

RefComp

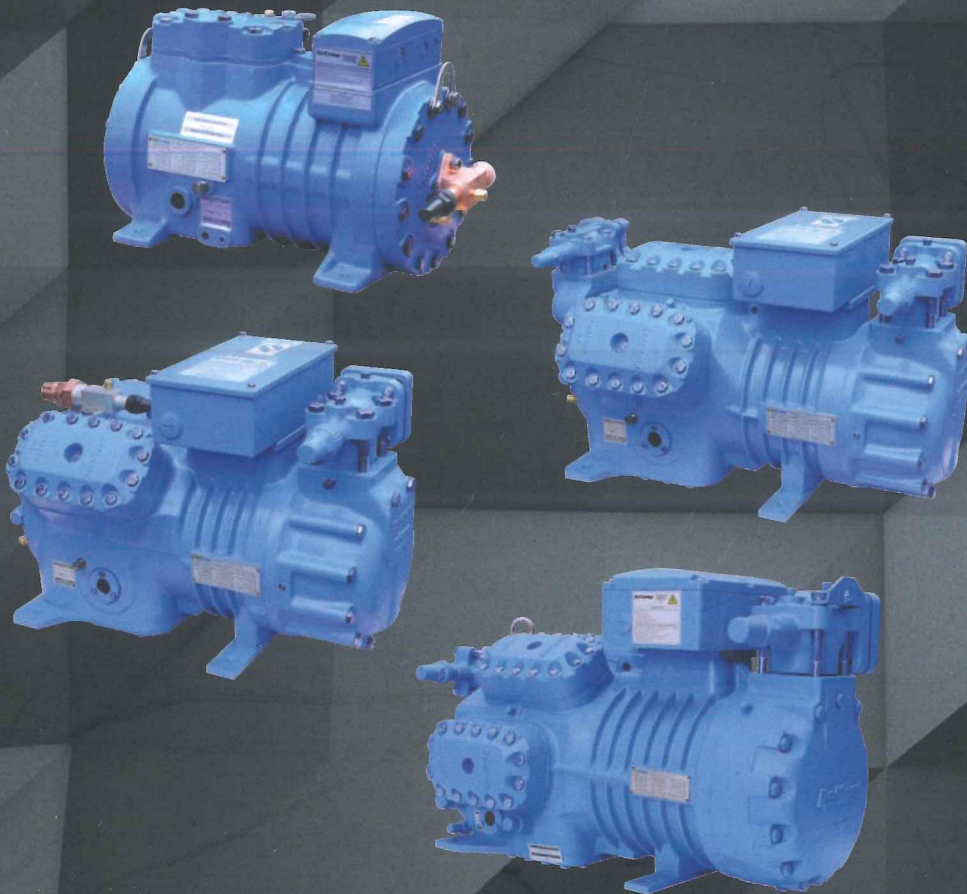
SP Series

Semi-hermetic Piston Compressors

RefComp Italy

Semi-hermetic Piston Compressors
The world-famous brand of screw
compressor and piston compressor

From the refrigeration compressor
expert in Italy



SP-1701-02

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RefComp SP Semi-hermetic Piston Compressor Diagram

RefComp SP Series have a wide application, applicable for various commercial and industrial refrigeration scenarios. RefComp SP Series include 34 models, with 2, 4, 6, 8 cylinders, rated power ranging from 3 to 70 HP, and the corresponding displacement ranging from 17.5 to 222m³/h at 50Hz.

Safety Valve

- Embedded safety valve connects high pressure and low pressure to prevent the pressure inside the housing from exceeding the safety threshold;
- High-specification design: reliable sealing, accurate opening, on-time full opening, stable release, in-time re-seating, reliable safety.



Capacity Control

- The capacity is controlled, in line with the full load or partial load, via the solenoid valve;
- The capacity control includes 4-cylinder at 50% capacity, 6-cylinder at 66%–33% capacity and 8-cylinder at 75%–50% capacity, fully meeting the requirement of the system capacity.



Compressor Housing

- Working pressure: up to 28bar;
 - Optimized design of suction air ways: low suction resistance and sufficient cooling of motor; straight-through middle air runner, reduction of the loss along the way;
 - little discharge throttling loss and low energy consumption;
- Compact size: filter, shut-off valve, and temperature sensor are integrated.



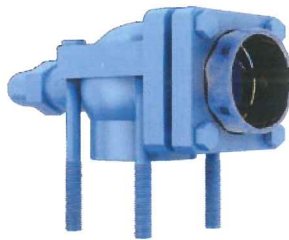
Crankshaft, Connecting Rod, and Piston

- The crankshaft (including balancing weight) designed by RefComp: smooth operation, low-vibration and excellent lubrication;
- High efficiency, high strength, low vibration, low gas pulsation and low noise, which is achieved through new technology, and overall performance has reached the world top level of the same types of compressors;
- The connecting rod includes the low-friction bearing bush at its smaller end, which enhances its durability.



Motor Protection

- INT69B2 Protection Module ensures that the motor is not burned out.



Shut-off Valve

- Some suction/discharge shut-off valves can be reversed 360°. Easy installation, compact structure, and high flexibility.



Suction Filter



- Embedded high-density suction filter: remove the impurities of the refrigerant gas and protect the motor;
- Installed at the out most of the suction line: compact structure and easy replacement.

Bearings



- The sliding bearing (bush) and the thrust washer are coupled to avoid crankshaft axial/radial wear; ultra high load, high precision super wear resistance, low noise;
- High precision, high wear resistance and excellent lubrication: the designed life of 50-80 thousand hours.



Motor

- Partial winding or star-delta starter: low starting current and low operational energy consumption;
- The motor is designed to be used for various power voltages and frequencies for customers in different regions of the world;
- Special tailor-made materials are used in making so that it is compatible with multiple refrigerants R22, R407C, R134a, R404A, R507A, etc.
- Unique structure design and spacing layout: effective cooling of motor by using subcooled refrigerant gas between the suction shut-off valve and the inlet of the piston.

Model Identification

Compressor	SP	4	H	N	2000
	SP	4	L	F	080E

Series	
SP	Semi-hermetic Piston Compressor

No. of Cylinders	
SP Series: 2-4-6-8	

Compressor Type	
H	High temp compressor
L	Low temp compressor

Lubrication mode ⁽¹⁾ (SP Series only)	
F	Pressure lubrication (with oil pump)
N	Splash lubrication (without oil pump)

Nominal Power of Motor HP X 100 ⁽²⁾	
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(1) only for 4-CYL models: 10-20[HP] High temp compressor and 6-12[HP] low temp compressor

(2) Suffix E stands for compressors with POE oil

Technical Parameters

SP		H (High temp compressor)																
		SP2H				SP4HF / SP4HN				SP4H				SP6H			SP8H	
		0500	0600	0800	0900	1000	1200	1500	2000	2200	2500	3000	3500	3700	4000	5000	6000	7000
		050E	060E	080E	090E	100E	120E	150E	200E	220E	250E	300E	350E	370E	400E	500E	600E	700E
Rated power	[Hp/kW]	5 / 3.7	6 / 4.4	8 / 5.9	9 / 6.6	10 / 7.5	12 / 8.9	15 / 11.2	20 / 14.9	22 / 16.4	25 / 18.7	30 / 22.4	35 / 26.1	37 / 27.6	40 / 29.9	50 / 37.3	60 / 45	70 / 52
Displacement	[m ³ /hr]	17.5 / 21	21 / 25.7	24.5 / 29.4	28 / 33.6	35 / 42	42 / 50.4	49 / 58.8	56 / 67.2	64.7 / 77.6	75 / 90	86.1 / 103.3	102.9 / 123.5	112.5 / 135	129.1 / 154.9	154.4 / 185.3	186 / 224	222 / 268
No. of cylinders		2	2	2	2	4	4	4	4	4	4	4	4	6	6	6	8	8
Weight	[Kg]	86	87	87	91	143	146	152	155	193	206	209	238	241	246	250	345	350
Oil charge	[dm ³]	1.8	1.8	1.8	1.8	2.6	2.6	2.6	2.6	3.7	3.7	3.7	3.7	4.2	4.2	4.2	5	5
Crankshaft Heater		230[V]-120[W] -PTC 50/60[Hz]				230[V]-220[W]-50/60[Hz]				230[V]-150[W]-50/60[Hz]							230[V]-200[W] -50/60[Hz]	
Discharge line Φ	[mm / inches]	16 / 5/8"	16 / 5/8"	22 / 7/8"	22 / 7/8"	22 / 7/8"	28 / 1"1/8"	28 / 1"1/8"	28 / 1"1/8"	28- 1 1/8"	28- 1 1/8"	28- 1 1/8"	35- 1 3/8"	35- 1 3/8"	35- 1 3/8"	42- 1 5/8"	54 / 2"1/8"	54 / 2"1/8"
Suction line Φ	[mm / inches]	28 / 1"1/8"	28 / 1"1/8"	28 / 1"1/8"	28 / 1"1/8"	28 / 1"1/8"	35 / 1"3/8"	42 / 1"5/8"	42 / 1"5/8"	42- 1 5/8"	54- 2 1/8"	54- 2 1/8"	54- 2 1/8"	54- 2 1/8"	54- 2 1/8"	54- 2 1/8"	67 / 2"5/8"	67 / 2"5/8"
Capacity control		-	-	-	-	100, 50%	100, 50%	100, 50%	100, 50%	100, 50%	100, 50%	100, 50%	100, 50%	100, 33%	100, 33%	100, 33%	100, 75%	100, 75%
Standard motor		Δ 230[V]/3/50[Hz] Y 400[V]/3/50[Hz]				400[V]/3/50[Hz] 460[V]/3/60[Hz] ⁽¹⁾ P W				400[V]/3/50[Hz] -460[V]/3/60[Hz] ⁽¹⁾ P W							400[V]/3/50[Hz] 460[V]/3/60[Hz] ⁽¹⁾ P W	
Starting current PW/DOL	[A]	- / 54	- / 60	- / 85	- / 97	71 / 110	75 / 125	86 / 144	106 / 168	102 / 170	123 / 201	150 / 243	178 / 290	178 / 290	201 / 330	233 / 394	271 / 361	329 / 439
Starting current Y/D	[A]	54 / -	60 / -	85 / -	97 / -	-	-	-	-	-	-	-	-	-	-	-	-	-
Max operating current	[A]	12	14	16	20	24	27	33	40	37	43	52	56	60	75	93	115	140

SP		L (Low temp compressor)																
		SP2L				SP4LF / SP4LN				SP4L				SP6L			SP8L	
		0300	0400	0500	0600	0600	0800	1000	1200	1500	1800	2200	2500	2700	3000	4000	5000	6000
		030E	040E	050E	060E	060E	080E	100E	120E	150E	180E	220E	250E	270E	300E	400E	500E	600E
Rated power	[Hp/kW]	3 / 2	4 / 3	5 / 3.7	6 / 4.4	6 / 4.5	8 / 5.9	10 / 7.5	12 / 8.9	15 / 11.2	18 / 13.3	22 / 16.4	25 / 18.7	27 / 20.2	30 / 22.4	40 / 29.9	50 / 37	60 / 45
Displacement	[m ³ /hr]	17.5 / 21	21 / 25.7	24.5 / 29.4	28 / 33.6	35 / 42	42 / 50.4	49 / 58.8	56 / 67.2	64.7 / 77.6	75 / 90	86.1 / 103.3	102.9 / 123.5	112.5 / 135	129.1 / 154.9	154.4 / 185.3	186 / 224	222 / 268
No. of cylinders		2	2	2	2	4	4	4	4	4	4	4	4	6	6	6	8	8
Weight	[Kg]	84	85	85	86	134	139	144	146	182	186	195	220	230	236	247	340	345
Oil charge	[dm ³]	1.8	1.8	1.8	1.8	2.6	2.6	2.6	2.6	3.7	3.7	3.7	3.7	4.2	4.2	4.2	5	5
Crankshaft Heater		230[V]-120[W] -PTC 50/60[Hz]				230[V]-220[W]-50/60[Hz]				230[V]-150[W]-50/60[Hz]							230[V]-200[W] -50/60[Hz]	
Discharge line Φ	[mm / inches]	16 / 5/8"	16 / 5/8"	22 / 7/8"	22 / 7/8"	22 / 7/8"	28 / 1"1/8"	28 / 1"1/8"	28 / 1"1/8"	28- 1 1/8"	28- 1 1/8"	28- 1 1/8"	35- 1 3/8"	35- 1 3/8"	35- 1 3/8"	42- 1 5/8"	54 / 2"1/8"	54 / 2"1/8"
Suction line Φ	[mm / inches]	28 / 1"1/8"	28 / 1"1/8"	28 / 1"1/8"	28 / 1"1/8"	28 / 1"1/8"	35 / 1"3/8"	42 / 1"5/8"	42 / 1"5/8"	42- 1 5/8"	54- 2 1/8"	54- 2 1/8"	54- 2 1/8"	54- 2 1/8"	54- 2 1/8"	54- 2 1/8"	67 / 2"5/8"	67 / 2"5/8"
Capacity control		-	-	-	-	100, 50%	100, 50%	100, 50%	100, 50%	100, 50%	100, 50%	100, 50%	100, 50%	100, 33%	100, 33%	100, 33%	100, 75%	100, 75%
Standard motor		Δ 230[V]/3/50[Hz] Y 400[V]/3/50[Hz]				400[V]/3/50[Hz] 460[V]/3/60[Hz] ⁽¹⁾ P W				400[V]/3/50[Hz] -460[V]/3/60[Hz] ⁽¹⁾ P W							400[V]/3/50[Hz] 460[V]/3/60[Hz] ⁽¹⁾ P W	
Starting current PW/DOL	[A]	- / 35	- / 49	- / 54	- / 60	43 / 70	54 / 88	71 / 110	75 / 125	88 / 146	102 / 170	102 / 170	123 / 201	123 / 201	150 / 243	201 / 330	237 / 316	271 / 361
Starting current Y/D	[A]	35 / -	49 / -	54 / -	60 / -	-	-	-	-	-	-	-	-	-	-	-	-	-
Max operating current	[A]	9	10	12	34	16	19	24	27	29	33	39	43	48	54	75	97	115

(1) Voltage \pm 10%

Features

Flexible application in various scenarios

SP Series

- SP Series compressors are not only for R22, but also for R407C, R134a, R404A, and R507 without necessarily changing any mechanical components.
- P Series compressors are particularly designed for air conditioner and other medium and low evaporating temperature refrigeration applications. The condensing temperature for R134a is as high as 80°C, and for R22, R404A, and R507 is as low as -40°C.
- Two types of compressors are available: high temperature compressor (H) for air conditioning and low temperature compressor (L) for refrigerating.

