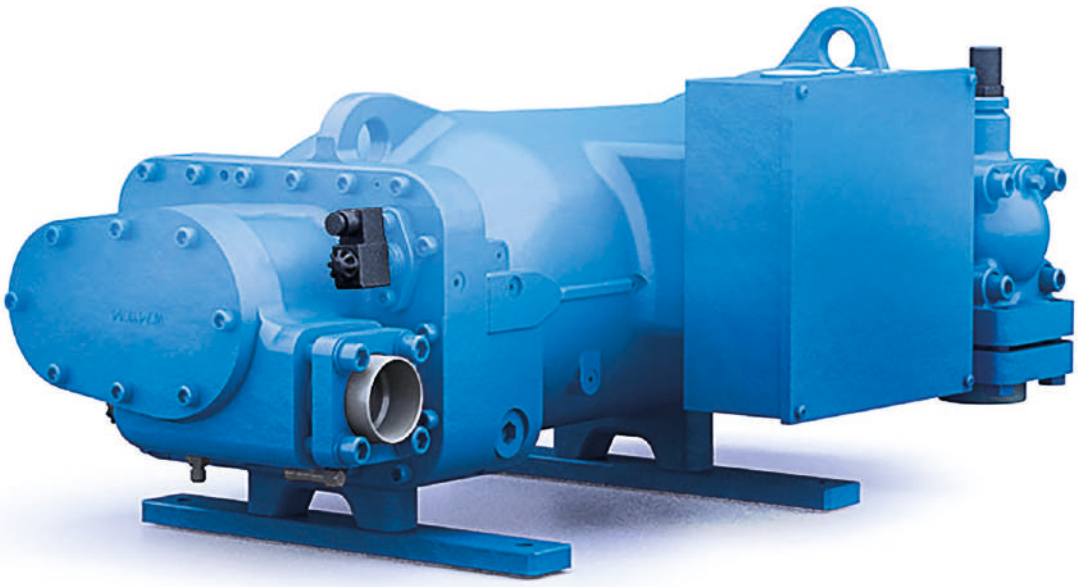
FVR SERIES

Semi-hermetic screw compressors for refrigeration



50Hz & 60Hz

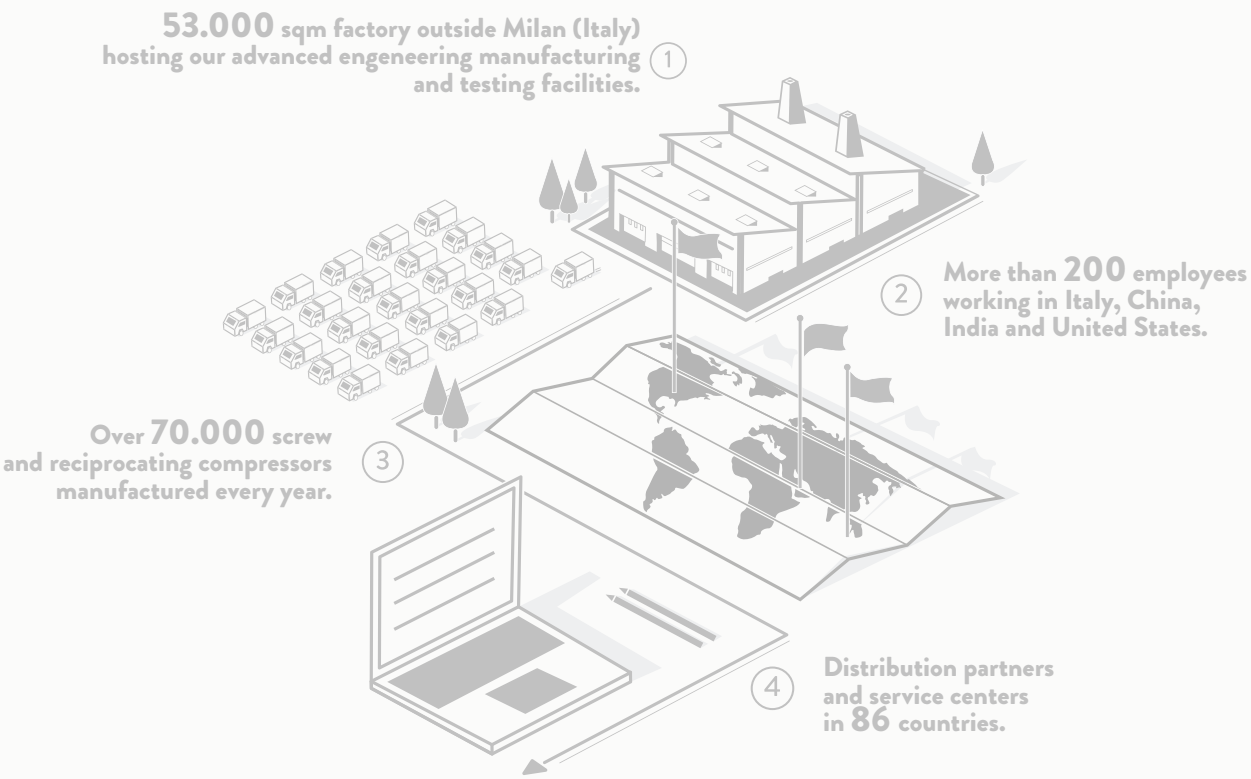
frascold®
Blue is better

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5 Segments and Solutions
6 Product Information
16 Technical Data and Operating Limits
22 Technical Drawings and Dimensions
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ABOUT THE COMPANY

Frascold manufactures over 70,000 screw and reciprocating compressors a year. Our 53,000 m² factory outside of Milan (Italy) houses our advanced engineering, manufacturing and testing facilities. More than 200 employees work in the Headquarters and in the Subsidiaries based in the United States, China and India, with distribution partners and service centers in 86 countries.



More than 85 years ago Frascold was born as a small family owned Company developing solutions in refrigeration and conditioning industry. Today we invest more and more in people, products, technologies and services aiming to become the best partner for our Customers and the touchstone for the market.

GIUSEPPE GALLI - Frascold Executive Managing Director

SEGMENTS

COMFORT



COMMERCIAL & TRANSPORT REFRIGERATION



INDUSTRIAL REFRIGERATION



PROCESS COOLING



SOLUTIONS

Cooling capacity range @50Hz & @60Hz

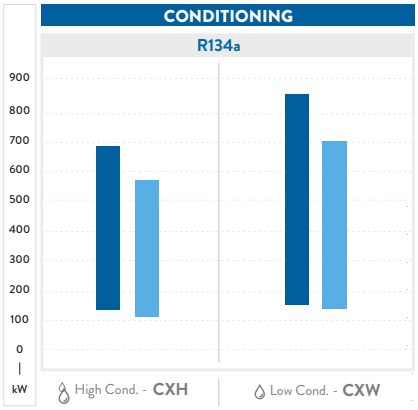
SCREW COMPRESSORS

RECIPROCATING COMPRESSORS

CONDENSING UNITS

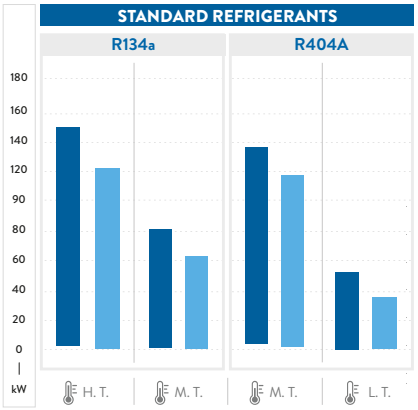
60Hz 50Hz

CONDITIONING



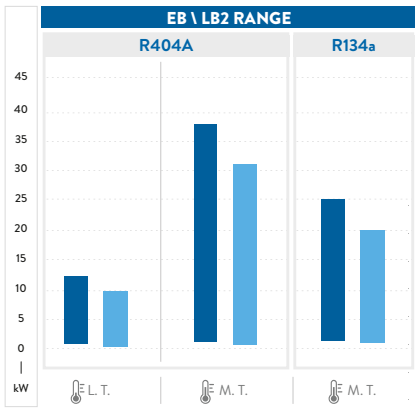
Testing conditions data reference:
H. Cond.: evap. T. +2°C; cond. T. +50°C; superheating 10K; subcooling 5K
L. Cond.: evap. T. +3°C; cond. T. +38°C; superheating 10K; subcooling 5K

