975	19602	14068	9262
			Pe				20,20	18,70	17,00	15,20	13,30	11,30	9,24	7,15
		50	Qo				54790	45048	36454	28898	22268	16455	11345	6830
			Pe				23,10	21,20	19,20	17,00	14,70	12,40	10,10	7,70
V35-103Y	1	30	Qo	129170	106120	87556	72631	60514	50370	41364	32660	23424		
			Pe	18,30	17,90	17,40	16,90	16,30	15,40	14,30	12,90	11,10		
		40	Qo	116280	95121	78237	64788	53940	44858	36705	28647	19849		
			Pe	22,10	21,30	20,40	19,50	18,50	17,30	15,80	14,00	11,80		
		50	Qo	103220	83990	68821	56882	47335	39346	32079	24700	16373		
			Pe	25,90	24,70	23,40	22,10	20,70	19,10	17,30	15,10	12,60		
Z25-106Y	2	30	Qo				74149	61241	49854	39880	31210	23736	17349	11941
			Pe				18,20	17,00	15,70	14,20	12,50	10,80	8,92	7,06
		40	Qo				66389	54605	44215	35111	27184	20327	14430	9385
			Pe				21,40	19,80	18,00	16,00	14,00	11,80	9,66	7,50
		50	Qo					48324	38888	30611	23386	17102	11653	
			Pe					22,50	20,20	17,90	15,50	13,00	10,60	
Z35-106Y	1	30	Qo	133810	111060	92031	76148	62843	51551	41702				
			Pe	19,40	18,90	18,30	17,60	16,80	15,80	14,50				
		40	Qo	120630	99794	82475	68100	56102	45912	36963				
			Pe	23,40	22,50	21,50	20,40	19,20	17,70	16,10				
		50	Qo	108080	89086	73405	60465	49698	40536	32413				
			Pe	27,50	26,10	24,70	23,20	21,50	19,60	17,60				
Z30-126Y	2	30	Qo				85938	70924	57727	46218	36265	27739	20510	14448
			Pe				21,30	19,80	18,20	16,50	14,70	12,70	10,50	8,20
		40	Qo				76960	63314	51331	40882	31837	24066	17439	11825
			Pe				25,10	23,20	21,10	18,90	16,60	14,10	11,40	8,56
		50	Qo				68477	56154	45341	35910	27729	20668	14599	
			Pe				29,00	26,60	24,10	21,40	18,70	15,70	12,60	
Z40-126Y	1	30	Qo	159430	131310	108700	90263	74657	60547	46595				
			Pe	24,40	23,30	22,10	20,90	19,50	18,10	16,60				
		40	Qo	146600	119880	98613	81473	67118	54211	41414				
			Pe	29,80	28,00	26,20	24,40	22,50	20,70	18,80				
		50	Qo	133140	107980	88222	72544	59603	48063	36585				
			Pe	35,60	33,00	30,50	28,10	25,80	23,50	21,20				
W40-142Y	2	30	Qo	175734	146695	121682	100302	82164	66876	54047				
			Pe	23,25	24,56	24,91	24,44	23,33	21,71	19,75				
		40	Qo	157939	131780	109291	90083	73764	59941	48224				
			Pe	30,71	30,82	30,09	28,67	26,72	24,38	21,82				
		50	Qo	140094	116774	96773	79698	65158	52762	42119				
			Pe	36,30	35,62	34,22	32,25	29,86	27,21	24,46				
Z40-154Y	2	30	Qo			128360	105677	86385	70112	56489	45144	35707	27808	21077
			Pe			26,27	26,23	25,39	23,90	21,94	19,68	17,29	14,94	12,79
		40	Qo			114726	94361	77091	62547	50359	40155	31565	24220	17748
			Pe			32,02	30,89	29,07	26,72	24,02	21,14	18,24	15,49	13,07
		50	Qo			101384	83260	67938	55048	44219	35080	27262	20394	
			Pe			37,36	35,25	32,56	29,46	26,13	22,73	19,43	16,41	
Z50-154Y	1	30	Qo	187871	157360	130766	107762	88019	71207	56999				
			Pe	23,29	25,16	25,95	25,81	24,92	23,42	21,48				
		40	Qo	168933	141375	117388	96643	78810	63563	50571				
			Pe	30,98	31,47	31,00	29,75	27,87	25,51	22,84				
		50	Qo	150091	125451	104035	85512	69556	55837	44027				
			Pe	38,47	37,72	36,14	33,91	31,17	28,09	24,82				

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Performance R22 [50 Hz]

Compressor	Motor version	Cond. Temp. [°C]	Qo [W] = Cooling capacity Pe [kW] = Power consumption ①	Evaporating temperature [°C]										
				10	5	0	-5	-10	-15	-20	-25	-30	-35	-40
W40-168Y	2	30	Qo				119638	98195	80111	64948	52271	41643	32628	24790
			Pe				29,28	28,03	26,19	23,96	21,49	18,98	16,60	14,53
		40	Qo				107856	88369	71977	58244	46733	37009	28635	21174
			Pe				35,11	32,62	29,70	26,55	23,33	20,23	17,43	15,09
		50	Qo							63715	51371	40987	32126	24352
			Pe							32,79	28,87	25,05	21,50	18,42
W50-168Y	1	30	Qo	211998	177122	147068	121365	99540	81122	65640				
			Pe	29,01	30,59	31,01	30,44	29,09	27,12	24,74				
		40	Qo	189187	158004	131189	108270	88775	72234	58174				
			Pe	39,55	39,38	38,19	36,18	33,53	30,42	27,06				
		50	Qo			114985	94873	77733	63090	50476				
			Pe			44,64	41,43	37,75	33,76	29,67				
W50-187Y	2	30	Qo			162942	134308	109918	89324	72078	57731	45836	35944	27607
			Pe			33,64	33,21	31,91	29,93	27,49	24,80	22,06	19,48	17,28
		40	Qo			144994	119015	96993	78479	63027	50187	39511	30553	22863
			Pe			41,78	39,63	36,81	33,54	30,01	26,45	23,04	20,02	17,57
		50	Qo				103841	84204	67789	54148	42832	33395	25387	
			Pe				45,71	41,47	36,99	32,47	28,12	24,14	20,75	
W60-187Y	1	30	Qo	237251	198393	164558	135325	110276	88992	71054				
			Pe	30,02	31,96	32,41	31,64	29,90	27,45	24,53				
		40	Qo	211763	176745	146285	119965	97366	78070	61657				
			Pe	41,12	41,24	40,03	37,73	34,60	30,89	26,87				
		50	Qo	185568	154436	127400	104041	83940	66679	51838				
			Pe	51,00	49,59	46,98	43,43	39,19	34,52	29,67				
W60-206Y	2	30	Qo			185162	153035	125104	101062	80600	63410	49183	37609	28381
			Pe			36,49	36,21	34,64	32,10	28,88	25,29	21,63	18,21	15,33
		40	Qo			165114	135974	110708	89007	70562	55066	42209	31683	23178
			Pe			45,60	43,64	40,58	36,72	32,35	27,80	23,36	19,33	16,02
		50	Qo			144853	118774	96246	76959	60606	46877	35465	26060	
			Pe			54,06	50,57	46,15	41,11	35,75	30,37	25,29	20,80	
W70-206Y	1	30	Qo	261472	220332	183937	151971	124119	100065	79494				
			Pe	31,12	34,10	35,35	35,13	33,73	31,40	28,43				
		40	Qo	233794	196925	164234	135404	110121	88069	68932				
			Pe	43,26	44,44	43,96	42,08	39,09	35,24	30,81				
		50	Qo	205356	172817	143887	118251	95595	75602	57958				
			Pe	55,40	54,79	52,60	49,07	44,50	39,14	33,26				
W70-228Y	2	30	Qo			204997	169221	138114	111338	88558	69438	53641	40832	30674
			Pe			40,34	40,02	38,26	35,41	31,82	27,82	23,75	19,97	16,80
		40	Qo			182730	150153	121916	97681	77113	59876	45633	34049	24787
			Pe			50,20	47,97	44,51	40,18	35,31	30,24	25,32	20,88	17,26
		50	Qo			160632	131293	105964	84309	65992	50676	38027		
			Pe			59,70	55,68	50,63	44,92	38,88	32,84	27,16		
W75-228Y	1	30	Qo	289394	243846	203581	168239	137461	110889					
			Pe	34,53	37,84	39,25	39,06	37,56	35,04					
		40	Qo	258694	217975	181888	150076	122178	97836					
			Pe	47,95	49,21	48,66	46,60	43,32	39,10					
		50	Qo	226728	190907	159069	130856	105908	83866					
			Pe	61,52	60,71	58,19	54,24	49,15	43,24					
W75-240Y	2	30	Qo			213234	176683	144817	117316	93860	74131	57807	57807	34100
			Pe			42,00	41,61	39,90	37,16	33,69	29,79	25,74	25,74	18,44
		40	Qo			191247	157845	128814	103834	82585	64748	50002	50002	28507
			Pe			52,67	50,44	47,07	42,85	38,08	33,06	28,08	28,08	19,46
		50	Qo			169102	138922	112798	90410	71439	55566	42470		
			Pe			62,93	58,93	53,97	48,35	42,36	36,29	30,46		
W80-240Y	1	30	Qo	303321	255556	213354	176334	144113	116310					
			Pe	36,30	39,81	41,29	41,07	39,44	36,72					
		40	Qo	270934	228233	190416	157102	127908	102453					
			Pe	50,32	51,75	51,23	49,08	45,61	41,12					
		50	Qo	237571	199954	166543	136955	110809	87722					
			Pe	64,08	63,48	61,01	56,98	51,71	45,51					

① Suction gas temperature 20°C without liquid sub-cooling.

The performance refers to European standard EN12900 and with operation at 50Hz; conversion factor at 60Hz = 1.2.

To calculate the performance in different operating points refer to the Frascold Selection Software.

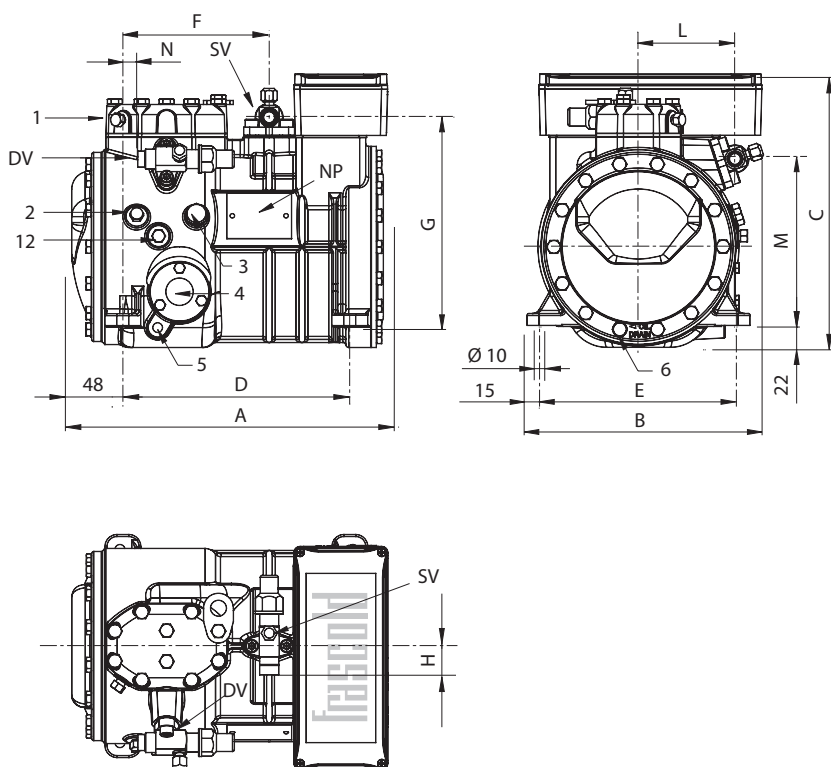
All published data is subject to change.