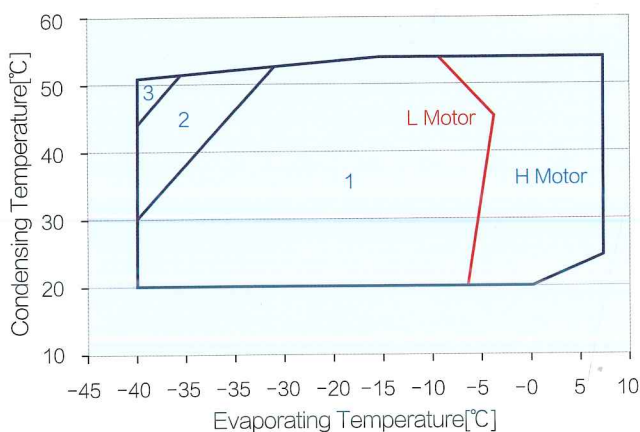
High efficiency; Optimized lubrication; Reliable and safer operation;

Low noise, Smooth operation;

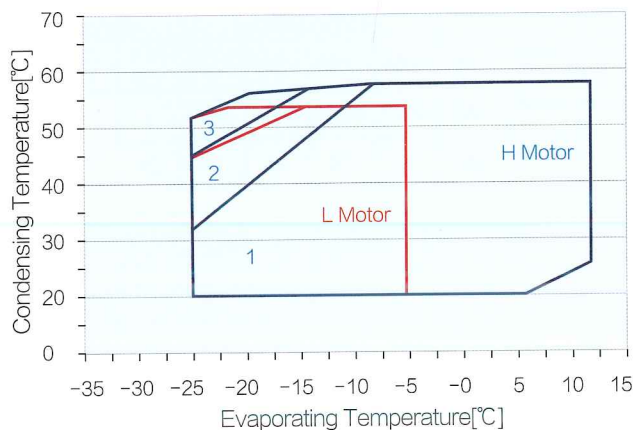
Compact structure, Simple installation, And easy maintenance

Application Requirement

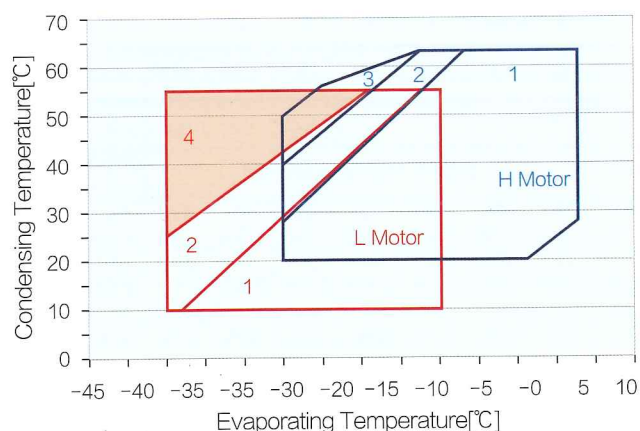
SP Series: R404A-R507 Application



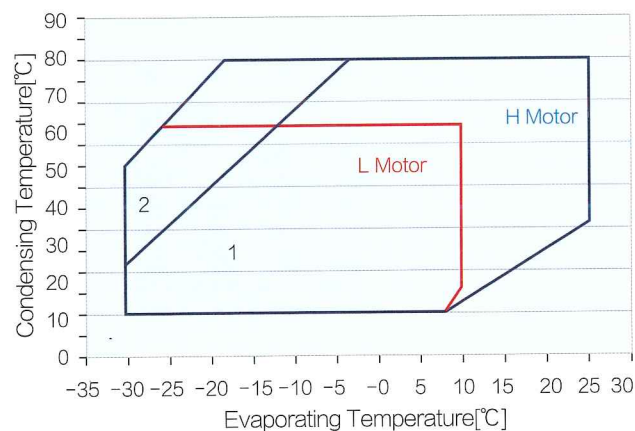
SP Series: R407C



SP Series: R22 Application



SP Series: R134a Application



Full Load Operation Condition

1 = Standard application ([25°C] suction temperature)

2 = Additional cooling application

3 = Additional cooling + suction overheat [20] application

4 = Additional cooling + LCM injection application (not applicable for 8-CYL compressors SP8H-SP8L)

Performance Parameters (SP-H, for R22)

SP2-H-0500									
Tc	30		40		50		60		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	5.1	2.4	4.4	2.5	3.7	2.5	-	-	
-20	6.8	2.7	5.8	2.9	4.9	3.0	-	-	
-15	8.7	3.0	7.6	3.3	6.4	3.5	-	-	
-10	10.9	3.3	9.6	3.6	8.2	3.9	6.8	4.2	
-5	13.4	3.5	11.8	3.9	10.3	4.3	8.7	4.7	
0	16.2	3.6	14.4	4.2	12.6	4.7	10.8	5.2	
5	19.3	3.7	17.3	4.4	15.3	5.0	13.3	5.6	
10	22.8	3.8	20.6	4.6	18.3	5.3	16.1	6.0	

SP2-H-0600									
Tc	30		40		50		60		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	6.1	2.8	5.3	2.9	4.4	3.0	-	-	
-20	8.1	3.2	7.0	3.4	5.9	3.6	-	-	
-15	10.4	3.6	9.1	3.9	7.7	4.2	-	-	
-10	13.1	3.9	11.5	4.3	9.8	4.7	6.2	5.0	
-5	16.1	4.2	14.2	4.7	12.3	5.2	10.4	5.6	
0	19.4	4.3	17.3	5.0	15.2	5.6	13.0	6.2	
5	23.2	4.5	20.8	5.2	18.4	6.0	16.0	6.7	
10	27.3	4.5	24.7	5.4	22.0	6.3	19.3	7.2	

SP2-H-0800									
Tc	30		40		50		60		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	7.1	3.3	6.1	3.4	5.1	3.4	-	-	
-20	9.5	3.8	8.2	4.0	6.9	4.2	-	-	
-15	12.2	4.2	10.6	4.5	9.0	4.8	-	-	
-10	15.3	4.5	13.4	5.0	11.5	5.4	9.5	5.8	
-5	18.8	4.8	16.6	5.4	14.4	6.0	12.1	6.5	
0	22.7	5.0	20.2	5.8	17.7	6.5	15.1	7.2	
5	27.0	5.2	24.3	6.1	21.4	7.0	18.6	7.8	
10	31.9	5.2	28.8	6.3	25.7	7.3	22.5	8.4	

SP2-H-0900									
Tc	30		40		50		60		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	8.1	3.7	7.0	3.9	5.9	3.9	3.9	-	
-20	10.8	4.3	9.3	4.6	7.8	4.7	4.7	-	
-15	13.9	4.8	12.1	5.2	10.3	5.5	5.5	-	
-10	17.5	5.2	15.3	5.7	13.1	6.2	6.2	6.6	
-5	21.5	5.5	19.0	6.2	16.4	6.8	6.8	7.4	
0	25.9	5.7	23.1	6.6	20.2	7.4	7.4	8.2	
5	30.9	5.9	27.7	6.9	24.5	7.9	7.9	8.9	
10	36.4	6.0	32.9	7.2	29.3	8.4	8.4	9.5	

SP4-HF-1000/SP4-HN-1000									
Tc	30		40		50		60		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	10.2	4.1	8.8	4.2	7.3	4.3	-	-	
-20	13.5	4.7	11.7	5.0	9.8	5.2	-	-	
-15	17.4	5.2	15.1	5.7	12.8	6.0	-	-	
-10	21.8	5.7	19.1	6.3	16.4	6.8	13.6	7.2	
-5	26.8	6.0	23.7	6.8	20.5	7.5	17.3	8.1	
0	32.4	6.3	28.9	7.2	25.3	8.1	21.6	8.9	
5	38.6	6.4	34.7	7.6	30.6	8.6	26.6	9.7	
10	45.5	6.5	41.1	7.8	36.7	9.1	32.2	10.4	

SP4-HF-1200/SP4-HN-1200									
Tc	30		40		50		60		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	12.2	4.9	10.5	5.1	8.8	5.1	-	-	
-20	16.2	5.6	14.0	6.0	11.8	6.2	-	-	
-15	20.9	5.3	18.2	6.8	15.4	7.2	-	-	
-10	26.2	6.8	22.9	7.5	19.6	8.1	16.4	8.6	
-5	32.2	7.2	28.4	8.1	24.6	9.0	20.8	9.7	
0	38.9	7.5	34.6	8.6	30.3	9.7	26.0	10.7	
5	46.4	7.7	41.6	9.1	36.8	10.4	31.9	11.6	
10	54.6	7.8	49.4	9.4	44.0	11.0	38.6	12.5	

SP4-HF-1500/SP4-HN-1500									
Tc	30		40		50		60		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	14.2	5.7	12.3	5.9	10.3	6.0	-	-	
-20	18.9	6.5	16.4	7.0	13.7	7.2	-	-	
-15	24.4	7.3	21.2	7.9	17.9	8.4	-	-	
-10	30.5	7.9	26.8	8.8	22.9	9.5	19.1	10.1	
-5	37.5	8.4	33.2	9.5	28.7	10.5	24.3	11.3	
0	45.4	8.8	40.4	10.1	35.4	11.3	30.3	12.5	
5	54.1	9.0	48.5	10.6	42.9	12.1	37.2	13.6	
10	63.7	9.1	57.6	11.0	51.3	12.8	45.1	14.6	

SP4-HF-2000/SP4-HN-2000									
Tc	30		40		50		60		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	16.3	6.5	14.0	6.8	11.7	6.8	-	-	
-20	21.6	7.5	18.7	8.0	15.7	8.3	-	-	
-15	27.8	8.3	24.2	9.0	20.5	9.6	-	-	
-10	34.9	9.0	30.6	10.0	26.2	10.8	21.8	11.5	
-5	42.9	9.6	37.9	10.8	32.8	11.9	27.7	13.0	
0	51.9	10.0	46.2	11.5	40.4	12.9	34.6	14.3	
5	61.8	10.3	55.5	12.1	49.0	13.8	42.5	15.5	
10	72.8	10.4	65.8	12.5	58.7	14.6	51.5	16.4	

SP4-H-2200									
Tc	30		40		50		60		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	18.7	7.8	16.4	8.8	14.2	9.6	-	-	
-20	23.9	8.9	21.0	10.1	18.2	11.1	-	-	
-15	30.3	9.8	26.8	11.2	23.4	12.4	-	-	
-10	38.0	10.6	33.8	12.2	29.8	13.7	25.9	15.2	
-5	47.1	11.3	42.1	13.0	37.3	14.9	32.7	16.8	
0	57.4	11.9	51.7	13.8	46.1	15.9	40.7	18.3	
5	69.1	12.3	62.4	14.5	56.0	16.9	49.7	19.6	
10	82.2	12.6	74.5	15.0	67.1	17.8	59.9	21.0	

SP4-H-2500									
Tc	30		40		50		60		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	21.7	9.0	19.0	10.3	16.4	11.1	-	-	
-20	27.7	10.3	24.3	11.7	21.1	12.8	-	-	
-15	35.1	11.4	31.1	13.0	27.2	14.4	-	-	
-10	44.1	12.3	39.2	14.1	34.6	15.9	30.1	17.7	
-5	54.6	13.1	48.8	15.1	43.3	17.2	38.0	19.5	
0	66.6	13.8	59.9	16.0	53.4	18.5	47.2	21.2	
5	80.2	14.3	72.4	16.8	64.9	19.6	57.6	22.8	
10	95.3	14.7	86.4	17.4	77.8	20.7	69.4	24.3	

