50 Hz & 60 Hz

STANDARD SERIES

SEMI-HERMETIC RECIPROCATING COMPRESSORS

frascold

PRODUCT RANGE

STANDARD SEMI-HERMETIC RECIPROCATING COMPRESSORS

A, B, D SIZES

2 Cylinders - 22 Models

0.5 - 4 HP
4 - 19 m³/h @50Hz
4 - 22 m³/h @60Hz

Q, S, V SIZES

4 Cylinders - 40 Models

4 - 40 HP
20 - 123 m³/h @50Hz
24 - 148 m³/h @60Hz

Z SIZE

6 Cylinders - 11 Models

25 - 50 HP
106 - 185 m³/h @50Hz
127 - 222 m³/h @60Hz

W SIZE

8 Cylinders - 11 Models

40 - 80 HP
142 - 240 m³/h @50Hz
170 - 288 m³/h @60Hz

MODEL DESIGNATION

Z | 50 | - | 154 | Y

Sizes

A - B - D - Q - S - V - Z - W

Motor Size

From 0,5 to 80 HP

Oil Type

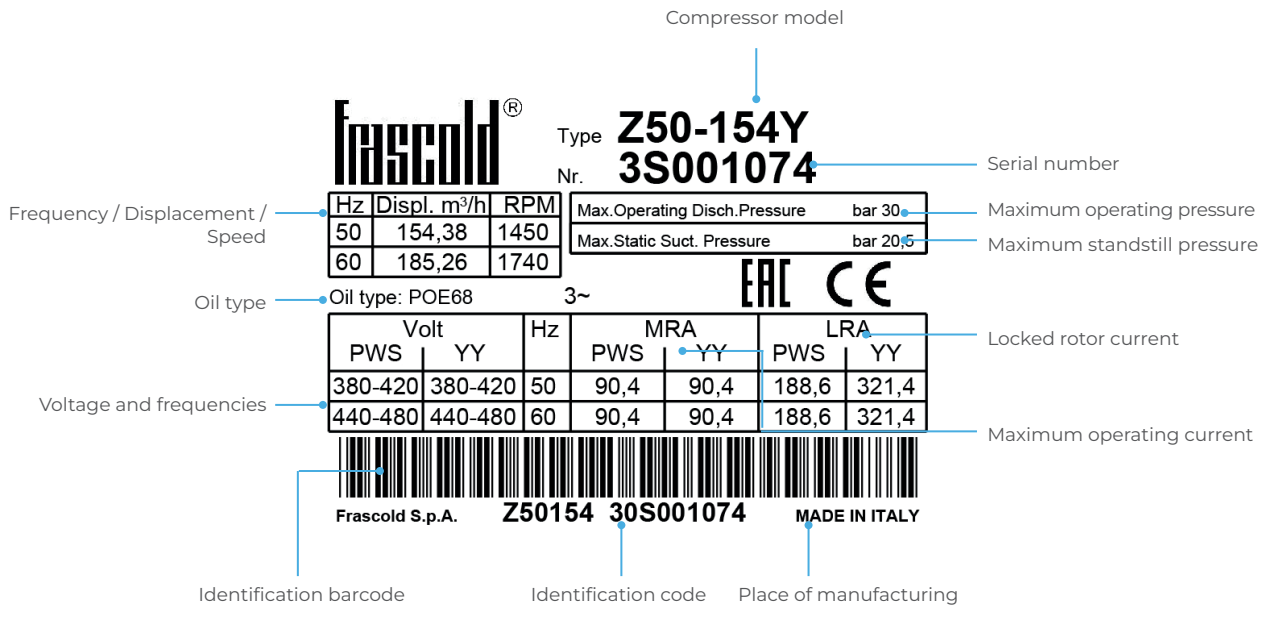
Y	POE (other on request)
H	PAG

Displacement

From 4 to 240 m³/h at 50Hz

INFORMATION PLATE

All the important information to identify the compressor is displayed on the nameplate.
The date of production is contained in the serial number.
The user is responsible for indicating the refrigerant type.



STANDARD EQUIPMENT AND OPTIONAL ACCESSORIES

Description	Sizes			
	A-B	D	Q-S	V-Z-W
Electric terminal box IP class protection IP56 For Sizes A, B, D, Q, IP54 for Size S, IP66 For Sizes V, Z & W	■	■	■	■
Thermistor	■	■	■	■
Control and protection device (INT69)	■	■	■	
Control, diagnostics & protection device (INT69 Diagnose and INT69 TML Diagnose)	□	□	□	■
Discharge temperature control sensor			□	■
Electronic oil differential pressure switch				■
Reversible oil pump				■
Oil level sight glass (Two for Sizes Q,S,V,Z,& W)	■	■	■	■
Oil charge*	■	■	■	■
Liquid injection connection			■	■
Suction shut-off valve	■	■	■	■
Discharge shut-off valve	■	■	■	■
Nitrogen charge (2bar min)	■	■	■	■
Rubber vibration dampers	■	■	■	■
Crankcase heater	□	□	□	□
US unloader start head			□	□
RSH capacity control head		□	□	□
CC capacity control head			□	□
Head cooling fan	□	□	□	□
Liquid injection kit (FLI)			□	□
Optoelectronic oil level switch				□
Kit adapters for oil equalization line	□	□	□	□
DP-Modbus Gateway	□	□	□	□
Connection cable Modbus Gateway - INT69	□	□	□	□
USB adapter cable	□	□	□	□
Bluetooth module for Diagnose	□	□	□	□

■ Standard
□ Optional

*(POE32 For Sizes A, B, D, Q & S, POE68 For Sizes V, Z & W)

CONTROL PROTECTION DEVICE

Discharge Temperature Cutoff
The discharge temperature in certain conditions such as high condensing temperatures, low evaporating pressures or extremely high compression ratios, may reach values that can damage the compressor. All V, Z and W sizes models are supplied with a **safety device** which, in combination with the electronic control module, stops the compressor in the event that the discharge temperature exceeds the set safety limit.

Electronic Safety Device to control lubrication
Frascold compressors in the V, Z and W sizes are supplied complete with an **electronic pressure switch** to control lubrication. It 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.

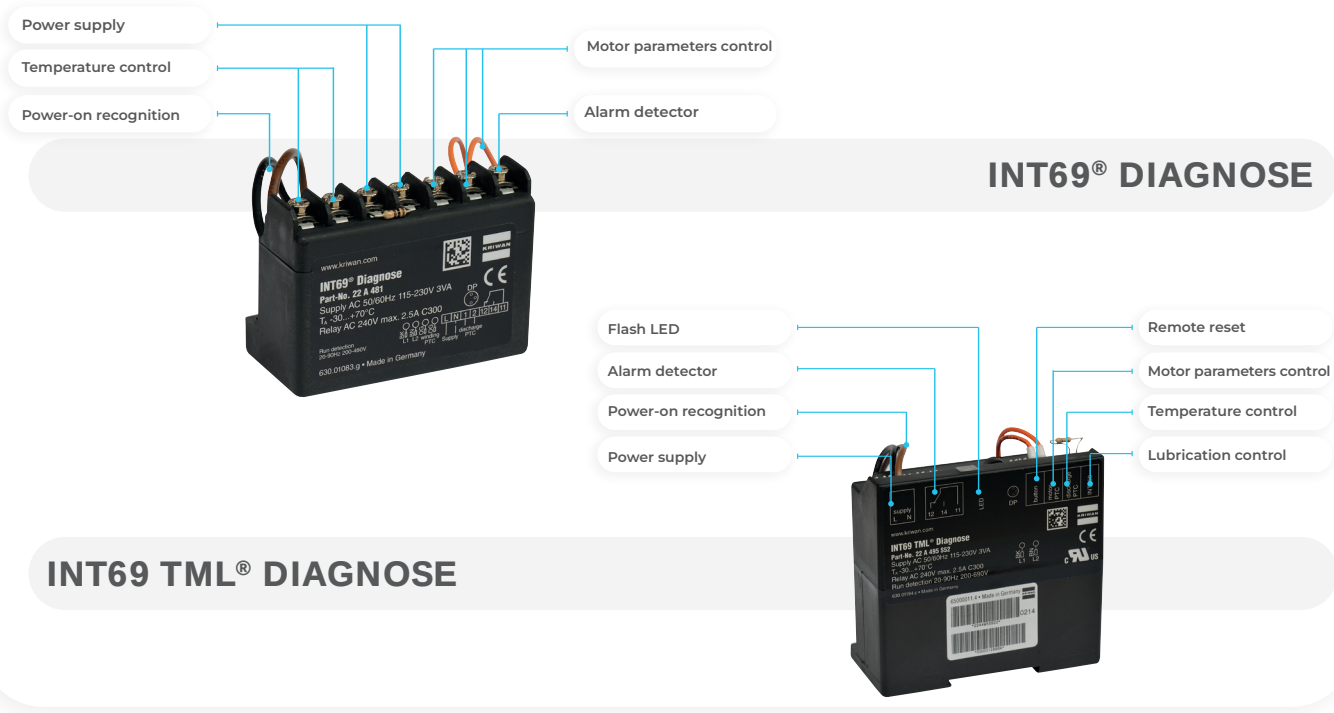
INT69®

Standard protection equipment on A, B, D, Q and S sizes compressors consists of a chain of PTC or AMS thermistors inserted in the electric motor stator and connected to the **Kriwan 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.

INT69® Diagnose
Kriwan INT69 TML® Diagnose protection device provides all of the protection of the **INT69®** with advanced diagnostic and communication functions, allowing the compressor to be remotely monitored in real time via modbus-Gateway.
System conditions are constantly monitored allowing the compressor to be stopped in the event of incorrect functional parameters and a quick identification of the cause of the malfunction through detailed reports. Stored data allows 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. **Kriwan INT69® Diagnose** is optional for all models from A to S sizes.

INT69 TML® Diagnose
Kriwan INT69 TML® Diagnose protection device provides all of the protection data logging and remote monitoring capabilities of the **INT69® and INT69® Diagnose** but with the addition of lubrication protection. Frascold V, Z and W sizes compressors come standard with **INT69 TML® Diagnose** module.



