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The technical parameters shall be subject to order contract or technical appendix of the contract.

RefComp

Screw Compressor

SRC-S(EX) Series Semi-hermetic Explosion-proof Screw Compressor



Commercial
Screw
Advanced
Technology

Originated from Italy,
advanced screw & reciprocating
compressor technologies.

Global Service Hotline
400-109-6660



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Structure diagram of semi-hermetic explosion-proof screw compressor

SRC-S(EX) series semi-hermetic explosion-proof screw compressors are suitable for medium and high temperature refrigeration applications. This series of compressors is designed and tested according to the European standard EN60335-2-34. It meets various explosion-proof indicators and has passed the inspection of the quality supervision and inspection department authorized by the state. It has obtained the product explosion-proof certificate, and the explosion-proof mark is Exdibmb II BT4 Gb. It can be used for refrigeration in places 1 and 2 where there are explosive gas mixtures in the air, such as petroleum, chemical, metallurgy, pharmaceutical, and national defense industries.

Refcomp semi-hermetic explosion-proof screw compressor:

SRC-S(EX) series - suitable for R407C, R404A and R507 refrigerants, there are 18 models in total

Safety valve

- The Compressor has a built-in safety valve, which connects the high pressure and low pressure sides to ensure that the pressure in does not exceed the safe value.
- High-standard design requirements, reliable sealing, accurate opening, timely full opening, stable discharge and prompt reseating, stable and reliable.



Energy regulation

- According to the requirements of the working conditions, the stepless energy regulation or the step energy regulation can be selected.
- The control slide valve is located between the casing and the rotor, with a reasonable and compact design and excellent sealing performance. Explosion-proof plastic sealing treatment, in line with the requirements of Gb equipment protection level.



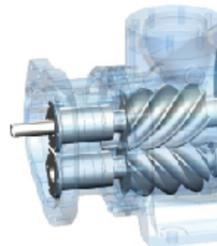
Oil separator

- Built-in oil separator, low noise design, multi-stage high-efficiency separation.
- The built-in structure reduces the volume of the compressor and ensures that there is lubricating oil inside the compressor, so that the lubrication of the bearing and the rotor will not be short of oil and prevent the lubricating oil from entering the refrigeration system.



Bearing

- Multi-bearing combination pairing to avoid rotor axial/radial wear, high load and low noise.
- Highly wear-resistant rolling elements and specially profiled raceways achieve a design life of 40000h.



Shell

- The design pressure reaches 28bar.
- High-strength metal castings, low-pressure drop air intake channel design, and capable of fully cooling the motor at the same time; The middle direct passage airway reduces the loss along the way. The exhaust loss is small and the consumption is low.
- It integrates the filter, stop valve, temperature sensor and the body into one, with a compact structure.



Rotor

- Adopt RefComp to design asymmetric screw rotor tooth profile, male rotor/female rotor adopts 5/6 form, optimize the compression stroke; good lubrication, tight meshing between teeth, compressor runs smoothly and quietly.
- High efficiency, high strength and low vibration, using new technology, low airflow pulsation and noise, reaching the highest level of similar models.
- Optimized length/diameter ratio design improves compression efficiency and is effectively used in medium and high temperature refrigeration.



Explosion-proof junction box

- The explosion-proof junction box designed according to the Gb protection level of explosion-proof equipment has good stability.
- It can be used in Zone 1, Zone 2, and explosive hazardous places with temperature groups above T4.
- The electrical accessories are treated with plastic sealing and intrinsic safety, and meet the requirements of Gb equipment protection level.



Motor protection

- INT69 SNY protection module, motor over temperature, reverse and phase loss protection.
- 6 PTC thermistors in series prevent the motor from being burned out due to high temperature.
- System operation information tracking, real-time feedback of motor and system operation status.



Shut-off valve

- The built-in exhaust check valve has low resistance and can effectively prevent the backflow of refrigerant during shutdown.
- Suction/exhaust shut-off valve rotates enable simple, compact and flexible installation.



Suction filter

- Built-in precision suction filter effectively removes impurities from refrigerant gas and protects the motor.



Motor

- Partial winding or Y-Δ mode is adopted to start, the starting current is small, and the running energy consumption is low.
- According to the voltage of different regions, a variety of operating voltages and frequencies are designed to meet various voltage requirements; special customized materials are suitable for refrigerant requirements.
- The special structure design and space layout use the overflow refrigerant gas from the suction shut-off valve to the suction side of the screw to effectively cool the motor.



Model Name

Compressor		SRC	-S	-985	EX	W	-L	4
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Compressor type	
SRC	Semi-hermetic compressor

Series	
S	S series screw compressor
985	Specification code
EX	Explosion-proof product identification

Built-in volume ratio Vi	
H	Vi=3.2 (SRC-S-EX)
S	Vi=2.6 (SRC-S-EX) (S omitted)
W	Vi=2.2 (SRC-S-EX)
HS	Vi=3.2-2.6 (adjustable) (SRC-S-785_985EX)
SW	Vi=2.6-2.2 (adjustable) (SRC-S-785_985EX)

Electrical accessories	
L	220V AC
M	110V AC
Y	24V AC

Cooling capacity regulation	
4	Step 4 (SRC-S-EX)
Z	Stepless (SRC-S-EX)

Technical Parameter

Model SRC-S			113EX	133EX	163EX	183EX	213EX	255EX	285EX	305EX	
Displacement 50/60Hz		m³/h	118/142	150/180	175/210	205/246	237/284	286/343	318/382	341/409	
Weight		kg	350	355	355	550	555	655	630	665	
Oil Charge		dm³	6	6	6	7	7	10	10	10	
Explosion-proof heater			200W-230V-50/60Hz								
In the exhaust (sleeve) pipe Diameter Ø/connector size		mm/ inch	42.2/ 1-5/8"	42.2/ 1-5/8"	42.2/ 1-5/8"	54.1/ 2-1/8"	54.1/ 2-1/8"	54.1/ 2-1/8"	54.1/ 2-1/8"	54.1/ 2-1/8"	
Inhalation (sleeve) tube Diameter Ø/connector size		mm/ inch	54.1/ 2-1/8"	54.1/ 2-1/8"	54.1/ 2-1/8"	67.0/ 2-5/8"	67.0/ 2-5/8"	80.0/ 3-1/8"	80.0/ 3-1/8"	80.0/ 3-1/8"	
Energy control			SRC-S(EX): Stepped: full load, 75, 50%, min. (No step: full load...min. or full load...50% as required)								
Motor Protection Module			INT69 SNY								
Standard Motor ⁽¹⁾			400V/3/50Hz - 460V/3/60Hz								
Y/Δ SRC-S(W)	Starting current	LRA Y	A	109	131	134	139	159	193	254	254
		LRA Δ	A	331	398	406	422	459	580	770	770
Y/Δ SRC-S	Max. operating current	FLA	A	70	82	86	105	115	140	160	170
		LRA Y	A	131	134	182	159	193	254	318	318
Y/Δ SRC-S	Starting current	LRA Δ	A	398	406	547	459	580	770	953	953
		FLAL	A	80	90	96	124	140	168	192	196