Performance Parameters (SP-H, for R22)

SP4-H-3000								
Tc	30		40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	24.9	10.4	21.8	11.8	18.8	12.7	-	-
-20	31.7	11.8	27.9	13.4	24.2	14.7	-	-
-15	40.3	13.1	35.6	14.9	31.2	16.5	-	-
-10	50.6	14.1	45.0	16.2	39.6	18.2	34.5	20.3
-5	62.6	15.0	56.0	17.3	49.7	19.8	43.5	22.3
0	76.4	15.8	68.7	18.4	61.3	21.2	54.1	24.3
5	92.0	16.4	83.1	19.2	74.4	22.5	66.1	26.1
10	109.3	16.8	99.1	20.0	89.2	23.7	79.6	27.9

SP4-H-3500								
Tc	30		40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	29.8	12.4	26.1	14.1	22.5	15.2	-	-
-20	37.9	14.1	33.4	16.0	29.0	17.6	-	-
-15	48.2	15.6	42.6	17.8	37.3	19.8	-	-
-10	60.5	16.9	53.8	19.3	47.4	21.8	41.2	24.2
-5	74.8	18.0	67.0	20.7	59.4	23.6	52.0	26.7
0	91.3	18.9	82.1	22.0	73.2	25.3	64.6	29.0
5	109.9	19.6	99.3	23.0	89.0	26.9	79.0	31.2
10	130.7	20.1	118.5	23.9	106.6	28.3	95.2	33.3

SP4-H-3700								
Tc	30		40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	32.6	13.6	28.5	15.4	24.6	16.7	-	-
-20	41.5	15.4	36.5	17.5	31.7	19.3	-	-
-15	52.7	17.1	46.6	19.5	40.8	21.6	-	-
-10	66.2	18.5	58.9	21.2	51.9	23.9	45.1	26.5
-5	81.9	19.7	73.3	22.7	65.0	25.9	57.0	29.2
0	99.9	20.6	89.9	24.0	80.1	27.7	70.7	31.8
5	120.3	21.4	108.7	25.2	97.4	29.4	86.5	34.2
10	143.0	22.0	129.6	26.2	116.7	31.0	104.1	36.5

SP6-H-4000								
Tc	30		40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	37.5	15.6	32.8	17.7	28.3	19.2	-	-
-20	47.7	17.7	42.0	20.2	36.4	22.1	-	-
-15	60.6	19.6	53.6	22.4	46.9	24.9	-	-
-10	76.1	21.2	67.7	24.3	59.6	27.4	54.8	30.5
-5	94.1	22.6	84.2	26.1	74.7	29.7	65.5	33.6
0	114.9	23.7	103.3	27.6	92.1	31.9	81.3	36.5
5	138.3	24.6	124.9	28.9	111.9	33.8	99.4	39.3
10	164.4	25.3	149.0	30.1	134.1	35.6	119.7	41.9

SP6-H-5000								
Tc	30		40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	44.8	18.6	39.2	21.1	38.8	22.9	-	-
-20	57.0	21.2	50.2	24.1	43.5	26.5	-	-
-15	72.4	23.5	64.0	26.7	56.0	29.7	-	-
-10	90.9	25.4	80.9	29.1	71.2	32.8	61.9	36.4
-5	112.5	27.0	100.7	31.2	89.2	35.5	78.2	40.1
0	137.3	28.4	123.4	33.0	110.1	38.1	97.2	43.6
5	165.3	29.4	149.2	34.6	133.7	40.4	118.8	47.0
10	196.4	30.2	178.1	35.9	160.3	42.6	143.1	50.1

SP8-H-6000								
Tc	30		40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	59.8	23.3	47.6	24.9	40.3	26.0	-	-
-20	74.6	25.9	61.7	28.2	53.5	30.0	-	-
-15	91.9	28.2	78.1	31.3	68.6	33.9	-	-
-10	112.2	30.3	97.2	34.2	86.1	37.6	73.9	40.4
-5	135.8	32.1	119.3	36.8	106.3	41.0	91.9	44.8
0	163.1	33.6	144.8	39.2	129.7	44.3	112.7	49.0
5	194.5	34.8	174.1	41.3	156.5	47.3	136.6	53.0
10	230.3	35.7	207.5	43.1	187.1	50.1	164.1	56.8

SP8-H-7000								
Tc	30		40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	71.4	27.8	56.8	29.8	48.1	31.0	-	-
-20	89.0	30.9	73.7	33.7	63.8	35.8	-	-
-15	109.7	33.7	93.3	37.4	81.9	40.4	-	-
-10	133.9	36.2	116.0	40.8	102.8	44.8	88.2	48.3
-5	162.1	38.3	142.4	44.0	126.9	49.0	109.7	53.5
0	194.7	40.1	172.9	46.8	154.8	52.9	134.5	58.5
5	232.1	41.6	207.8	49.3	186.7	56.5	163.1	63.3
10	274.9	42.7	247.6	51.5	223.3	59.8	195.8	67.8

Legend

Pf = Cooling Capacity(kW)

Pa = Input Power(kW)

Te = Evaporating Temperature(°C)

Tc = Condensing Temperature(°C)

50Hz = Frequency

Liquid subcooling 5K

Suction gas superheat 10K

It requires additional cooling (Please refer to application requirement)

Refer to full-load 50Hz operation threshold

For the performance parameters under different working conditions, please refer to RefComp' s selection program LEONARDO.

Performance Parameters (SP-L, for R22)

SP2-L-0300								
Tc	30		40		50		55	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	1.5	1.7	1.5	1.5	1.3	1.5	1.0	1.5
-35	2.5	1.9	2.3	1.9	1.9	1.9	1.6	2.0
-30	3.6	2.1	3.3	2.2	2.8	2.4	2.4	2.5
-25	5.1	2.4	4.5	2.5	3.8	2.8	3.5	2.9
-20	6.7	2.6	5.9	2.9	5.1	3.2	4.7	3.4
-15	8.6	2.8	7.6	3.2	6.6	3.6	6.1	3.8
-10	10.7	3.0	9.5	3.5	8.4	4.0	7.8	4.2
-5	13.0	3.3	11.6	3.8	10.3	4.4	9.7	4.7

SP2-L-0400								
Tc	30		40		50		55	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	1.8	2.0	1.8	1.8	1.5	1.8	1.2	1.8
-35	3.0	2.3	2.8	2.2	2.3	2.3	2.0	2.4
-30	4.4	2.5	4.0	2.6	3.3	2.8	2.9	3.0
-25	6.1	2.8	5.4	3.0	4.6	3.3	4.2	3.5
-20	8.0	3.1	7.1	3.4	6.2	3.8	5.6	4.0
-15	10.3	3.4	9.1	3.8	8.0	4.3	7.4	4.6
-10	12.8	3.6	11.4	4.2	10.0	4.8	9.4	5.1
-5	15.6	3.9	13.9	4.6	12.4	5.2	11.6	5.6

SP2-L-0500								
Tc	30		40		50		55	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	2.1	2.4	2.1	2.1	1.8	2.1	1.4	2.1
-35	3.4	2.7	3.2	2.6	2.7	2.7	2.3	2.8
-30	5.1	3.0	4.6	3.1	3.9	3.3	3.4	3.4
-25	7.1	3.3	6.3	3.5	5.4	3.9	4.9	4.1
-20	9.4	3.6	8.3	4.0	7.2	4.4	6.6	4.7
-15	12.0	3.9	10.6	4.4	9.3	5.0	8.6	5.3
-10	15.0	4.2	13.3	4.9	11.7	5.5	10.9	5.9
-5	18.2	4.5	16.3	5.3	14.4	6.1	13.6	6.5

SP2-L-0600								
Tc	30		40		50		55	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	2.4	2.7	2.4	2.4	2.0	2.4	1.6	2.4
-35	3.9	3.0	3.7	2.9	3.1	3.0	2.6	3.2
-30	5.8	3.4	5.3	3.5	4.4	3.7	3.9	3.9
-25	8.1	3.7	7.2	4.0	6.2	4.4	5.6	4.6
-20	10.7	4.1	9.5	4.5	8.2	5.0	7.5	5.3
-15	13.7	4.4	12.2	5.0	10.6	5.7	9.8	6.0
-10	17.1	4.8	15.2	5.5	13.4	6.3	12.5	6.7
-5	20.9	5.1	18.6	6.1	16.5	6.9	15.5	7.3

SP4-LF-0600/SP4-LN-0600								
Tc	30		40		50		55	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	3.0	3.2	3.0	2.8	2.5	2.8	2.0	2.9
-35	4.9	3.5	4.6	3.5	3.8	3.6	3.3	3.7
-30	7.3	4.0	6.6	4.1	5.6	4.4	4.9	4.6
-25	10.1	4.4	9.0	4.7	7.7	5.2	6.9	5.4
-20	13.4	4.8	11.9	5.3	10.3	5.9	9.4	6.3
-15	17.1	5.2	15.2	5.9	13.2	6.7	12.3	7.1
-10	21.4	5.6	19.0	6.5	16.7	7.4	15.6	7.9
-5	26.1	6.1	23.2	7.1	20.6	8.4	19.4	8.6

SP4-LF-0800/SP4-LN-0800								
Tc	30		40		50		55	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	3.6	3.8	3.6	3.4	3.0	3.3	2.4	3.4
-35	5.9	4.3	5.5	4.2	4.6	4.3	3.9	4.5
-30	8.8	4.7	7.9	4.9	6.7	5.3	5.9	5.5
-25	12.1	5.2	10.8	5.6	9.2	6.2	8.3	6.5
-20	16.1	5.7	14.3	6.4	12.3	7.1	11.3	7.5
-15	20.6	6.2	18.3	7.1	15.9	8.0	14.7	8.5
-10	25.6	6.8	22.8	7.8	20.1	8.9	18.7	9.4
-5	31.3	7.3	27.9	8.6	24.7	9.8	23.2	10.4

SP4-LF-1000/SP4-LN-1000								
Tc	30		40		50		55	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	4.2	4.4	4.2	4.0	3.5	3.9	2.9	4.0
-35	6.9	5.0	6.4	4.8	5.4	5.0	4.6	5.2
-30	10.2	5.5	9.2	5.7	7.8	6.1	6.9	6.4
-25	14.2	6.1	12.6	6.6	10.8	7.2	9.7	7.6
-20	18.8	6.7	16.6	7.4	14.4	8.3	13.2	8.8
-15	24.0	7.3	21.3	8.3	18.6	9.4	17.2	9.9
-10	29.9	7.9	26.6	9.1	23.4	10.4	21.8	11.0
-5	36.5	8.5	32.5	10.0	28.8	11.4	27.1	12.1

SP4-LF-1200/SP4-LN-1200								
Tc	30		40		50		55	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	4.8	5.1	4.8	4.6	4.0	4.5	3.3	4.6
-35	7.9	5.7	7.4	5.5	6.1	5.7	5.2	6.0
-30	11.7	6.3	10.6	6.5	8.9	7.0	7.8	7.3
-25	16.2	7.0	14.4	7.5	12.3	8.2	11.1	8.7
-20	21.4	7.6	19.0	8.5	16.4	9.5	15.0	10.0
-15	27.4	8.3	24.3	9.5	21.2	10.7	19.7	11.3
-10	34.2	9.0	30.4	10.4	26.7	11.9	25.0	12.6
-5	41.7	9.7	37.2	11.4	33.0	13.0	31.0	13.8

SP4-L-1500								
Tc	30		40		50		55	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	6.9	4.7	5.8	4.9	4.8	4.9	4.5	4.8
-35	9.7	5.7	8.2	6.0	7.0	6.4	6.5	6.4
-30	13.2	6.6	11.3	7.3	9.7	7.9	9.0	8.1
-25	17.5	7.6	15.1	8.5	13.1	9.4	12.2	9.8
-20	22.7	8.6	19.8	9.8	17.4	10.9	16.3	11.5
-15	29.1	9.6	25.6	11.0	22.7	12.5	21.4	13.1
-10	36.8	10.6	32.7	12.2	29.2	14.0	27.7	14.8
-5	45.9	11.5	41.1	13.4	37.1	15.5	35.4	16.4

SP4-L-1800								
Tc	30		40		50		55	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	8.0	5.5	6.7	5.6	5.6	5.7	5.2	5.6
-35	11.3	6.6	9.5	7.0	8.1	7.4	7.5	7.5
-30	15.3	7.7	13.1	8.4	11.2	9.1	10.4	9.4
-25	20.3	8.9	17.5	9.9	15.2	10.9	14.2	11.3
-20	26.4	10.0	23.0	11.3	20.1	12.7	18.9	13.3
-15	33.8	11.2	29.7	12.8	26.3	14.5	24.9	15.2
-10	42.7	12.3	37.9	14.2	33.9	16.2	32.2	17.2
-5	53.2	13.3	47.7	15.6	43.0	17.9	41.0	19.1