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

CAPACITY REGULATION

The capacity of standard reciprocating compressors can be regulated with:

1 CAPACITY CONTROL (CC)

2 REDUCED SUCTION HEAD (RSH)

3 VARIABLE FREQUENCY DRIVE (VFD)

1 CAPACITY CONTROL (CC)

Frascold offers a standard capacity control feature. Available on request on 4, 6 and 8-cylinder compressors, capacity may be adjusted by deactivating the heads in order to adapt the cooling capacity of the system to the actual thermal demand. This reduces the number of start-stop cycles and the stress on the compressor mechanics and electric motor. **Possible control stages:**

	4 CYLINDERS	6 CYLINDERS	8 CYLINDERS
2 STEPS	50 / 100%		
2 OR 3 STEPS		66 / 100%	50 / 75 / 100%

2 REDUCED SUCTION HEAD (RSH)

Frascold's patented **Reduced Suction Head (RSH)** unloading technology represents a revolution in capacity control for reciprocating compressors, avoiding problems caused by traditional unloading methods. Reducing to 50% the gas flow of the head, RSH equipped systems:

- **Can run unloaded indefinitely with no additional vibration, heat and stress to the motor** compared to standard unloading methods.
- Match more accurately **fluctuating cooling demand, saving a significant amount of energy** over traditional unloading.

RSH unloading is available exclusively on Frascold's reciprocating compressors (2, 4, 6 and 8 cylinders). RSH equipped systems provide greater application flexibility and significantly reduced energy costs due to the continuous operation of different partialization steps. Fewer start-stop cycles means increased service life, less downtime and lower maintenance costs.

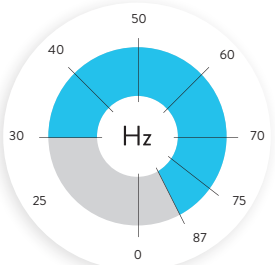
RSH HEADS	2 CYLINDERS	4 CYLINDERS	6 CYLINDERS	8 CYLINDERS
1	50 / 100%	75 / 100%	83 / 100%	87.5 / 100%
2		50 / 75 / 100%	66 / 83 / 100%	75 / 87.5 / 100%
3			50 / 66 / 83 / 100%	62.5 / 75 / 87.5 / 100%
4				50 / 62.5 / 75 / 87.5 / 100%

3 VARIABLE FREQUENCY DRIVE (VFD)

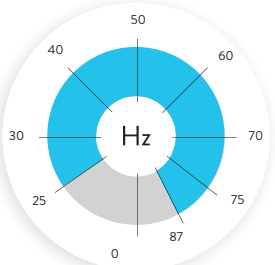
All Frascold standard semi-hermetic reciprocating compressors are designed to be compatible with inverter technology. Inverters, also known as variable frequency drives, can greatly improve performance and efficiency in many applications.

Always check on the Frascold Selection Software FSS3 for capacity data at the various frequencies.

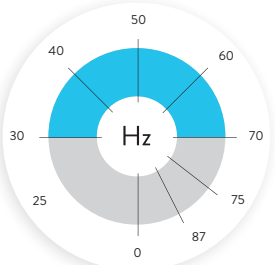
For 400V motors in certain application conditions, there might be a narrowing of the frequency range.



A-B-D Sizes



Q-S Sizes



V-Z-W Sizes

Motor power supply 220-240V (Δ) - 380-420V (Y) / 3ph / 50Hz | 265-290V (Δ) - 440-480V (Y) / 3ph / 60Hz | DOL connection

Model	Cylinders	Displacement		Oil charge (3/4 of sightglass)	Motor Vers.	Standard		LRA locked rotor current - DOL motor	
						MRA max operating current			
		50Hz	60Hz			Δ	人	Δ	人
		m³/h		[l]		[A]		[A]	
A05-4Y	2	3,95	4,74	1	1	4,9	2,8	18,6	10,7
A05-5Y	2	4,93	5,92	1	2	4,7	2,7	18,6	10,7
A07-5Y	2	4,93	5,92	1	1	4,7	2,7	18,6	10,7
A07-6Y	2	5,47	6,56	1	2	4,9	2,8	18,6	10,7
A1-6Y	2	5,47	6,56	1	1	6,2	3,6	23,6	13,6
A1-7Y	2	6,91	8,29	1	2	6,4	3,7	23,6	13,6
A1.5-7Y	2	6,91	8,29	1	1	7,9	4,5	35,8	20,6
A1.5-8Y	2	7,65	9,18	1	1	8,4	4,8	35,8	20,6
B1.5-9.1Y	2	8,96	10,75	1	2	10,2	5,9	46,6	26,8
B1.5-10.1Y	2	9,88	11,86	1	2	9,5	5,5	46,6	26,8
B2-10.1Y	2	9,88	11,86	1	1	11,7	6,7	62,5	35,9
D2-11.1Y	2	11,26	13,51	0,95	1	12,4	7,1	62,5	35,9
D2-13.1Y	2	13,15	15,78	0,95	2	12,4	7,1	62,5	35,9
D3-13.1Y	2	13,15	15,78	0,95	1	15,3	8,8	75,9	43,7
D2-15.1Y	2	15,36	18,43	0,95	2	14,6	8,4	62,5	35,9
D3-15.1Y	2	15,36	18,43	0,95	1	17,6	10,1	75,9	43,7
D3-16.1Y	2	16,4	19,68	0,95	2	17,2	9,9	75,9	43,7
D4-16.1Y	2	16,4	19,68	1,1	1	20,1	11,6	90,3	52
D3-18.1Y	2	17,93	21,52	0,95	2	17,3	10	75,9	43,7
D4-18.1Y	2	17,93	21,52	1,1	1	21,7	12,5	90,3	52
D3-19.1Y	2	19,12	22,94	0,95	2	17	9,8	75,9	43,7
D4-19.1Y	2	19,12	22,94	1,1	1	20,5	11,8	90,3	52
Q4-20.1Y	4	19,77	23,72	1,3	2	17,5	10,1	92,6	53,2
Q4-21.1Y	4	21,18	25,42	1,3	2	17,3	10	92,6	53,2
Q5-21.1Y	4	21,18	25,42	1,3	1	20,1	11,6	110	63,1
Q4-24.1Y	4	23,91	28,69	1,3	2	20,3	11,7	92,6	53,2
Q5-24.1Y	4	23,91	28,69	1,3	1	23,9	13,8	110	63,1
Q4-25.1Y	4	24,69	29,63	1,3	2	19,1	11	92,6	53,2
Q5-25.1Y	4	24,69	29,63	1,3	2	22,1	12,7	110	63,1
Q7-25.1Y	4	24,69	29,63	1,3	1	26,8	15,4	152	87,3
Q5-28.1Y	4	28,02	33,62	1,3	2	24,3	14	110	63,1
Q7-28.1Y	4	28,02	33,62	1,3	1	30,7	17,6	152	87,3
Q5-33.1Y	4	32,66	39,19	1,3	2	25	14,4	110	63,1
Q7-33.1Y	4	32,66	39,19	1,3	1	34,7	20	152	87,3
Q7-36.1Y	4	35,86	43,03	1,3	2	33,6	19,4	152	87,3
Q9-36.1Y	4	35,86	43,03	1,3	1	38,6	22,2	168	96.8
Q9-39.1Y	4	38,57	46,28	1,3	2	38,6	22,2	168	96.8
Q10-39.1Y	4	38,57	46,28	1,3	1	41,2	23,7	201	116

Find the most updated information and other supply voltages in our Frascold Selection Software FSS3 at the link: https://www.frascold.it/en/software

LEGAL DISCLAIMER:
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Technical data and operating limits

Motor power supply 380-420V (Y) / 3ph / 50Hz | 440-480V (Y) / 3ph /60Hz | PWS connection

Model	Cylinders	Displacement		Oil charge (3/4 of sightglass)	Motor Vers.	Standard	LRA locked rotor current - PWS motor
		50Hz	60Hz			MRA max operating current	
		m³/h		[l]		[A]	[A]
S5-33Y	4	32,8	39,36	2,9	2	15,9	35,5
S7-33Y	4	32,8	39,36	2,9	1	20,4	47
S8-42Y	4	41,32	49,58	2,9	2	20,3	52,7
S12-42Y	4	41,32	49,58	2,9	1	22,4	59,1
S10-52Y	4	51,5	61,8	2,9	2	24,5	59,1
S15-52Y	4	51,5	61,8	2,9	1	32,4	74,8
S15-56Y	4	56	67,2	2,9	2	30,7	74,8
S20-56Y	4	56	67,2	2,9	1	38,4	87,5
S20-63Y	4	63,2	75,84	2,9	2	33	102
S25-63Y	4	63,2	75,84	2,9	1	39,5	112
V15-59Y	4	58,48	70,18	4	2	31,1	74,8
V20-59Y	4	58,48	70,18	4	1	35,3	107
V15-71Y	4	70,77	84,92	4	2	32,2	74,8
V25-71Y	4	70,77	84,92	4	1	43,5	118
V20-84Y	4	83,81	100,57	4	2	42,6	107
V30-84Y	4	83,81	100,57	4	1	49,2	132,6
V25-93Y	4	93,05	111,66	4	2	52,3	118,3
V32-93Y	4	93,05	111,66	4	1	53,1	144,5
V25-103Y	4	102,9	123,48	4	2	52,3	118,3
V35-103Y	4	102,9	123,48	4	1	61	144,5
V30-112Y	4	112,11	134,53	4	2	56	132,6
V35-112Y	4	112,11	134,53	4	1	67,5	144,5
V30-123Y	4	123,13	147,76	4	2	60,5	132,6
V40-123Y	4	123,13	147,76	4	1	76,5	159,2
Z25-106Y	6	106,16	127,39	3,7	2	53,6	118,3
Z35-106Y	6	106,16	127,39	3,7	1	60,2	144,5
Z30-126Y	6	125,72	150,86	7,2	2	55,7	132,6
Z40-126Y	6	125,72	150,86	7,2	1	71,9	159,2
Z40-140Y	6	139,68	167,62	7,2	2	70	159,2
Z50-140Y	6	139,68	167,62	7,2	1	79,5	188,6
Z40-154Y	6	154,38	185,26	7,2	2	77,9	159,2
Z50-154Y	6	154,38	185,26	7,2	1	90,4	189
Z40-168Y	6	168,16	201,79	7,2	2	77,9	159
Z50-168Y	6	168,16	201,79	7,2	1	90,4	189
Z50-185Y	6	184,7	221,64	7,2	2	90,4	189
w40-142Y	8	141,5	169,8	7,7	1	89,3	215
W40-168Y	8	167,6	201,12	7,7	2	71,4	215
W50-168Y	8	167,6	201,12	7,7	1	94,8	258
W50-187Y	8	186,1	223,32	7,7	2	89,1	258
W60-187Y	8	186,1	223,32	7,7	1	103,5	326
W60-206Y	8	205,8	246,96	7,7	2	98,8	326
W70-206Y	8	205,8	246,96	7,7	1	116,8	390
W70-228Y	8	227,77	273,32	7,7	2	109,5	390
W75-228Y	8	227,77	273,32	7,7	1	128,4	417
W75-240Y	8	239,02	286,82	7,7	2	115,3	417
W80-240Y	8	239,02	286,82	7,7	1	135,7	417