Model SRC-S			353EX	413EX	463EX	503EX	553EX	603EX	755EX	785EX	885EX	985EX	
Displacement 50/60Hz		m³/h	402/482	445/534	510/612	562/674	600/720	700/840	860/ 1032	910/ 1092	1000/ 1200	1100/ 1320	
Weight		kg	780	790	825	1060	1080	1070	1030	1450	1450	1450	
Oil Charge		dm³	14	14	16	19	19	20	23	25	25	25	
Explosion-proof heater			275W-230V-50/60Hz										
In the exhaust (sleeve) pipe Diameter Ø/connector size		mm/ inch	80.0/ 3-1/8"	80.0/ 3-1/8"	80.0/ 3-1/8"	80.0/ 3-1/8"	80.0/ 3-1/8"	80.0/ 3-1/8"	80.0/ 3-1/8"	105.5/ 4-1/8"	105.5/ 4-1/8"	105.5/ 4-1/8"	
Inhalation (sleeve) tube Diameter Ø/connector size		mm/ inch	92.5/ 3-5/8"	92.5/ 3-5/8"	92.5/ 3-5/8"	105.5/ 4-1/8"	105.5/ 4-1/8"	105.5/ 4-1/8"	105.5/ 4-1/8"	134.8/ Ø133	134.8/ Ø133	134.8/ Ø133	
Energy control			SRC-S(EX): Stepped: full load, 75, 50%, min. (No step: full load...min. or full load...50% as required)										
Motor Protection Module			INT69 SNY										
Standard Motor ⁽¹⁾			400V/3/50Hz - 460V/3/60Hz										
Y/Δ SRC-S(W)	Starting current	LRA Y	A	276	354	374	453	543	543	595	783	876	1062
		LRA Δ	A	876	1155	1155	1333	1645	1645	1802	2348	2627	3186
Y/Δ SRC-S	Max. operating current	FLA	A	195	210	230	265	290	320	418	475	540	590
		LRA Y	A	354	374	453	543	595	595	595	876	1062	1062
Y/Δ SRC-S	Starting current	LRA Δ	A	1155	1155	1333	1645	1802	1802	1802	2627	3186	3186
		FLAL	A	225	245	270	300	334	400	418	520	590	650

(1) Voltage error ±10%

Advantage

Efficiency

The built-in volume ratio can be selected within the following range based on order requirements:

SRC-S(EX)

Vi=2.2(W) Applicable for water-cooled flooded units and high-efficiency units

Vi=2.6(S) Applicable for air-cooled/water-source heat pump units

Vi=3.2(H) Applicable for high-temperature air-cooled/heat pump units

According to needs, the built-in volume ratio Vi of the larger 3-size compressors can be adjusted between the following different values:

SRC-S(EX) Vi=2.6-2.2(SW), Vi=3.2-2.6(HS)

By selecting the correct Vi, the compression ratio can be adjusted to the actual required compression ratio during the compression process, thereby optimizing the efficiency of the unit.

Supply

The standard configuration:

Y/Δ motor (400V-3-50Hz, 460V-3-60Hz), suction stop valve (only SRC-S(EX) series), exhaust stop valve, built-in check valve, built-in safety pressure reducing valve, method Lan connection oil separator, oil sight glass, oil filter, lubricating oil, explosion-proof oil heater, 4-stage (full load-75-50-min%) or stepless (full load-min%) cooling capacity control device, motor protection module, explosion-proof electrical box (shell IP54 grade), filling with protective nitrogen, oil cooling connection joint (only for SRC-S-255EX/ 285EX/305EX/ 755EX/785EX/885EX/985EX, 134-S-EX) vibration damping pad.

The optional Configuration:

The following accessories are available on request: other electric motors, suction shut-off valve, liquid injection connection kit, ECO port connection kit with shut-off valve, oil cooling connection connector, oil flow switch with safety barrier, step/stepless cooling capacity Adjustment Transition Assembly, D.O.L. Start Strap.

Electrical accessories:

In the standard supply, the compressor electrical accessories (motor protection module, explosion-proof oil heater, explosion-proof solenoid valve coil) are suitable for 220V AC 50/60Hz power supply, if you have other electrical requirements, please consult separately.

Nameplate data:

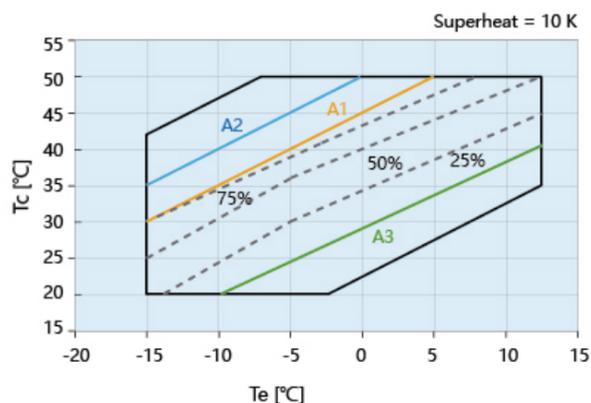
The main features of the compressor are indicated on a sign: serial number, compressor model, motor parameters, lubricating oil type (M=R22 oil, E=HFC refrigerant oil), displacement (m3/h), related electrical parameters, etc.

Usage:

For severe working conditions (high condensing temperature and/or low evaporating temperature), it is necessary to add oil to the cooling device outside the compressor. Three different areas are shown in different refrigerant application ranges: the operating conditions represented in area 1 are that the system requires external oil cooling or liquid injection; the operating conditions in area 2 require external oil cooling; the operating conditions in area 3 The differential pressure of the oil filter needs to be strictly monitored in the working condition. Consult the RefComp Screw Compressor Application Manual for the calculation of the externally fed cooling circuit and the selection of the required externally fed components. The overall efficiency (COP) of the refrigeration cycle will be further improved by adopting the subcooling economizer circuit (ECO). Consult the RefComp Screw Compressor Application Brochure for operating principles, subcooling circuits and selection of external components.