Performance Parameters (SP-L, for R22)

SP4-L-2200									
Tc	30		40		50		55		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-40	9.2	6.3	7.7	6.5	6.4	6.5	5.9	6.4	
-35	13.0	7.5	10.9	8.0	9.3	8.5	8.6	8.6	
-30	17.6	8.8	15.0	9.7	12.8	10.5	12.0	10.8	
-25	23.3	10.2	20.0	11.3	17.4	12.5	16.3	13.0	
-20	30.3	11.5	26.3	13.0	23.1	14.6	21.7	15.2	
-15	38.7	12.8	34.1	14.7	30.2	16.6	28.5	17.5	
-10	48.9	14.1	43.5	16.3	38.9	18.6	36.9	19.7	
-5	61.0	15.3	54.7	17.8	49.3	20.6	47.0	21.9	

SP4-L-2500									
Tc	30		40		50		55		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-40	11.0	7.5	9.2	7.7	7.7	7.8	7.1	7.7	
-35	15.5	9.0	13.1	9.6	11.1	10.1	10.3	10.2	
-30	21.0	10.6	17.9	11.6	15.3	12.5	14.3	12.9	
-25	27.8	12.2	24.0	13.5	20.8	15.0	19.4	15.5	
-20	36.2	13.7	31.5	15.5	27.6	17.4	26.0	18.2	
-15	46.3	15.3	40.7	17.5	36.1	19.8	34.1	20.9	
-10	58.5	16.8	52.0	19.5	46.5	22.2	44.1	23.6	
-5	73.0	18.3	65.4	21.3	59.0	24.6	56.2	26.1	

SP6-L-2400									
Tc	30		40		50		55		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-40	12.1	8.3	10.1	8.5	8.4	8.6	7.8	8.4	
-35	17.0	9.9	14.3	10.5	12.1	11.1	11.2	11.2	
-30	23.0	11.6	19.6	12.6	16.8	13.7	15.6	14.1	
-25	30.4	13.3	26.2	14.8	22.7	16.4	21.3	17.0	
-20	39.6	15.0	34.5	17.0	30.2	19.1	28.4	19.9	
-15	50.7	16.8	44.6	19.2	39.5	21.7	37.3	22.9	
-10	64.0	18.4	56.9	21.3	50.8	24.3	48.3	25.8	
-5	79.8	20.0	71.6	23.3	64.6	26.9	61.5	28.6	

SP6-L-3000									
Tc	30		40		50		55		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-40	13.9	9.5	11.6	9.7	9.7	9.8	8.9	9.7	
-35	19.5	11.3	16.4	12.1	13.9	12.7	12.9	12.9	
-30	26.4	13.3	22.5	14.5	19.3	15.7	18.0	16.2	
-25	35.0	15.3	30.1	17.0	26.1	18.8	24.5	19.5	
-20	45.5	17.3	39.6	19.6	34.7	21.9	32.7	22.9	
-15	58.2	19.3	51.3	22.1	45.4	25.0	42.9	26.3	
-10	73.6	21.2	65.4	24.5	58.4	28.0	55.5	29.6	
-5	91.8	23.0	82.3	26.8	74.2	30.9	70.7	32.9	

SP6-L-4000									
Tc	30		40		50		55		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-40	16.6	11.3	13.8	11.6	11.6	11.8	10.7	11.6	
-35	23.3	13.6	19.6	14.4	16.6	15.2	15.4	15.4	
-30	31.6	15.9	26.9	17.4	23.1	18.8	21.5	19.3	
-25	41.8	18.3	36.0	20.4	31.2	22.5	29.2	23.3	
-20	54.4	20.7	47.3	23.4	41.5	26.2	39.0	27.4	
-15	69.6	23.0	61.2	26.4	54.2	29.8	51.3	31.4	
-10	87.9	25.3	78.1	29.3	69.8	33.4	66.3	35.4	
-5	109.7	27.5	98.3	32.1	88.7	36.9	84.5	39.3	

SP6-L-5000									
Tc	30		40		50		55		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-40	-	-	-	-	-	-	-	-	
-35	36.2	17.4	24.7	17.7	-	-	-	-	
-30	47.0	20.1	35.2	21.3	-	-	-	-	
-25	59.6	22.9	47.4	24.8	40.0	26.0	-	-	
-20	74.3	25.6	61.4	28.4	53.0	30.4	-	-	
-15	91.6	28.2	77.8	31.7	68.1	34.7	63.3	35.4	
-10	111.7	30.4	96.7	34.8	85.5	38.7	79.9	39.9	
-5	135.0	32.3	118.7	37.5	105.7	42.3	99.0	44.1	

SP8-L-6000									
Tc	30		40		50		55		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-40	-	-	-	-	-	-	-	-	
-35	43.6	20.7	29.4	21.2	-	-	-	-	
-30	56.1	24.0	42.0	25.4	-	-	-	-	
-25	71.1	27.4	56.5	29.7	47.8	31.0	-	-	
-20	88.7	30.6	73.3	33.9	63.3	36.3	-	-	
-15	109.3	33.6	92.8	37.9	81.3	41.4	75.6	42.2	
-10	133.3	36.3	115.5	41.6	102.1	46.2	95.3	47.6	
-5	161.2	38.5	141.7	44.8	126.2	50.5	118.2	52.6	

Legend

Pf = Cooling Capacity(kW)

Pa = Input Power(kW)

Te = Evaporating Temperature(°C)

Tc = Condensing Temperature(°C)

50Hz = Frequency

Liquid subcooling 5K

Suction gas superheat 10K

It requires additional cooling (Please refer to application requirement)

Refer to full-load 50Hz operation threshold

For the performance parameters under different working conditions, please refer to RefComp' s selection program LEONARDO.

Performance Parameters (SP-H, for R407C)

SP2-H-050E									
Tc	30		40		50		58		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	4.3	1.8	3.4	1.9	2.8	1.9	-	-	
-20	5.7	2.2	4.6	2.3	3.7	2.4	-	-	
-15	7.5	2.5	6.2	2.7	5.1	2.9	-	-	
-10	9.6	2.8	8.2	3.1	6.8	3.3	-	-	
-5	12.2	3.3	10.6	3.6	8.9	3.7	7.6	3.9	
0	15.3	3.1	13.3	3.6	11.4	4.0	9.8	4.4	
5	18.7	3.2	16.5	3.8	14.2	4.4	12.3	4.8	
10	22.5	3.3	20.1	4.0	17.5	4.7	15.3	5.1	

SP2-H-060E									
Tc	30		40		50		58		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	5.2	2.2	4.1	2.3	3.4	2.3	-	-	
-20	6.8	2.6	5.5	2.8	4.5	2.9	-	-	
-15	6.9	3.0	7.4	3.3	6.4	3.4	-	-	
-10	11.6	3.3	9.8	3.7	8.2	3.9	-	-	
-5	14.7	3.5	12.7	4.0	10.7	4.4	9.1	4.7	
0	18.3	3.7	16.0	4.3	13.7	4.8	11.7	5.2	
5	22.4	3.9	19.8	4.6	17.1	5.2	14.8	5.7	
10	27.0	3.9	24.1	4.8	21.0	5.5	18.3	6.1	

SP2-H-050E									
Tc	30		40		50		58		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	6.0	2.5	4.7	2.6	3.9	2.6	-	-	
-20	7.9	3.0	6.4	3.2	5.2	3.3	-	-	
-15	10.4	3.5	8.6	3.8	7.1	4.0	-	-	
-10	13.5	3.8	11.4	4.2	9.5	4.6	-	-	
-5	17.1	4.1	14.8	4.7	12.4	5.1	10.6	5.4	
0	21.4	4.3	18.7	5.0	15.9	5.6	13.7	6.0	
5	26.2	4.5	23.1	5.3	19.9	6.0	17.3	6.6	
10	31.5	4.6	28.2	5.6	24.5	6.4	21.4	7.1	

SP2-H-090E									
Tc	30		40		50		58		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	6.9	2.9	5.4	3.0	4.5	3.0	-	-	
-20	9.1	3.5	7.3	3.7	6.0	3.8	-	-	
-15	11.9	3.9	9.9	4.3	8.1	4.5	-	-	
-10	15.4	4.4	13.1	4.8	10.9	5.2	-	-	
-5	19.6	4.7	16.9	5.3	14.2	5.8	12.1	6.2	
0	24.4	4.9	21.4	5.7	18.2	6.4	15.6	6.9	
5	29.9	5.1	26.5	6.0	22.8	6.9	19.7	7.5	
10	36.0	5.2	32.2	6.3	28.0	7.3	24.4	8.1	

SP4-HF-100E/SP4-HN-100E									
Tc	30		40		50		58		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	8.6	3.6	6.8	3.7	5.6	3.8	-	-	
-20	11.4	4.3	9.2	4.6	7.5	4.8	-	-	
-15	14.9	4.9	12.4	5.4	10.2	5.7	-	-	
-10	19.3	5.4	16.3	6.0	13.6	6.5	-	-	
-5	24.5	5.8	21.1	6.6	17.8	7.3	15.2	7.7	
0	30.5	6.2	26.7	7.1	22.8	7.9	19.5	8.6	
5	37.4	6.4	33.1	7.5	28.5	8.6	24.7	9.4	
10	45.0	6.5	40.2	7.9	35.0	9.2	30.5	10.1	

SP4-HF-120E/SP4-HN-120E									
Tc	30		40		50		58		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	10.3	4.3	8.1	4.5	6.7	4.5	-	-	
-20	13.6	5.2	11.0	5.5	9.0	5.7	-	-	
-15	17.9	5.9	14.8	6.4	12.2	6.8	-	-	
-10	23.1	6.5	19.6	7.2	16.3	7.8	-	-	
-5	29.4	7.0	25.3	7.9	21.3	8.7	18.2	9.3	
0	36.6	7.4	32.0	8.5	27.3	9.5	23.4	10.3	
5	44.8	7.6	39.7	9.0	34.2	10.3	29.6	11.2	
10	54.1	7.8	48.3	9.5	42.0	11.0	36.7	12.2	

SP4-HF-150E/SP4-HN-150E									
Tc	30		40		50		58		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	12.1	5.0	9.5	5.2	7.8	5.3	-	-	
-20	15.9	6.0	12.9	6.4	10.5	6.7	-	-	
-15	20.9	6.9	17.3	7.5	14.2	7.9	-	-	
-10	27.0	7.6	22.9	8.4	19.0	9.1	-	-	
-5	34.3	8.2	29.6	9.3	24.9	10.2	21.2	10.8	
0	42.7	8.6	37.4	9.9	31.9	11.1	27.3	12.0	
5	52.3	8.9	46.3	10.5	39.9	12.0	34.5	13.1	
10	63.1	9.1	56.3	11.0	49.0	12.8	42.8	14.2	

SP4-HF-200E/SP4-HN-200E									
Tc	30		40		50		58		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	13.8	5.7	10.9	6.0	9.0	6.0	-	-	
-20	18.2	6.9	14.7	7.4	12.0	7.6	-	-	
-15	23.9	7.9	19.8	8.6	16.3	9.1	-	-	
-10	30.9	8.7	26.2	9.6	21.7	10.4	-	-	
-5	39.2	9.3	33.8	10.6	28.5	11.6	24.2	12.4	
0	48.8	9.8	42.7	11.4	36.4	12.7	31.3	13.7	
5	59.8	10.2	52.9	12.0	45.6	13.7	39.5	15.0	
10	72.1	10.4	64.4	12.6	56.0	14.7	48.9	16.2	

SP4-H-220E									
Tc	30		40		50		58		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	15.9	7.2	12.5	8.2	10.3	9.0	-	-	
-20	21.0	8.1	17.0	9.4	13.9	10.4	-	-	
-15	27.6	9.0	22.9	10.4	18.8	11.8	-	-	
-10	35.7	9.7	30.2	11.4	25.1	13.0	-	-	
-5	45.3	10.3	39.0	12.2	32.9	14.2	28.0	15.9	
0	56.4	10.9	49.3	13.0	42.1	15.3	36.1	17.2	
5	69.1	11.3	61.1	13.6	52.7	16.2	45.6	18.5	
10	83.3	11.6	74.4	14.1	64.7	17.0	56.5	19.7	

SP4-H-250E									
Tc	30		40		50		58		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	18.5	8.4	14.6	9.5	12.0	10.4	-	-	
-20	24.3	9.4	19.7	10.9	16.1	12.1	-	-	
-15	32.0	10.4	26.5	12.1	21.8	13.7	-	-	
-10	41.4	11.3	35.0	13.2	29.1	15.1	-	-	
-5	52.5	12.0	45.3	14.2	38.1	16.5	32.5	18.4	
0	65.4	12.6	57.2	15.0	48.8	17.7	41.9	20.0	
5	80.1	13.1	70.9	15.8	61.1	18.8	52.9	21.4	
10	96.6	13.5	86.3	16.4	75.1	19.8	65.5	22.8	