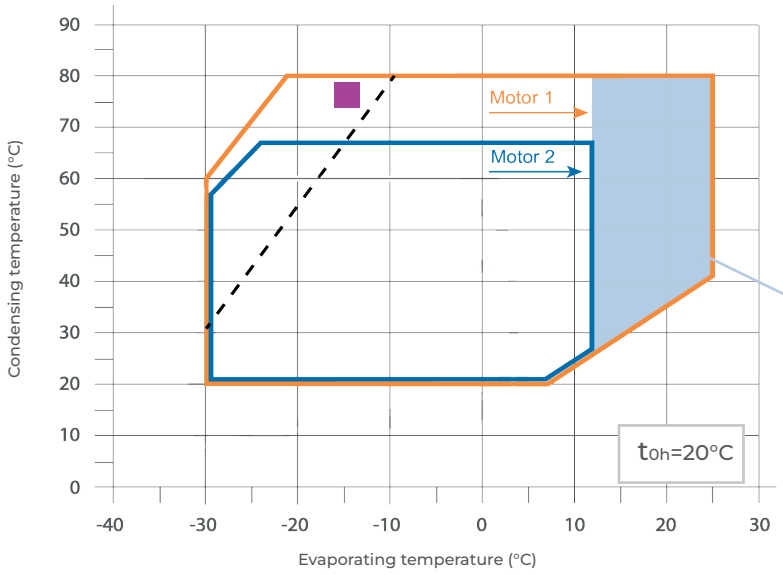
Tolerance ±10% compared to the average value of the motor voltage range. Other voltages are available on request.
To select contactors, cables and fuses, consider the MRA and the maximum absorbed power. Use AC3 category contactors.

OPERATING LIMITS

Diagrams published in this catalogue are to be considered as a general diagram for the full range of semi-hermetic reciprocating compressors. For specific model and refrigerant performance data, please use the FSS3 Frascold Selection Software available for free download at **https://www.frascold.it/software**

Motor 1 - Medium temperature applications
Motor 2 - Low temperature applications

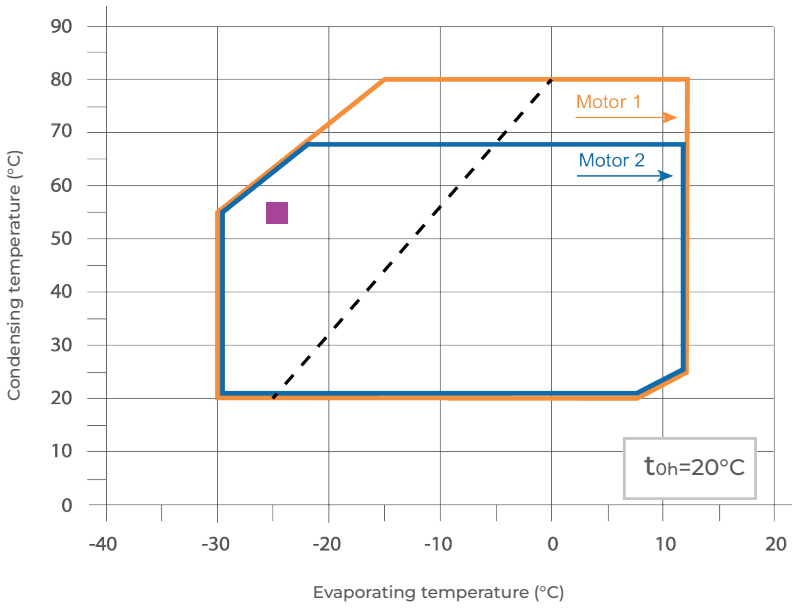
R134a



Standard application diagram
Motor size 1 - 2
Compressor capacity 100%
Suction gas temperature 20°C

For operation in this area please contact Frascold

R450A - R513A

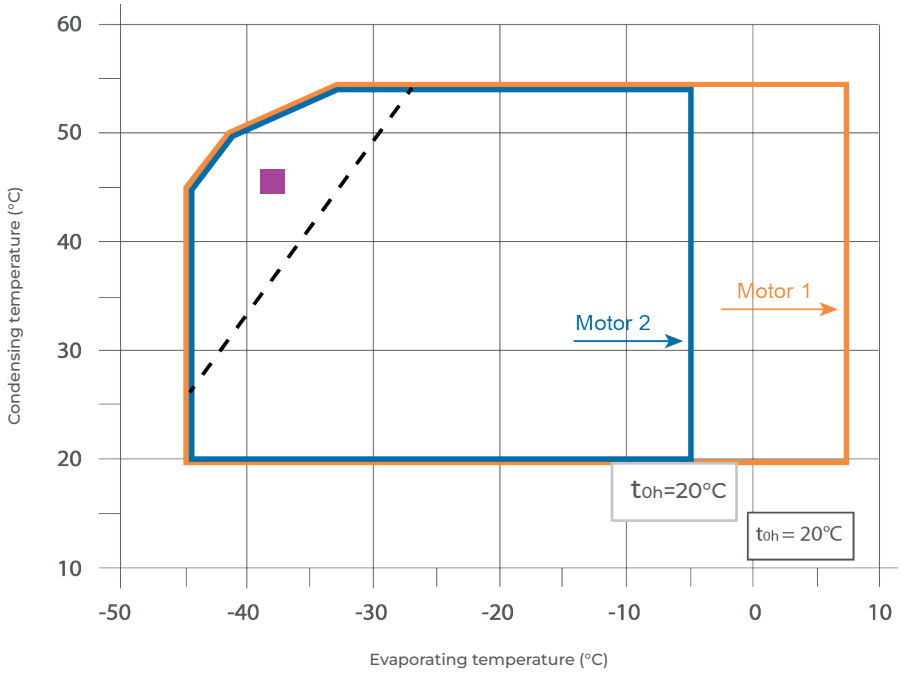


Standard application diagram
Motor size 1 - 2
Compressor capacity 100%
Suction gas temperature 20°C

OPERATING LIMITS

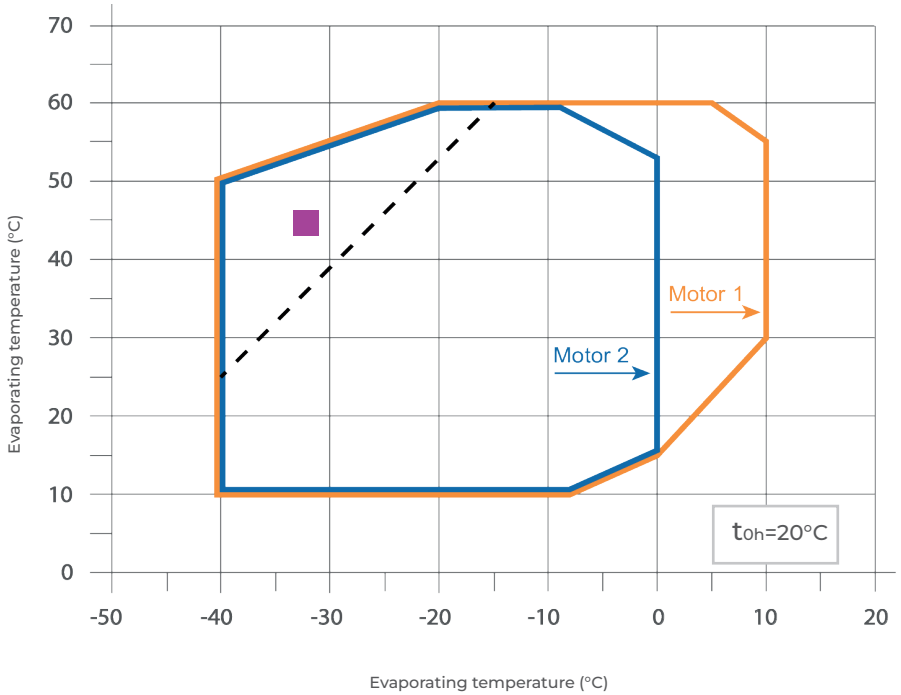
For additional cooling or superheat reduction or for performance data on a specific compressor model, please refer to Frascold selection software FSS3

R404A - R507A



Standard application diagram
Motor size 1 - 2
Compressor capacity 100%
Suction gas temperature 20°C