■ This field requires additional cooling or limitation of the suction temperature.

Semi-hermetic reciprocating compressors

Dimensional drawing

Series **A**



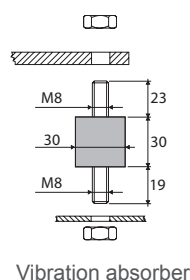
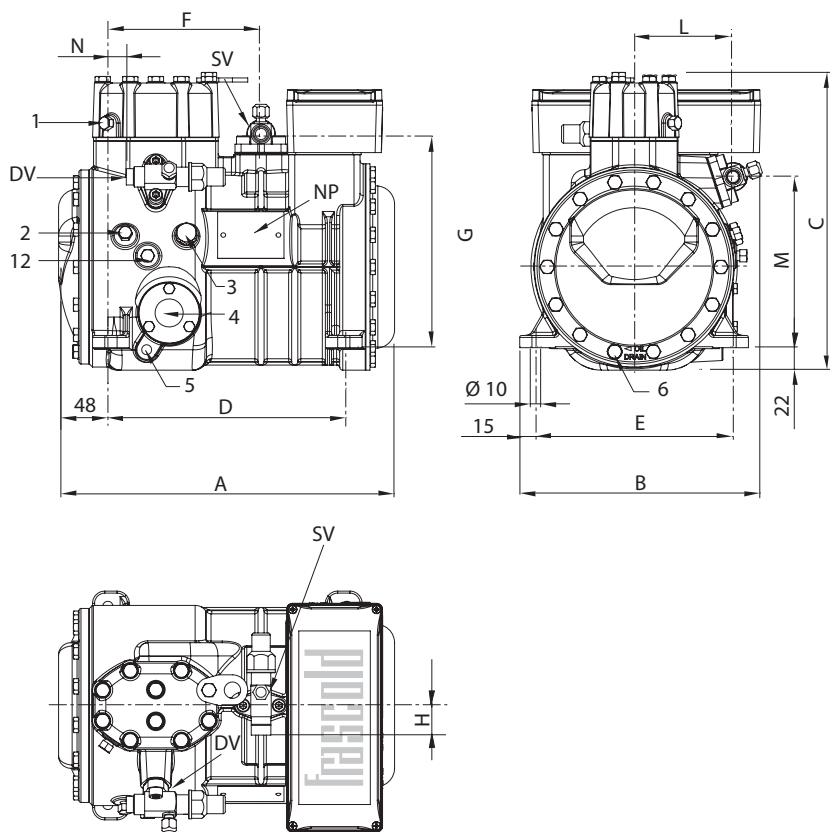
Vibration absorber

1	High pressure plug	1/8" NPT
2	Low pressure plug	1/8" NPT
3	Oil charge plug	1/4" GAS
4	Oil level sight glass	
5	Crankcase heater seat	
6	Oil drain plug	M8 x 22 ISO4017
12	Oil return plug	1/8" NPT
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

Compressor	Valves				Valves position						Compressor				
	Suction		Discharge		Suction			Discharge			Length	Width	Height	Base mounting	
	Ø	mm	Ø	mm	F	G	H	L	M	N	A	B	C	D	E
A05-4Y	5/8	15,8	1/2	12,7	150	209	29	97	167	18	317	237	275	234	194
A05-5Y	5/8	15,8	1/2	12,7	150	209	29	97	167	18	317	237	275	234	194
A07-5Y	5/8	15,8	1/2	12,7	150	209	29	97	167	18	317	237	275	234	194
A07-6Y	5/8	15,8	1/2	12,7	150	209	29	97	167	18	317	237	275	234	194
A1-6Y	5/8	15,8	1/2	12,7	150	209	29	97	167	18	317	237	275	234	194
A1-7Y	5/8	15,8	1/2	12,7	150	209	29	97	167	18	317	237	275	234	194
A1.5-7Y	5/8	15,8	1/2	12,7	150	209	29	97	167	18	317	237	275	234	194
A1.5-8Y	5/8	15,8	1/2	12,7	150	209	29	97	167	18	317	237	275	234	194

Dimensional drawing

Series **B**



Vibration absorber

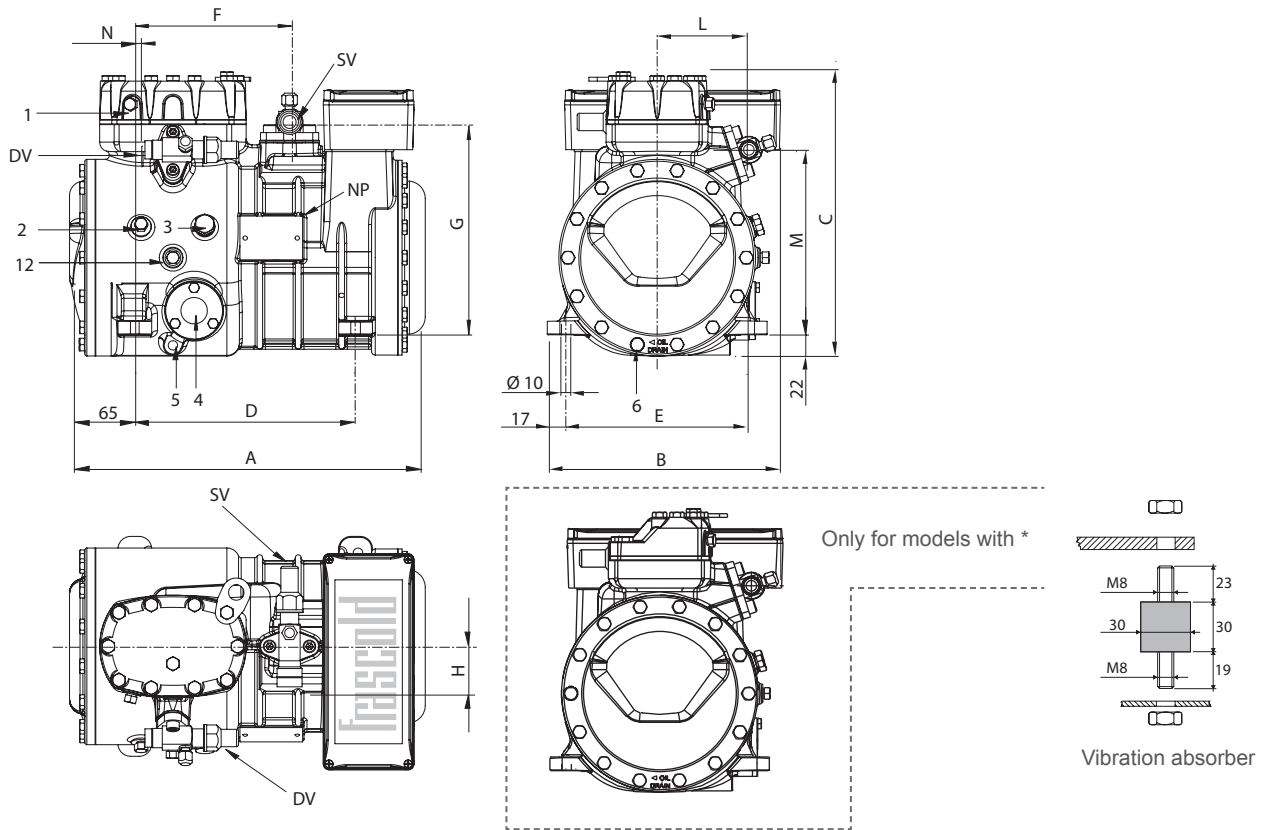
1	High pressure plug	1/8" NPT
2	Low pressure plug	1/8" NPT
3	Oil charge plug	1/4" GAS
4	Oil level sight glass	
5	Crankcase heater seat	
6	Oil drain plug	M8 x 22 ISO4017
12	Oil return plug	1/8" NPT
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

Compressor	Valves				Valves position						Compressor				
	Suction		Discharge		Suction			Discharge			Length	Width	Height	Base mounting	
	Ø	Ø	Ø	Ø	F	G	H	L	M	N	A	B	C	D	E
B1.5-9.1Y	5/8	15,8	1/2	12,7	150	209	29	97	167	18	329	237	292	234	194
B1.5-10.1Y	5/8	15,8	1/2	12,7	150	209	29	97	167	18	329	237	292	234	194
B2-10.1Y	3/4	19,0	5/8	15,8	150	209	31	97	167	18	334	237	292	234	194

Semi-hermetic reciprocating compressors

Dimensional drawing

Series **D**

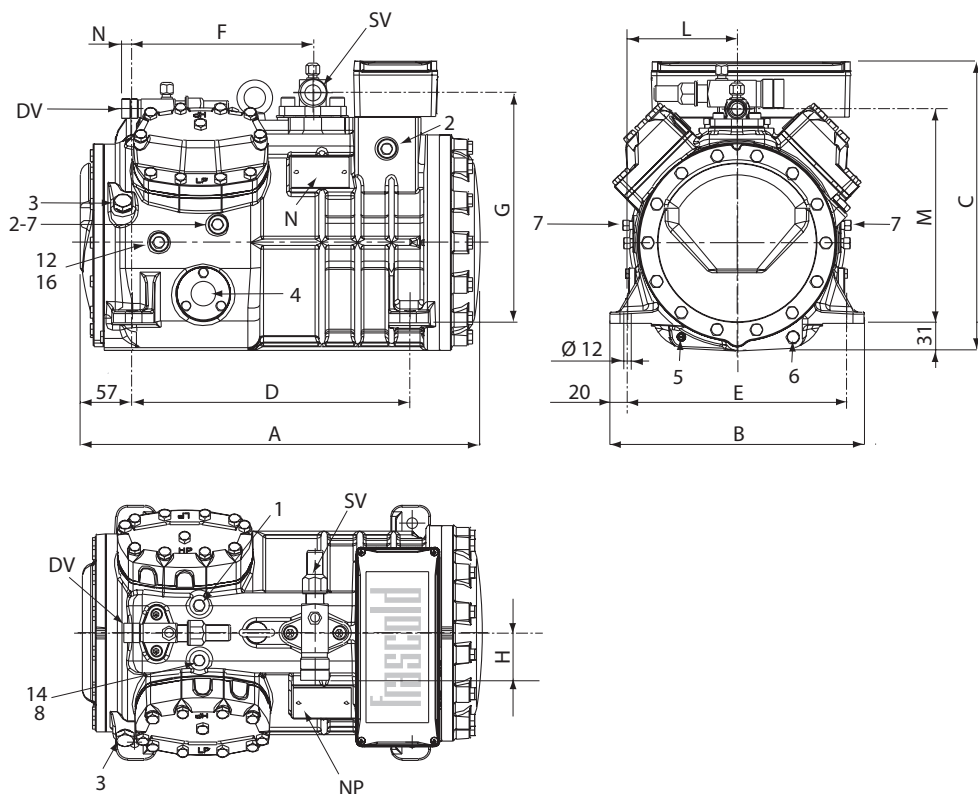


1	High pressure plug	1/8" NPT
2	Low pressure plug	1/8" NPT
3	Oil charge plug	1/4" GAS
4	Oil level sight glass	
5	Crankcase heater seat	
6	Oil drain plug	M8 x 22 ISO4017
12	Oil return plug	1/8" NPT
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