Performance Parameters (SP-H, for R407C)

SP4-H-300E									
Tc	30			40		50		58	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	21.2	9.6	16.7	10.9	13.8	6.5	-	-	
-20	27.9	10.8	22.6	12.5	18.4	8.5	-	-	
-15	36.7	11.9	30.4	13.9	25.0	10.5	-	-	
-10	47.4	12.9	40.2	15.1	33.4	12.5	-	-	
-5	60.2	13.8	51.9	16.2	43.7	14.6	37.3	21.1	
0	75.0	14.5	65.6	17.2	55.9	16.6	48.0	22.9	
5	91.9	15.0	81.3	18.1	70.1	18.6	60.6	24.6	
10	110.7	15.4	98.9	18.8	86.1	20.6	75.1	26.1	

SP4-H-300E									
Tc	30			40		50		58	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	25.3	11.4	20.0	13.1	16.5	14.3	-	-	
-20	33.4	12.9	27.0	14.9	22.0	16.6	-	-	
-15	43.8	14.3	36.3	16.6	29.9	18.7	-	-	
-10	56.7	15.5	48.0	18.1	39.9	20.7	-	-	
-5	72.0	16.5	62.1	19.4	52.3	22.6	44.5	25.2	
0	89.7	17.3	78.4	20.6	66.9	24.3	57.4	27.4	
5	109.8	17.9	97.2	21.6	83.8	25.8	72.5	29.4	
10	132.4	18.4	118.3	22.5	102.9	27.1	89.8	31.3	

SP4-H-370E									
Tc	30			40		50		58	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	27.7	12.5	21.8	14.3	18.0	15.6	-	-	
-20	36.5	14.2	29.5	16.3	24.1	18.2	-	-	
-15	48.0	15.6	39.8	18.1	32.7	20.5	-	-	
-10	62.0	16.9	52.6	19.8	43.7	22.7	-	-	
-5	78.8	18.0	67.9	21.3	57.2	24.7	48.7	27.6	
0	98.1	18.9	85.8	22.5	73.2	26.5	62.8	30.0	
5	120.2	19.6	106.3	23.7	91.7	28.2	79.3	32.2	
10	144.9	20.2	129.4	24.6	112.6	29.7	98.3	34.2	

SP6-H-400E									
Tc	30			40		50		58	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	31.9	14.4	26.1	16.4	20.7	17.9	-	-	
-20	42.1	16.3	33.9	18.7	27.7	20.9	-	-	
-15	55.1	18.0	45.7	20.8	37.5	23.6	-	-	
-10	71.3	19.4	60.4	22.7	50.2	26.1	-	-	
-5	90.5	20.7	78.1	24.4	65.8	28.4	56.0	31.7	
0	112.8	21.7	98.7	25.9	84.1	30.5	72.2	34.4	
5	138.1	22.6	122.2	27.2	105.4	32.4	94.2	37.0	
10	166.5	23.2	148.8	28.2	129.4	34.1	112.9	39.3	

SP4-H-500E									
Tc	30			40		50		58	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	38.1	17.2	30.0	19.6	24.7	21.4	-	-	
-20	50.2	19.5	40.6	22.4	33.1	24.9	-	-	
-15	65.9	21.5	54.6	24.9	44.9	28.2	-	-	
-10	85.2	23.2	72.2	27.2	60.0	31.2	-	-	
-5	108.2	24.7	93.3	29.2	78.6	33.9	67.0	37.9	
0	134.8	26.0	117.9	31.0	100.5	36.5	86.3	41.2	
5	165.1	27.0	146.1	32.5	125.9	38.7	109.0	44.2	
10	199.0	27.7	177.8	33.8	154.7	40.7	135.0	47.0	

SP4-H-600E									
Tc	30			40		50		58	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	46.7	20.3	41.5	21.5	33.0	21.8	-	-	
-20	62.6	23.4	55.7	25.2	45.9	26.2	-	-	
-15	81.1	26.1	72.3	28.6	60.7	30.4	-	-	
-10	102.7	28.5	91.6	31.8	77.9	34.4	-	-	
-5	127.9	30.6	114.1	34.7	98.2	38.2	85.0	40.6	
0	157.1	32.3	140.5	37.3	121.9	41.9	106.8	45.1	
5	191.0	33.7	171.2	39.7	149.6	45.4	132.3	49.5	
10	230.0	34.7	206.6	41.9	181.8	48.6	162.1	53.8	

SP8-H-700E									
Tc	30			40		50		58	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	55.7	24.2	49.5	25.6	39.4	26.0	-	-	
-20	74.7	27.9	66.5	30.0	54.7	31.3	-	-	
-15	96.8	31.2	86.3	34.1	72.4	36.3	-	-	
-10	122.6	34.1	109.3	37.9	93.0	41.1	-	-	
-5	152.6	36.5	136.2	41.4	117.2	45.7	101.5	48.5	
0	187.5	38.6	167.7	44.6	145.5	50.0	127.5	53.9	
5	228.0	40.2	204.3	47.4	178.6	54.1	157.9	59.1	
10	274.5	41.4	246.7	50.0	217.0	58.1	193.5	64.2	

Legend

Pf = Cooling Capacity(kW)

Pa = Input Power(kW)

Te = Evaporating Temperature(°C)

Tc = Condensing Temperature(°C)

50Hz = Frequency

Liquid subcooling 5K

Suction gas superheat 10K

It requires additional cooling (Please refer to application requirement)

Refer to full-load 50Hz operation threshold

For the performance parameters under different working conditions, please refer to RefComp' s selection program LEONARDO.

Performance Parameters (SP-L, for R407C)

SP2-L-030E									
Tc	30			40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	4.3	1.7	3.4	1.8	2.8	1.8	-	-	
-20	5.7	2.1	4.6	2.2	3.7	2.3	3.5	2.3	
-15	7.5	2.4	6.2	2.6	5.1	2.7	4.7	2.8	
-10	9.6	2.6	8.2	2.9	6.8	3.1	6.3	3.2	
-5	12.2	2.8	10.6	3.2	6.9	3.5	8.2	3.6	

SP2-L-040E									
Tc	30			40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	5.2	2.0	4.1	2.1	3.4	2.1	-	-	
-20	6.8	2.5	5.5	2.6	4.5	2.7	4.2	2.7	
-15	8.9	2.8	7.4	3.1	6.1	3.2	5.6	3.3	
-10	11.6	3.1	9.8	3.4	8.2	3.7	7.5	3.8	
-5	14.7	3.3	12.7	3.8	10.7	4.1	9.9	4.3	

SP2-L-050E									
Tc	30			40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	6.0	2.4	4.7	2.5	3.9	2.5	-	-	
-20	7.9	2.9	6.4	3.0	5.2	3.1	4.9	3.2	
-15	10.4	3.3	8.6	3.5	7.1	3.8	6.5	3.8	
-10	13.5	3.6	11.4	4.0	9.5	4.3	8.8	4.4	
-5	17.1	3.9	14.8	4.4	12.4	4.8	11.5	5.0	

SP2-L-060E									
Tc	30			40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	6.9	2.7	5.4	2.8	4.5	2.8	-	-	
-20	9.1	3.2	7.3	3.5	6.0	3.6	5.5	3.6	
-15	11.9	3.7	9.9	4.0	8.1	4.3	7.5	4.3	
-10	15.4	4.1	13.1	4.5	10.9	4.9	10.0	5.0	
-5	19.6	4.4	16.9	5.0	14.2	5.5	13.2	5.6	

SP4-LF-060E/SP4-LN-060E									
Tc	30			40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	8.6	3.9	6.8	2.5	3.9	2.5	-	-	
-20	11.4	4.4	9.2	3.0	5.2	3.1	4.9	3.2	
-15	14.9	4.9	12.4	3.5	7.1	3.8	6.5	3.8	
-10	19.3	5.3	16.3	4.0	9.5	4.3	8.8	4.4	
-5	24.5	5.6	21.1	4.4	12.4	4.8	11.5	5.0	

SP4-LF-080E/SP4-LN-080E									
Tc	30			40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	6.9	2.7	5.4	2.8	4.5	2.8	-	-	
-20	9.1	3.2	7.3	3.5	6.0	3.6	5.5	3.6	
-15	11.9	3.7	9.9	4.0	8.1	4.3	7.5	4.3	
-10	15.4	4.1	13.1	4.5	10.9	4.9	10.0	5.0	
-5	19.6	4.4	16.9	5.0	14.2	5.5	13.2	5.6	

SP4-LF-100E/SP4-LN-100E									
Tc	30			40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	8.6	3.9	6.8	4.4	5.6	4.9	-	-	
-20	11.4	4.4	9.2	5.1	7.5	5.6	7.0	5.8	
-15	14.9	4.9	12.4	5.6	10.2	6.4	9.4	6.7	
-10	19.3	5.3	16.3	6.2	13.6	7.1	12.5	7.4	
-5	24.5	5.6	21.1	6.6	17.8	7.7	16.5	8.1	

SP4-LF-120E/SP4-LN-120E									
Tc	30			40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	10.3	4.7	8.1	5.3	6.7	5.8	-	-	
-20	13.6	5.3	11.0	6.1	9.0	6.8	8.4	7.0	
-15	17.9	5.8	14.8	6.8	12.2	7.7	11.2	8.0	
-10	23.1	6.3	19.6	7.4	16.3	8.5	15.0	8.9	
-5	29.4	6.7	25.3	7.9	21.3	9.2	19.8	9.7	

SP4-L-150E									
Tc	30			40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	15.9	7.2	12.5	8.2	10.3	9.0	-	-	
-20	21.0	8.1	17.0	9.4	13.9	10.4	12.9	10.8	
-15	27.6	9.0	22.9	10.4	18.8	11.8	17.3	12.3	
-10	35.7	9.7	30.2	11.4	25.1	13.0	23.2	13.7	
-5	45.3	10.3	39.0	12.2	32.9	14.2	30.4	15.0	

SP4-L-180E									
Tc	30			40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	18.5	8.4	14.6	9.5	12.0	10.4	-	-	
-20	24.3	9.4	19.7	10.9	16.1	12.1	14.9	12.5	
-15	32.0	10.4	26.5	12.1	21.8	13.7	20.1	14.3	
-10	41.4	11.3	35.0	13.2	29.1	15.1	26.9	15.9	
-5	52.5	12.0	45.3	14.2	38.1	16.5	35.3	17.4	

Performance Parameters (SP-L, for R407C)

SP4-L-220E								
Tc	30		40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	21.2	9.6	16.7	10.9	13.8	11.9	-	-
-20	27.9	10.8	22.6	12.5	18.4	13.9	16.8	14.5
-15	36.7	11.9	30.4	13.9	25.0	15.7	22.6	16.5
-10	47.4	12.9	40.2	15.1	33.4	17.4	30.2	18.5
-5	60.2	13.8	51.9	16.2	43.7	18.9	39.7	20.3

SP4-L-250E								
Tc	30		40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	25.5	11.5	20.1	13.2	16.6	14.4	-	-
-20	33.6	13.0	27.2	15.0	22.2	16.7	20.6	17.3
-15	44.1	14.4	36.6	16.7	30.0	18.9	27.7	19.7
-10	57.1	15.5	48.3	18.2	40.2	20.9	37.1	21.9
-5	72.4	16.6	62.5	19.5	52.6	22.7	48.7	24.0

SP6-L-270E								
Tc	30		40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	27.7	12.5	21.8	14.3	18.0	15.6	-	-
-20	36.5	14.2	29.5	16.3	24.1	18.2	22.4	18.8
-15	48.0	15.6	39.8	18.1	32.7	20.5	30.1	21.4
-10	62.0	16.9	52.6	19.8	43.7	22.7	40.3	23.9
-5	78.8	18.0	67.9	21.3	57.2	24.7	53.0	26.1

SP6-L-300E								
Tc	30		40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	31.9	14.4	25.1	16.4	20.7	17.9	-	-
-20	42.0	16.3	33.9	18.7	27.7	20.9	25.7	21.6
-15	55.1	18.0	45.7	20.8	37.5	23.6	34.6	24.6
-10	71.3	19.4	60.4	22.7	50.2	26.1	46.4	27.4
-5	90.5	20.7	78.1	24.4	65.8	28.4	60.9	30.0

SP6-L-400E								
Tc	30		40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	38.2	17.3	30.1	19.7	24.8	21.5	-	-
-20	50.4	19.5	40.7	22.5	33.2	25.0	30.9	25.9
-15	66.2	21.6	54.9	25.0	45.1	28.3	41.6	29.5
-10	85.6	23.3	72.5	27.3	60.3	31.3	55.6	32.9
-5	108.6	24.8	93.7	29.3	78.9	34.1	73.0	36.0

SP8-L-500E								
Tc	30		40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	46.7	20.3	41.5	21.5	33.0	21.8	-	-
-20	62.6	23.4	55.7	25.2	45.9	26.2	41.5	26.4
-15	81.1	26.1	72.3	28.6	60.7	30.4	55.7	30.9
-10	102.7	28.5	91.6	31.8	77.9	34.4	72.2	35.3
-5	127.9	30.6	114.1	34.7	98.2	38.2	91.6	39.5

SP8-L-600E								
Tc	30		40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	55.7	24.2	49.5	25.6	39.4	26.0	-	-
-20	74.7	27.9	66.5	30.0	54.7	31.3	49.5	31.5
-15	96.8	31.2	86.3	34.1	72.4	36.3	66.4	36.9
-10	122.6	34.1	109.3	37.9	93.0	41.1	86.2	42.1
-5	152.6	36.5	136.2	41.4	117.2	45.7	109.3	47.1

Legend

Pf = Cooling Capacity(kW)

Pa = Input Power(kW)

Te = Evaporating Temperature(°C)

Tc = Condensing Temperature(°C)

50Hz = Frequency

Liquid subcooling 5K

Suction gas superheat 10K

It requires additional cooling (Please refer to application requirement)

Refer to full-load 50Hz operation threshold

For the performance parameters under different working conditions, please refer to RefComp' s selection program LEONARDO.