STANDARD REFRIGERANTS



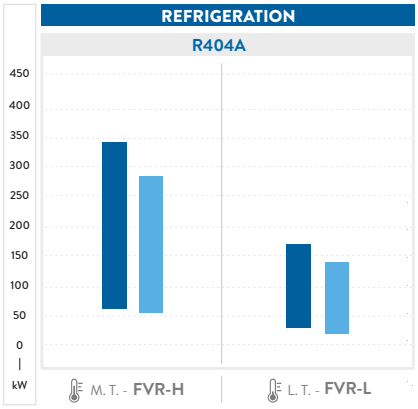
Testing conditions data reference:
H.T.: evap. T. +5°C; cond. T. +50°C
M.T.: evap. T. -10°C; cond. T. +45°C
L.T.: evap. T. -35°C; cond. T. +40°C

EB \ LB2 RANGE



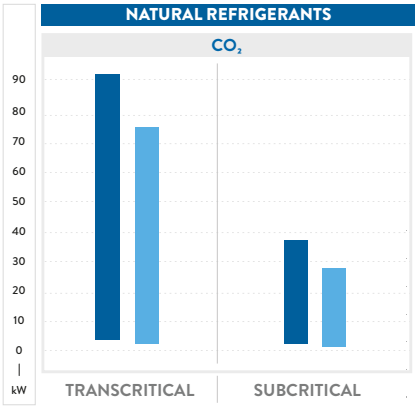
Testing conditions data reference:
M.T.: cooling capacity @32°C ambient T.; evap. T. -10°C
L.T.: cooling capacity @32°C ambient T.; evap T. -35°C

REFRIGERATION



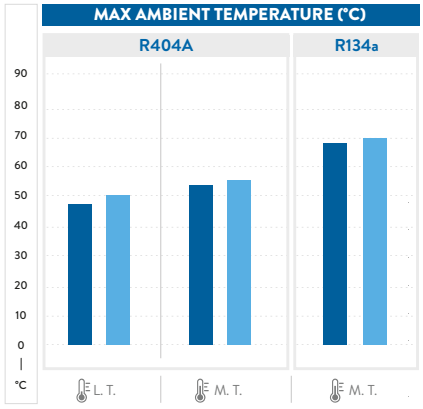
Testing conditions data reference:
M.T. : evap. T. -10°C; cond. T. +45°C
L.T. : evap. T. -35°C; cond. T. +40°C ECO

NATURAL REFRIGERANTS



Testing conditions data reference:
Transcritical: Evap. T. -10°C; Gas cooler out T. 33°C;
Gas cooler pressure 83,7 bar; Superheating 10K;
Subcritical: Evap T. -30°C, Cond. T. +10°C; Superheating 10K;

MAX AMBIENT TEMPERATURE (°C)



Testing conditions data reference:
M.T.: evap. T. -10°C
L.T.: evap T. -35°C



FVR-H / L
SCREW COMPRESSORS FOR REFRIGERATION

The latest addition to the Frascold family is the all new FVR-H and FVR-L Series screw compressor. This small-footprint machine, is the distillation of our many years of experience building screw compressors. Quiet, efficient, and reliable, the FVR Series is everything you have come to expect from Frascold.The FVR series consists of **37 models** ranging from 30-180 Hp and displacements of 120 to 540 m^3/h. A broad refrigerant range includes **R134a, R404A,R507, R407A, R407F, R448A, R449A, and R290.** This series of compressors is ideal for many uses including industrial, pharmaceutical, retail, marine and heat pump applications.

FEATURES AND BENEFITS



Plug&Play: Easy installation & service



All models VFD compatible



High efficiency



Compact footprint



Refrigerants

HFCs, HFOs and natural refrigerants.



Silent operations

Perfect mechanical balancing means low vibrations, pulsations and noise.



Flexibility

The right compressor for any application: Commercial refrigeration, Air conditioning, Industrial refrigeration, Retail cooling systems, Pharmaceutical manufacturing, Liquid chillers, Process chillers, Marine cooling systems, Cryogenic systems & Heat Pumps.



Advanced protection systems (Optional)

CONFORMITY DECLARATION

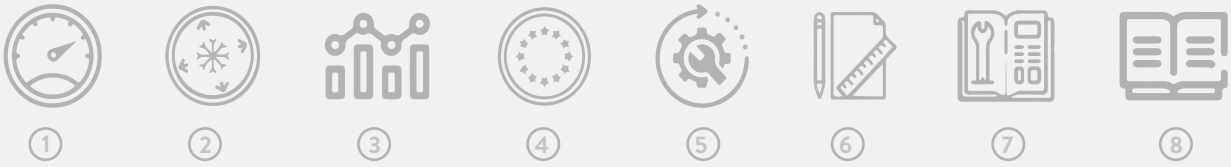
Frascold Screw compressors for refrigeration are intended for installation in refrigeration systems. The machine or partly completed machines shall comply with local safety regulation and standards of the place of installation (within the EU according to the EU Directives 2006/42/EC Machinery Directive, 2014/68/UE Pressure Equipment, 2006/95/EC Low Voltage Directive). They may be put into operation only if the compressor has been installed in accordance with these assembly instructions.

Commissioning is only possible if the entire system into which it is integrated has been inspected and approved in accordance to the previsions of legal regulations.

The Manufacturer Declaration, describes the standards to be applied.
The Manufacturer Declaration of incorporation, according to the 2006/42/EC, is available at: **www.frascold.it**, documentation, manufacturer's declaration.

PERFORMANCE DATA FSS3 SOFTWARE

Please refer to our FSS3 to check performances of all our compressors.



1. **Operating limits**
2. **Cooling capacity**
3. **All operating data with any kind of refrigerant**
4. **European standard EN12900 at 50Hz**
5. **Technical information**
6. **Drawings**
7. **Manuals**
8. **Catalogues and certifications**

CONTROL PROTECTION DEVICE

Standard compressor protection:

All the compressors are supplied complete with an **INT69 FRY** electronic protection module connected to a chain of PTC thermistors inserted into the electric motor, and a thermistor sensor positioned on the discharge temperature control output. If a problem is encountered, the module will shut the compressor down to prevent damage.

Optional compressor protection:

Optionally, all compressors can be equipped with the new **Kriwan INT69 FRYL® Diagnose** protection module. This ads data logging, diagnostic, and protection features that can improve reliability and service life of the compressor. Logged data can be used to aid in system optimization, identify problems and prevent malfunctions before they happen. The **INT69 FRYL® Diagnose** protection device has a dedicated connection port for the following compressor protection devices:

- Thermistor PTC (1, 2)
- Discharge temperature sensor (3, 4)
- Oil level check (5, 6)
- Oil filter clogging sensor (7, 8)
- Oil flowswitch (9, 10)



Protection features:

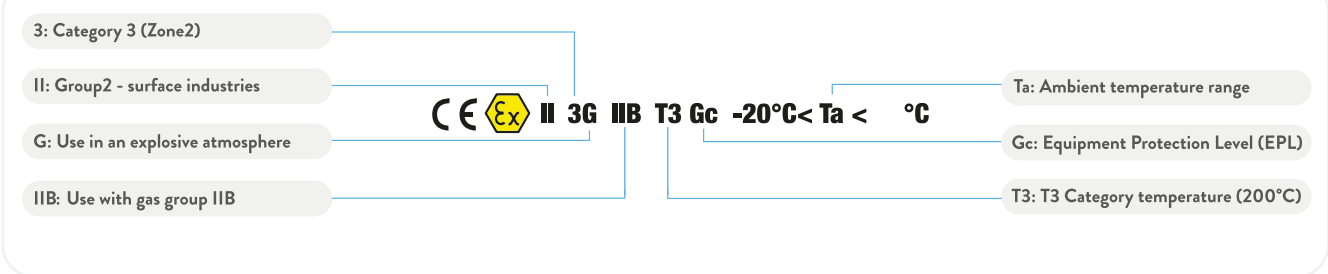
Data logged on the **INT69 FRYL® Diagnose** device can be downloaded via USB or DP-Modbus. This data can be used by technicians to correct system issues or conduct preemptive maintenance. The Kriwan software for reading data may be downloaded directly and free of charge from the website. In the event of a compressor malfunction, the device makes available the following features and data:

Safety Features
- **Phase control**
- **Monitoring the number of start-ups**
- **Oil temperature check (and of discharge)**
- **Motor temperature check**
- **Oil level check**
- **Oil filter clogging check**
- **Oil flow check**

Statistical Data
- **Detailed list of the last 20 errors**
- **Number of on/off cycles**
- **Number of compressor start-ups**
- **Run times of compressor and accessories**
- **Number of start-ups over the last 7 days**
- **Maximum number of re-starts in an hour**