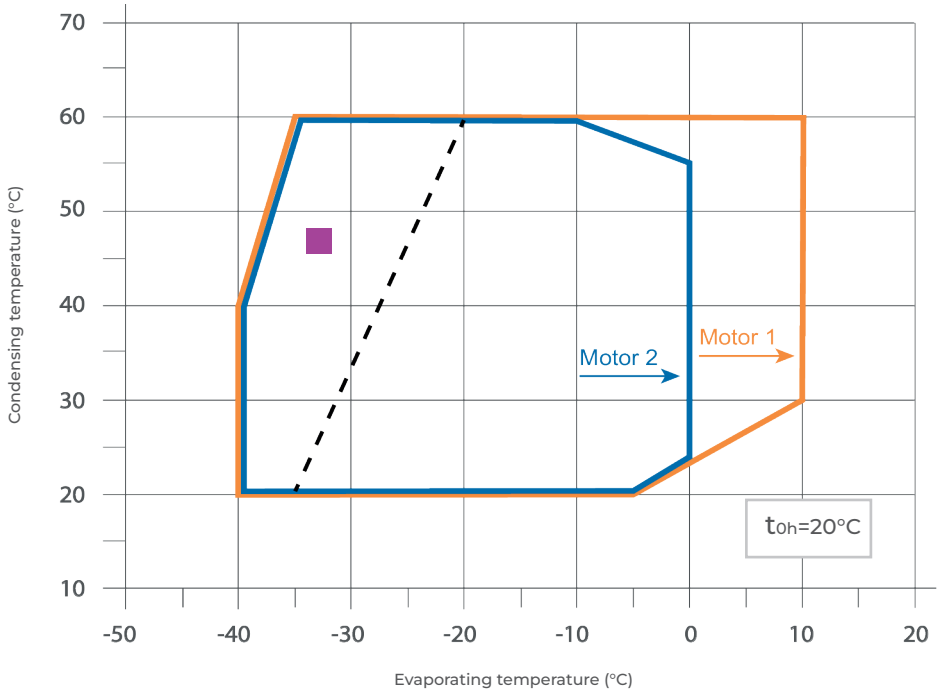
R448A - R449A



Standard application diagram
Motor size 1 - 2
Compressor capacity 100%
Suction gas temperature 20°C

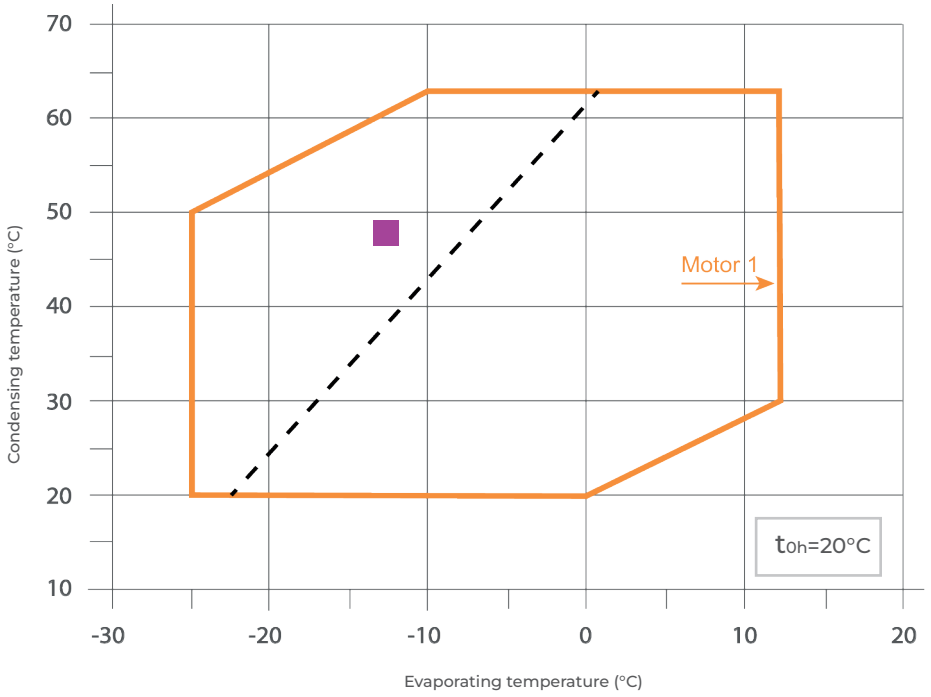
OPERATING LIMITS

R407F - R407A



Standard application diagram
Motor size 1 - 2
Compressor capacity 100%
Suction gas temperature 20°C

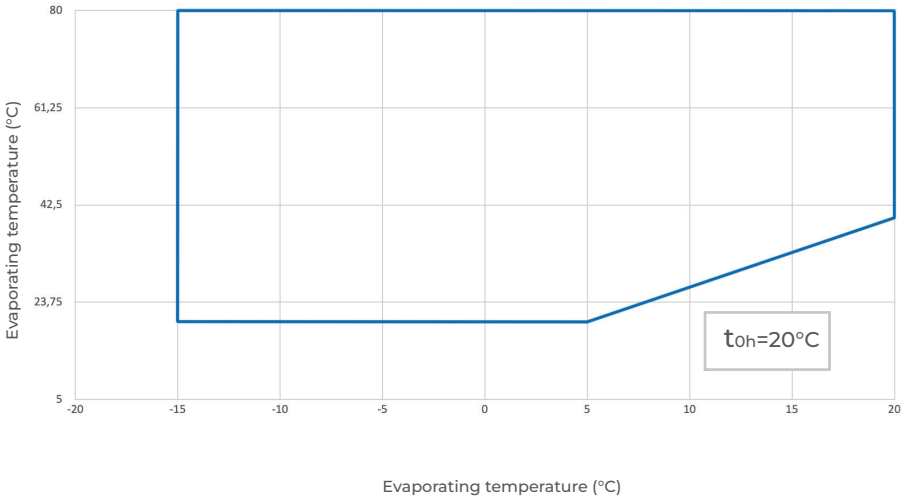
R407C



Standard application diagram
Motor size 1 - 2
Compressor capacity 100%
Suction gas temperature 20°C

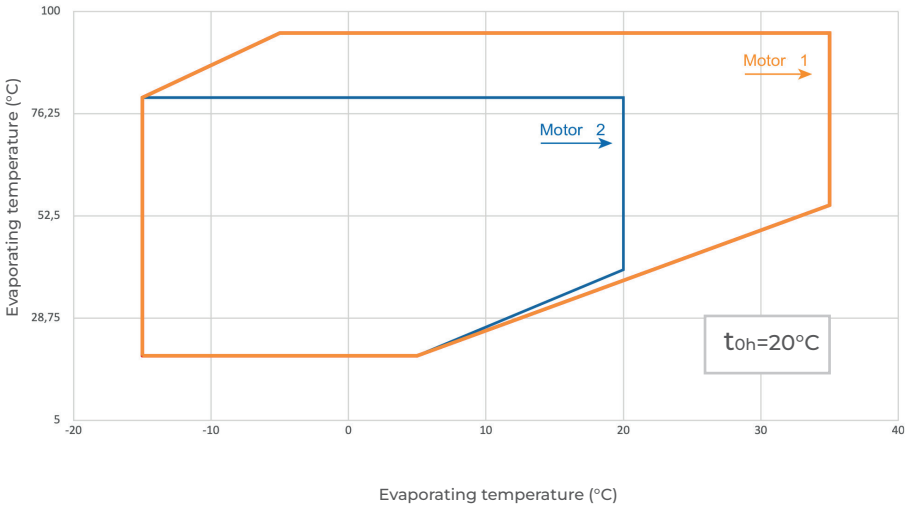
OPERATING LIMITS

R1234yf



Standard application diagram
Compressor capacity 100%
Suction gas temperature 20°C

R1234ze



Standard application diagram
Motor size 1 - 2
Compressor capacity 100%
Suction gas temperature 20°C

LEGAL DISCLAIMER:
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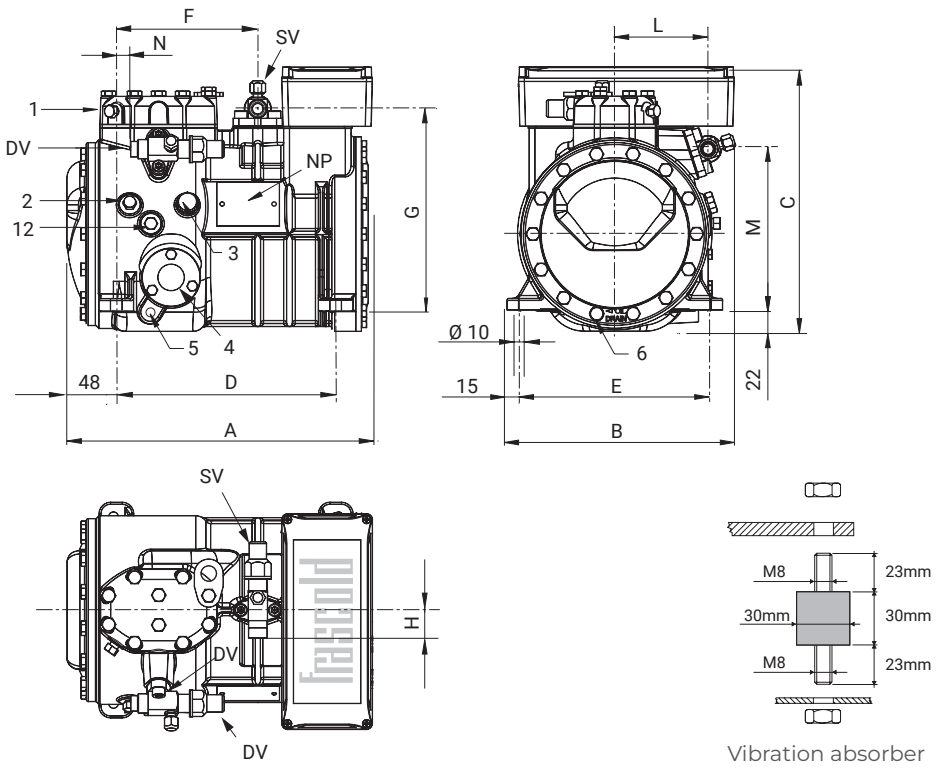
TECHNICAL DRAWINGS AND DIMENSIONS