Compressor	Valves				Valves position						Compressor				
	Suction		Discharge		Suction			Discharge			Length	Width	Height	Base mounting	
	Ø	Ø	Ø	Ø	F	G	H	L	M	N	A	B	C	D	E
D2-11.1Y*	7/8	22,2	5/8	15,8	165	221	42	94	192	13	369	242	294	234	194
D2-13.1Y*	7/8	22,2	5/8	15,8	165	221	42	94	192	13	369	242	294	234	194
D3-13.1Y	1 1/8	28,6	5/8	15,8	165	225	53	94	192	13	374	242	317	234	194
D2-15.1Y*	7/8	22,2	5/8	15,8	165	221	42	94	192	13	369	242	294	234	194
D3-15.1Y	1 1/8	28,6	5/8	15,8	165	225	53	94	192	13	374	242	317	234	194
D3-16.1Y	1 1/8	28,6	5/8	15,8	165	225	53	94	192	13	374	242	317	234	194
D4-16.1Y	1 1/8	28,6	3/4	19,0	165	225	53	94	192	5	401	242	317	234	194
D3-18.1Y	1 1/8	28,6	5/8	15,8	165	225	53	94	192	13	374	242	317	234	194
D4-18.1Y	1 1/8	28,6	3/4	19,0	165	225	53	94	192	5	401	242	317	234	194
D3-19.1Y	1 1/8	28,6	5/8	15,8	165	225	53	94	192	13	374	242	317	234	194
D4-19.1Y	1 1/8	28,6	3/4	19,0	165	225	53	94	192	5	401	242	317	234	194

Dimensional drawing

Series **Q**



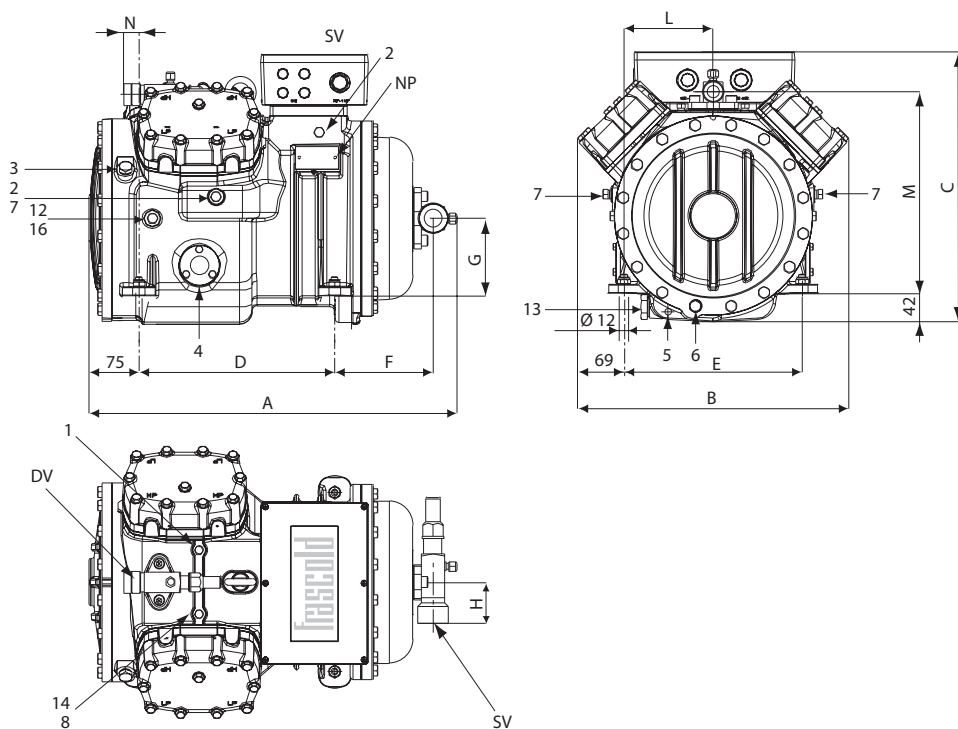
Vibration absorber

1	High pressure plug	1/8" NPT
2	Low pressure plug	1/8" NPT
3	Oil charge plug	1/4" GAS
4	Oil level sight glass	
5	Crankcase heater seat	
6	Oil drain plug	M8 x 22 ISO4017
7	Liquid injection valve plug	1/8" NPT
8	Liquid injection sensor plug	1/8" NPT
12	Oil return plug	1/8" NPT
14	Max. discharge temperature sensor	1/8" NPT
16	Crankcase pressure plug	1/8" NPT
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

Compressor	Valves				Valves position						Compressor				
	Suction		Discharge		Suction			Discharge			Length	Width	Height	Base mounting	
	Ø	Ø	Ø	Ø	F	G	H	L	M	N	A	B	C	D	E
	"	mm	"	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
Q4-20.1E	1 1/8	28,6	3/4	19,0	203	258	53	123	239	12	449	286	325	312	246
Q4-20.1Y	1 1/8	28,6	3/4	19,0	203	258	53	123	239	12	449	286	325	312	246
Q4-21.1Y	1 1/8	28,6	3/4	19,0	203	258	53	123	239	12	449	286	325	312	246
Q5-21.1Y	1 1/8	28,6	3/4	19,0	203	258	53	123	239	12	449	286	325	312	246
Q4-24.1E	1 1/8	28,6	3/4	19,0	203	258	53	123	239	12	449	286	325	312	246
Q4-24.1Y	1 1/8	28,6	3/4	19,0	203	258	53	123	239	12	449	286	325	312	246
Q5-24.1Y	1 1/8	28,6	7/8	22,2	203	258	53	123	239	17	449	286	325	312	246
Q4-25.1Y	1 1/8	28,6	3/4	19,0	203	258	53	123	239	17	449	286	325	312	246
Q5-25.1Y	1 1/8	28,6	7/8	22,2	203	258	53	123	239	17	449	286	325	312	246
Q7-25.1Y	1 1/8	28,6	7/8	22,2	203	258	53	123	239	17	449	286	325	312	246
Q5-28.1E	1 3/8	35,0	7/8	22,2	203	261	58	123	239	17	449	286	328	312	246
Q7-28.1Y	1 3/8	35,0	7/8	22,2	203	261	58	123	239	17	449	286	325	312	246
Q5-28.1Y	1 3/8	35,0	1 1/8	28,6	203	261	58	123	239	28	449	286	328	312	246
Q5-33.1E	1 3/8	35,0	1 1/8	28,6	203	261	58	123	239	28	449	286	328	312	246
Q5-33.1Y	1 3/8	35,0	1 1/8	28,6	203	261	58	123	239	28	449	286	328	312	246
Q7-33.1Y	1 3/8	35,0	1 1/8	28,6	203	261	58	123	239	28	449	286	328	312	246
Q5-36.1Y	1 3/8	35,0	1 1/8	28,6	203	261	58	123	239	28	449	286	328	312	246
Q7-36.1Y	1 3/8	35,0	1 1/8	28,6	203	261	58	123	239	28	449	286	328	312	246

Dimensional drawing

Series **S**



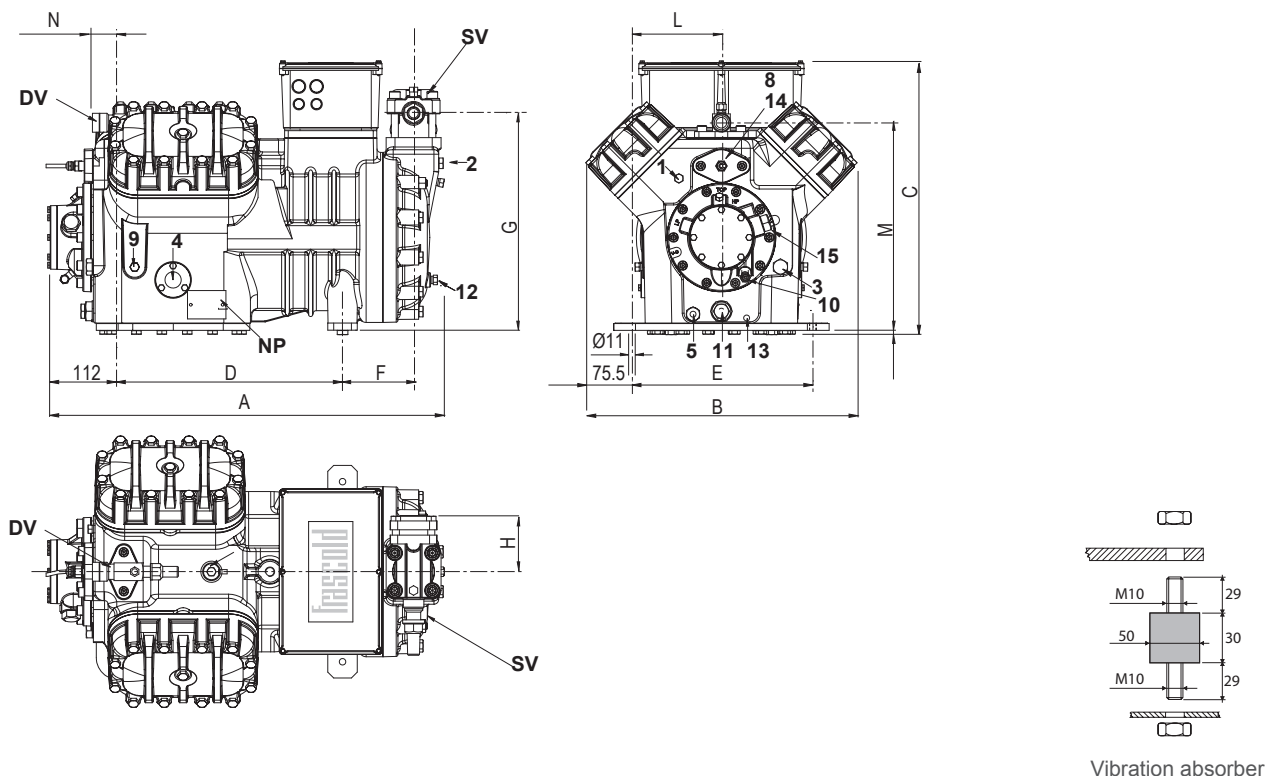
Vibration absorber

1	High pressure plug	1/8" NPT
2	Low pressure plug	1/8" NPT
3	Oil charge plug	1/4" GAS
4	Oil level sight glass	
5	Crankcase heater seat	
6	Oil drain plug	M10 x 30 ISO4017
7	Liquid injection valve plug	1/4" NPT
8	Liquid injection sensor plug	1/8" NPT
12	Oil return plug	1/4" NPT
13	Magnetic plug	1/2" GAS
14	Max. discharge temperature sensor	1/8" NPT
16	Crankcase pressure plug	1/4" NPT
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