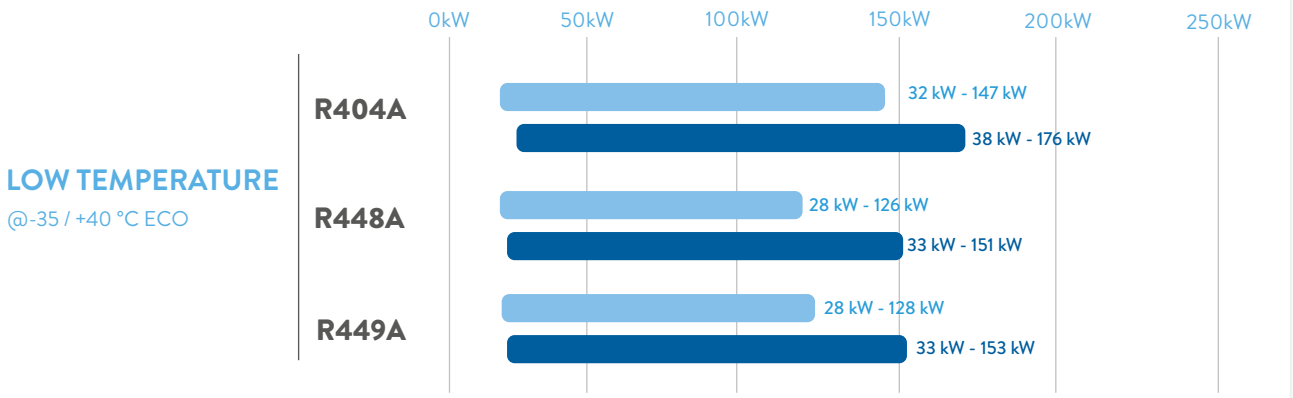
ATEX

The ATEX directive (2014/34/EU) is a certification for equipment and protective systems intended for use in potentially explosive atmospheres, caused by the presence of gases or solid dust. **Our complete range of reciprocating and screw compressors (CX and FVR) is 100%** certified in category 3G: devices or protection systems that guarantee a very high level of protection Zone 2: an area where an explosive atmosphere may be present, but only in rare cases or for short periods.
The compressor label includes the following ATEX assembly marking, usually placed on the wiring box:

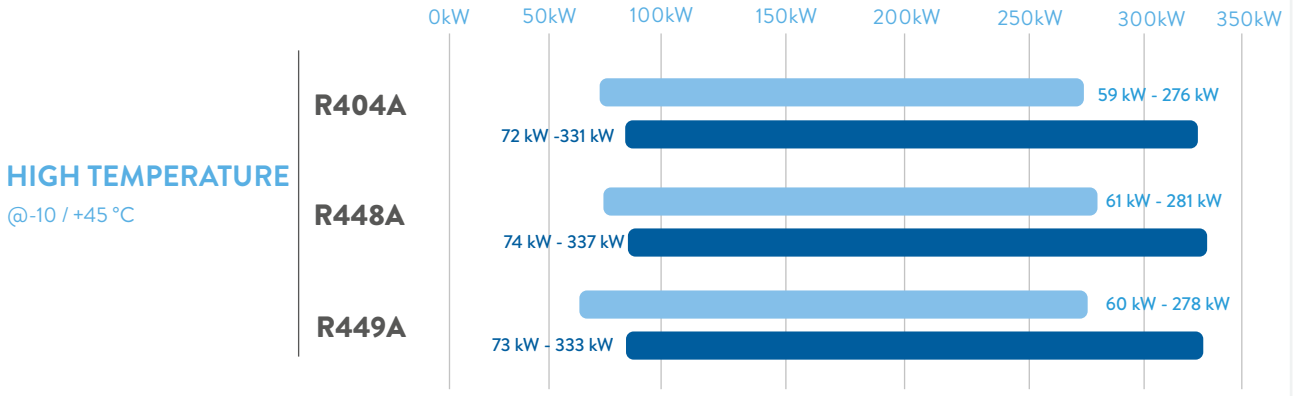


COOLING CAPACITY

Range @50Hz & @60Hz



@50 Hz @60 Hz



LEGAL DISCLAIMER:
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https://www.frascold.it/en/download/software/fss_3_frascold_selection_software

PRODUCT RANGE

FVR-H, FVR-L MODELS RANGE

40 - 180 HP

120 - 540 m³/h **@50Hz** | 144 - 648 m³/h **@60Hz**

FVR H SERIES

High & Medium Temperature

26 Models

FVR L SERIES

Low Temperature

11 Models

30 - 160 HP

120 - 540 m³/h **@50Hz** | 144 - 648 m³/h **@60Hz**

MODEL DESIGNATION

Compressor

FVR	-	L	-	50	-	160	AX

Series	
FVR	Semi-hermetic screw compressor

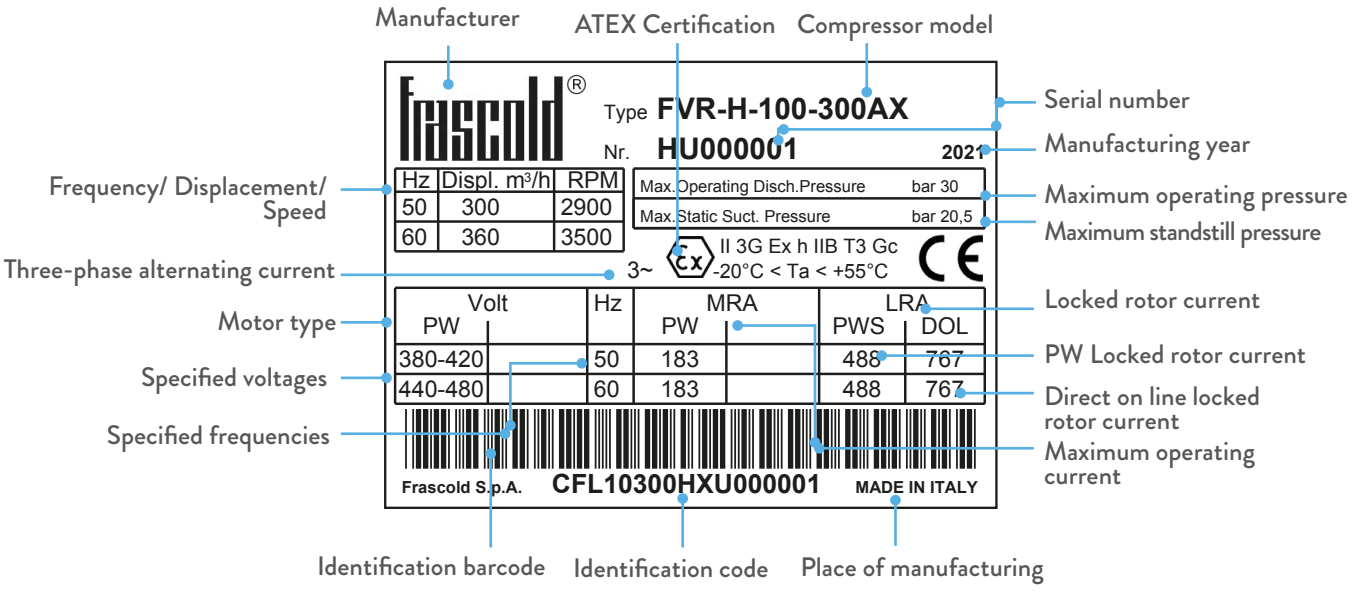
Application	
H	High/medium evaporating temperature
L	Low evaporating temperature

Motor Size
Nominal power (HP)

Displacement
120÷540 m³/h at 50Hz

Characterization Series
Atex series

INFORMATION PLATE



STANDARD EQUIPMENT AND OPTIONAL ACCESSORIES

Description	FVR	
	Std.	Opt.
Part winding (PWS) electric motor 380-420 V / 3 / 50 Hz (440-480 V / 3 / 60 Hz)	•	
Suction shut-off valves with soldering connections	•	
Discharge shut-off valves with soldering connections		•
Discharge flanges with soldering connections	•	
Integrated check valve and safety valve	•	
Steps capacity control and unloaded start	•	
IP65 terminal box	•	
Discharge temperature PTC sensor	•	
T00EC45B electronic protection module with manual reset (monitors motor windings, temperature, checks at start presence and correct sequence of phases and sense of rotation)	•	
Rotalock connection for oil injection	•	
Integrated oil filter and oil flow switch		
Oil injection kit: oil filter, oil flow switch, solenoid valve, oil sight glass [FVR] / Oil injection kit: solenoid valve, oil sight glass [FVR H / L 370 - 430 - 460 - 540]	•	
Nitrogen protective charge	•	
Packing ensuring proper handling and adequate protection	•	
Connection for ECO	•	
Special voltage for electric moto		•
Rubber vibration dampers (4 pcs)		•
Valve connection kit for ECO		•
Electronic Alarm Control Module for oil flow switch		•
Oil Filter Clogging Differential Pressure Switch (Electronic)		•
Bridges for DOL Start (STD for 120...160)		•
Special painting according to C5M painting requirements		•