A Size

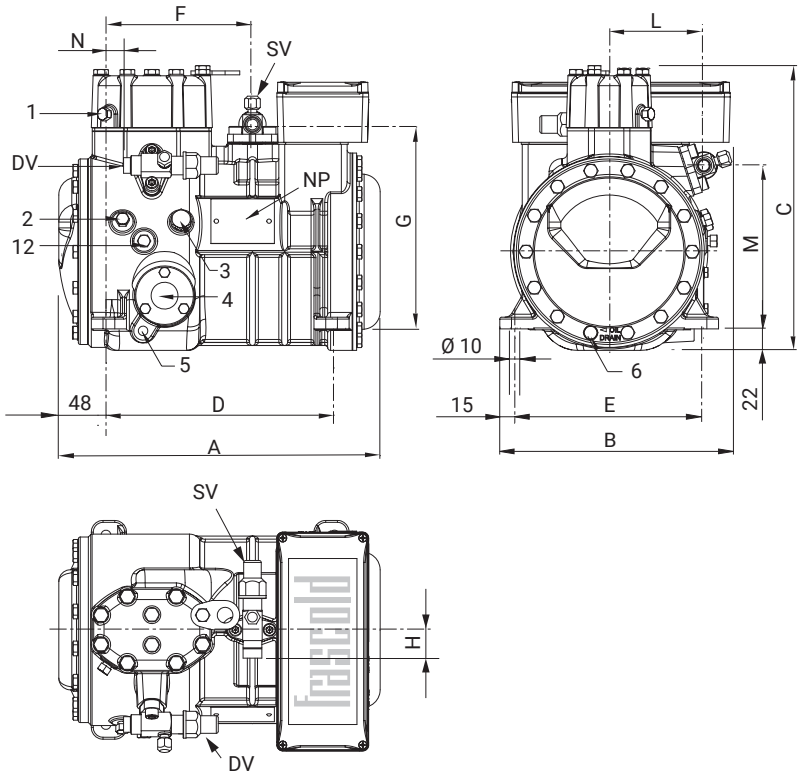
	Compressor					Valves position						Valves				Net weight
	Lenght	Width	Height	Base mounting		Suction			Discharge			Suction		Discharge		
	A	B	C	D	E	F	G	H	L	M	N	Ø		Ø		
	[mm]					[mm]						[inch]	[mm]	[inch]	[mm]	[Kg]
A05-4Y	317	237	275	234	194	150	209	29	97	167	18	5/8''	15,8	1/2''	12,7	36
A05-5Y																
A07-5Y																
A07-6Y																
A1-6Y																
A1-7Y																
A1.5-7Y																
A1.5-8Y																

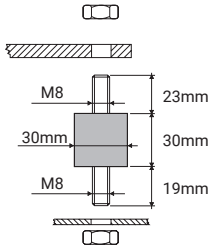


Vibration absorber

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 socket	
6	Oil drain plug	M8 x 22
12	Oil return plug	1/8" NPT
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

	Compressor					Valves position						Valves				Net weight
	Lenght	Width	Height	Base mounting		Suction			Discharge			Suction		Discharge		
	A	B	C	D	E	F	G	H	L	M	N	Ø		Ø		
	[mm]					[mm]						[inch]	[mm]	[inch]	[mm]	[Kg]
B1.5-9.1Y	329	237	292	234	194	150	209	29	97	167	18	5/8"	15,8	1/2"	12,7	38
B1.5-10.1Y																
B2-10.1Y	334	237	292	234	194	150	209	31	97	167	18	3/4"	19	5/8"	15,8	40

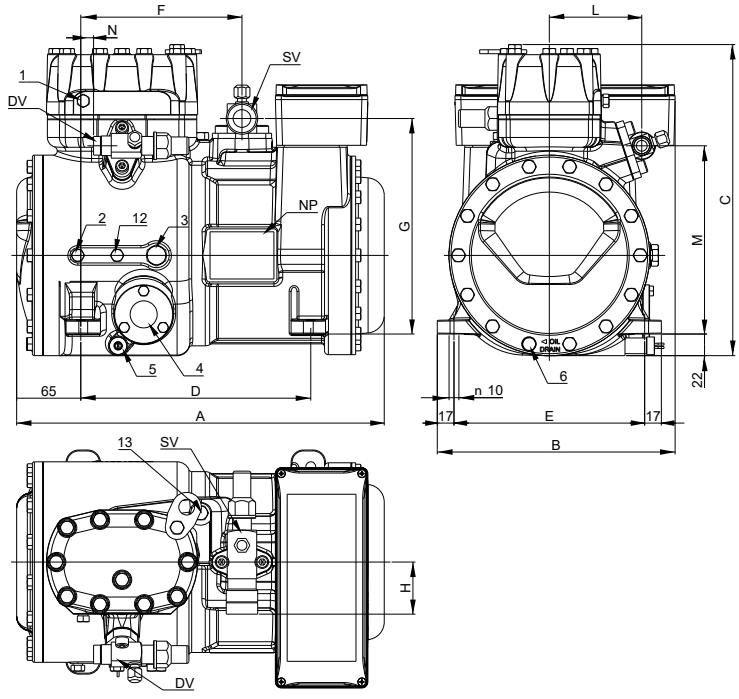


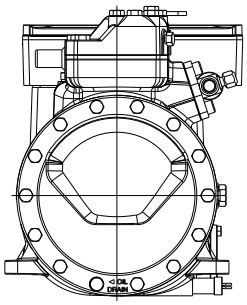


Vibration absorber

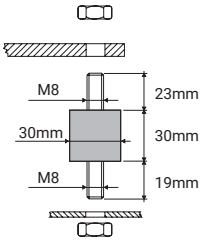
1	High pressure plug	1/8" NPT
2	Low pressure plug	1/8" NPT
3	Oil charge plug	1/4" GAS
4	Oil level sight glass	
5	Crankcase heater socket	
6	Oil drain plug	M8 x 22
12	Oil return plug	1/8" NPT
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

	Compressor					Valves position						Valves				Net weight
	Lenght	Width	Height	Base mounting		Suction			Discharge			Suction		Discharge		
	A	B	C	D	E	F	G	H	L	M	N	Ø		Ø		
	[mm]					[mm]						[inch]	[mm]	[inch]	[mm]	[Kg]
D2-11.1Y*	369	242	295	234	194	165	221	42	94	192	13	7/8''	22,2	5/8''	15,8	45
D2-13.1Y*	369	242	295	234	194	165	221	42	94	192	13	7/8''	22,2	5/8''	15,8	45
D3-13.1Y	374	242	317	234	194	165	225	53	94	192	13	1 1/8''	28,6	5/8''	15,8	49
D2-15.1Y*	369	242	294	234	194	165	221	42	94	192	13	7/8''	22,2	5/8''	15,8	45
D3-15.1Y	374	242	317	234	194	165	225	53	94	192	13	1 1/8''	28,6	5/8''	15,8	49
D3-16.1Y	374	242	317	234	194	165	225	53	94	192	13	1 1/8''	28,6	5/8''	15,8	49
D4-16.1Y	401	242	317	234	194	165	225	53	94	192	5	1 1/8''	28,6	3/4''	19	55
D3-18.1Y	374	242	317	234	194	165	225	53	94	192	13	1 1/8''	28,6	5/8''	15,8	55
D4-18.1Y	401	242	317	234	194	165	225	53	94	192	5	1 1/8''	28,6	3/4''	19	55
D3-19.1Y	374	242	317	234	194	165	225	53	94	192	13	1 1/8''	28,6	5/8''	15,8	49
D4-19.1Y	401	242	317	234	194	165	225	53	94	192	5	1 1/8''	28,6	3/4''	19	55





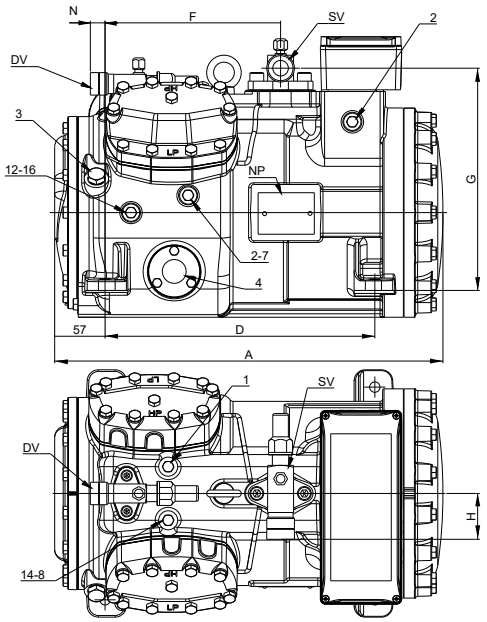
Only models with *

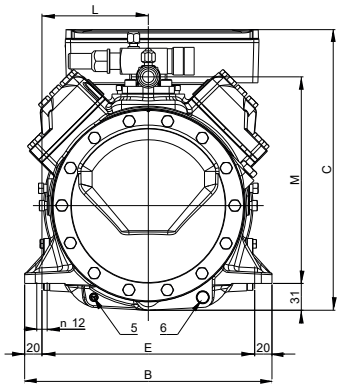


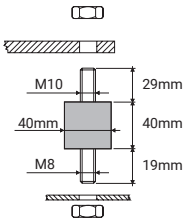
Vibration absorber

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 socket	
6	Oil drain plug	M8 x 22
12	Oil return plug	1/8" NPT
13	Liquid injection plug	
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

	Compressor					Valves position						Valves				Net weight
	Lenght	Width	Height	Base mounting		Suction			Discharge			Suction		Discharge		
	A	B	C	D	E	F	G	H	L	M	N	Ø		Ø		
	[mm]					[mm]						[inch]	[mm]	[inch]	[mm]	[Kg]
Q4-20.1Y	449	286	325	312	246	203	257	53	123	239	12	1 1/8"	28,6	3/4"	19	74
Q4-21.1Y Q5-21.1Y Q4-24.1Y	449	286	325	312	246	203	257	53	123	239	12	1 1/8"	28,6	3/4"	19	79
Q5-24.1Y	449	286	325	312	246	203	257	53	123	239	17	1 1/8"	28,6	7/8"	22,2	79
Q4-25.1Y	449	286	325	312	246	203	257	53	123	239	12	1 1/8"	28,6	3/4"	19	77
Q5-25.1Y Q7-25.1Y	449	286	325	312	246	203	257	53	123	239	17	1 1/8"	28,6	7/8"	22,2	79
Q5-28.1Y	449	286	325	312	246	203	261	58	123	239	17	1 3/8"	35	7/8"	22,2	79
Q7-28.1Y Q5-33.1Y Q7-33.1Y Q7-36.1Y	449	286	328	312	246	203	261	58	123	239	28	1 3/8"	35	1 1/8"	28,6	79
Q9-36.1Y Q9-39.1Y	464	286	328	312	246	203	261	58	123	239	28	1 3/8"	35	1 1/8"	28,6	83
Q10-39.1Y	480	286	328	312	246	203	261	58	123	239	28	1 3/8"	35	1 1/8"	28,6	88