Scope of Application

SRC-S(W)-EX series



A1 = Oil cooling or liquid spray
A2 = Oil cooling
A3 = Oil filter monitoring

SRC-S(EX) Performance parameters

Model	Refrigerant R404A					
	Te = -5 °C; Tcond = 40 °C			Te = 0 °C; Tcond = 38 °C		
	Q0 [kW]	Pa [kW]	COP	Q0 [kW]	Pa [kW]	COP
SRC-S-113EX	92.7	31.6	2.94	112.2	32.6	3.44
SRC-S-133EX	117.8	39.7	2.97	142.6	41.1	3.47
SRC-S-163EX	128.7	42.1	3.06	156.5	42.7	3.67
SRC-S-183EX	149.5	48.8	3.06	181.8	49.5	3.67
SRC-S-213EX	172.8	55.9	3.09	210.1	56.7	3.71
SRC-S-255EX	212.2	67.5	3.15	258	68.4	3.77
SRC-S-285EX	236.1	74.9	3.15	287.2	75.9	3.78
SRC-S-305EX	255.6	81.2	3.15	310.8	82.4	3.77
SRC-S-353EX	304.8	95.5	3.19	370.7	96.8	3.83
SRC-S-413EX	340.5	105.8	3.22	414.2	107.2	3.86
SRC-S-463EX	384.1	116.8	3.29	470.5	120.9	3.89
SRC-S-503EX	423.2	128.7	3.29	518.5	133.2	3.89
SRC-S-553EX	451.8	137.5	3.29	553.6	142.2	3.89
SRC-S-603EX	553.1	169.3	3.27	656.8	175.7	3.74
SRC-S-755EX	654.3	209.3	3.13	787.2	212.7	3.7
SRC-S-785EX	720.4	232	3.11	865.1	240.7	3.59
SRC-S-885EX	791.6	261.9	3.02	950.7	271.8	3.5
SRC-S-985EX	870.8	292.5	2.98	1045.8	303.5	3.45

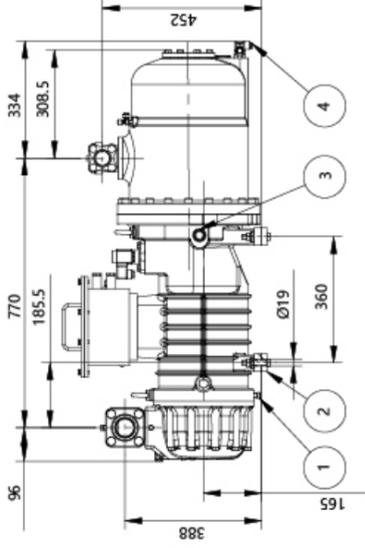
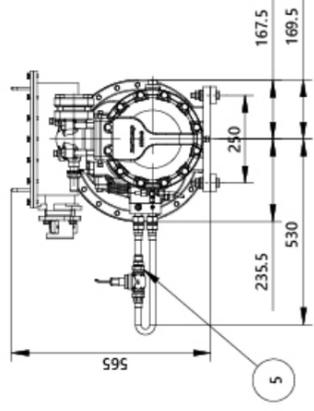
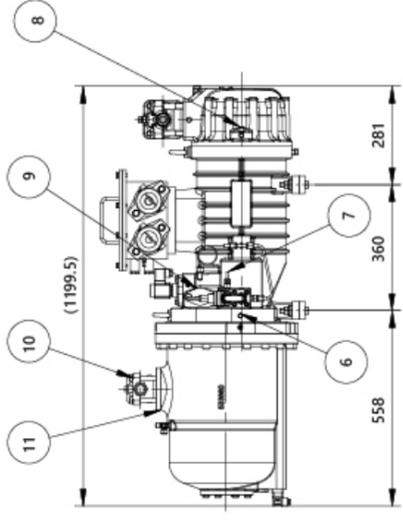
Model	Refrigerant R407C					
	Te = -5 °C; Tcond = 40 °C			Te = 5 °C; Tcond = 40 °C		
	Q0 [kW]	Pa [kW]	COP	Q0 [kW]	Pa [kW]	COP
SRC-S-113EX	79.8	26.5	3.01	122.3	27.9	4.38
SRC-S-133EX	101.4	33	3.07	155.4	34.8	4.47
SRC-S-163EX	111.6	35.3	3.17	169.4	37.5	4.52
SRC-S-183EX	129.5	40.9	3.17	196.4	43.5	4.52
SRC-S-213EX	149.7	46.8	3.2	227	49.8	4.56
SRC-S-255EX	184	56.5	3.26	279.1	60.1	4.65
SRC-S-285EX	204.7	62.7	3.26	310.6	66.7	4.66
SRC-S-305EX	221.6	68	3.26	336.2	72.3	4.65
SRC-S-353EX	264	80	3.3	400.5	85	4.71
SRC-S-413EX	295	88.6	3.33	447.5	94.2	4.75
SRC-S-463EX	320.2	99.2	3.23	493.7	103.4	4.78
SRC-S-503EX	352.9	109.3	3.23	544	113.9	4.78
SRC-S-553EX	376.7	116.7	3.23	580.8	121.6	4.78
SRC-S-603EX	479.6	139.8	3.43	700.8	154.1	4.55
SRC-S-755EX	541.1	166.5	3.25	803.8	175.8	4.57
SRC-S-785EX	654.6	191.6	3.42	947.9	211.1	4.49
SRC-S-885EX	719.3	216.3	3.33	1041.7	238.4	4.37
SRC-S-985EX	791.2	241.5	3.28	1145.9	266.2	4.3

KEY / LEGENDA

Q0 = cooling capacity [kW] - Pa = input power [kW] - Te = evaporating temperature [°C, DEW]; Tc = condensing temperature [°C, DEW] - subcooling degree 5K - suction superheat degree 10K/1K; product Improvement, the performance parameters are subject to the latest selection software of RefComp.

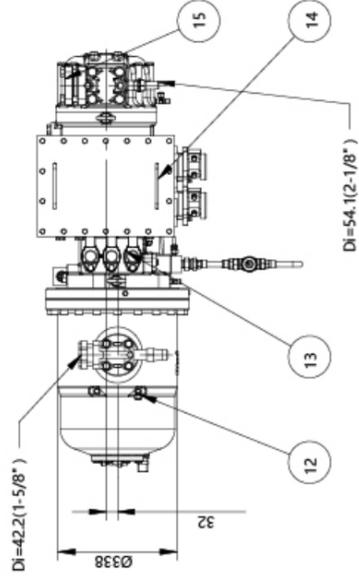
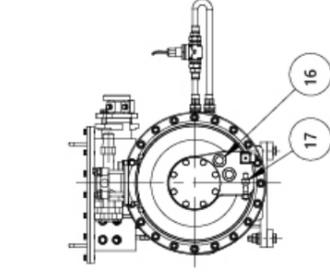
Dimensions