CAPACITY REGULATION

Frascold Screw compressors capacity can be regulated with:

1. CAPACITY CONTROL (CC)

2. VARIABLE FREQUENCY DRIVE (VFD)

CAPACITY CONTROL (CC)

Under conditions of reduced thermal load, the compressor is capable of bringing the system to be cooled to the design temperature in a shorter time. In such a case, it is necessary to verify if the increased number of compressor start-ups (which derives from the shorter period of cooling) is compatible with the maximum that the compressor can support. The device used to control capacity, thus reducing the cooling capacity of the compressor, makes it possible to compensate for this situation and prevent the efficiency of the entire cooling system from being compromised. Checking the capacity requires the following functioning modes:

	Steps
FVR 120-160	75 / 100%
FVR 200-540	50 / 75 / 100 %

The step system for the FVR-H/L 370-430-460-540 series allows for obtaining a further partialisation step which corresponds with 25% of the refrigeration capacity available and is used exclusively as an unloaded start. The capacity check is carried out by the operation of three solenoids. The control sequence of the solenoids and the operational diagram are set out below.

Solenoid activation Diagram

	Capacity Control (1)			
Model Series	Full load (100%)	1. Step (75%)	2. Step (50%)	Start/Stop (2)
FVR-H/L 120-140-160	V1= ●	V1= ○	-	-
FVR-H/L 200-230-260 FVR-H/L 300-350-380	V1= ● V2= ●	V1= ● V2= ○	V1= ○ V2= ○	-
FVR-H/L 370-430-460-540	V1= ● V2= ○ V3= ○	V1= ● V2=○ V3=●	V1= ● V2=● V3=○	V1= ○ V2= ○ V3= ○

1: The effective capacity of the stages depends on the operating conditions.
2: The start/stop step can only be used during the start-up and stopping phases.
○ Coil de-energized
● Coil energized

VARIABLE FREQUENCY DRIVE (VFD)

All the compressors are designed for use with inverter technology and are suitable for operating within the frequency range (30÷70 Hz). In some conditions of use, a restriction on the range of frequency might apply. In particular, the upper frequency is dependent on the maximum operational current (MRA). For performance data at the various frequencies and the maximum limits under each condition, see Frascold selection software.

Calculate maximum frequency

Within the limits of use of each specific compressor and refrigerant for each work point, there is a maximum frequency not to be exceeded, which can be calculated using the following formula:

f(Max) = maximum possible frequency [Hz]
MRA = maximum operational current [A]
Ie = current absorbed at the work point at 50 Hz [A]

$$f(Max) = \frac{MRA \times 50\ Hz}{Ie}$$

Calculate corresponding capacity

The refrigeration capacity is calculated as a function of the frequency using the following formula:

Q0 (f) = refrigeration capacity at working frequency [W]
fa = actual frequency applied to the compressor [Hz]
Q0 50 Hz = refrigeration capacity at 50 Hz [W]

$$Q0(f) = \frac{fa \times Q0\ 50\ Hz}{50\ Hz}$$

TECHNICAL DATA AND OPERATING LIMITS

FVR Series

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Standard motor Voltage - PWS 400 (+/-10%) V/3/50Hz // 460 (+/-10%) V/3/60Hz

Models	Motor Vers.	Displacement		Nominal power 50Hz	Partition steps	MRA	LRA, PW motor	LRA, DOL motor	Frequency min.	Frequency max.	Protection Index	
		50Hz	60Hz									
		[m³/h]	[m³/h]	[HP]	[%]	[A]	[A]	[A]	[Hz]	[Hz]		
FVR-H-30-120	1	120	144	30	75%	61	125	216	30	70	IP65	
FVR-H-40-140	1	140	168	40	75%	68	171	294	30	70	IP65	
FVR-H-50-160	1	160	192	50	75%	89	200	306	30	70	IP65	
FVR-H-60-200	1	200	240	60	75% - 50%	101	262	425	30	70	IP65	
FVR-H-70-230	1	230	276	70	75% - 50%	116	335	513	30	70	IP65	
FVR-H-80-270	1	270	324	80	75% - 50%	184	373	600	30	70	IP65	
FVR-H-90-300	1	300	360	90	75% - 50%	158	446	682	30	70	IP65	
FVR-H-100-350	1	350	420	100	75% - 50%	169	522	799	30	70	IP65	
FVR-H-110-370	1	370	444	110	75% - 50% - 25%	184	434	720	30	70	IP65	
FVR-H-110-380	1	380	456	110	75% - 50%	201	570	872	30	70	IP65	
FVR-H-115-430	1	430	516	115	75% - 50% - 25%	184	434	720	30	70	IP65	
FVR-H-140-540	1	540	648	140	75% - 50% - 25%	245	587	921	30	70	IP65	
FVR-H-125-460	1	460	552	125	75% - 50% - 25%	198	530	838	30	70	IP65	
FVR-H-40-120	2	120	144	40	75%	68	171	294	30	70	IP65	
FVR-H-50-140	2	140	168	50	75%	89	200	306	30	70	IP65	
FVR-H-60-160	2	160	192	60	75%	108	254	389	30	70	IP65	
FVR-H-70-200	2	200	240	70	75% - 50%	116	335	513	30	70	IP65	
FVR-H-80-230	2	230	276	80	75% - 50%	184	373	600	30	70	IP65	
FVR-H-90-260	2	260	312	90	75% - 50%	205	446	682	30	70	IP65	
FVR-H-100-300	2	300	360	100	75% - 50%	169	522	799	30	70	IP65	
FVR-H-115-350	2	350	420	115	75% - 50%	201	570	872	30	70	IP65	
FVR-H-125-370	2	370	444	125	75% - 50% - 25%	218	530	838	30	70	IP65	
FVR-H-125-380	2	380	456	125	75% - 50%	205	619	947	30	70	IP65	
FVR-H-140-430	2	430	516	140	75% - 50% - 25%	245	587	921	30	70	IP65	
FVR-H-160-460	2	460	552	160	75% - 50% - 25%	282	729	1114	30	70	IP65	
FVR-H-180-540	2	540	648	180	75% - 50% - 25%	304	786	1209	30	70	IP65	
FVR-L-30-120	-	120	144	30	75%	61	125	216	30	70	IP65	
FVR-L-40-140	-	140	168	40	75%	68	171	294	30	70	IP65	
FVR-L-50-160	-	160	192	50	75%	89	200	306	30	70	IP65	
FVR-L-60-200	-	200	240	60	75% - 50%	101	262	425	30	70	IP65	
FVR-L-70-230	-	230	276	70	75% - 50%	116	335	513	30	70	IP65	
FVR-L-80-260	-	260	312	80	75% - 50%	184	373	600	30	70	IP65	
FVR-L-90-300	-	300	360	90	75% - 50%	158	446	682	30	70	IP65	
FVR-L-100-350	-	350	420	100	75% - 50%	169	522	799	30	70	IP65	
FVR-L-110-380	-	380	456	110	75% - 50%	201	570	872	30	70	IP65	
FVR-L-125-430	-	430	516	125	75% - 50% - 25%	198	530	838	30	70	IP65	
FVR-L-160-540	-	540	648	160	75% - 50% - 25%	287	729	1114	30	70	IP65	