Compressor	Valves				Valves position						Compressor				
	Suction		Discharge		Suction			Discharge			Length	Width	Height	Base mounting	
	Ø"	Ø mm	Ø"	Ø mm	F mm	G mm	H mm	L mm	M mm	N mm	A mm	B mm	C mm	D mm	E mm
S5-33Y	1 3/8	35,0	1 1/8	28,6	147	115	58	133	298	23	550	405	405	292	266
S7-33Y	1 3/8	35,0	1 1/8	28,6	147	115	58	133	298	23	550	405	405	292	266
S8-42E	1 3/8	35,0	1 1/8	28,6	147	115	58	133	298	23	550	405	405	292	266
S8-42Y	1 3/8	35,0	1 1/8	28,6	147	115	58	133	298	23	550	405	405	292	266
S12-42Y	1 3/8	35,0	1 1/8	28,6	147	115	58	133	298	23	550	405	405	292	266
S10-52E	1 3/8	35,0	1 1/8	28,6	147	115	58	133	298	23	550	405	405	292	266
S10-52Y	1 3/8	35,0	1 1/8	28,6	147	115	58	133	298	23	550	405	405	292	266
S15-52Y	1 5/8	42,0	1 1/8	28,6	147	115	61	133	298	23	550	405	405	292	266
S12-56E	1 3/8	35,0	1 1/8	28,6	147	115	58	133	298	23	550	405	405	292	266
S15-56Y	1 5/8	42,0	1 1/8	28,6	147	115	61	133	298	23	550	405	405	292	266
S20-56Y	1 5/8	42,0	1 1/8	28,6	147	115	61	133	298	23	550	405	405	292	266

Dimensional drawing

Series **V**

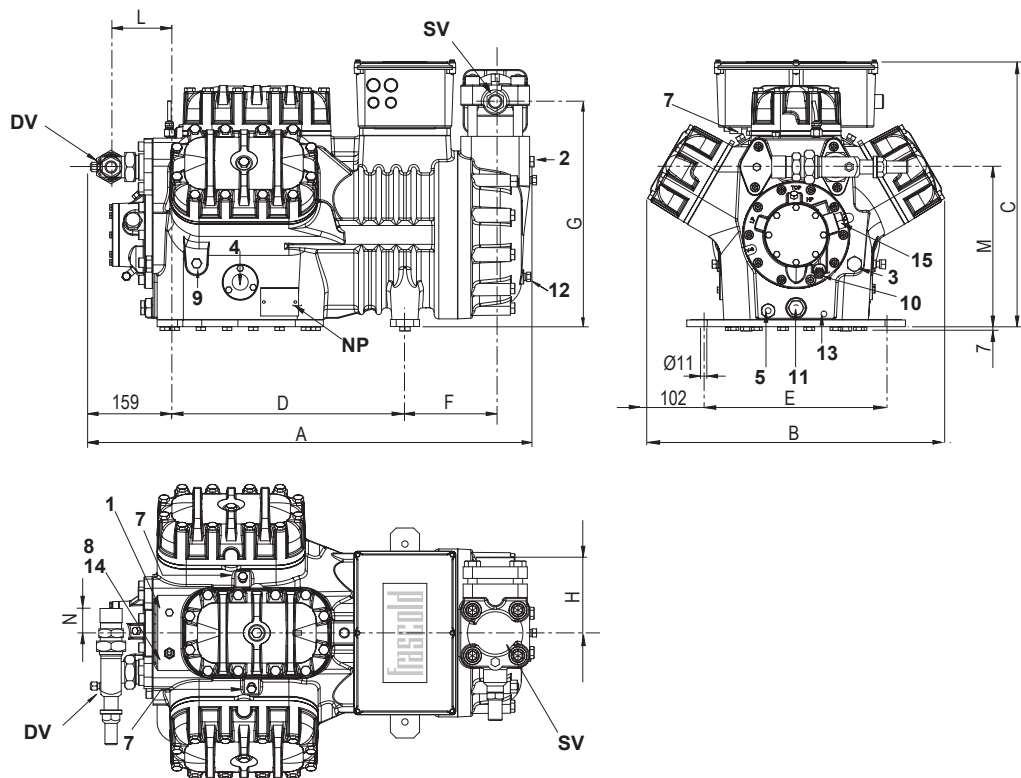


1	High pressure plug	1/8" NPT
2	Low pressure plug	1/4" NPT
3	Oil charge plug	3/8" GAS
4	Oil level sight glass	
5	Crankcase heater seat	
7	Liquid injection valve plug	1/8" NPT
8	Liquid injection sensor plug	1/8" NPT
9	Oil pressure switch connection (l.p.)	1/4" NPT
10	Oil pressure switch connection (h.p.)	1/4" SAE
11	Oil filter	
12	Oil return plug	1/8" NPT
13	Oil drain plug	3/8" GAS
14	Max. discharge temperature sensor	
15	Electronic oil pressure switch connection	3/4" UNF
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

Compressor	Valves				Valves position						Compressor				
	Suction		Discharge		Suction			Discharge			Length	Width	Height	Base mounting	
	Ø	Ø	Ø	Ø	F	G	H	L	M	N	A	B	C	D	E
V15-59E	1 5/8	42,0	1 1/8	28,6	120	367	95	152	352	43	672	460	463	381	305
V15-59Y	1 5/8	42,0	1 1/8	28,6	120	367	95	152	352	43	672	460	463	381	305
V20-59Y	1 5/8	42,0	1 1/8	28,6	120	367	95	152	352	43	672	460	463	381	305
V15-71E	1 5/8	42,0	1 1/8	28,6	120	367	95	152	352	43	672	460	463	381	305
V15-71Y	1 5/8	42,0	1 1/8	28,6	120	367	95	152	352	43	672	460	463	381	305
V25-71Y	2 1/8	54,0	1 3/8	35,0	133	389	130	152	352	48	703	460	463	381	305
V20-84E	2 1/8	54,0	1 1/8	28,6	133	389	130	152	352	48	703	460	463	381	305
V20-84Y	1 5/8	42,0	1 1/8	28,6	120	367	95	152	352	43	672	460	463	381	305
V30-84Y	2 1/8	54,0	1 3/8	35,0	133	389	130	152	352	48	703	460	463	381	305
V25-93Y	2 1/8	54,0	1 3/8	35,0	133	389	130	152	352	48	703	460	463	381	305
V32-93Y	2 1/8	54,0	1 3/8	35,0	158	389	130	152	352	48	743	460	463	381	305
V25-103Y	2 1/8	54,0	1 3/8	35,0	133	389	130	152	352	48	703	460	463	381	305
V35-103Y	2 1/8	54,0	1 3/8	35,0	158	389	130	152	352	48	743	460	463	381	305
V25-103E	2 1/8	54,0	1 3/8	35,0	133	389	130	152	352	48	703	460	463	381	305

Dimensional drawing

Series **Z**



Vibration absorber

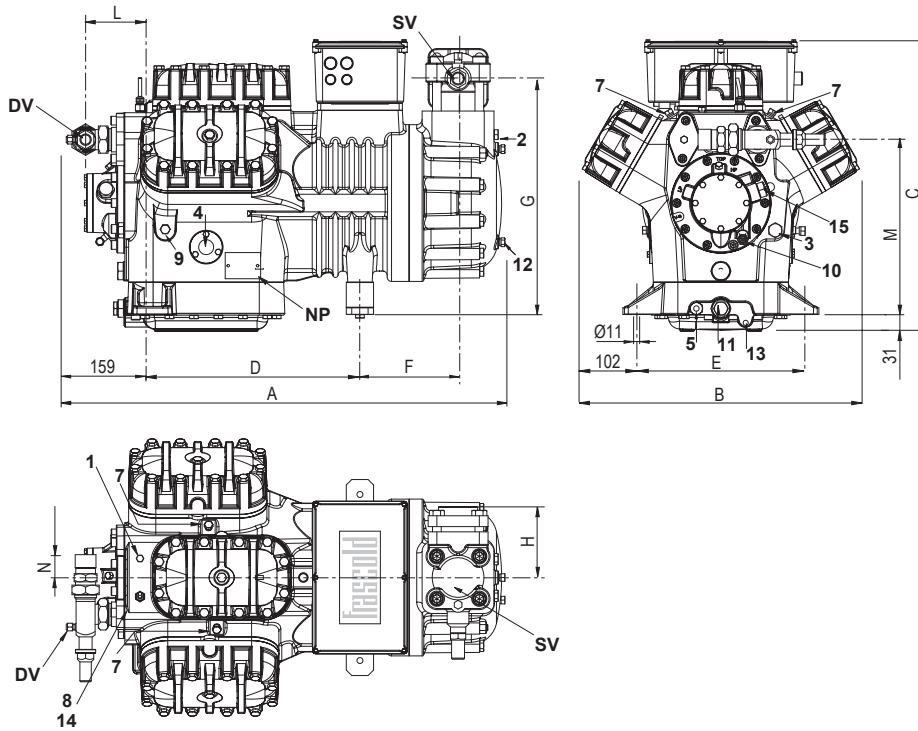
1	High pressure plug	1/8" NPT
2	Low pressure plug	1/4" NPT
3	Oil charge plug	3/8" GAS
4	Oil level sight glass	
5	Crankcase heater seat	
7	Liquid injection valve plug	1/8" NPT
8	Liquid injection sensor plug	
9	Oil pressure switch connection (l.p.)	1/4" SAE
10	Oil pressure switch connection (h.p.)	1/4" SAE
11	Oil filter	3/8" GAS
12	Oil return plug	1/4" NPT
13	Oil drain plug	3/8" GAS
14	Max. discharge temperature sensor	
15	Electronic oil pressure switch connection	
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

Compressor	Valves				Valves position						Compressor				
	Suction		Discharge		Suction			Discharge			Length	Width	Height	Base mounting	
	Ø	Ø	Ø	Ø	F	G	H	L	M	N	A	B	C	D	E
Z25-106E	2 1/8	54,0	1 3/8	35,0	155	386	130	123	274	42	765	509	457	381	305
Z25-106Y	2 1/8	54,0	1 3/8	35,0	155	386	130	123	274	42	765	509	457	381	305
Z35-106Y	2 1/8	54,0	1 3/8	35,0	180	386	130	123	274	42	806	509	457	381	305