SRC-S-113EX / 133EX / 163EX

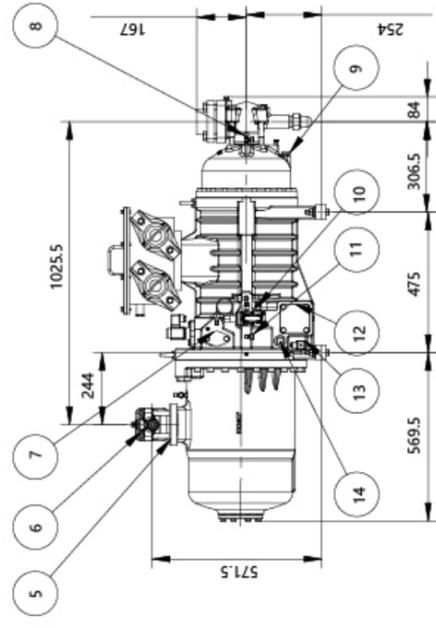
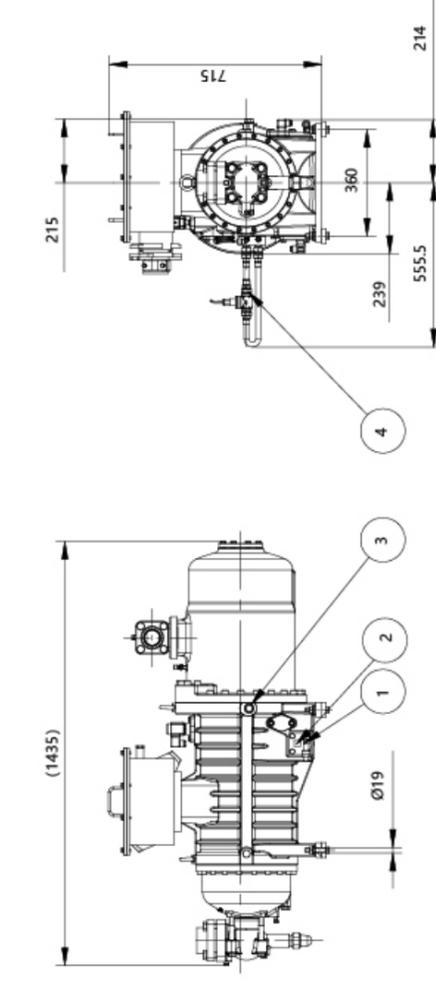


Legend

1	Low-pressure oil discharge port 1/4" SAE-FLARE
2	Vibration isolation pad
3	Liquid injection port Ø10/Economizer port Ø22 (optional)
4	Explosion-proof oil heater
5	Oil flow switch (optional)
6	Oil pressure joint 1/4" SAE-FLARE
7	Oil temperature sensor 1/8" NPT, PTC 110°C
8	Low-pressure joint 1/4" SAE-FLARE
9	Solenoid valve port (stepless energy control)
10	Discharge shut-off valve
11	Check valve
12	High-pressure joint 1/4" SAE-FLARE
13	Explosion-proof refrigeration capacity adjustment solenoid valve
14	Explosion-proof junction box
15	Suction shut-off valve
16	Oil sight glass
17	Oil injection/discharge valve 3/8" SAE-FLARE