Find the most updated information in our Product Selection Software FSS3 at the link :
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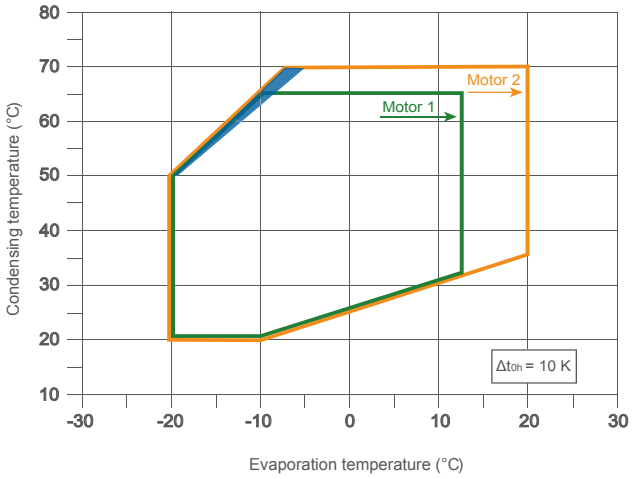
Max. allawable standstill pressure	Max. allawable operative pressure	Suction Valve (SV)	Suction Valve (SV)	Discharge Bushing (DL)	Discharge Bushing (DL)	Net Weight	Models
[bar]	[bar]	[mm]	[inch]	[mm]	[Inch]	[kg]	
20,5	30	54	2" 1/8	42	1" 5/8	210	FVR-H-30-120
20,5	30	54	2" 1/8	42	1" 5/8	223	FVR-H-40-140
20,5	30	54	2" 1/8	42	1" 5/8	223	FVR-H-50-160
20,5	30	80	-	54	2" 1/8	324	FVR-H-60-200
20,5	30	80	-	54	2" 1/8	339	FVR-H-70-230
20,5	30	80	-	54	2" 1/8	352	FVR-H-80-270
20,5	30	80	-	67	-	430	FVR-H-90-300
20,5	30	80	-	67	-	432	FVR-H-100-350
20,5	30	105	4 1/8"	DN80		620	FVR-H-110-370
20,5	30	80	-	67	-	435	FVR-H-110-380
20,5	30	105	4 1/8"	DN80		623	FVR-H-115-430
20,5	30	105	4 1/8"	DN80		632	FVR-H-140-540
20,5	30	105	4 1/8"	DN80		626	FVR-H-125-460
20,5	30	54	2" 1/8	42	1" 5/8	215	FVR-H-40-120
20,5	30	54	2" 1/8	42	1" 5/8	223	FVR-H-50-140
20,5	30	54	2" 1/8	42	1" 5/8	226	FVR-H-60-160
20,5	30	80	-	54	2" 1/8	326	FVR-H-70-200
20,5	30	80	-	54	2" 1/8	341	FVR-H-80-230
20,5	30	80	-	54	2" 1/8	354	FVR-H-90-260
20,5	30	80	-	67	-	432	FVR-H-100-300
20,5	30	80	-	67	-	435	FVR-H-115-350
20,5	30	105	4 1/8"	DN80		623	FVR-H-125-370
20,5	30	80	-	67	-	437	FVR-H-125-380
20,5	30	105	4 1/8"	DN80		632	FVR-H-140-430
20,5	30	105	4 1/8"	DN80		749	FVR-H-160-460
20,5	30	105	4 1/8"	DN80		648	FVR-H-180-540
20,5	30	54	2" 1/8	42	1" 5/8	210	FVR-L-30-120
20,5	30	54	2" 1/8	42	1" 5/8	218	FVR-L-40-140
20,5	30	54	2" 1/8	42	1" 5/8	223	FVR-L-50-160
20,5	30	80	-	54	2" 1/8	324	FVR-L-60-200
20,5	30	80	-	54	2" 1/8	339	FVR-L-70-230
20,5	30	80	-	54	2" 1/8	352	FVR-L-80-260
20,5	30	80	-	67	-	430	FVR-L-90-300
20,5	30	80	-	67	-	432	FVR-L-100-350
20,5	30	80	-	67	-	435	FVR-L-110-380
20,5	30	105	4 1/8"	DN80		625	FVR-L-125-430
20,5	30	105	4 1/8"	DN80		645	FVR-L-160-540

OPERATING LIMITS

Diagrams published in this catalog 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 **FSS.3 Frascold Selection Software** available for free download at www.frascold.it.

Diagrams assume a full compressor load with a power supply frequency of 50 Hz. Performance displayed for R134a, R404A, R507A, R448A, R449A, R407F, R407A, and R290. Data on other refrigerants available on request. Capacities are shown in accordance with European EN12900 standard and at 50Hz operation. To calculate capacity in other conditions and at 60 Hz, please use the Frascold Selection Software (download free at frascold.it).

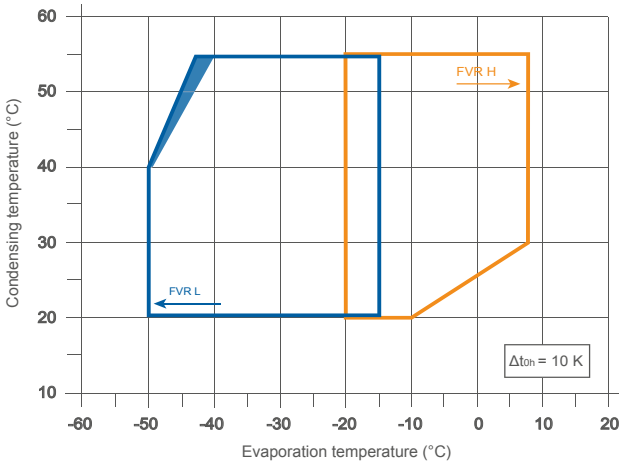
R134a



Standard application diagram

Motor size 1 - 2
Compressor capacity 100%
Overheating = 10K

R404A - R507A

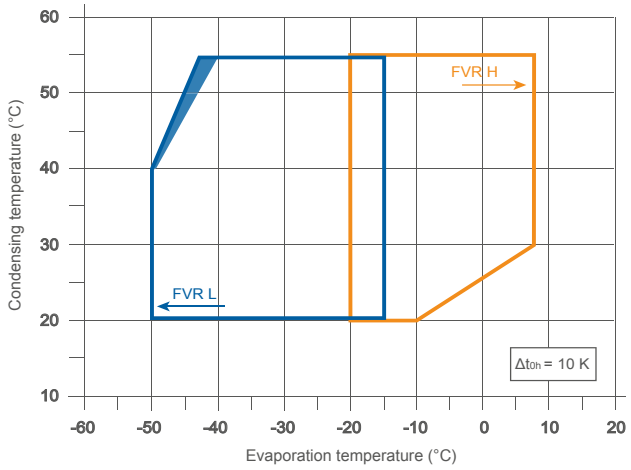


Standard application diagram

FVR H/L
Compressor capacity 100%
Overheating = 10K

For operation in this zone, please contact Frascold.

R448A - R449A

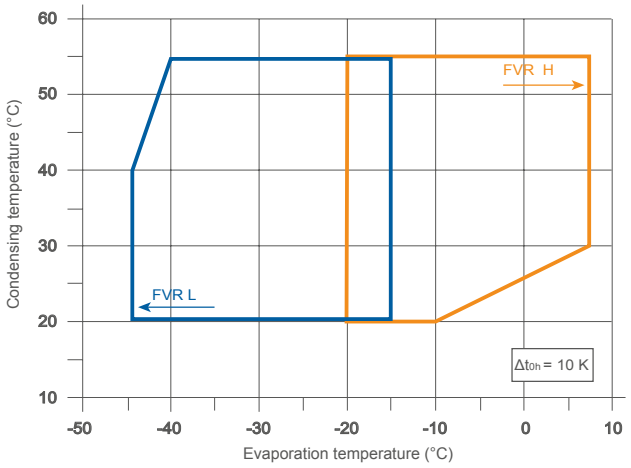


Standard application diagram

FVR H/L
Compressor capacity 100%
Overheating = 10K

For operation in this zone, please contact Frascold.