Semi-hermetic reciprocating compressors

Dimensional drawing

Series **Z**



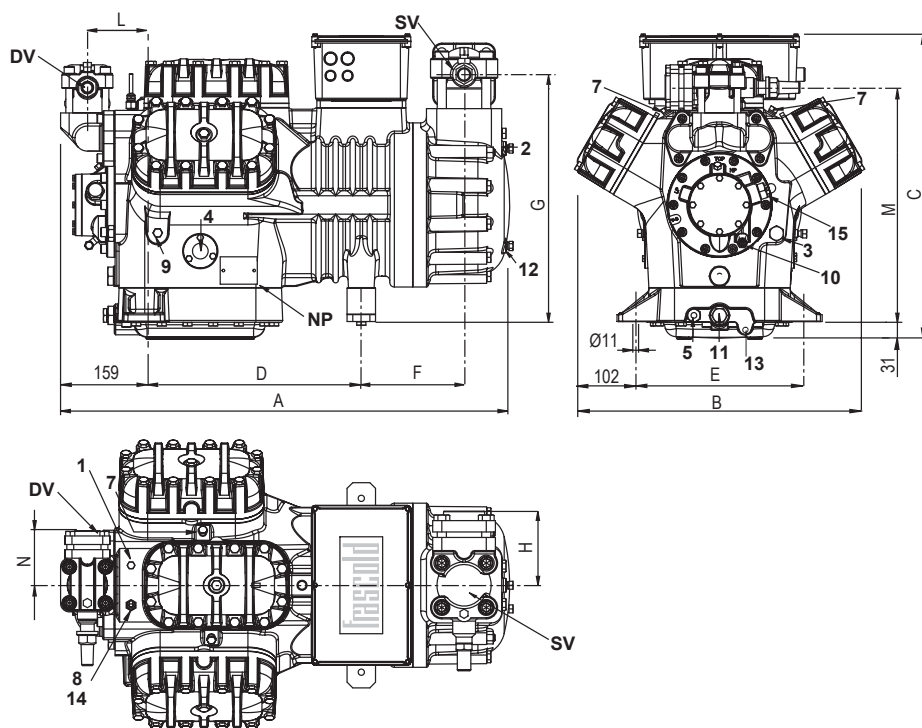
Vibration absorber

1	High pressure plug	1/8" NPT
2	Low pressure plug	1/4" NPT
3	Oil charge plug	3/8" GAS
4	Oil level sight glass	
5	Crankcase heater seat	
7	Liquid injection valve plug	1/8" NPT
8	Liquid injection sensor plug	
9	Oil pressure switch connection (l.p.)	1/4" SAE
10	Oil pressure switch connection (h.p.)	1/4" SAE
11	Oil filter	3/8" GAS
12	Oil return plug	1/4" NPT
13	Oil drain plug	3/8" GAS
14	Max. discharge temperature sensor	
15	Electronic oil pressure switch connection	
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

Compressor	Valves				Valves position						Compressor				
	Suction		Discharge		Suction			Discharge			Length	Width	Height	Base mounting	
	Ø	Ø	Ø	Ø	F	G	H	L	M	N	A	B	C	D	E
	"	mm	"	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
Z30-126E	2 1/8	54,0	1 3/8	35,0	155	433	130	123	321	42	765	509	536	381	305
Z30-126Y	2 1/8	54,0	1 3/8	35,0	155	433	130	123	321	42	765	509	536	381	305
Z40-126Y	2 5/8	67,0	1 5/8	42,0	180	433	130	123	321	42	806	509	536	381	305

Dimensional drawing

Series **Z**



Vibration absorber

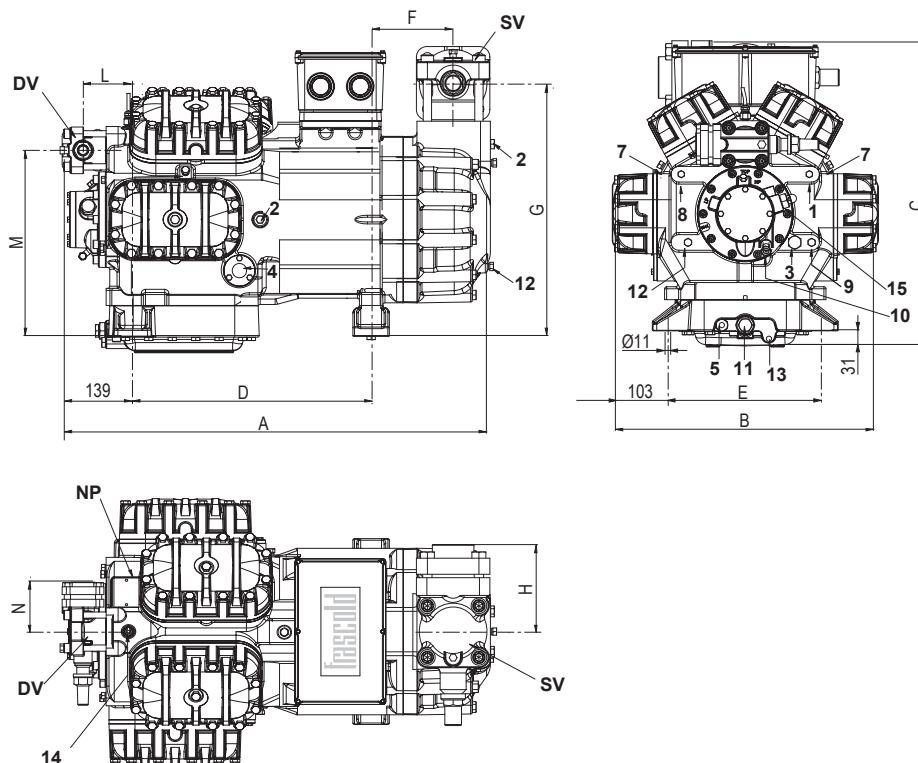
1	High pressure plug	1/8" NPT
2	Low pressure plug	1/4" NPT
3	Oil charge plug	3/8" GAS
4	Oil level sight glass	
5	Crankcase heater seat	
7	Liquid injection valve plug	1/8" NPT
8	Liquid injection sensor plug	
9	Oil pressure switch connection (l.p.)	1/4" SAE
10	Oil pressure switch connection (h.p.)	1/4" SAE
11	Oil filter	3/8" GAS
12	Oil return plug	1/4" NPT
13	Oil drain plug	3/8" GAS
14	Max. discharge temperature sensor	
15	Electronic oil pressure switch connection	
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

Compressor	Valves				Valves position						Compressor				
	Suction		Discharge		Suction			Discharge			Length	Width	Height	Base mounting	
	Ø	Ø	Ø	Ø	F	G	H	L	M	N	A	B	C	D	E
	"	mm	"	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
Z40-154E	2 5/8	67,0	1 5/8	42,0	180	433	130	100	411	95	794	509	536	381	305
Z40-154Y	2 5/8	67,0	1 5/8	42,0	180	433	130	100	411	95	794	509	536	381	305
Z50-154Y	2 5/8	67,0	1 5/8	42,0	180	433	130	100	411	95	794	509	536	381	305

Semi-hermetic reciprocating compressors

Dimensional drawing

Series **W**



Vibration absorber

1	High pressure plug	1/8" NPT
2	Low pressure plug	1/4" NPT
3	Oil charge plug	3/8" GAS
4	Oil level sight glass	
5	Crankcase heater seat	
7	Liquid injection valve plug	1/8" NPT
8	Liquid injection sensor plug	
9	Oil pressure switch connection (l.p.)	1/4" SAE
10	Oil pressure switch connection (h.p.)	1/4" SAE
11	Oil filter	3/8" GAS
12	Oil return plug	1/4" NPT
13	Oil drain plug	3/8" GAS
14	Max. discharge temperature sensor	
15	Electronic oil pressure switch connection	
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

Compressor	Valves				Valves position						Compressor				
	Suction		Discharge		Suction			Discharge			Length	Width	Height	Base mounting	
	Ø	Ø	Ø	Ø	F	G	H	L	M	N	A	B	C	D	E
W40-142Y	2 5/8	67,0	1 5/8	42,0	158	486	160	95	358	95	838	511	588	458	305
W40-168Y	2 5/8	67,0	1 5/8	42,0	158	486	160	95	358	95	838	511	588	458	305
W50-168Y	3 1/8	79,4	1 5/8	42,0	158	486	160	95	358	95	838	511	588	458	305
W50-187Y	3 1/8	79,4	1 5/8	42,0	158	486	160	95	358	95	838	511	588	458	305
W60-187Y	3 1/8	79,4	1 5/8	42,0	158	486	160	95	358	95	838	511	588	458	305
W60-206Y	3 1/8	79,4	2 1/8	54,0	158	486	160	95	358	95	838	511	588	458	305
W70-206Y	3 1/8	79,4	2 1/8	54,0	190	486	160	95	358	162	864	511	588	458	305
W70-228Y	3 1/8	79,4	2 1/8	54,0	190	486	160	95	358	162	864	519	588	458	305
W75-228Y	3 1/8	79,4	2 1/8	54,0	190	486	160	95	358	162	864	519	588	458	305
W75-240Y	3 1/8	79,4	2 1/8	54,0	190	486	160	95	358	162	864	519	588	458	305
W80-240Y	3 1/8	79,4	2 1/8	54,0	190	486	160	95	358	162	864	519	588	458	305

ATEX Compressors

Within the European Union, mechanical and electrical equipment used in explosive atmospheres must comply with ATEX requirements. Frascold was among the first compressor manufacturers to offer a comprehensive range of ATEX-certified compressors. All ATEX compressors produced by Frascold are approved also for use with hydrocarbons R290 and R1270. Please contact Frascold when interested to run the compressor with other hydrocarbons.

Construction concepts

ATEX compressors are designed in accordance with safety requirements set forth for use in hazardous areas due to presence of flammable gases in Category 3 and Zone 2, according to the ATEX directive 94/9/EC and use mechanical and electrical components complying with this directive (with the exception of the electronic protection device INT69, INT69 Diagnose, INT69TML Diagnose).

ATEX Certification



- Temperature class T3
- For use with group IIB gases (propane, propylene, isobutane, etc.)
- Protection method c (non-electrical equipment EN-13463-5)
- European protection against explosions (directive 94/9/EC)
- For use in explosive atmosphere caused by gas
- Category 3 (zone 2)
- Machine group 2
- ATEX marking according to 94/9/CE directive

ATEX solenoid coil

ATEX oil heater



ATEX Electronic differential pressure switch

ATEX Safety device to control discharge temperature



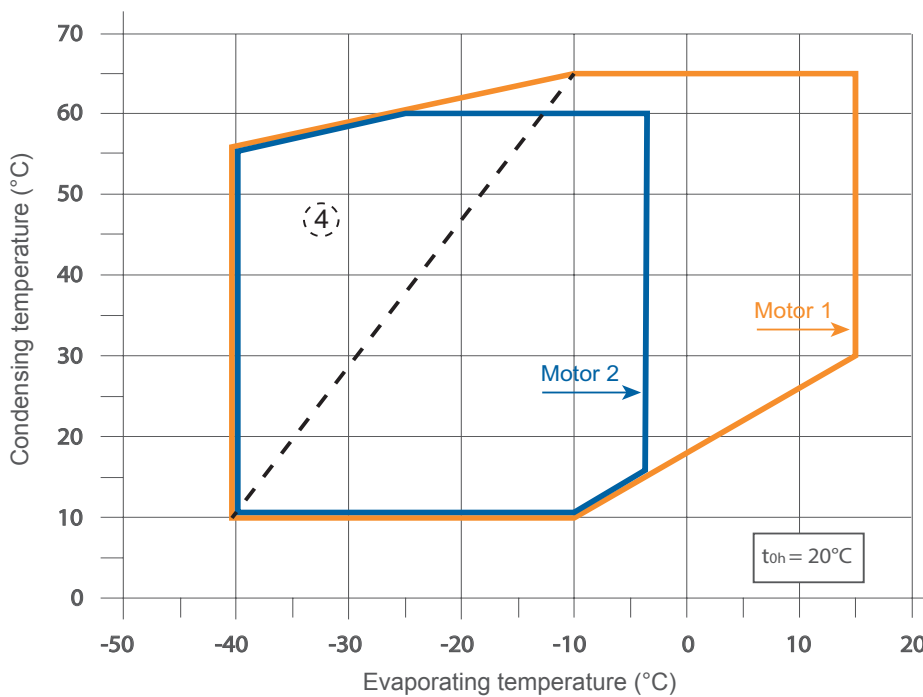
Compressor protection device (INT69 - INT69 Diagnose - INT69TML Diagnose) supplied separately unassembled for remote installation (outside the EX area).