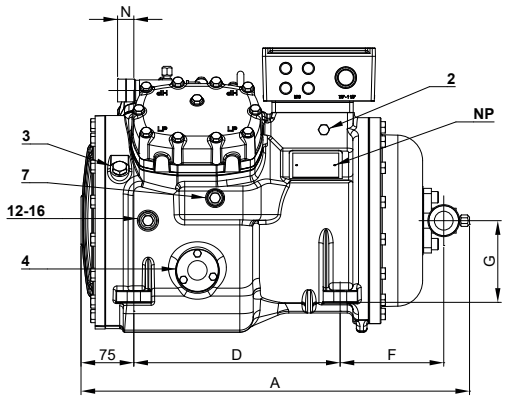


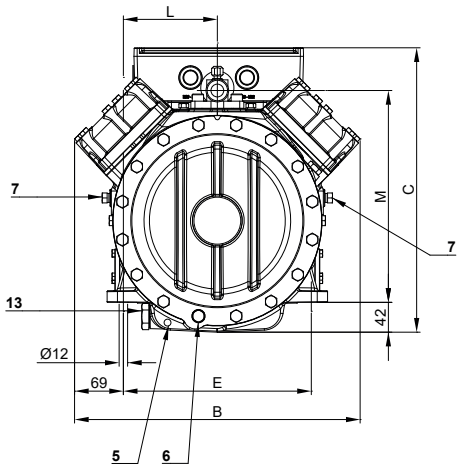


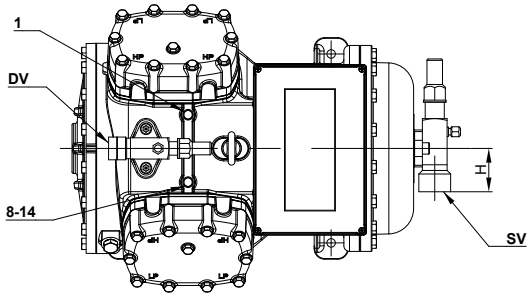
Vibration absorber

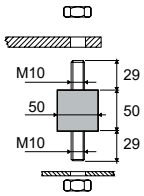
1	High pressure plug	1/8" NPT
2	Low pressure plug	1/8" NPT
3	Oil charge plug	1/4" GAS
4	Oil level sight glass	
5	Crankcase heater socket	
6	Oil drain plug	M8 x 22
7	Liquid injection valve plug	1/8" NPT
8	Liquid injection sensor plug	1/8" NPT
12	Oil return plug	1/8" NPT
14	Max discharge temperature sensor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

	Compressor					Valves position						Valves				Net weight
	Lenght	Width	Height	Base mounting		Suction			Discharge			Suction		Discharge		
	A	B	C	D	E	F	G	H	L	M	N	Ø		Ø		
	[mm]					[mm]						[inch]	[mm]	[inch]	[mm]	[Kg]
S5-33Y	550	405	405	292	266	147	115	58	133	298	23	1 3/8''	35	1 1/8''	28,6	115
S7-33Y S8-42Y	550	405	405	292	266	147	115	58	133	298	23	1 3/8''	35	1 1/8''	28,6	117
S12-42Y S10-52Y	550	405	405	292	266	147	115	58	133	298	23	1 3/8''	35	1 1/8''	28,6	120
S15-52Y	550	405	405	292	266	147	115	61	133	298	23	1 5/8''	42	1 1/8''	28,6	126
S15-56Y	550	405	405	292	266	147	115	61	133	298	23	1 5/8''	42	1 1/8''	28,6	130
S20-56Y	550	405	405	292	266	147	115	61	133	298	23	1 5/8''	42	1 1/8''	28,6	132





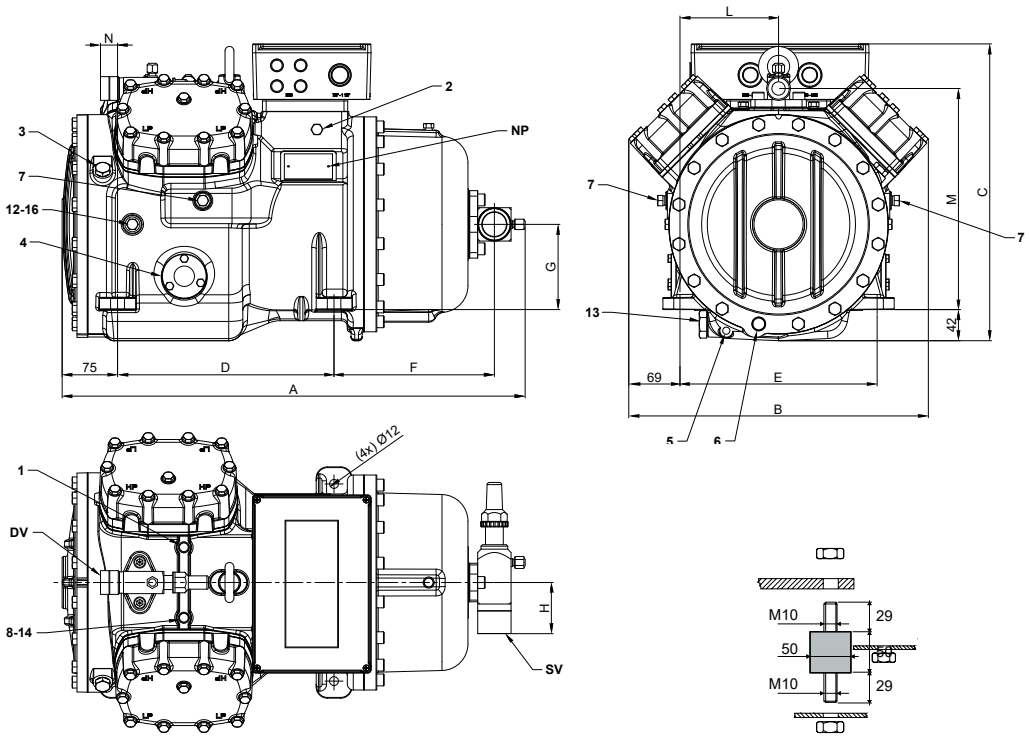




Vibration absorber

1	High pressure plug	1/8" NPT
2	Low pressure plug	1/4" NPT
3	Oil charge plug	1/4" GAS
4	Oil level sight glass	
5	Crankcase heater socket	
6	Oil drain plug	M10 x 30
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 position						Valves				Net weight
	Lenght	Width	Height	Base mounting		Suction			Discharge			Suction		Discharge		
	A	B	C	D	E	F	G	H	L	M	N	Ø		Ø		
	[mm]					[mm]						[inch]	[mm]	[inch]	[mm]	[Kg]
S20-63Y	625	405	401	292	266	216	115	69	133	298	23	1 5/8''	42	1 1/8''	28,6	137
S25-63Y	625	405	401	292	266	216	115	69	133	298	23	1 5/8''	42	1 1/8''	28,6	139

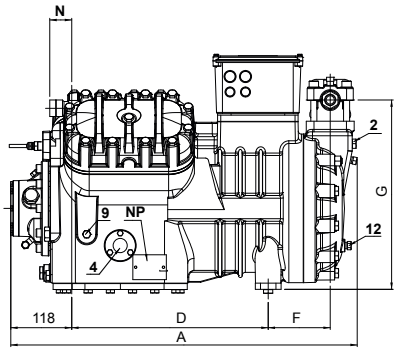


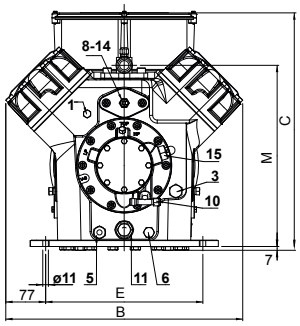
Vibration absorber

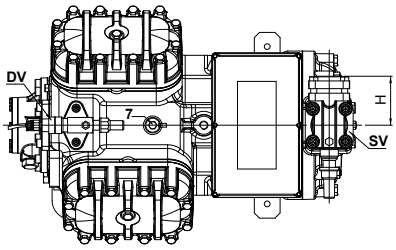
1	High pressure plug	1/8" NPT
2	Low pressure plug	1/8" NPT
3	Oil charge plug	1/4" GAS
4	Oil level sight glass	
5	Crankcase heater socket	
6	Oil drain plug	M10 x 30
7	Liquid injection valve plug	1/4" NPT
8	Liquid injection sensor plug	1/8" NPT
12	Oil return plug	1/4" NPT
13	Magnetic plug	1/2" GAS
14	Max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

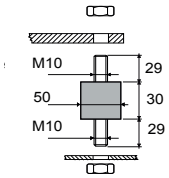
Standard Series

	Compressor					Valves position						Valves				Net weight
	Lenght	Width	Height	Base mounting		Suction			Discharge			Suction		Discharge		
	A	B	C	D	E	F	G	H	L	M	N	Ø		Ø		
	[mm]					[mm]						[inch]	[mm]	[inch]	[mm]	[Kg]
V15-59Y	672	460	463	381	305	120	367	95	152	352	43	1 5/8''	42	1 1/8''	28,6	170
V20-59Y	672	460	463	381	305	120	367	95	152	352	43	1 5/8''	42	1 1/8''	28,6	174
V15-71Y	672	460	463	381	305	120	367	95	152	352	43	1 5/8''	42	1 1/8''	28,6	170
V25-71Y	703	460	463	381	305	133	389	130	152	352	48	2 1/8''	54	1 1/8''	35	184
V20-84Y	672	460	463	381	305	120	367	95	152	352	43	1 5/8''	42	1 1/8''	28,6	180
V30-84Y	703	460	463	381	305	133	389	130	152	352	48	2 1/8''	54	1 3/8''	35	187
V25-93Y	703	460	463	381	305	133	389	130	152	352	48	2 1/8''	54	1 3/8''	35	190
V32-93Y	743	460	463	381	305	158	389	130	152	352	48	2 1/8''	54	1 3/8''	35	192
V25-103Y	703	460	463	381	305	133	389	130	152	352	48	2 1/8''	54	1 3/8''	35	190
V35-103Y	743	460	463	381	305	158	389	130	152	352	48	2 1/8''	54	1 3/8''	35	192
V30-112Y	743	460	463	381	305	158	389	130	152	352	48	2 1/8''	54	1 3/8''	35	190
V35-112Y	743	460	463	381	305	158	389	130	152	352	48	2 1/8''	54	1 3/8''	35	193
V30-123Y	743	460	463	381	305	158	389	130	152	352	48	2 1/8''	54	1 3/8''	35	190
V40-123Y	743	460	463	381	305	158	389	130	152	352	48	2 1/8''	54	1 3/8''	35	199