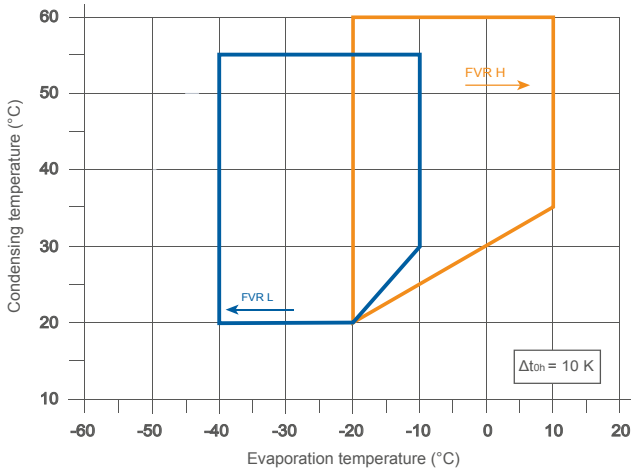
R407F - R407A



Standard application diagram

FVR H/L
Compressor capacity 100%
Overheating = 10K

R290

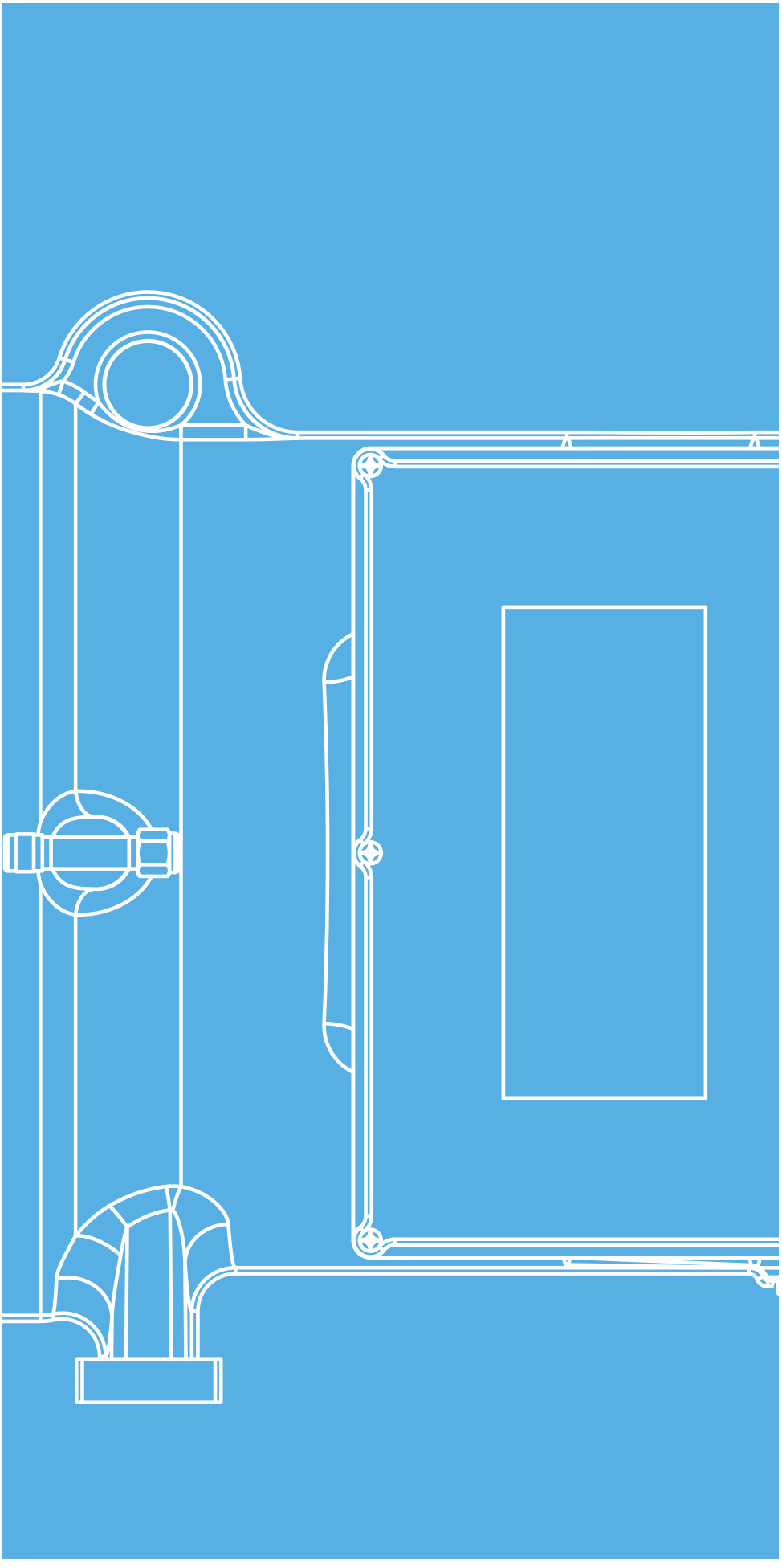


Standard application diagram

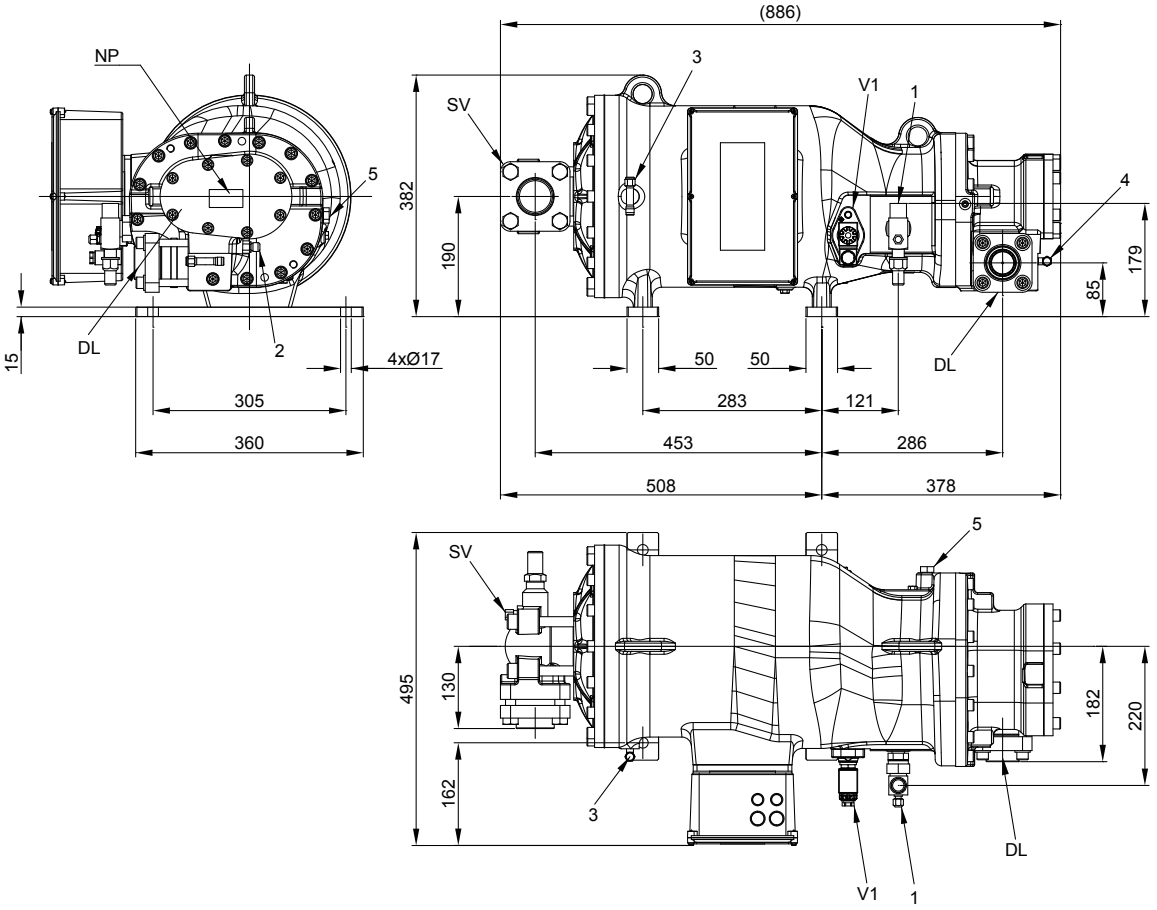
FVR H/L
Compressor capacity 100%
Overheating = 10K