Operating limits

The compressors can operate within the range of the application diagrams; pay attention to the different areas. For the operating limits of each compressor refer to the Frascold Selection Software program (see page 74).

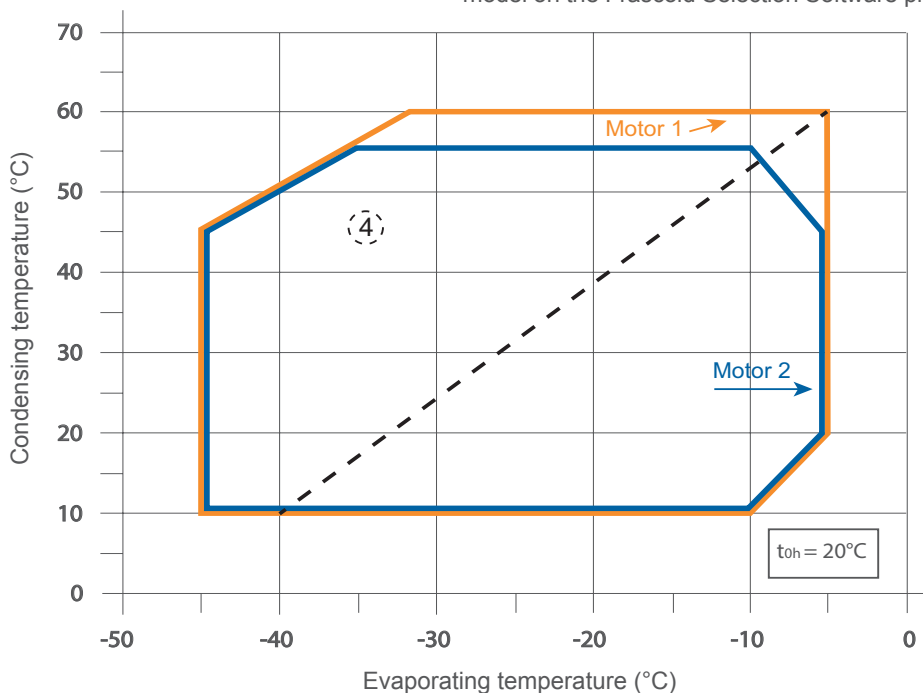
R290

Standard application diagram
 Motor size 1 - 2
 Check the diagram of every single compressor model on the Frascold Selection Software program



R1270

Standard application diagram
 Motor size 1 - 2
 Check the diagram of every single compressor model on the Frascold Selection Software program



Compressor at 100% capacity

t_{0h}

Suction gas temperature = 20°C
 Additional cooling or superheat reduction, check on the Frascold Selection Software program

Semi-hermetic reciprocating TWIN compressors

Compressors in TWIN configuration

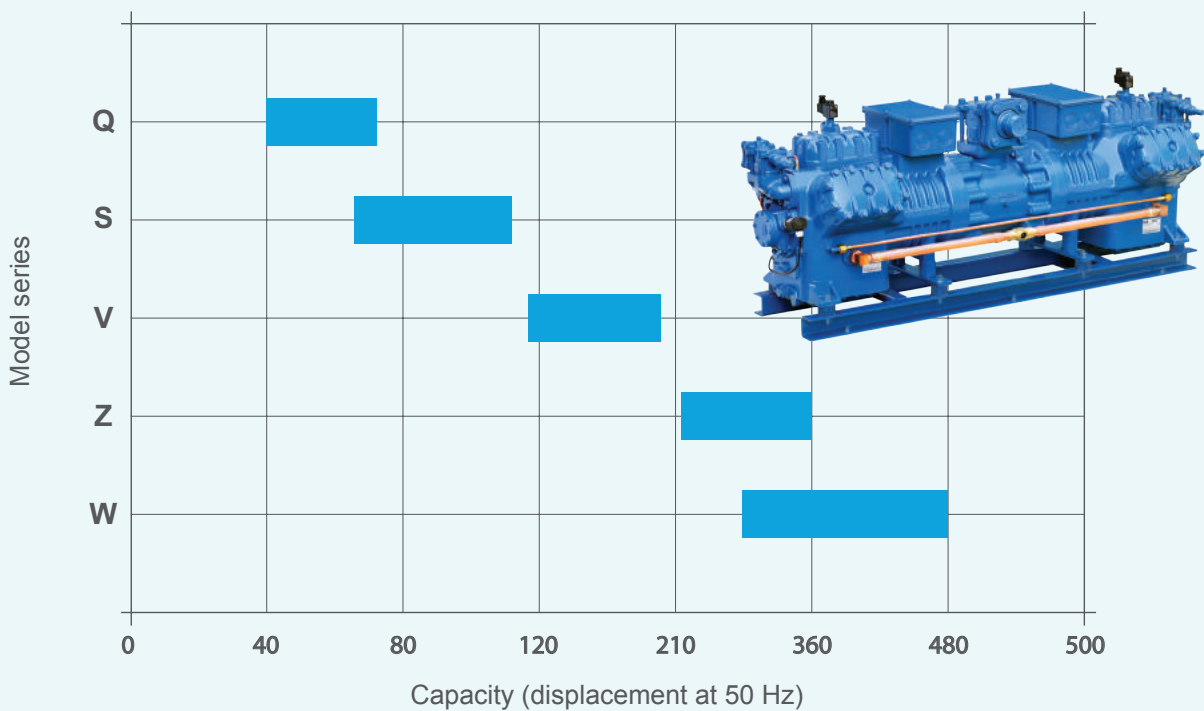
All compressor models Q, S, V, Z and W are also available in TWIN version; two compressors with the same volume displaced are coupled together through a common intake flange. The TWIN configuration is the easiest way to connect 2 compressors in parallel. Starting or stopping one of the compressors ensures easy capacity adjustment and higher efficiency.

In addition all models can also be equipped with the RSH system for adjusting the capacity, or with the standard CC heads. Especially for applications with large load fluctuations, operation at full or partial load thus becomes more efficient.

Range of models

Current range:

5 series, 64 models with 26 capacity stages, from 39.50 to 478.00 m³/h (50 Hz)



Technical specifications

Compressor	Cylinders Nr.	Displacement m ³ /h 50Hz	Oil Charge dm ³	Net Weight kg	Electrical data									Pipe connections ⑩			
					Motor		Max operating current A [x2] ⑨ ⑪			Max power consumption kW [x2]	Locked rotor current A [x2] ⑨ ⑪			Suction [x1]		Discharge [x2]	
					Version	Connections	230V		400V		230V		400V		inch	mm	inch
							④	⑤ ⑥	DOL	DOL	PWS	⑨	⑪	DOL	DOL	PWS	
TWIN Q4-20.1E	4+4		3,2	151	3		10,6	6,1		3,1	97,8	56,3		1 ⁵ / ₈	28,6	¾	19,0
TWIN Q4-20.1Y	4+4	39,54	3,2	151	2	⑦	17,5	10,1		5,7	92,6	53,2		1 ⁵ / ₈	28,6	¾	19,0
TWIN Q4-21.1Y	4+4		3,2	161	2	⑦	17,3	10,0		5,7	92,6	53,2		1 ⁵ / ₈	28,6	¾	19,0
TWIN Q5-21.1Y	4+4	42,36	3,2	161	1	⑦	20,1	11,6		6,6	109,7	63,1		1 ⁵ / ₈	28,6	¾	19,0
TWIN Q4-24.1E	4+4		3,2	161	3		12,5	7,2		4,0	97,8	56,3		1 ⁵ / ₈	28,6	¾	19,0
TWIN Q4-24.1Y	4+4	47,82	3,2	161	2	⑦	20,3	11,7		6,8	92,6	53,2		1 ⁵ / ₈	28,6	¾	19,0
TWIN Q5-24.1Y	4+4		3,2	161	1		23,9	13,8		7,9	109,7	63,1		1 ⁵ / ₈	28,6	¾	19,0
TWIN Q4-25.1Y	4+4		3,2	161	2		19,1	11,0		7,0	92,6	53,2		1 ⁵ / ₈	28,6	¾	19,0
TWIN Q5-25.1Y	4+4	49,38	3,2	161	2	⑦	22,1	12,7		8,5	109,7	63,1		1 ⁵ / ₈	28,6	¾	19,0
TWIN Q7-25.1Y	4+4		3,2	161	1		26,8	15,4		8,4	151,8	87,3		1 ⁵ / ₈	28,6	¾	19,0