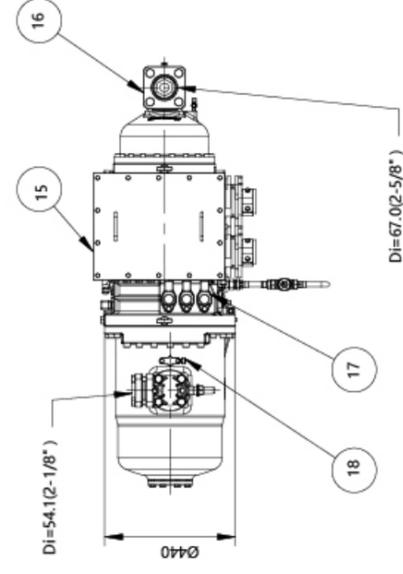


SRC-S-183EX / 213EX

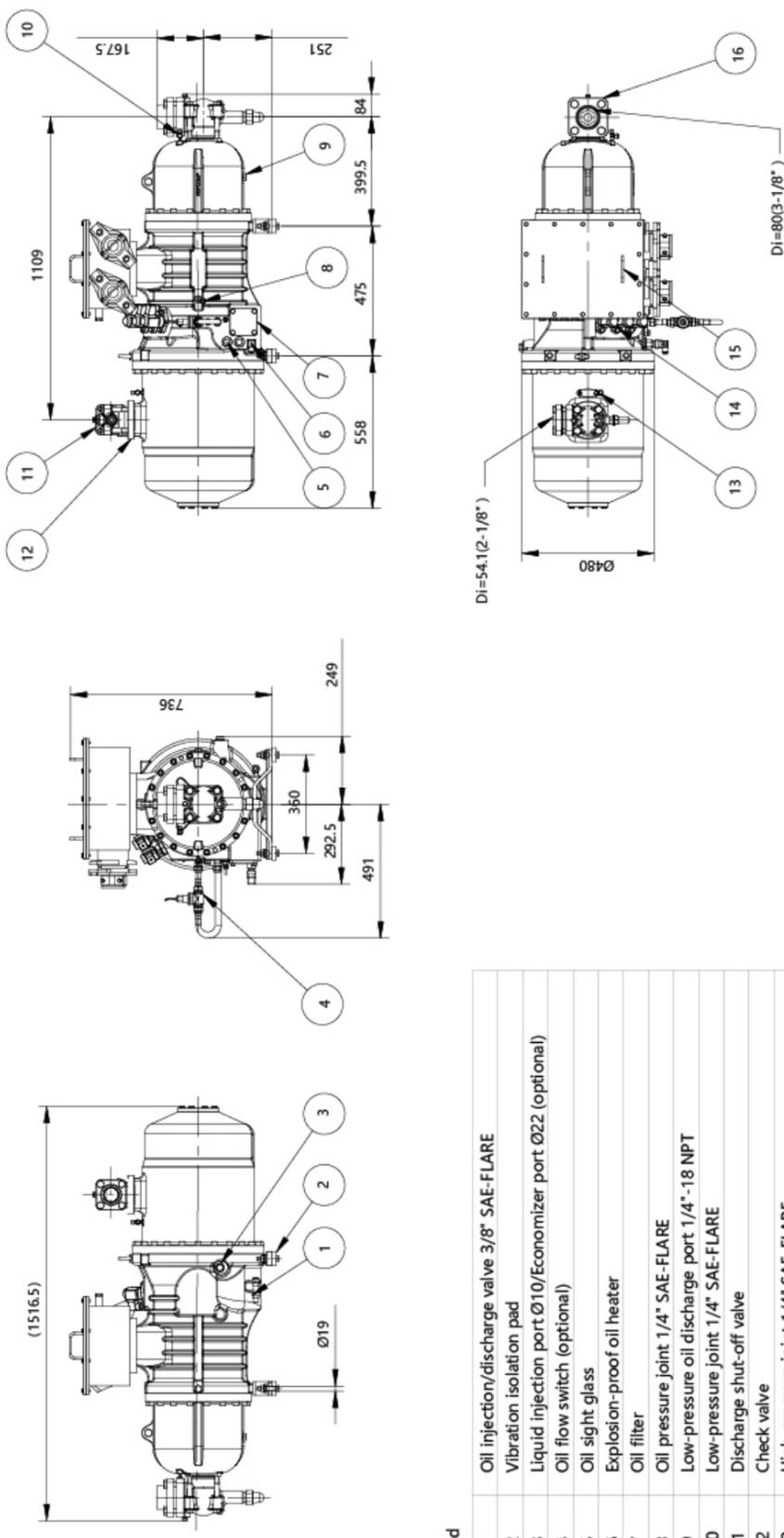


Legend

1	Oil injection/discharge valve 3/8" SAE-FLARE
2	Oil level switch (optional)
3	Liquid injection port Ø10/Economizer port Ø22 (optional)
4	Oil flow switch (optional)
5	Check valve
6	Discharge shut-off valve
7	Solenoid valve port (stepless energy control)
8	Low-pressure joint 1/4" SAE-FLARE
9	Low-pressure oil discharge port 1/4"-18 NPT
10	Oil temperature sensor 1/8", PTC 110°C
11	Oil pressure joint 1/4" SAE-FLARE
12	Oil filter
13	Explosion-proof oil heater
14	Oil sight glass
15	Explosion-proof junction box
16	Suction shut-off valve
17	Explosion-proof energy adjustment solenoid valve
18	High-pressure joint 1/4" SAE-FLARE



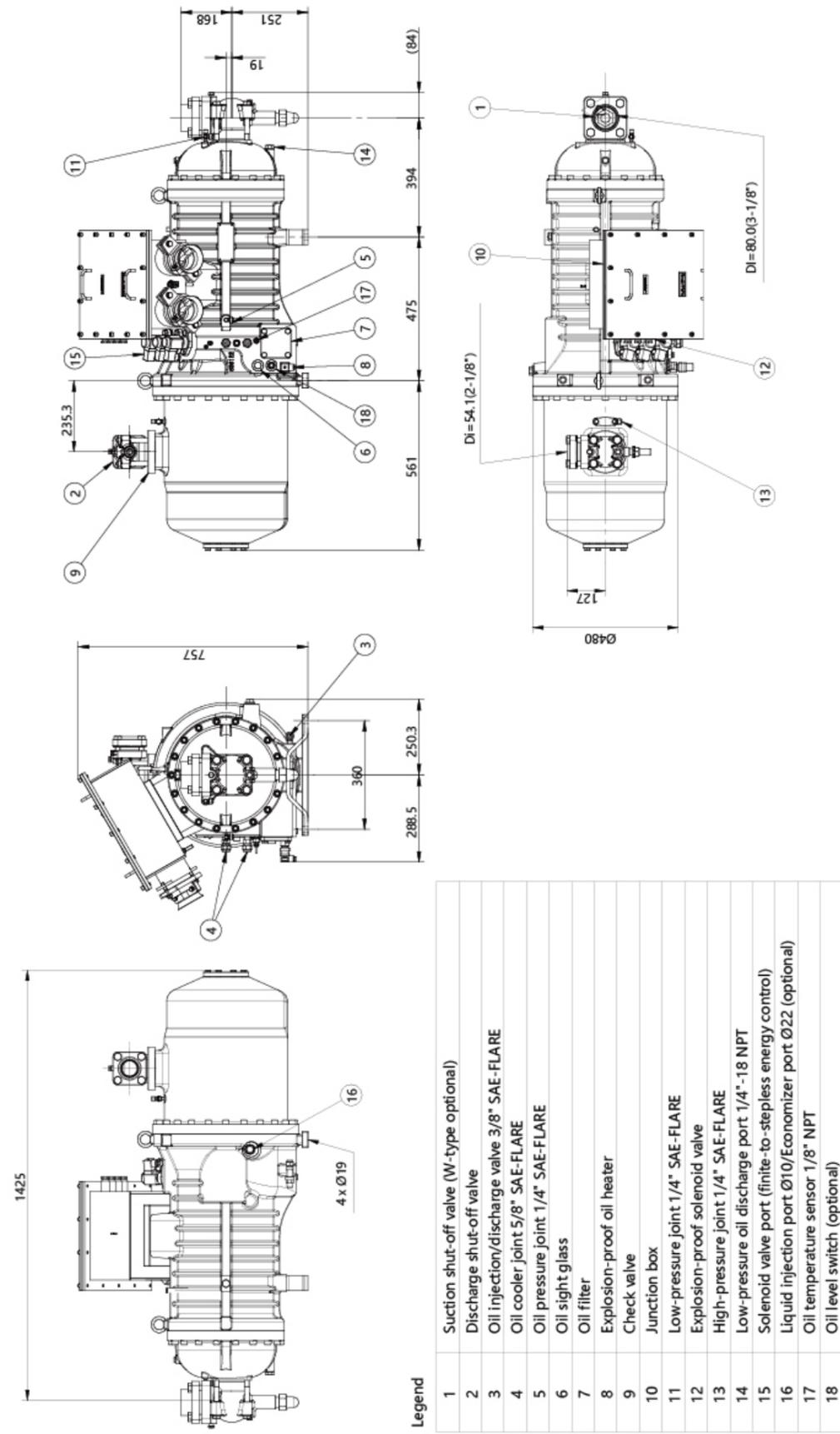
SRC-S-285EX / 305EX



Legend

1	Oil injection/discharge valve 3/8" SAE-FLARE
2	Vibration isolation pad
3	Liquid injection port Ø10/Economizer port Ø22 (optional)
4	Oil flow switch (optional)
5	Oil sight glass
6	Explosion-proof oil heater
7	Oil filter
8	Oil pressure joint 1/4" SAE-FLARE
9	Low-pressure oil discharge port 1/4"-18 NPT
10	Low-pressure joint 1/4" SAE-FLARE
11	Discharge shut-off valve
12	Check valve
13	High-pressure joint 1/4" SAE-FLARE
14	Explosion-proof refrigeration capacity adjustment solenoid valve
15	Explosion-proof junction box
16	Suction shut-off valve