Performance Parameters (SP-H, for R134a)

SP2-H-050E								
Tc	40		50		60		70	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-20	3.2	1.7	2.5	1.8	1.8	1.8	1.3	1.8
-15	4.2	2.0	3.4	1.0	2.6	2.1	2.0	2.1
-10	5.5	2.2	4.6	2.3	3.7	2.4	2.9	2.5
-5	7.1	2.4	6.0	2.6	5.0	2.8	4.1	2.9
0	9.0	2.7	7.7	2.9	6.5	3.1	5.5	3.3
5	11.1	2.9	9.7	3.2	8.3	3.5	7.1	3.7
10	13.4	3.2	11.8	3.5	10.2	3.9	8.8	4.1
15	16.0	3.4	14.1	3.9	12.3	4.3	10.8	4.6

SP2-H-050E								
Tc	40		50		60		70	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-20	3.8	2.0	3.0	2.1	2.2	2.1	1.6	2.1
-15	5.0	2.3	4.1	2.4	3.1	2.5	2.4	2.5
-10	6.6	2.6	5.5	2.8	4.4	2.9	3.5	3.0
-5	8.6	2.9	7.2	3.1	6.0	3.3	4.9	3.4
0	10.8	3.2	9.3	3.5	7.8	3.7	6.6	3.9
5	13.3	3.5	11.6	3.9	9.9	4.2	8.5	4.4
10	16.1	3.8	14.2	4.2	12.3	4.6	10.6	4.9
15	19.2	4.1	17.0	4.6	14.8	5.1	12.9	5.5

SP2-H-080E								
Tc	40		50		60		70	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-20	4.4	2.4	3.5	2.4	2.5	2.5	1.8	2.5
-15	5.9	2.7	4.7	2.8	3.6	2.9	2.8	2.9
-10	7.7	3.0	6.4	3.2	5.1	3.4	4.1	3.4
-5	10.0	3.4	8.4	3.6	7.0	3.8	5.7	4.0
0	12.6	3.7	10.8	4.0	9.1	4.3	7.7	4.5
5	15.5	4.0	13.5	4.5	11.6	4.8	9.9	5.1
10	18.8	4.4	16.5	4.9	14.3	5.4	12.4	5.7
15	22.4	4.7	19.8	5.4	17.3	5.9	15.1	6.4

SP2-H-090E								
Tc	40		50		60		70	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-20	5.0	2.7	4.0	2.8	2.9	2.8	2.1	2.8
-15	6.7	3.1	5.4	3.2	4.2	3.3	3.2	3.3
-10	8.8	3.4	7.3	3.7	5.9	3.8	4.7	3.9
-5	11.4	3.8	9.7	4.1	8.0	4.3	6.6	4.5
0	14.4	4.2	12.4	4.6	10.4	4.9	8.8	5.1
5	17.8	4.6	15.5	5.1	13.2	5.5	11.3	5.8
10	21.5	5.0	18.9	5.6	16.3	6.1	14.1	6.5
15	25.6	5.4	22.6	6.1	19.8	6.7	17.2	7.2

SP4-HF-100E/SP4-HN-100E								
Tc	40		50		60		70	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-20	6.3	2.9	4.9	3.0	3.6	3.1	2.6	3.0
-15	8.4	3.4	6.8	3.5	5.2	3.6	4.0	3.6
-10	11.0	3.8	9.1	4.0	7.3	4.2	5.9	4.3
-5	14.3	4.2	12.1	4.5	9.9	4.8	8.2	4.9
0	18.0	4.6	15.5	5.5	13.0	5.4	10.9	5.6
5	22.2	5.0	19.3	5.6	16.5	6.0	14.1	6.3
10	26.9	5.4	23.6	6.1	20.4	6.7	17.6	7.1
15	32.0	5.9	28.3	6.7	24.7	7.3	21.5	7.9

SP4-HF-120E/SP4-HN-120E								
Tc	40		50		60		70	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-20	7.6	3.5	5.9	3.6	4.4	3.7	3.2	3.7
-15	10.1	4.0	8.1	4.2	6.3	4.3	4.8	4.4
-10	13.2	4.5	11.0	4.8	8.8	5.0	7.0	5.1
-5	17.1	5.0	14.5	5.4	11.9	5.7	9.8	5.9
0	21.6	5.5	18.6	6.0	15.6	6.4	13.2	6.7
5	26.6	6.0	23.2	6.7	19.8	7.2	17.0	7.6
10	32.2	6.5	28.3	7.3	24.5	8.0	21.2	8.5
15	38.4	7.0	33.9	8.0	29.6	8.8	25.8	9.5

SP4-HF-150E/SP4-HN-150E								
Tc	40		50		60		70	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-20	8.8	4.1	6.9	4.2	5.1	4.3	3.7	4.3
-15	11.7	4.7	9.5	4.9	7.3	5.0	5.6	5.1
-10	15.5	5.3	12.8	5.6	10.3	5.8	8.2	6.0
-5	20.0	5.9	16.9	6.3	13.9	6.7	11.5	6.9
0	25.2	6.4	21.6	7.0	18.2	7.5	15.3	7.9
5	31.1	7.0	27.0	7.8	23.1	8.4	19.8	8.9
10	37.6	7.6	33.0	8.6	28.6	9.3	24.7	10.0
15	44.7	8.2	39.6	9.3	34.6	10.3	30.1	11.1

SP4-HF-200E/SP4-HN-200E								
Tc	40		50		60		70	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-20	10.1	4.7	7.9	4.8	5.8	4.9	4.2	4.9
-15	13.4	5.4	10.8	5.6	8.3	5.8	6.4	5.8
-10	17.7	6.0	14.6	6.4	11.7	6.7	9.4	6.8
-5	22.8	6.7	19.3	7.2	15.9	7.6	13.1	7.9
0	28.8	7.4	24.7	8.1	20.8	8.6	17.5	9.0
5	35.5	8.0	30.9	8.9	26.5	9.6	22.6	10.2
10	43.0	8.7	37.8	9.8	32.7	10.7	28.3	11.4
15	51.1	9.4	45.2	10.7	39.5	11.8	34.4	12.7

SP4-H-220E								
Tc	40		50		60		70	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-20	11.7	5.6	10.0	5.7	8.4	5.8	6.9	5.7
-15	15.7	6.3	13.4	6.6	11.3	6.8	9.3	6.9
-10	20.7	7.1	17.8	7.6	15.1	7.9	12.5	8.0
-5	26.6	7.9	23.1	8.5	19.7	9.0	16.5	9.3
0	33.7	8.7	29.4	9.5	25.3	10.1	21.4	10.6
5	41.7	9.5	36.6	10.5	31.7	11.3	27.1	12.0
10	50.8	10.3	44.9	11.5	39.1	12.6	33.6	13.4
15	61.0	11.1	54.1	12.6	47.4	13.9	40.9	14.9

SP4-H-250E								
Tc	40		50		60		70	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-20	13.6	6.5	11.6	6.6	9.7	6.7	8.0	6.7
-15	18.2	7.3	15.6	7.7	13.1	7.9	10.8	8.0
-10	24.0	8.3	20.6	8.8	17.5	9.1	14.5	9.3
-5	30.9	9.2	26.8	9.9	22.9	10.4	19.2	10.8
0	39.0	10.1	34.1	11.0	29.3	11.7	24.8	12.3
5	48.4	11.0	42.5	12.2	36.8	13.1	31.4	13.9
10	59.0	11.9	52.0	13.4	45.4	14.6	38.9	15.6
15	70.8	12.8	62.7	14.6	55.0	16.1	47.5	17.3

Performance Parameters (SP-H, for R134a)

SP4-H-300E								
Tc	40		50		60		70	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-20	15.6	7.4	13.3	7.6	11.1	7.7	9.2	7.6
-15	20.9	8.4	17.8	8.8	15.0	9.0	12.4	9.1
-10	27.5	9.5	23.7	10.0	20.0	10.5	16.6	10.7
-5	35.4	10.5	30.7	11.3	26.3	11.9	22.0	12.4
0	44.8	11.6	39.1	12.6	33.6	13.5	28.4	14.1
5	55.5	12.6	48.7	14.0	42.2	15.1	36.0	15.9
10	67.6	13.7	59.7	15.3	52.0	16.7	44.7	17.8
15	81.1	14.7	71.9	16.7	63.1	18.4	54.5	19.8

SP4-H-350E								
Tc	40		50		60		70	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-20	18.7	8.8	15.9	9.1	13.3	9.2	10.9	9.1
-15	25.0	10.1	21.3	10.5	18.0	10.8	14.8	10.9
-10	32.8	11.3	28.3	12.0	24.0	12.5	19.9	12.8
-5	42.4	12.6	36.7	13.5	31.4	14.3	26.3	14.8
0	53.5	13.8	46.7	15.1	40.2	16.1	34.0	16.9
5	66.3	15.1	58.2	16.7	50.5	18.0	43.0	19.0
10	80.8	16.3	71.3	18.3	62.2	20.0	53.4	21.3
15	97.0	17.6	86.0	20.0	75.4	22.0	65.1	23.7

SP6-H-370E								
Tc	40		50		60		70	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-20	20.4	9.7	17.4	9.9	14.6	10.0	12.0	10.0
-15	27.3	11.0	23.3	11.5	19.6	11.8	16.2	11.9
-10	35.9	12.4	30.9	13.1	26.2	13.7	21.8	14.0
-5	46.4	13.7	40.2	14.8	34.3	15.6	28.8	16.2
0	58.6	15.1	51.1	16.5	44.0	17.6	37.2	18.4
5	72.6	16.5	63.7	18.3	55.2	19.7	47.1	20.8
10	88.5	17.9	78.1	20.1	68.1	21.9	58.4	23.3
15	106.2	19.3	94.1	21.9	82.5	24.1	71.3	26.0

SP6-H-400E								
Tc	40		50		60		70	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-20	23.5	11.1	20.0	11.4	16.8	11.5	13.8	11.5
-15	31.4	12.7	26.8	13.2	22.6	13.6	18.6	13.7
-10	41.3	14.2	35.6	15.1	30.1	15.7	25.0	16.1
-5	53.3	15.8	46.2	17.0	39.5	17.9	33.1	18.6
0	67.3	17.4	58.8	19.0	50.6	20.3	42.8	21.2
5	83.4	19.0	73.3	21.0	63.5	22.7	54.1	24.0
10	101.7	20.6	89.7	23.1	78.2	25.1	67.2	26.8
15	122.0	22.1	108.2	25.2	94.8	27.7	81.9	29.8

SP6-H-500E								
Tc	40		50		60		70	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-20	28.1	13.3	23.9	13.6	20.0	13.8	16.5	13.7
-15	37.5	15.1	32.1	15.8	27.0	16.2	22.2	16.4
-10	49.4	17.0	42.5	18.0	36.0	18.8	29.9	19.2
-5	63.7	18.9	55.2	20.3	47.2	21.4	39.5	22.2
0	80.5	20.8	70.2	22.7	60.5	24.2	51.1	25.3
5	99.7	22.7	87.6	25.1	75.9	27.1	64.7	28.6
10	121.5	24.6	107.2	27.5	93.5	30.0	80.3	32.1
15	145.8	26.5	129.3	30.1	113.3	33.1	97.9	35.6

SP8-H-600E								
Tc	40		50		60		70	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-20	34.9	16.4	29.0	17.0	22.4	17.3	15.0	18.0
-15	45.2	18.7	38.5	19.6	31.0	20.4	22.9	21.5
-10	58.0	21.0	50.1	22.4	41.4	23.5	32.2	25.1
-5	73.6	23.2	64.0	25.1	53.9	26.8	43.3	28.9
0	92.1	25.2	80.6	27.7	68.7	30.1	56.3	32.9
5	113.9	27.1	100.2	30.3	86.0	33.3	71.5	36.8
10	139.3	28.7	122.9	32.6	106.2	36.5	89.3	40.7
15	168.4	30.0	149.1	34.8	129.5	39.5	109.8	44.6

SP6-H-500E								
Tc	40		50		60		70	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-20	41.6	19.6	34.7	20.3	26.7	20.7	17.9	21.5
-15	54.0	22.3	45.9	23.4	37.0	24.3	27.3	25.6
-10	69.3	25.1	59.8	26.7	49.5	28.1	38.5	30.0
-5	87.8	27.7	76.4	29.9	64.3	32.0	51.7	34.5
0	110.0	30.1	96.2	33.1	82.0	35.9	67.2	39.2
5	136.0	32.3	119.6	36.1	102.7	39.8	85.4	43.9
10	166.2	34.2	146.7	38.9	126.8	43.5	106.5	48.6
15	201.0	35.8	177.9	41.5	154.6	47.1	131.0	53.2

Legend

Pf = Cooling Capacity(kW)

Pa = Input Power(kW)

Te = Evaporating Temperature(°C)

Tc = Condensing Temperature(°C)

50Hz = Frequency

Liquid subcooling 5K

Suction gas superheat 10K

It requires additional cooling (Please refer to application requirement)

Refer to full-load 50Hz operation threshold

For the performance parameters under different working conditions, please refer to RefComp's selection program LEONARDO.