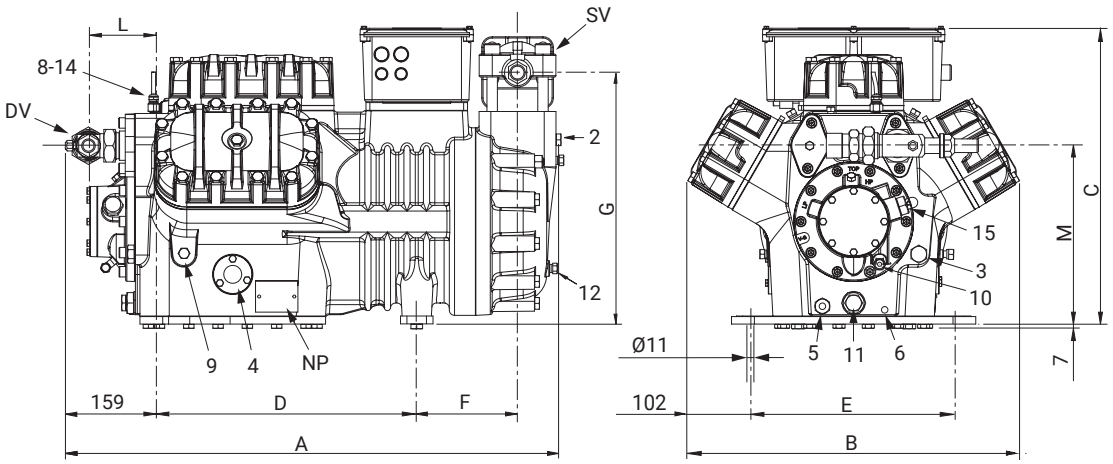


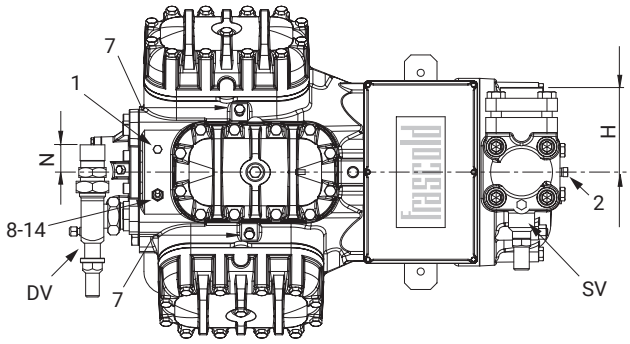


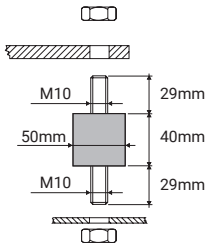
Vibration absorber

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 socket	
6	Oil drain plug	1/4" GAS
7	Liquid injection valve plug	1/4" NPT
8	Liquid injection sensor plug	1/8" NPT
9	Oil pressure switch connection (LP)	1/4" NPT
10	Oil pressure switch connection (HP)	1/4" SAE
11	Oil filter	3/8" GAS
12	Oil return plug	1/4" NPT
14	Max discharge temperature sensor	1/8" NPT
15	Electronic oil pressure switch connection	3/4" UNF
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

	Compressor					Valves position						Valves				Net weight
	Lenght	Width	Height	Base mounting		Suction			Discharge			Suction		Discharge		
	A	B	C	D	E	F	G	H	L	M	N	Ø		Ø		
	[mm]					[mm]						[inch]	[mm]	[inch]	[mm]	[Kg]
Z25-106Y	765	509	457	381	305	155	386	130	123	274	42	2 1/8''	54	1 3/8''	35	220
Z35-106Y	806	509	457	381	305	180	386	130	123	274	42	2 1/8''	54	1 3/8''	35	223



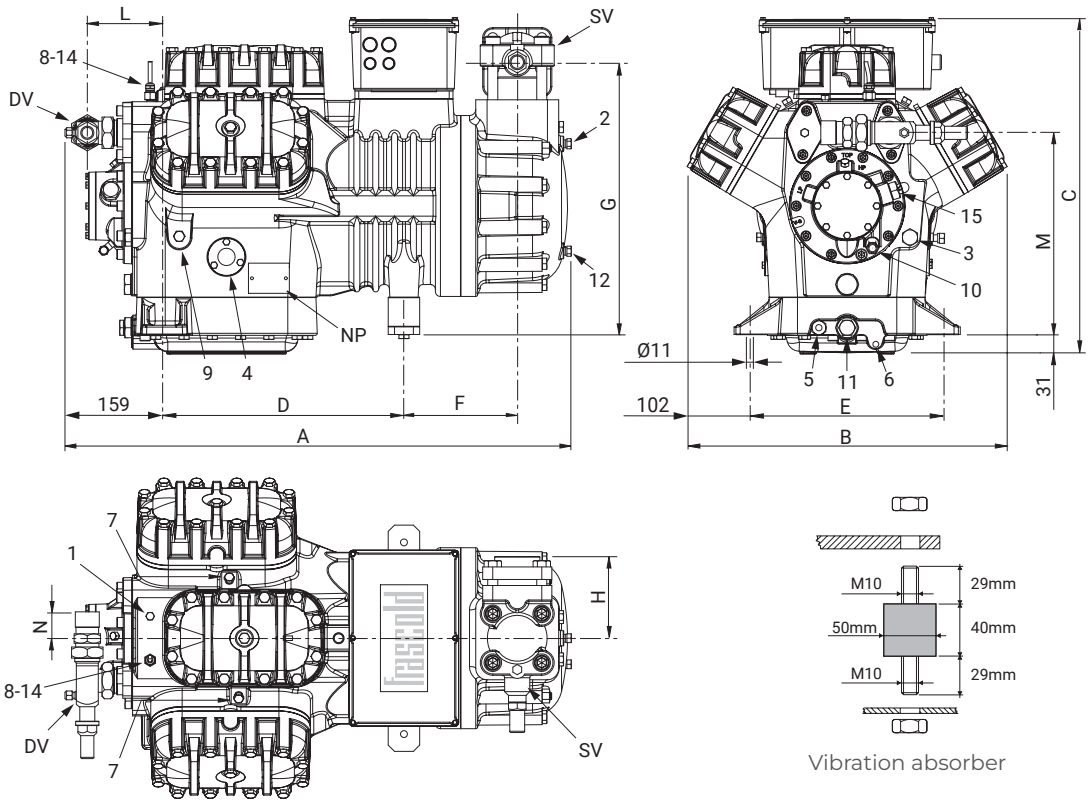




Vibration absorber

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 socket	
6	Oil drain plug	1/4" GAS
7	Liquid injection valve plug	1/8" NPT
8	Liquid injection sensor plug	1/8" NPT
9	Oil pressure switch connection (LP)	1/4" NPT
10	Oil pressure switch connection (HP)	1/4" SAE
11	Oil filter	3/8" GAS
12	Oil return plug	1/4" NPT
14	Max discharge temperature sensor	1/8" NPT
15	Electronic oil pressure switch connection	3/4" UNF
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

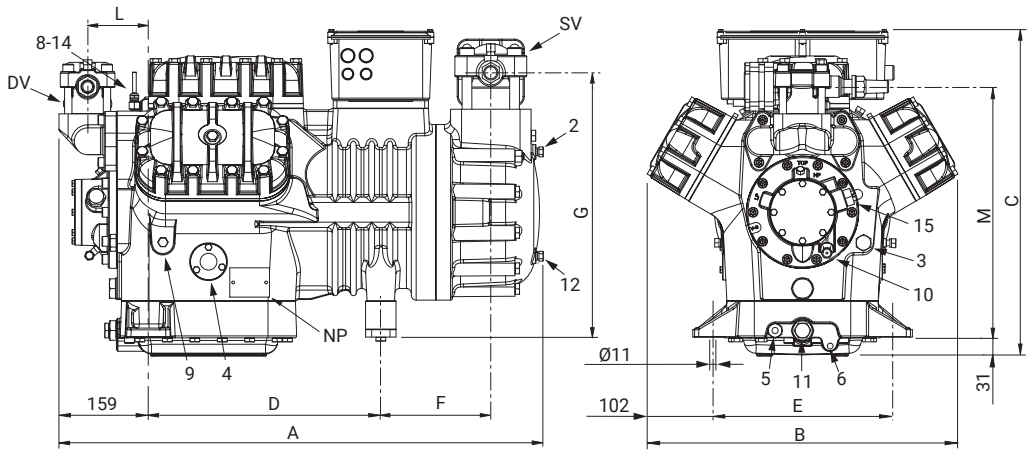
	Compressor					Valves position						Valves				Net weight
	Lenght	Width	Height	Base mounting		Suction			Discharge			Suction		Discharge		
	A	B	C	D	E	F	G	H	L	M	N	Ø		Ø		
	[mm]					[mm]						[inch]	[mm]	[inch]	[mm]	[Kg]
Z30-126Y	765	509	536	381	305	155	433	130	123	321	42	2 1/8''	54	1 3/8''	35	229
Z40-126Y	806	509	536	381	305	180	433	130	123	321	42	2 5/8''	67	1 3/8''	42	240

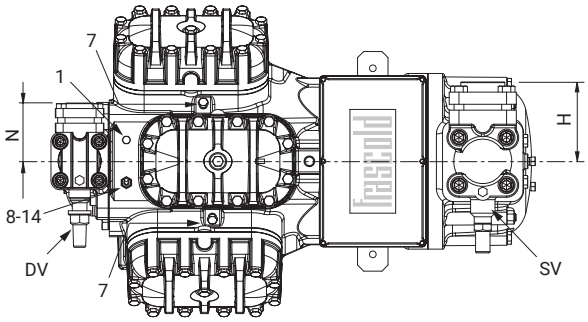


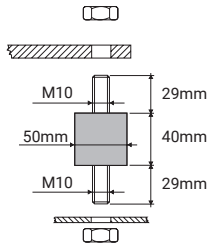
Vibration absorber

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 socket	
6	Oil drain plug	1/4" GAS
7	Liquid injection valve plug	1/8" NPT
8	Liquid injection sensor plug	1/8" NPT
9	Oil pressure switch connection (LP)	1/4" NPT
10	Oil pressure switch connection (HP)	1/4" SAE
11	Oil filter	3/8" GAS
12	Oil return plug	1/4" NPT
14	Max discharge temperature sensor	1/8" NPT
15	Electronic oil pressure switch connection	3/4" UNF
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