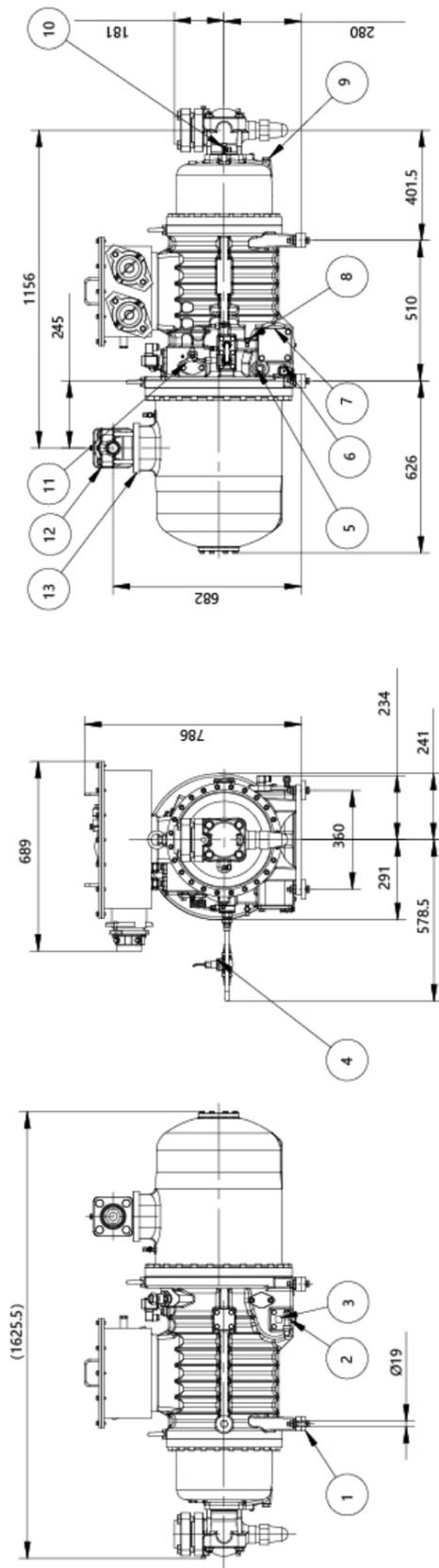
SRC-S-255WEX / 285WEX / 305WEX
SRC-S-255SEX



Legend

1	Suction shut-off valve (W-type optional)
2	Discharge shut-off valve
3	Oil injection/discharge valve 3/8" SAE-FLARE
4	Oil cooler joint 5/8" SAE-FLARE
5	Oil pressure joint 1/4" SAE-FLARE
6	Oil sight glass
7	Oil filter
8	Explosion-proof oil heater
9	Check valve
10	Junction box
11	Low-pressure joint 1/4" SAE-FLARE
12	Explosion-proof solenoid valve
13	High-pressure joint 1/4" SAE-FLARE
14	Low-pressure oil discharge port 1/4"-18 NPT
15	Solenoid valve port (finite-to-stepless energy control)
16	Liquid injection port Ø10/Economizer port Ø22 (optional)
17	Oil temperature sensor 1/8" NPT
18	Oil level switch (optional)

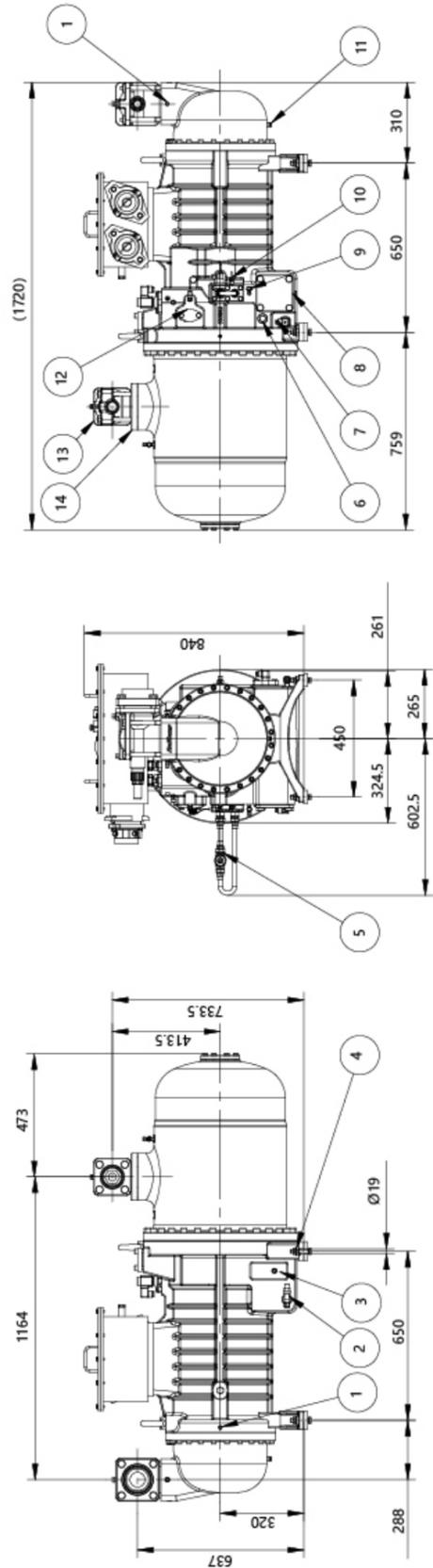
SRC-S-353EX / 413EX / 463EX



Legend

1	Vibration isolation pad
2	Oil injection/discharge valve 3/8" SAE-FLARE
3	Oil level switch (optional)
4	Oil flow switch (optional)
5	Oil sight glass
6	Explosion-proof oil heater
7	Oil filter
8	Oil pressure joint 1/4" SAE-FLARE
9	Low-pressure oil discharge port 1/4"-18 NPT
10	Low-pressure joint 1/4" SAE-FLARE
11	Solenoid valve port (stepless energy control)
12	Discharge shut-off valve
13	Check valve
14	High-pressure joint 1/4" SAE-FLARE
15	Explosion-proof refrigeration capacity adjustment solenoid valve
16	Explosion-proof junction box
17	Suction shut-off valve
18	Liquid injection port Ø10/Economizer port Ø28 (optional)