TECHNICAL DRAWINGS AND DIMENSIONS

FVR Series

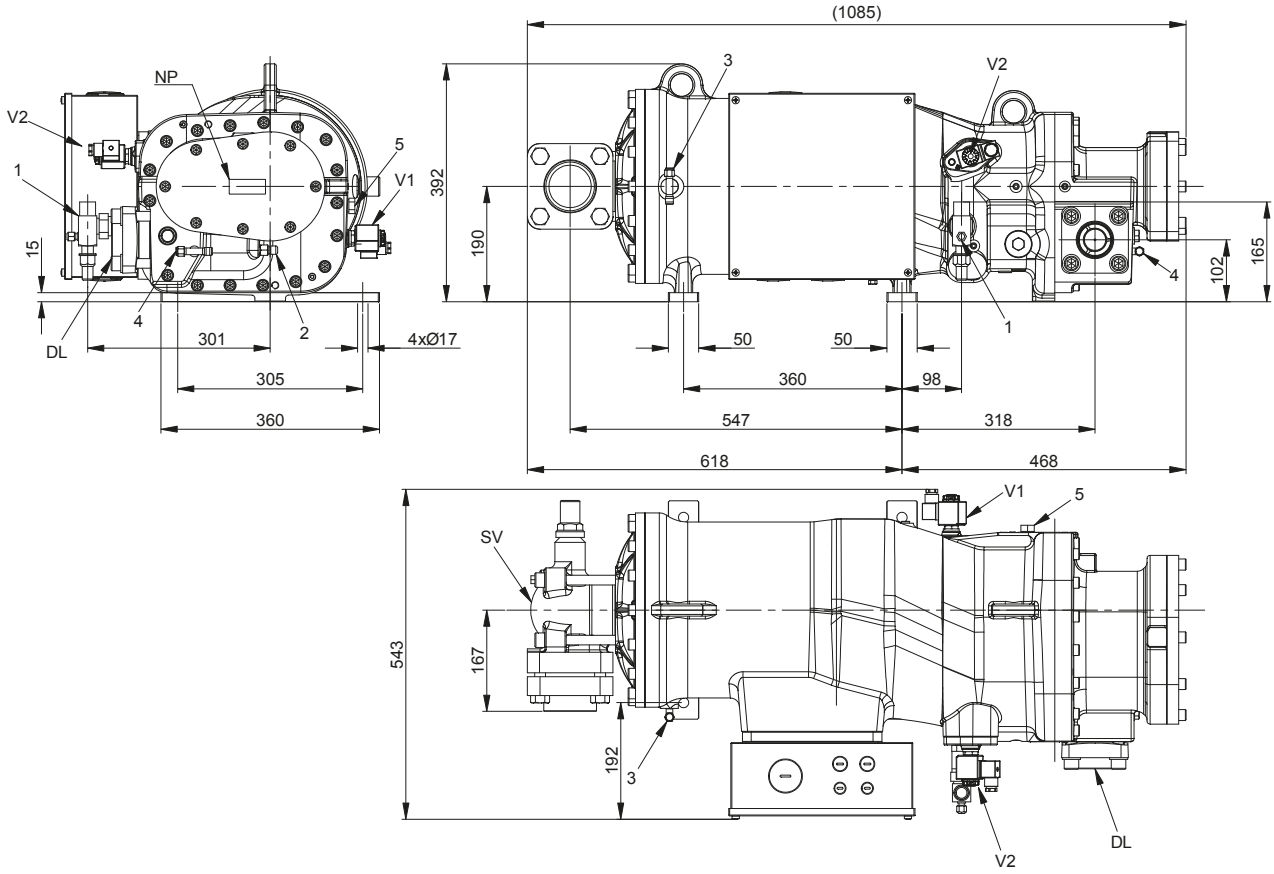


FVRH/L 120 - 140 - 160



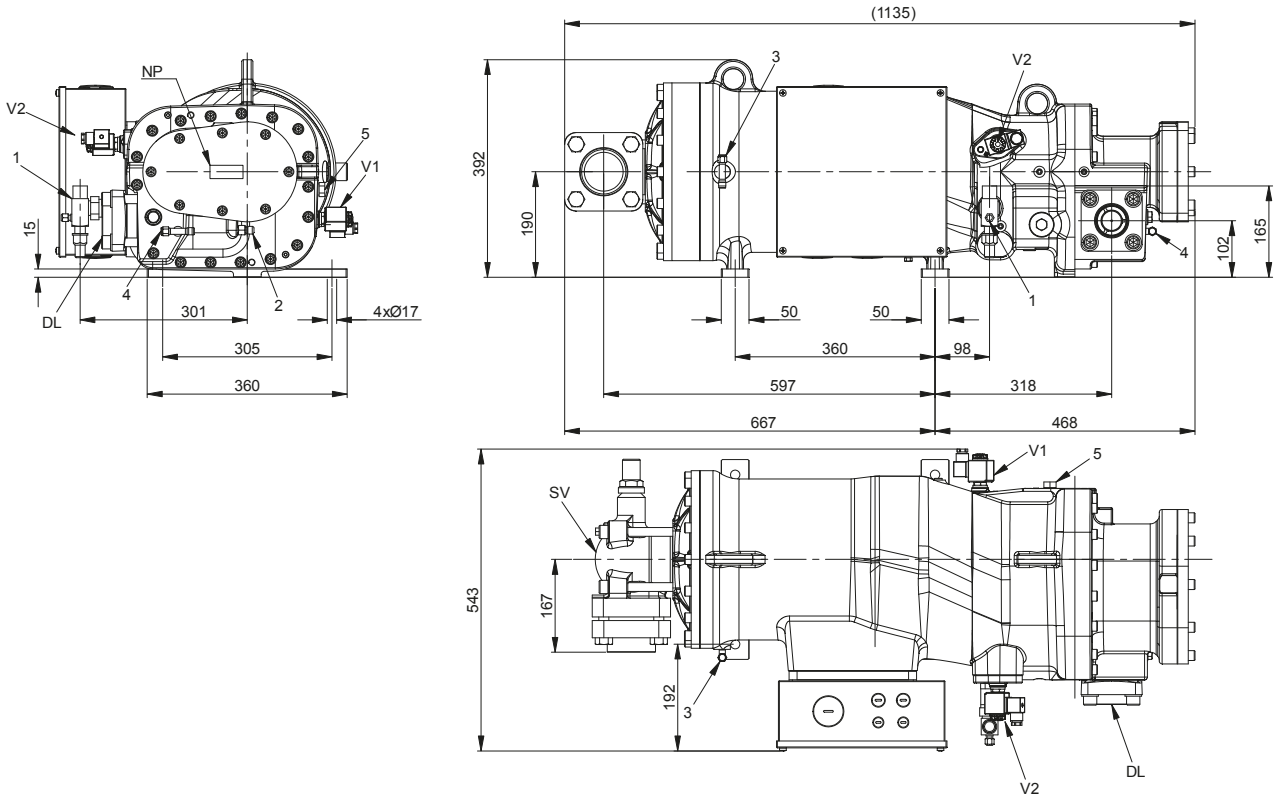
1	Oil return connection	
2	Discharge temperature sensor	
3	Low pressure connection	
4	High pressure connection	
5	Connection for ECO	1/2" **SAE**
V1	Capacity control valve (step 1)	
SV	Suction valve	2-1/8" - 54,0 mm
DL	Discharge valve	1-5/8" - 42,0 mm
NP	Information plate	

FVRH/L 200 - 230 - 270



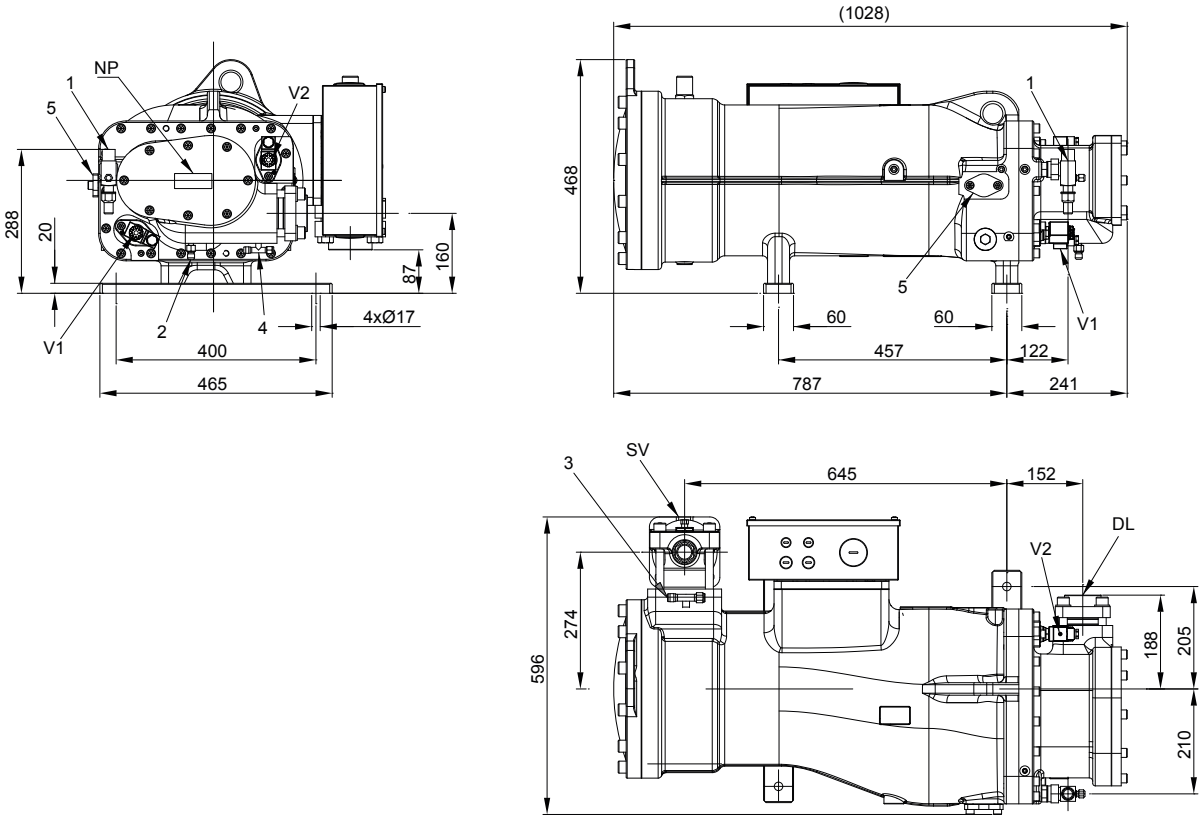
1	Oil return line connection	
2	Discharge temperature sensor	
3	Low pressure connection LP	
4	High pressure connection HP	
5	Connection for ECO	
V1	Capacity control valve	
V2	Capacity control valve	
SV	Suction valve	3-1/8" - 80 mm
DL	Discharge bushing	2-1/8" -54 mm
NP	Information plate	