Performance Parameters (SP-L, for R134a)

SP2-L-030E								
Tc	30		40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	2.8	1.4	2.4	1.4	2.0	1.4	1.7	1.4
-20	3.7	1.6	3.2	1.6	2.7	1.7	2.3	1.7
-15	4.9	1.7	4.2	1.9	3.6	1.9	3.1	2.0
-10	6.4	1.9	5.6	2.1	4.8	2.2	4.1	2.3
-5	8.2	2.1	7.2	2.3	6.2	2.5	5.3	2.6
0	10.3	2.3	9.1	2.5	7.9	2.8	6.8	3.0
5	12.7	2.4	11.3	2.8	9.9	3.1	8.6	3.3
10	15.4	2.6	13.7	3.0	12.1	3.4	10.6	3.7

SP2-L-040E								
Tc	30		40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	3.3	1.6	2.9	1.7	2.4	1.7	2.1	1.7
-20	4.4	1.9	3.8	1.9	3.2	2.0	2.7	2.0
-15	5.9	2.1	5.1	2.2	4.4	2.3	3.7	2.4
-10	7.7	2.3	6.7	2.5	5.8	2.6	4.9	2.7
-5	9.9	2.5	8.6	2.8	7.5	3.0	6.4	3.1
0	12.4	2.7	10.9	3.0	9.5	3.3	8.2	3.5
5	15.3	2.9	13.5	3.3	11.9	3.7	10.3	3.9
10	18.5	3.1	16.5	3.6	14.6	4.0	12.7	4.4

SP2-L-050E								
Tc	30		40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	3.9	1.9	3.3	1.9	2.8	2.0	2.4	1.9
-20	5.2	2.2	4.4	2.3	3.8	2.3	3.2	2.3
-15	6.9	2.4	5.9	2.6	5.1	2.7	4.3	2.7
-10	9.0	2.7	7.8	2.9	6.7	3.1	5.7	3.2
-5	11.5	2.9	10.1	3.2	8.7	3.4	7.5	3.6
0	14.4	3.1	12.7	3.5	11.1	3.8	9.6	4.1
5	17.8	3.4	15.8	3.8	13.9	4.2	12.0	4.6
10	21.6	3.6	19.2	4.2	17.0	4.7	14.8	5.1

SP2-L-060E								
Tc	30		40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	4.4	2.2	3.8	2.2	3.2	2.2	2.7	2.2
-20	5.9	2.5	5.1	2.6	4.3	2.6	3.6	2.7
-15	7.8	2.7	6.8	2.9	5.8	3.0	4.9	3.1
-10	10.3	3.0	8.9	3.3	7.7	3.5	6.5	3.6
-5	13.1	3.3	11.5	3.6	10.0	3.9	8.5	4.1
0	16.5	3.6	14.6	4.0	12.7	4.4	10.9	4.7
5	20.4	3.8	18.1	4.4	15.9	4.8	13.7	5.2
10	24.7	4.1	22.0	4.7	19.4	5.3	16.9	5.8

SP4-LF-060E/SP4-LN-060E								
Tc	30		40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	5.5	2.5	4.8	2.6	4.1	2.6	3.4	2.6
-20	7.4	2.9	6.4	3.0	5.4	3.1	4.5	3.1
-15	9.8	3.2	8.5	3.4	7.3	3.6	6.1	3.7
-10	12.8	3.5	11.2	3.9	9.6	4.1	8.2	4.3
-5	16.4	3.9	14.4	4.3	12.5	4.6	10.7	4.9
0	20.6	4.2	18.2	4.7	15.9	5.1	13.7	5.5
5	25.4	4.5	22.6	5.1	19.8	5.7	17.2	6.1
10	30.9	4.8	27.5	5.6	24.3	6.2	21.2	6.8

SP4-LF-080E/SP4-LN-080E								
Tc	30		40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	6.6	3.0	5.7	3.1	4.9	3.1	4.1	3.1
-20	8.8	3.5	7.6	3.6	6.5	3.7	5.4	3.7
-15	11.8	3.9	10.2	4.1	8.7	4.3	7.3	4.4
-10	15.4	4.3	13.4	4.6	11.5	4.9	9.8	5.1
-5	19.7	4.6	17.3	5.1	15.0	5.5	12.8	5.8
0	24.8	5.0	21.9	5.6	19.1	6.2	16.4	6.6
5	30.5	5.4	27.1	6.2	23.8	6.8	20.6	7.4
10	37.0	5.7	33.0	6.7	29.1	7.5	25.4	8.2

SP4-LF-100E/SP4-LN-100E								
Tc	30		40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	7.7	3.6	6.7	3.6	5.7	3.7	4.8	3.6
-20	10.3	4.0	8.9	4.2	7.6	4.3	6.3	4.4
-15	13.7	4.5	11.9	4.8	10.2	5.0	8.6	5.1
-10	18.0	5.0	15.6	5.4	13.5	5.7	11.4	6.0
-5	23.0	5.4	20.2	6.0	17.5	6.4	14.9	6.8
0	28.9	5.8	25.5	6.6	22.3	7.2	19.2	7.7
5	35.6	6.3	31.6	7.2	27.7	8.0	24.0	8.6
10	43.2	6.7	38.5	7.8	34.0	8.7	29.6	9.5

SP4-LF-120E/SP4-LN-120E								
Tc	30		40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	8.8	4.1	7.6	4.1	6.5	4.2	5.5	4.1
-20	11.8	4.6	10.2	4.8	8.7	4.9	7.3	5.0
-15	15.7	5.2	13.6	5.5	11.6	5.7	9.8	5.9
-10	20.5	5.7	17.9	6.2	15.4	6.5	13.0	6.8
-5	26.3	6.2	23.1	6.8	20.0	7.4	17.1	7.8
0	33.0	6.7	29.1	7.5	25.4	8.2	21.9	8.8
5	40.7	7.2	36.1	8.2	31.7	9.1	27.5	9.8
10	49.4	7.6	44.0	8.9	38.8	10.0	33.9	10.9

SP4-L-150E								
Tc	30		40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	10.2	4.7	8.8	4.8	7.5	4.8	6.3	4.8
-20	13.6	5.3	11.7	5.6	10.0	5.7	8.4	5.8
-15	18.1	6.0	15.7	6.3	13.4	6.6	11.3	6.8
-10	23.7	6.6	20.7	7.1	17.8	7.6	15.1	7.9
-5	30.4	7.1	26.6	7.9	23.1	8.5	19.7	9.0
0	38.1	7.7	33.7	8.7	29.4	9.5	25.3	10.1
5	47.0	8.3	41.7	9.5	36.6	10.5	31.7	11.3
10	57.0	8.8	50.8	10.3	44.9	11.5	39.1	12.6

SP4-L-180E								
Tc	30		40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-25	11.8	5.4	10.2	5.6	8.7	5.6	7.3	5.6
-20	15.8	6.2	13.6	6.5	11.6	6.6	9.7	6.7
-15	21.0	6.9	18.2	7.3	15.6	7.7	13.1	7.9
-10	27.5	7.6	24.0	8.3	20.6	8.8	17.5	9.1
-5	35.2	8.3	30.9	9.2	26.8	9.9	22.9	10.4
0	44.2	9.0	39.0	10.1	34.1	11.0	29.3	11.7
5	54.5	9.6	48.4	11.0	42.5	12.2	36.8	13.1
10	66.1	10.2	59.0	11.9	52.0	13.4	45.4	14.6

Performance Parameters (SP-L, for R134a)

SP4-L-220E									
Tc	30			40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	13.6	6.2	11.7	6.4	10.0	6.4	8.4	6.4	
-20	18.1	7.1	15.6	7.4	13.3	7.6	11.1	7.7	
-15	24.1	7.9	20.9	8.4	17.8	8.8	15.0	9.0	
-10	31.5	8.7	27.5	9.5	23.7	10.0	20.0	10.5	
-5	40.4	9.5	35.4	10.5	30.7	11.3	26.3	11.9	
0	50.7	10.3	44.8	11.6	39.1	12.6	33.6	13.5	
5	62.6	11.0	55.5	12.6	48.7	14.0	42.2	15.1	
10	75.9	11.7	67.6	13.7	59.7	15.3	52.0	16.7	

SP4-L-250E									
Tc	30			40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	16.3	7.5	14.1	7.7	12.0	7.7	10.1	7.7	
-20	21.8	8.5	18.8	8.9	16.0	9.1	13.4	9.2	
-15	29.0	9.5	25.1	10.1	21.5	10.6	18.1	10.9	
-10	37.9	10.5	33.1	11.4	28.5	12.1	24.1	12.6	
-5	48.6	11.4	42.6	12.6	37.0	13.6	31.6	14.4	
0	61.0	12.4	53.9	13.9	47.0	15.2	40.5	16.2	
5	75.3	13.2	66.8	15.2	58.6	16.8	50.8	18.1	
10	91.3	14.1	81.3	16.4	71.8	18.4	62.6	20.1	

SP6-L-270E									
Tc	30			40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	17.8	8.2	15.3	8.3	13.0	8.4	11.0	8.3	
-20	23.7	9.3	20.4	9.7	17.4	9.9	14.6	10.0	
-15	31.5	10.4	27.3	11.0	23.3	11.5	19.6	11.8	
-10	41.2	11.4	35.9	12.4	30.9	13.1	26.2	13.7	
-5	52.9	12.4	46.4	13.7	40.2	14.8	34.3	15.6	
0	66.4	13.4	58.6	15.1	51.1	16.5	44.0	17.6	
5	81.8	14.4	72.6	16.5	63.7	18.3	55.2	19.7	
10	99.2	15.4	88.5	17.9	78.1	20.1	68.1	21.9	

SP6-L-300E									
Tc	30			40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	20.4	9.4	17.6	9.6	15.0	9.7	12.7	9.6	
-20	27.3	10.7	23.5	11.1	20.0	11.4	16.8	11.5	
-15	36.3	11.9	31.4	12.7	26.8	13.2	22.6	13.6	
-10	47.4	13.1	41.3	14.2	35.6	15.1	30.1	15.7	
-5	60.8	14.3	53.3	15.8	46.2	17.0	39.5	17.9	
0	76.3	15.4	67.3	17.4	58.8	19.0	50.6	20.3	
5	94.1	16.6	83.4	19.0	73.3	21.0	63.5	22.7	
10	114.1	17.6	101.7	20.6	89.7	23.1	78.2	25.1	

SP6-L-400E									
Tc	30			40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	24.5	11.3	21.1	11.5	18.0	11.6	15.2	11.5	
-20	32.7	12.8	28.2	13.4	24.0	13.7	20.1	13.8	
-15	43.5	14.3	37.7	15.2	32.2	15.9	27.1	16.3	
-10	56.9	15.7	49.6	17.1	42.7	18.1	36.2	18.9	
-5	72.9	17.2	63.9	19.0	55.4	20.4	47.4	21.5	
0	91.6	18.5	80.8	20.9	70.5	22.8	60.7	24.3	
5	112.9	19.9	100.1	22.8	87.9	25.2	76.2	27.2	
10	136.9	21.2	122.0	24.7	107.7	27.7	93.9	30.2	

SP8-L-500E									
Tc	30			40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	31.0	13.2	26.7	14.2	21.4	14.4	15.3	14.5	
-20	39.8	15.1	34.9	16.4	29.0	17.0	22.4	17.3	
-15	51.1	17.1	45.2	18.7	38.5	19.6	31.0	20.4	
-10	65.2	18.9	58.0	21.0	50.1	22.4	41.4	23.5	
-5	82.5	20.5	73.6	23.2	64.0	25.1	53.9	26.8	
0	103.0	22.0	92.1	25.2	80.6	27.7	68.7	30.1	
5	127.2	23.2	113.9	27.1	100.2	30.3	86.0	33.3	
10	155.3	24.0	139.3	28.7	122.9	32.6	106.2	36.5	

SP8-L-600E									
Tc	30			40		50		60	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	37.0	15.7	31.9	16.9	25.6	17.2	18.2	17.2	
-20	47.5	18.1	41.6	19.6	34.7	20.3	26.7	20.7	
-15	61.0	20.4	54.0	22.3	45.9	23.4	37.0	24.3	
-10	77.9	22.5	69.3	25.0	59.8	26.7	49.5	28.1	
-5	98.4	24.5	87.8	27.7	76.4	29.9	64.3	32.0	
0	123.0	26.2	110.0	30.1	96.2	33.1	82.0	35.9	
5	151.9	27.7	136.0	32.3	119.6	36.1	102.7	39.8	
10	185.3	28.7	166.2	34.2	146.7	38.9	126.8	43.5	

Legend

Pf = Cooling Capacity(kW)

Pa = Input Power(kW)

Te = Evaporating Temperature(°C)

Tc = Condensing Temperature(°C)

50Hz = Frequency

Liquid subcooling 5K

Suction gas superheat 10K

It requires additional cooling (Please refer to application requirement)

Refer to full-load 50Hz operation threshold

For the performance parameters under different working conditions, please refer to RefComp's selection program LEONARDO.