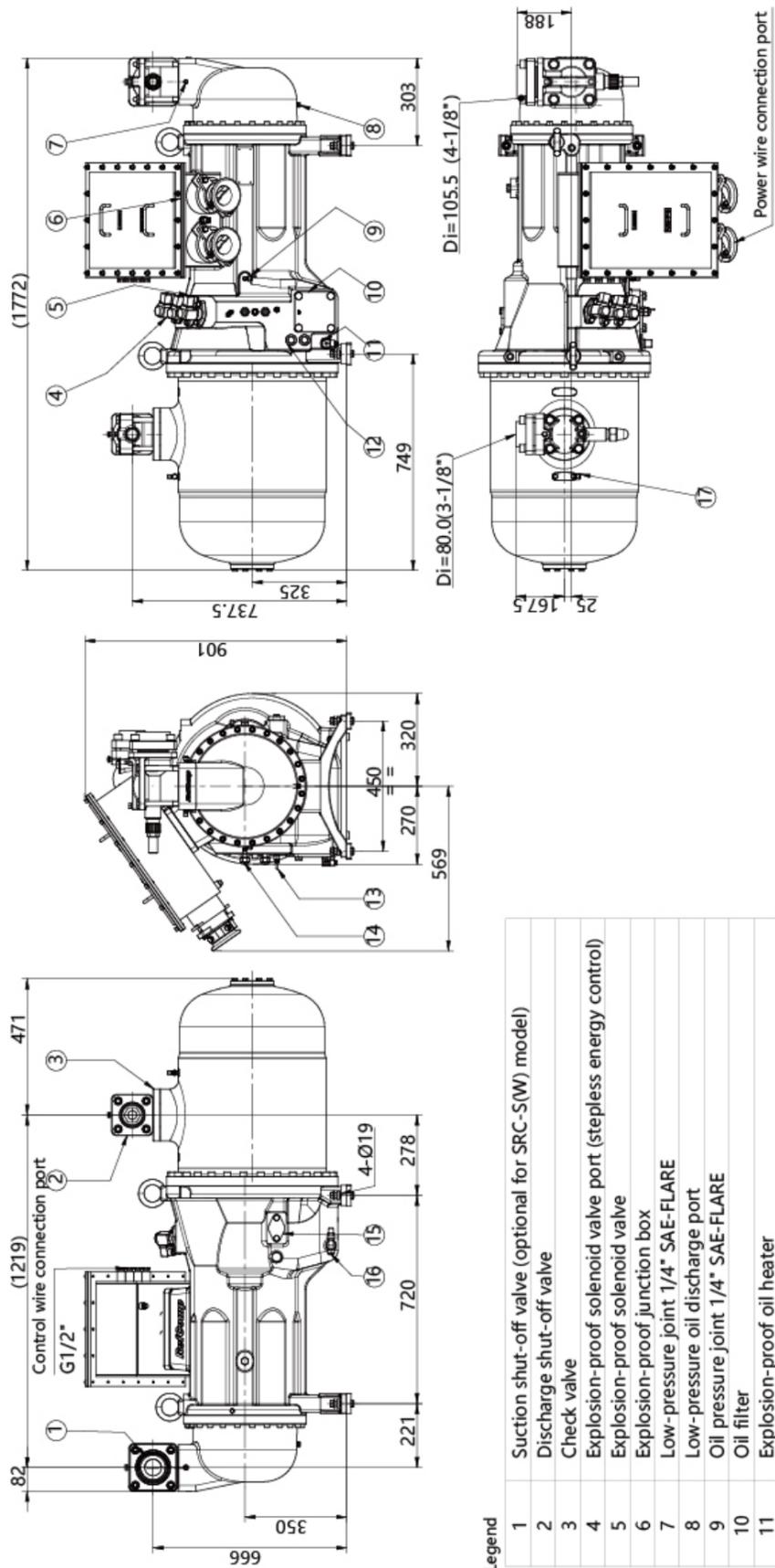
SRC-S-503EX / 553EX / 603EX



Legend

1	Low-pressure joint 1/4" SAE-FLARE
2	Oil injection/discharge valve 3/8" SAE-FLARE
3	Oil level switch (optional)
4	Vibration isolation pad
5	Oil flow switch (optional)
6	Oil sight glass
7	Explosion-proof oil heater
8	Oil filter
9	Oil pressure joint 1/4" SAE-FLARE
10	Oil temperature sensor 1/8" NPT, PTC 110°C
11	Low-pressure oil discharge port 1/4"-18 NPT
12	Solenoid valve port (stepless capacity control)
13	Discharge shut-off valve
14	Check valve
15	High-pressure joint 1/4" SAE-FLARE
16	Explosion-proof solenoid valve
17	Explosion-proof junction box
18	Suction shut-off valve
19	Liquid injection port Ø10/Economizer port Ø42 (optional)

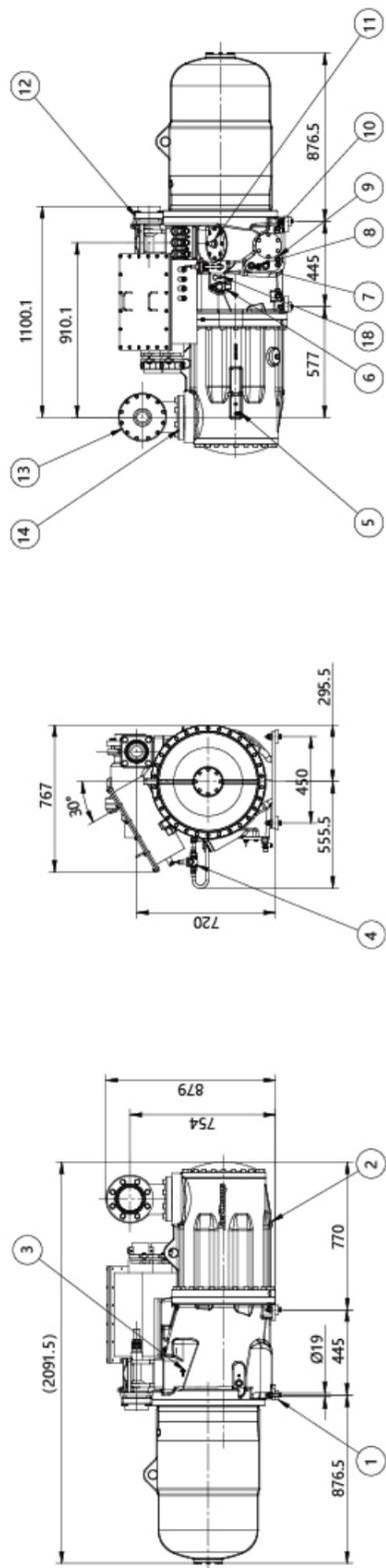
SRC-S-755EX



Legend

1	Suction shut-off valve (optional for SRC-S(W) model)
2	Discharge shut-off valve
3	Check valve
4	Explosion-proof solenoid valve port (stepless energy control)
5	Explosion-proof solenoid valve
6	Explosion-proof junction box
7	Low-pressure joint 1/4" SAE-FLARE
8	Low-pressure oil discharge port
9	Oil pressure joint 1/4" SAE-FLARE
10	Oil filter
11	Explosion-proof oil heater
12	Oil sight glass
13	Temperature sensor 1/8" NPT
14	Oil cooler port 5/8" SAE-FLARE
15	Liquid injection port Ø10/Economizer port Ø22 (optional)
16	Oil injection/discharge valve 3/8" SAE-FLARE
17	High-pressure joint 1/4" SAE-FLARE