Semi-hermetic reciprocating TWIN compressors

Technical specifications

Compressor	Cylinders Nr.	Displacement m ³ /h 50Hz	Oil Charge dm ³	Net Weight kg	Electrical data									Pipe connections ^⑩			
					Motor		Max operating current A [x2]			Max power consumption kW [x2]	Locked rotor current A [x2]			Suction [x1]		Discharge [x2]	
					Version	Connections	A [x2]		PWS		A [x2]			inch	mm	inch	mm
							230V	400V		230V	400V	PWS					
①	②	③	④	⑤	⑥	DOL	DOL	PWS	⑨	⑪	DOL	DOL	PWS				
TWIN Q5-28.1E	4+4		3,2	161	3		13,7	7,9		4,7	95,1	54,7		1 ⁵ / ₈	35,0	1 ¹ / ₈	28,6
TWIN Q5-28.1Y	4+4	56,04	3,2	161	2	⑦	24,3	14,0		8,2	109,7	63,1		1 ⁵ / ₈	35,0	1 ¹ / ₈	28,6
TWIN Q7-28.1Y	4+4		3,2	161	1		30,7	17,6		9,5	151,8	87,3		1 ⁵ / ₈	35,0	1 ¹ / ₈	28,6
TWIN Q5-33.1E	4+4		3,2	161	3		16,2	9,3		5,6	95,1	54,7		1 ⁵ / ₈	35,0	1 ¹ / ₈	28,6
TWIN Q5-33.1Y	4+4	65,32	3,2	161	2	⑦	25,0	14,4		8,3	109,7	63,1		1 ⁵ / ₈	35,0	1 ¹ / ₈	28,6
TWIN Q7-33.1Y	4+4		3,2	161	1		34,7	20,0		11,2	151,8	87,3		1 ⁵ / ₈	35,0	1 ¹ / ₈	28,6
TWIN Q5-36.1E	4+4	71,72	3,2	161	3	⑦	20,5	11,8		6,9	109,7	63,1		1 ⁵ / ₈	35,0	1 ¹ / ₈	28,6
TWIN Q7-36.1Y	4+4		3,2	161	1		33,6	19,4		10,8	151,8	87,3		1 ⁵ / ₈	35,0	1 ¹ / ₈	28,6
TWIN S5-33Y	4+4	65,60	5,8	235	2	⑧			15,9	7,8		57,8	35,5	1 ³ / ₈	35,0	1 ¹ / ₈	28,6
TWIN S7-33Y	4+4		5,8	239	1				20,4	11,1		75,0	47,0	1 ³ / ₈	35,0	1 ¹ / ₈	28,6
TWIN S8-42E	4+4		5,8	239	3				12,8	7,3		90,3	52,7	1 ³ / ₈	35,0	1 ¹ / ₈	28,6
TWIN S8-42Y	4+4	82,64	5,8	239	2	⑧			20,3	11,8		90,3	52,7	1 ³ / ₈	35,0	1 ¹ / ₈	28,6
TWIN S12-42Y	4+4		5,8	245	1				22,4	12,9		102,3	59,1	1 ³ / ₈	35,0	1 ¹ / ₈	28,6
TWIN S10-52E	4+4		5,8	245	3				14,7	8,4		102,7	59,5	1 ³ / ₈	35,0	1 ¹ / ₈	28,6
TWIN S10-52Y	4+4	103,00	5,8	245	2	⑧			24,5	14,9		102,3	59,1	1 ³ / ₈	35,0	1 ¹ / ₈	28,6
TWIN S15-52Y	4+4		5,8	257	1				32,4	17,8		117,1	74,8	2 ⁵ / ₈	42,0	1 ¹ / ₈	28,6
TWIN S12-56E	4+4		5,8	265	3				16,1	9,0		102,7	59,5	2 ⁵ / ₈	42,0	1 ¹ / ₈	28,6
TWIN S15-56Y	4+4	112,00	5,8	265	2	⑧			30,7	16,5		117,1	74,8	2 ⁵ / ₈	42,0	1 ¹ / ₈	28,6
TWIN S20-56Y	4+4		5,8	269	1				38,4	19,6		136,2	87,5	2 ⁵ / ₈	42,0	1 ¹ / ₈	28,6
TWIN V15-59E	4+4		8,0	347	3				17,5	10,2		102,7	59,5	2 ⁵ / ₈	42,0	1 ¹ / ₈	28,6
TWIN V15-59Y	4+4	116,96	8,0	347	2	⑧			31,1	17,8		117,1	74,8	2 ⁵ / ₈	42,0	1 ¹ / ₈	28,6
TWIN V20-59Y	4+4		8,0	355	1				35,3	19,6		180,5	106,6	2 ⁵ / ₈	42,0	1 ¹ / ₈	28,6
TWIN V15-71E	4+4		8,0	355	3				20,2	12,0		102,7	59,5	2 ⁵ / ₈	42,0	1 ¹ / ₈	28,6
TWIN V15-71Y	4+4	141,54	8,0	355	2	⑧			32,2	19,6		117,1	74,8	2 ⁵ / ₈	42,0	1 ¹ / ₈	28,6
TWIN V25-71Y	4+4		8,0	375	1				43,5	23,6		202,7	118,3	3 ¹ / ₈	54,0	1 ³ / ₈	35,0
TWIN V20-84E	4+4		8,0	367	3				27,2	14,2		173,0	103,0	2 ⁵ / ₈	42,0	1 ¹ / ₈	28,6
TWIN V20-84Y	4+4	167,62	8,0	367	2	⑧			46,2	24,2		180,5	106,6	3 ¹ / ₈	54,0	1 ³ / ₈	35,0
TWIN V30-84Y	4+4		8,0	381	1				49,2	28,4		224,4	132,6	3 ¹ / ₈	54,0	1 ³ / ₈	35,0
TWIN V25-93Y	4+4	186,10	8,0	407	2	⑧			52,3	25,8		202,7	118,3	3 ¹ / ₈	54,0	1 ³ / ₈	35,0
TWIN V32-93Y	4+4		8,0	391	1				53,1	30,9		239,2	144,5	3 ¹ / ₈	54,0	1 ³ / ₈	35,0
TWIN V25-103E	4+4		8,0	415	3				29,9	16,9		210,3	122,7	3 ¹ / ₈	54,0	1 ³ / ₈	35,0
TWIN V25-103Y	4+4	205,8	8,0	415	2	⑧			52,3	28,8		202,7	118,3	3 ¹ / ₈	54,0	1 ³ / ₈	35,0
TWIN V35-103Y	4+4		8,0	421	1				61,0	38,5		239,2	144,5	3 ¹ / ₈	54,0	1 ³ / ₈	35,0
TWIN Z25-106E	6+6		7,4	451	3				30,2	17,1		210,3	122,7	2 ⁵ / ₈	54,0	1 ³ / ₈	35,0
TWIN Z25-106Y	6+6	212,32	7,4	451	2	⑧			53,6	31,9		202,7	118,3	2 ⁵ / ₈	54,0	1 ³ / ₈	35,0
TWIN Z35-106Y	6+6		7,4	457	1				60,2	35,1		239,2	144,5	2 ⁵ / ₈	54,0	1 ³ / ₈	35,0
TWIN Z30-126E	6+6		14,4	469	3				33,8	19,7		212,5	122,7	2 ⁵ / ₈	54,0	1 ³ / ₈	35,0
TWIN Z30-126Y	6+6	251,44	14,4	469	2	⑧			55,7	35,0		224,4	132,6	2 ⁵ / ₈	54,0	1 ³ / ₈	35,0
TWIN Z40-126Y	6+6		14,4	491	1				71,9	40,7		273,0	159,2	3 ¹ / ₈	67,0	1 ⁵ / ₈	42,0
TWIN Z40-154E	6+6		14,4	491	3				41,1	23,8		239,2	144,5	3 ¹ / ₈	67,0	1 ⁵ / ₈	42,0
TWIN Z40-154Y	6+6	308,76	14,4	491	2	⑧			77,9	37,9		273,0	159,2	3 ¹ / ₈	67,0	1 ⁵ / ₈	42,0
TWIN Z50-154Y	6+6		14,4	499	1				90,4	52,1		321,4	188,8	3 ¹ / ₈	67,0	1 ⁵ / ₈	42,0
TWIN W40-142Y	8+8	283,00	15,4	603	2	⑧			89,3	42,3		298,0	215,0	4 ¹ / ₈	67,0	1 ⁵ / ₈	42,0
TWIN W40-168Y	8+8	335,20	15,4	611	2	⑧			71,4	37,3		298,0	215,0	4 ¹ / ₈	67,0	1 ⁵ / ₈	42,0
TWIN W50-168Y	8+8		15,4	623	1				94,8	55,2		367,0	258,0	4 ¹ / ₈	79,4	2 ¹ / ₈	54,0
TWIN W50-187Y	8+8	372,20	15,4	635	2	⑧			89,1	50,2		367,0	258,0	4 ¹ / ₈	79,4	2 ¹ / ₈	54,0
TWIN W60-187Y	8+8		15,4	643	1				103,5	59,9		455,0	326,0	4 ¹ / ₈	79,4	2 ¹ / ₈	54,0
TWIN W60-206Y	8+8	411,60	15,4	653	2	⑧			98,8	56,7		455,0	326,0	4 ¹ / ₈	79,4	2 ¹ / ₈	54,0
TWIN W70-206Y	8+8		15,4	669	1				116,8	66,8		548,0	390,0	4 ¹ / ₈	79,4	2 ¹ / ₈	54,0
TWIN W70-228Y	8+8		15,4	669	2	⑧			109,5	61,9		548,0	390,0	4 ¹ / ₈	79,4	2 ¹ / ₈	54,0
TWIN W75-228Y	8+8	455,54	15,4	669	1				128,4	74,2		584,0	417,0	4 ¹ / ₈	79,4	2 ¹ / ₈	54,0
TWIN W75-240Y	8+8		15,4	669	2	⑧			115,3	65,4		584,0	417,0	4 ¹ / ₈	79,4	2 ¹ / ₈	54,0
TWIN W80-240Y	8+8	478,04	15,4	669	1				135,7	78,9		584,0	417,0	4 ¹ / ₈	79,4	2 ¹ / ₈	54,0

⑨ ⑪ Value referred to one compressor

See page 8 for other notes.

Semi-hermetic reciprocating two-stage compressors

Special features

The new Frascold two-stage compressor has been completely redesigned and re-engineered by eliminating the external manifolds of the interstage circuitry and including an additional liquid injection system. These new features provide the following benefits:

Injection of liquid in the second stage intake conduit: the amount of liquid injected is exactly what is required, therefore achieving the highest efficiency level.

The compressed gas and injected liquid mixing process is instantaneous and the liquid is not overheated as it does not go through the motor.

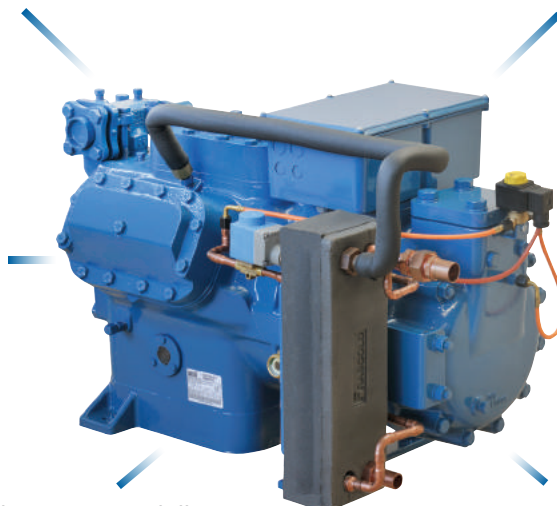
Sub-cooler kit: each model can be equipped with a sub-cooler (already installed and connected to the compressor or supplied already assembled but not mounted and connected).

Compact: thanks to the elimination of external conduits, the compressor features reduced dimensions. In addition to the absence of welding and pipes eliminates possible refrigerant leaks and heat dissipation, which cause system inefficiency.

Liquid injection on the motor side: thanks to the exclusive Motor Cooling System, the exact amount of fluid required to cool the motor is injected. This exclusive system, only available on Frascold compressors, prevents the formation of ice on the compressor body eliminating ice formation in the electrical box and flooded start.

Reliable and sturdy: The new specially designed components make the compressor resistant to all operating conditions within its working range.

Silent: the optimisation of the centre of gravity and the homogeneous distribution of weights ensure low vibrations and low noise.