	Compressor					Valves position						Valves				Net weight
	Lenght	Width	Height	Base mounting		Suction			Discharge			Suction		Discharge		
	A	B	C	D	E	F	G	H	L	M	N	Ø		Ø		
	[mm]					[mm]						[inch]	[mm]	[inch]	[mm]	[Kg]
Z40-140Y	794	509	536	381	305	180	433	130	100	411	95	2 5/8''	67	1 5/8''	42	240
Z50-140Y	794	509	536	381	305	180	433	130	100	411	95	2 5/8''	67	1 5/8''	42	244
Z40-154Y	794	509	536	381	305	180	433	130	100	411	95	2 5/8''	67	1 5/8''	42	240
Z50-154Y	794	509	536	381	305	180	433	130	100	411	95	2 5/8''	67	1 5/8''	42	244
Z40-168Y	794	509	536	381	305	180	433	130	100	411	95	2 5/8''	67	1 5/8''	42	240
Z50-168Y	794	509	536	381	305	180	433	130	100	411	95	2 5/8''	67	1 5/8''	42	244
Z50-185Y																



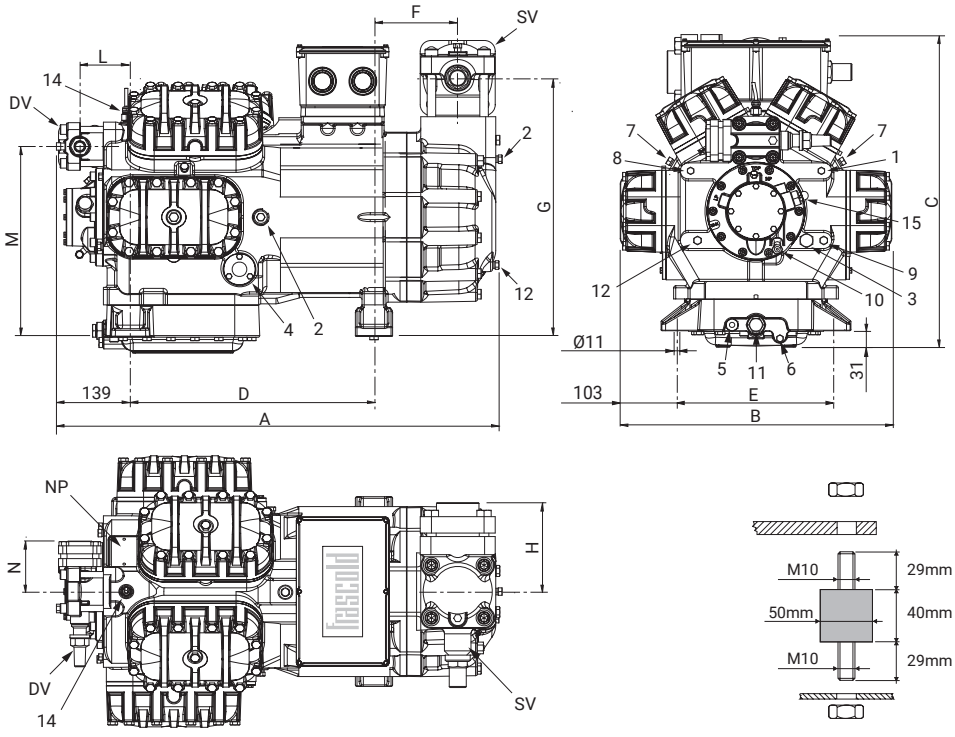




Vibration absorber

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 socket	
6	Oil drain plug	1/4" GAS
7	Liquid injection valve plug	1/8" NPT
8	Liquid injection sensor plug	1/8" NPT
9	Oil pressure switch connection (LP)	1/4" NPT
10	Oil pressure switch connection (HP)	1/4" SAE
11	Oil filter	3/8" GAS
12	Oil return plug	1/4" NPT
14	Max discharge temperature sensor	1/8" NPT
15	Electronic oil pressure switch connection	3/4" UNF
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

	Compressor					Valves position						Valves				Net weight
	Lenght	Width	Height	Base mounting		Suction			Discharge			Suction		Discharge		
	A	B	C	D	E	F	G	H	L	M	N	Ø		Ø		
	[mm]					[mm]						[inch]	[mm]	[inch]	[mm]	[Kg]
W40-142Y	838	511	588	458	305	158	486	160	95	358	95	2 5/8''	67	1 5/8''	42	295
W40-168Y	838	511	588	458	305	158	486	160	95	358	95	2 5/8''	67	1 5/8''	42	299
W50-168Y	838	511	588	458	305	158	486	160	95	358	95	3 1/8''	79,4	1 5/8''	42	305
W50-187Y	838	511	588	458	305	158	486	160	95	358	95	3 1/8''	79,4	1 5/8''	42	311
W60-187Y	838	511	588	458	305	158	486	160	95	358	95	3 1/8''	79,4	1 5/8''	42	315
W60-206Y	838	511	588	458	305	158	486	160	95	358	95	3 1/8''	79,4	2 1/8''	54	320
W70-206Y	864	511	588	458	305	190	486	160	95	358	162	3 1/8''	79,4	2 1/8''	54	328
W70-228Y	864	519	588	458	305	190	486	160	95	358	162	3 1/8''	79,4	2 1/8''	54	328
W75-228Y																
W75-240Y																
W80-240Y																



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 socket	
6	Oil drain plug	1/4" GAS
7	Liquid injection valve plug	1/8" NPT
8	Liquid injection sensor plug	1/8" NPT
9	Oil pressure switch connection (LP)	1/4" NPT
10	Oil pressure switch connection (HP)	1/4" SAE
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14	Max discharge temperature sensor	1/8" NPT
15	Electronic oil pressure switch connection	3/4" UNF
DV	Discharge valve	
SV	Suction valve	
NP	Nameplate	

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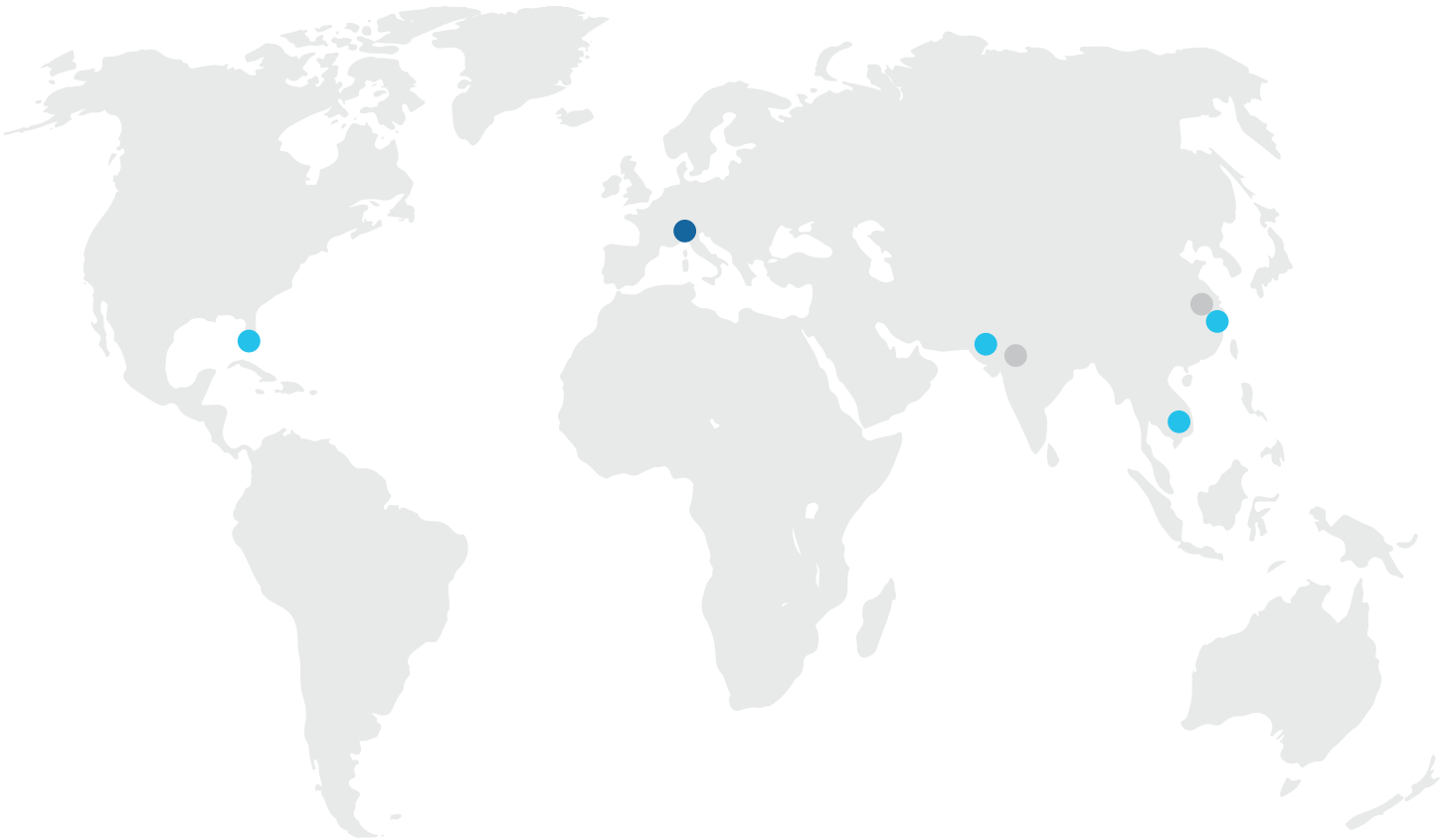

FCAT_100_24_00_EN
May 2024

We make
temperature