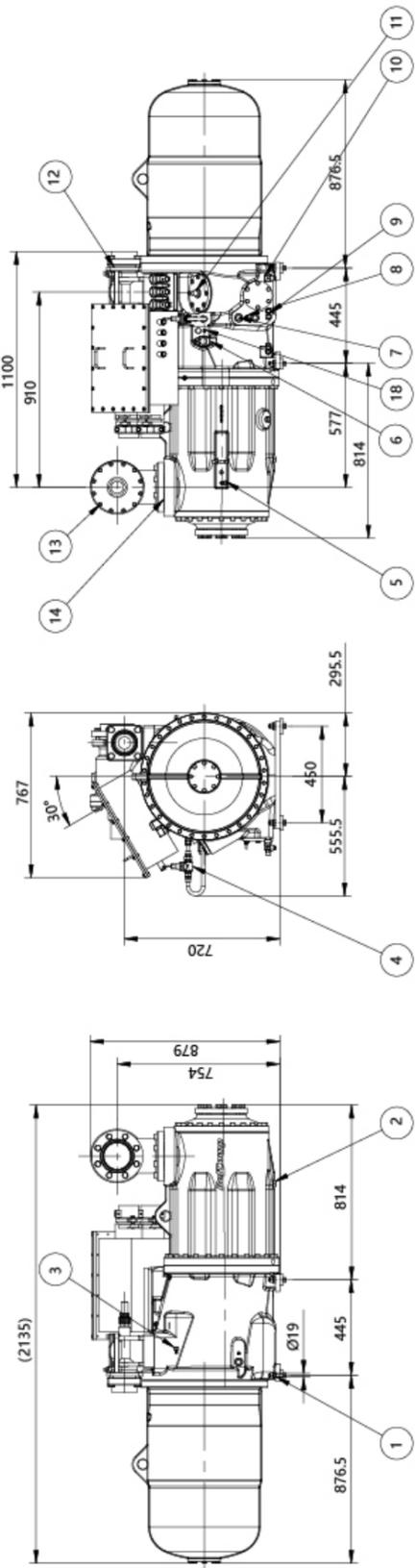
SRC-S-785EX/885EX/985EX (radial suction, standard)



Legend

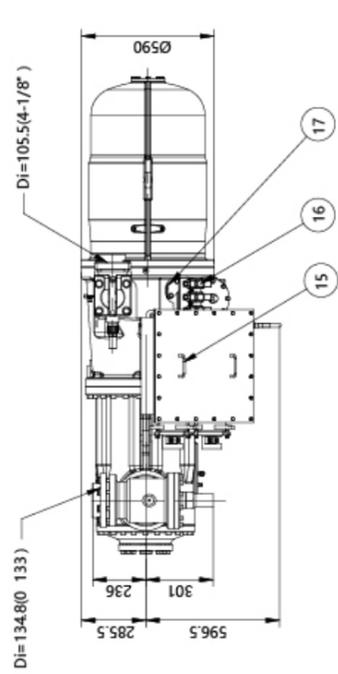
1	Vibration isolation pad
2	Low-pressure oil discharge port 1/4"-18 NPT
3	High-pressure joint 1/4" SAE-FLARE
4	Oil flow switch (optional)
5	Low-pressure joint 1/4" SAE-FLARE
6	Explosion-proof VI control solenoid valve (optional)
7	Oil sight glass
8	Oil temperature sensor 1/8" NPT, PTC 110°C
9	Oil injection/discharge valve 3/8" SAE-FLARE
10	Explosion-proof oil heater
11	Oil filter
12	Discharge shut-off valve
13	Suction shut-off valve
14	Check valve
15	Explosion-proof junction box
16	Explosion-proof refrigeration capacity adjustment solenoid valve
17	Liquid injection port Ø10/Economizer port Ø42 (optional)
18	Oil pressure joint 1/4" SAE-FLARE

SRC-S-785EX/885EX/985EX (radial suction, optional)

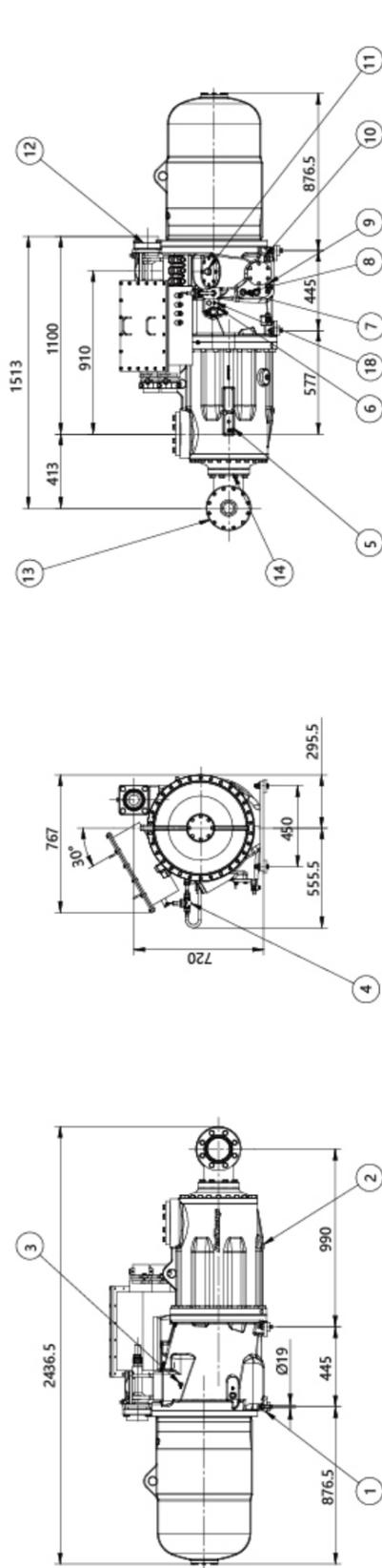


Legend

1	Vibration isolation pad
2	Low-pressure oil discharge port 1/4" -18 NPT
3	High-pressure joint 1/4" SAE-FLARE
4	Oil flow switch (optional)
5	Low-pressure joint 1/4" SAE-FLARE
6	Explosion-proof VI control solenoid valve (optional)
7	Oil sight glass
8	Oil temperature sensor 1/8" NPT, PTC 110°C
9	Oil injection/discharge valve 3/8" SAE-FLARE
10	Explosion-proof oil heater
11	Oil filter
12	Discharge shut-off valve
13	Suction shut-off valve
14	Check valve
15	Explosion-proof junction box
16	Explosion-proof refrigeration capacity adjustment solenoid valve
17	Liquid injection port Ø10/Economizer port Ø42 (optional)
18	Oil pressure joint 1/4" SAE-FLARE



SRC-S-785EX/885EX/985EX (axial suction, optional)



Legend

1	Vibration isolation pad
2	Low-pressure oil discharge port 1/4" -18 NPT
3	High-pressure joint 1/4" SAE-FLARE
4	Oil flow switch (optional)
5	Low-pressure joint 1/4" SAE-FLARE
6	Explosion-proof VI control solenoid valve (optional)
7	Oil sight glass
8	Oil temperature sensor 1/8" NPT, PTC 110°C
9	Oil injection/discharge valve 3/8" SAE-FLARE
10	Explosion-proof oil heater
11	Oil filter
12	Discharge shut-off valve
13	Suction shut-off valve
14	Check valve
15	Explosion-proof junction box
16	Explosion-proof refrigeration capacity adjustment solenoid valve
17	Liquid injection port Ø10/Economizer port Ø42 (optional)
18	Oil pressure joint 1/4" SAE-FLARE