Technical specifications

Compressor	Cylinders Nr.		Displacement m ³ /h 50Hz ②		Oil Charge dm ³	Net Weight kg	Electrical data						Pipe connections ⑦					
							Motor	Max operating current A ⑥		Max power consumption kW ⑥	Locked rotor current A ⑥		Suction		Discharge			
	230V	400V	230V	400V	inch	mm		inch	mm									
											DOL	DOL	PWS	DOL	DOL	PWS		
S5-26.16Y	2	2	25,2	16,4	3,3	120	⑧			14,0	8,3		57,8	35,5	5/8	15,8	1/2	12,7
S7-27.19Y	2	2	26,9	19,1	3,3	122	⑧			18,0	9,5		75,0	47,0	5/8	15,8	1/2	12,7
2V10-42.29Y	2	2	41,9	29,4	4,5	173	⑧			23,0	13,0		87,6	53,9	5/8	15,8	1/2	12,7
2Z15-60.30Y	4	2	58,8	29,4	7,5	220	⑧			31,0	17,0		117	74,8	5/8	15,8	1/2	12,7
2Z20-72.36Y	4	2	70,8	35,4	7,5	225	⑧			37,0	20,9		181	107	5/8	15,8	1/2	12,7
2Z25-84.42Y	4	2	83,8	41,9	7,5	230	⑧			45,0	25,8		208	118	7/8	22,2	5/8	15,8
2Z30-102.51Y	4	2	102,9	51,5	7,5	239	⑧			53,0	30,9		224	133	1 ¹ / ₈	35,0	1 ¹ / ₈	28,6

② Conversion factor for 60Hz = 1,2.

③ POE 32 cSt oil charge. Carter heater is strongly recommended.

④ Including valves, oil charge and rubber dampers.

⑤ Tolerance ±10% based on mean value of voltage range. Other voltages upon request.

⑥ Referred to 50Hz operation. At 60 Hz the max operating current remains unchanged while the max power consumption should be multiplied by 1,2. The maximum operating current /max. power consumption must be considered for the selection of cables, fuses and contactors (AC3 category).

⑦ Valves with solder connections.

⑧ 380V-420V $\Delta/\Delta/\Delta$ / 3 / 50Hz

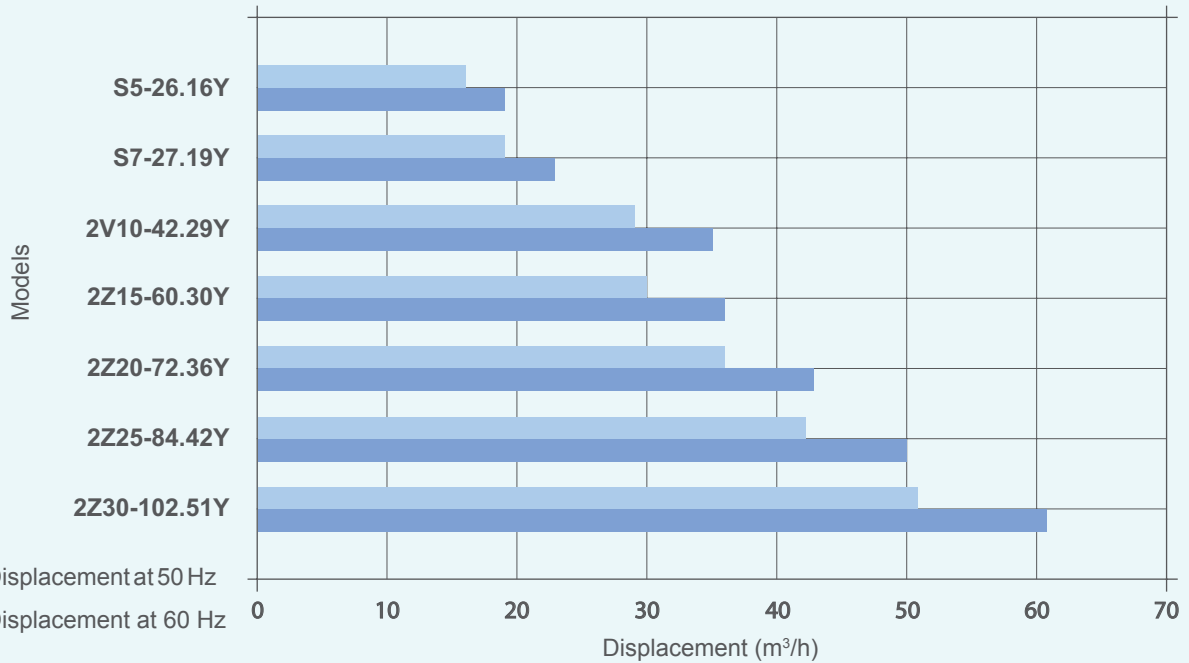
440V-480V $\Delta/\Delta/\Delta$ / 3 / 60Hz

Semi-hermetic reciprocating two-stage compressors

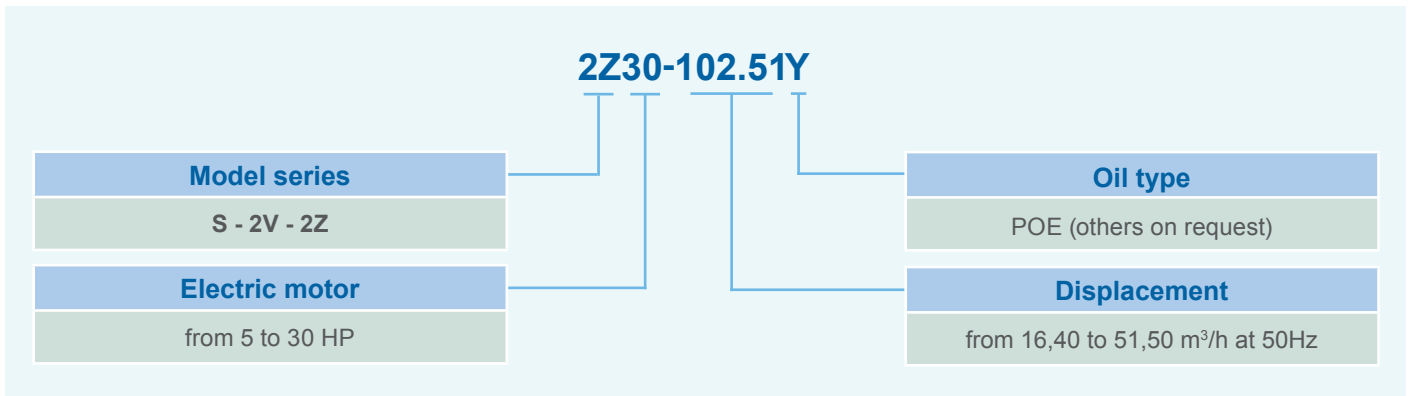
Range of models

Current range:

3 series, 7 models with 7 capacity stages, from 16 to 51 m³/h (50 Hz)



Model names



Compressor nameplate

All the important information to identify the compressor is displayed on the nameplate. The date of production is contained in the serial number. The indication of the type of coolant is the installer's responsibility.

frascold® Type **2Z30-102.51Y** Compressor model
 Nr. **3P001001** Serial number

Hz	Displ. m ³ /h	RPM	Max. Operating Disch. Pressure bar 30	
50	51/103	1450	Max. Static Suct. Pressure bar 20,5	
60	62/124	1740		

Oil type: POE32 3~ Safety markings: EAC CE

Volt		Hz	MRA		LRA	
PWS	YY	Hz	PWS	YY	PWS	YY
380-420	380-420	50	53	53	132,6	224,4
440-480	440-480	60	53	53	132,6	224,4

Bar code: [Barcode] Production facility: RESCALDINA ITALY

Identification number: **2Z30 3AP001001**

Frascold Selection Software FSS3

Frascold has released the FSS3 program, the new software dedicated to the processes in the refrigeration, air conditioning and heat pumps industry.

The software was developed by the Frascold technical research and development team, based on many years of experience in the production of compressors and their application in systems, from the simplest to the most complex.

Using the FSS3 software, it is possible to perform calculations based either on the requirements set by the user or on standard operating conditions (EN12900), for the selection of compressors and condensing units. FSS3 fully replaces the previous FSS2 software, with the addition of new important functions and applications. The software comes with a new graphical interface and is easy to use, accurate in calculations and flexible in the various functions.



Main features of FSS3

Easy to use and accurate in calculations, it provides users with all the elements necessary for the selection of compressors and condensing units, according to the project capacities and conditions:

- Provides performance reports for all products
- Lets you export reports to several useful formats for printing and archiving
- Displays the operating limits of all compressors and condensing units with all approved refrigerants
- Essential for contractors and designers in the development and design of complex systems
- Can be configured according to user needs
- Provides full support for the recalculation of performance coefficients in conditions other than standard EN12900
- Features the technical specifications of the selected products (dimensional drawings, mechanical and electrical data, etc.)
- Designed to receive notification whenever a software update is available

The program is available on our website in the Software section. Download the executable file to your computer, run it and follow the installation instructions. A program shortcut will be created on your desktop for easier start up.

Since
1936

Quality Product
Quality Service

From 1936 to date, a long process involving the development, constant improvement and attention to the latest technology

Throughout this time, Frascold has been producing made in Italy compressors for the cooling and air conditioning industry, for a wide range of applications.

It has built its reputation and established its international market position thanks to its ability to constantly improve its product, whilst cultivating customer relationships in order to stay firmly at the forefront of its sector.

With its technology, application experience and global presence, it offers products, solutions and services that allow customers to reap benefits in terms of performance, energy efficiency and operating comfort.

Today, Frascold is an industrial company that operates worldwide with experience, resources, great professional skills and tools to be nearby and to respond quickly to market needs.

Frascold products

Renowned worldwide for their high quality and used in commercial and industrial applications.

- Reciprocating compressors
- Screw compressors
- Condensing units

Applications

The products are used in many refrigeration sectors, relating to air conditioning, process chiller and heat pump; and they influence the daily lives of many people.

- Retail cooling systems
- Industrial refrigeration
- Transport refrigeration and marine cooling systems
- Environmental simulation chambers
- Air conditioning systems
- Liquid chillers
- Heat pumps



1936 - 2016

Celebrating 80 years of innovation



Blue is better

Headquarters and production

FRASCOLD SpA

Via B. Melzi 105 - 20027 Rescaldina (MI) Italy

Tel. +39 0331 742201 - Fax +39 0331 576102

mail: frascold@frascold.it - web: www.frascold.it

Corporate sales offices

FRASCOLD USA

5901 23rd Drive West, Suite 101

Everett, WA 98203

(855) 547-5600 Office

info@frascoldusa.com

www.frascoldusa.com

FRASCOLD CHINA

Frascold Refrigeration Co. Ltd

Room 608, 6th Floor, Jinqiao Life Hub, No.3611

Zhangyang Road, New Pudong District, Shanghai, Cina

+86 021 58650192 / +86 021 58650180

Fax: +86 021 58650180

nora.lu@frascold.net - www.frascold.it

FRASCOLD INDIA PVT LTD

C-908, Titanium Square,

Nr. Thaltej Cross Roads, S. G. Road,

Thaltej, Ahmedabad – 380 054,

Gujarat, India.

www.frascoldindia.com