FVRH/L 90 - 270



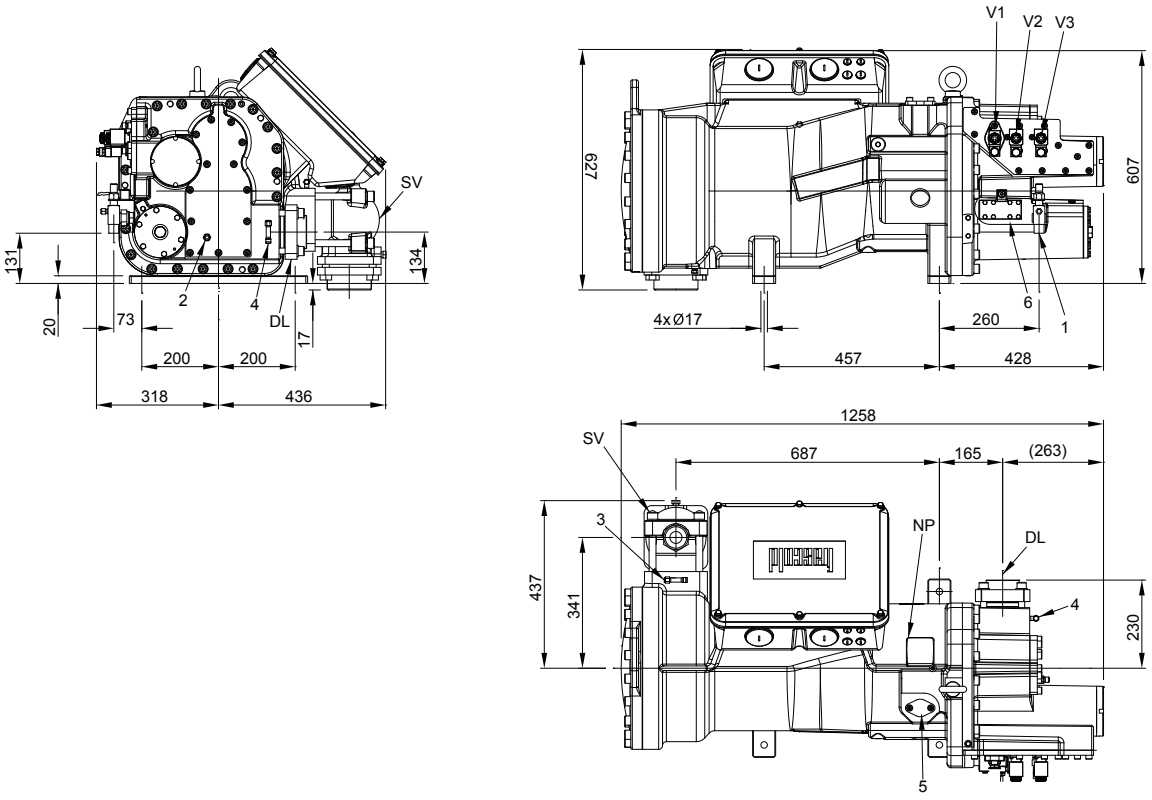
1	Oil return line connection	
2	Discharge temperature sensor	
3	Low pressure connection LP	
4	High pressure connection HP	
5	Connection for ECO	
V1	Capacity control valve	
V2	Capacity control valve	
SV	Suction valve	3-1/8" - 80 mm
DL	Discharge bushing	54 mm
NP	Information plate	

FVRH/L 300 - 350 - 380



1	Oil return line connection	
2	Discharge temperature sensor	
3	Low pressure connection LP	
4	High pressure connection HP	
5	Connection for ECO	
V1	Capacity control valve	
V2	Capacity control valve	
SV	Suction valve	3-1/8" - 80 mm
DL	Discharge bushing	67 mm
NP	Information plate	

FVRH/L 370 - 430 - 460 - 540



1	Oil return line connection	
2	Discharge temperature sensor	
3	Low pressure connection LP	
4	High pressure connection HP	
5	Connection for ECO	
V1	Capacity control valve	
V2	Capacity control valve	
SV	Suction valve	4-1/8” - 105 mm
DL	Discharge bushing	80 mm
NP	Information plate	

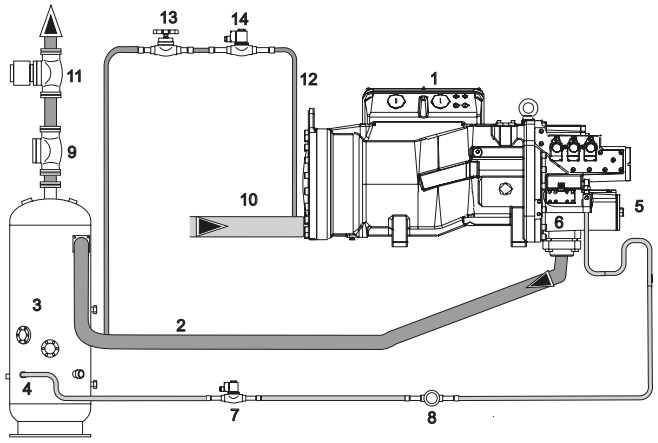
OIL INJECTION KIT

The standard Frascold oil injection kit includes:

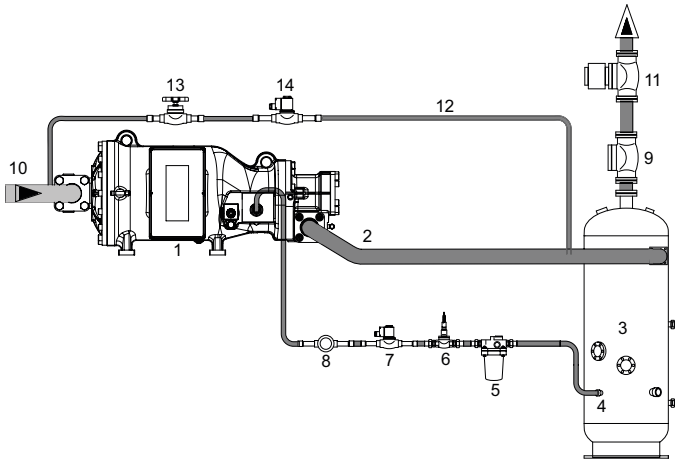
- **Oil filter**
- **Flowswitch with electronic control module**
- **Solenoid valve**
- **Oil flow sight glass**

Oil circuit diagram for FVR-H/L-370-430-460-540

In the FVR Models, the flowswitch and the oil filter are integrated with the compressor.



Oil circuit diagram for all other models.



1	Compressor
2	Discharge line
3	Remote oil separator with thermostat, resistance and level detector
4	Oil return line to the compressor
5	Oil filter
6	Oil flowswitch
7	Solenoid valve
8	Oil sight glass
9	Check valve
10	Suction line
11	Discharge pressure regulation valve
12	External equalization line
13	Shut off valve
14	Solenoid valves

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April 2021



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