Performance Parameters (SP-H, for R404A-R507)

SP2-H-050E									
Tc	30		40		50		55		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	6.1	2.9	4.9	2.8	3.7	2.8	-	-	
-20	8.1	3.3	6.6	3.3	5.0	3.4	-	-	
-15	10.4	3.6	8.6	3.8	6.6	3.9	5.6	4.0	
-10	13.0	3.9	10.9	4.2	8.6	4.4	7.4	4.5	
-5	16.0	4.1	13.5	4.5	10.8	4.9	9.4	5.0	
0	19.3	4.3	16.5	4.8	13.4	5.3	11.8	5.5	
5	22.9	4.4	19.9	5.1	16.4	5.7	14.5	5.9	

SP2-H-060E									
Tc	30		40		50		55		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	7.3	3.5	5.9	3.4	4.4	3.4	-	-	
-20	9.7	3.9	7.9	4.0	6.0	4.1	-	-	
-15	12.5	4.3	10.3	4.5	8.0	4.7	6.8	4.8	
-10	15.6	4.6	13.1	5.0	10.3	5.3	8.8	5.4	
-5	19.1	4.9	16.2	5.4	13.0	5.8	11.3	6.0	
0	23.1	5.1	19.8	5.8	16.1	6.3	14.2	6.6	
5	27.5	5.2	23.8	6.1	19.7	6.8	17.5	7.1	

SP2-H-080E									
Tc	30		40		50		55		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	8.5	4.0	6.9	3.9	5.2	3.9	-	-	
-20	11.3	4.5	9.2	4.6	7.0	4.7	-	-	
-15	14.5	5.0	12.0	5.2	9.3	5.5	7.9	5.6	
-10	18.2	5.4	15.3	5.8	12.0	6.1	10.3	6.3	
-5	22.3	5.7	19.0	6.3	15.2	6.8	13.2	7.0	
0	27.0	5.9	23.1	6.7	18.8	7.4	16.5	7.6	
5	32.1	6.1	27.8	7.1	23.0	7.9	20.4	8.2	

SP2-H-090E									
Tc	30		40		50		55		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	9.7	4.6	7.8	4.5	5.9	4.5	-	-	
-20	12.9	5.2	10.6	5.3	8.0	5.4	-	-	
-15	16.6	5.7	13.7	6.0	10.6	6.3	9.0	6.4	
-10	20.8	6.2	17.4	6.7	13.7	7.1	11.8	7.3	
-5	25.5	6.5	21.7	7.2	17.4	7.8	15.1	8.1	
0	30.8	6.8	26.4	7.7	21.5	8.5	18.9	8.8	
5	36.7	7.0	31.8	8.2	26.2	9.1	23.3	9.5	

SP4-HF-100E/SP4-HN-100E									
Tc	30		40		50		55		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	11.0	5.1	8.8	5.0	6.6	5.0	-	-	
-20	14.6	5.8	11.9	5.9	9.0	6.0	-	-	
-15	18.7	6.4	15.5	6.7	12.0	7.0	10.2	7.1	
-10	23.4	6.8	19.6	7.4	15.5	7.8	13.3	8.1	
-5	28.8	7.2	24.4	8.0	19.5	8.7	17.0	8.9	
0	34.7	7.6	29.8	8.6	24.2	9.4	21.3	9.8	
5	41.3	7.8	35.8	9.0	29.6	10.1	26.2	10.2	

SP4-HF-120E/SP4-HN-120E									
Tc	30		40		50		55		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	13.2	6.2	10.6	6.0	8.0	6.0	-	-	
-20	17.5	7.0	14.3	7.1	10.9	7.2	-	-	
-15	22.4	7.6	18.6	8.0	14.4	8.4	12.2	8.5	
-10	28.1	8.2	23.6	8.8	18.6	9.4	15.9	9.7	
-5	34.5	8.7	29.3	9.6	23.5	10.4	20.4	10.7	
0	41.7	9.1	35.7	10.3	29.1	11.3	25.5	11.7	
5	49.6	9.3	43.0	10.8	35.5	12.1	31.5	12.6	

SP4-HF-150E/SP4-HN-150E									
Tc	30		40		50		55		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	15.4	7.2	12.4	7.0	9.3	7.0	-	-	
-20	20.4	8.1	16.6	8.2	12.7	8.4	-	-	
-15	26.2	8.9	21.7	9.3	16.8	9.8	14.2	10.0	
-10	32.8	9.6	27.5	10.3	21.7	11.0	18.6	11.3	
-5	40.3	10.1	34.2	11.2	27.4	12.1	23.8	12.5	
0	48.6	10.6	41.7	12.0	33.9	13.2	29.8	13.7	
5	57.9	10.9	50.1	12.7	41.4	14.1	36.7	14.7	

SP4-HF-200E/SP4-HN-200E									
Tc	30		40		50		55		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	17.6	8.2	14.1	8.0	10.6	8.0	-	-	
-20	23.3	9.3	19.0	9.4	14.5	9.6	-	-	
-15	29.9	10.2	24.8	10.7	19.2	11.1	16.3	11.4	
-10	37.5	11.0	31.4	11.8	24.8	12.5	21.2	12.9	
-5	46.0	11.6	39.0	12.8	31.3	13.9	27.2	14.3	
0	55.6	12.1	47.7	13.7	38.8	15.0	34.1	15.6	
5	66.1	12.4	57.3	14.5	47.3	16.1	41.9	16.8	

SP4-H-220E									
Tc	30		40		50		55		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	20.7	9.3	16.9	10.0	13.1	10.7	-	-	
-20	26.3	10.4	21.8	11.3	17.2	12.2	-	-	
-15	33.4	11.4	28.1	12.5	22.5	13.7	19.6	14.3	
-10	41.9	12.3	35.7	13.7	29.0	15.1	25.4	15.8	
-5	51.8	13.0	44.6	14.7	36.6	16.4	32.4	17.2	
0	63.2	13.6	54.8	15.6	45.4	17.6	40.4	18.6	
5	76.1	14.2	66.3	16.5	55.4	18.8	49.6	19.9	

SP4-H-250E									
Tc	30		40		50		55		
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	24.0	10.8	19.6	11.6	15.2	12.4	-	-	
-20	30.5	12.1	25.3	13.1	20.0	14.2	-	-	
-15	38.7	13.2	32.6	14.5	26.1	15.9	22.7	16.6	
-10	48.6	14.2	41.4	15.8	33.6	17.5	29.5	18.3	
-5	60.1	15.1	51.7	17.0	42.5	19.0	37.5	20.0	
0	73.3	15.8	63.5	18.1	52.7	20.4	46.9	21.6	
5	88.2	16.4	76.9	19.1	64.3	21.8	57.5	23.1	

Performance Parameters (SP-H, forR404A-R507)

SP4-H-300E									
Tc	30			40		50		55	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	27.6	12.4	22.4	13.3	17.4	14.2	-	-	
-20	35.0	13.9	29.0	15.0	22.9	16.3	-	-	
-15	44.4	15.2	37.4	16.7	29.9	18.2	26.1	19.0	
-10	55.7	16.3	47.5	18.2	38.5	20.1	33.8	21.0	
-5	68.9	17.3	59.3	19.5	48.7	21.8	43.1	22.9	
0	84.1	18.1	72.9	20.8	60.4	23.7	53.8	24.7	
5	101.2	18.8	88.2	21.9	73.7	24.9	65.9	26.5	

SP4-H-350E									
Tc	30			40		50		55	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	33.0	14.8	26.8	15.8	20.8	17.0	-	-	
-20	41.9	16.6	34.7	18.0	27.4	19.4	-	-	
-15	53.1	18.1	44.7	19.9	35.8	21.8	31.2	22.7	
-10	66.6	19.5	56.7	21.7	46.1	24.0	40.4	25.1	
-5	82.4	20.7	70.9	23.4	58.2	26.0	51.5	27.4	
0	100.5	21.7	87.1	24.8	72.2	28.0	64.3	29.6	
5	120.9	22.5	105.4	26.2	88.1	29.8	78.8	31.6	

SP6-H-370E									
Tc	30			40		50		55	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	36.1	16.2	29.3	17.3	22.8	18.6	-	-	
-20	45.8	18.1	38.0	19.7	30.0	21.3	-	-	
-15	58.1	19.8	48.9	21.8	39.2	23.8	34.1	24.9	
-10	72.9	21.3	62.1	23.8	50.4	26.2	44.3	27.5	
-5	90.2	22.6	77.6	25.6	63.7	28.5	56.3	30.0	
0	110.0	23.7	95.3	27.2	79.0	30.6	70.6	32.4	
5	132.4	24.6	115.3	28.6	96.4	32.6	86.2	34.6	

SP6-H-400E									
Tc	30			40		50		55	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	41.5	18.7	33.7	19.9	26.2	21.3	-	-	
-20	52.7	20.9	43.6	22.6	34.4	24.4	-	-	
-15	66.8	22.8	56.2	25.1	45.0	27.4	39.2	28.6	
-10	83.8	24.5	71.4	27.3	58.0	30.2	50.9	31.6	
-5	103.7	26.0	89.1	29.4	73.2	32.8	64.7	34.5	
0	126.5	27.3	109.6	31.2	90.9	35.2	80.8	37.2	
5	152.1	28.3	132.6	32.9	110.8	37.5	99.1	39.8	

SP6-H-500E									
Tc	30			40		50		55	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	49.5	22.3	40.3	23.8	31.3	25.5	-	-	
-20	62.9	24.9	52.2	27.0	41.2	29.2	-	-	
-15	79.8	27.3	67.1	29.9	53.8	32.7	46.9	34.1	
-10	100.1	29.3	85.3	32.6	69.3	36.0	60.8	37.8	
-5	123.9	31.1	106.5	35.1	87.5	39.2	77.4	41.2	
0	151.1	32.6	130.9	37.3	108.6	42.1	96.6	44.5	
5	181.8	33.8	158.4	39.3	132.4	44.8	118.5	47.6	

SP8-H-600E									
Tc	30			40		50		55	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	68.0	29.0	49.5	29.5	37.4	29.2	-	-	
-20	83.6	31.8	64.1	33.3	50.1	33.9	-	-	
-15	102.2	34.5	81.3	37.0	64.9	38.7	56.9	38.9	
-10	124.2	36.8	101.5	40.6	82.4	43.4	72.6	44.2	
-5	150.1	38.9	125.0	43.9	102.7	48.0	91.1	49.5	
0	180.1	40.4	152.3	46.9	126.4	52.4	112.6	54.7	
5	214.7	41.5	183.7	49.5	153.8	56.7	137.7	59.7	

SP8-H-700E									
Tc	30			40		50		55	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	
-25	81.1	34.6	59.1	35.3	44.6	34.8	-	-	
-20	99.7	38.0	76.5	39.8	59.8	40.5	-	-	
-15	122.0	41.2	97.0	44.2	77.5	46.1	67.9	46.5	
-10	148.3	44.0	121.1	48.4	98.3	51.8	86.7	52.8	
-5	179.1	46.4	149.2	52.4	122.6	57.3	108.7	59.1	
0	215.0	48.3	181.8	56.0	150.9	62.6	134.4	65.3	
5	256.3	49.6	219.3	59.1	183.6	67.6	164.4	71.3	

Legend

Pf = Cooling Capacity(kW)

Pa = Input Power(kW)

Te = Evaporating Temperature(°C)

Tc = Condensing Temperature(°C)

50Hz = Frequency

Liquid subcooling 5K

Suction gas superheat 10K

It requires additional cooling (Please refer to application requirement)

Refer to full-load 50Hz operation threshold

For the performance parameters under different working conditions, please refer to RefComp' s selection program LEONARDO.

Performance Parameters (SP-L, for R404-R507)

SP2-L-030E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	2.6	1.6	2.0	1.6	1.4	1.6	-	-
-35	3.5	1.9	2.7	2.0	1.9	2.0	-	-
-30	4.6	2.2	3.6	2.3	2.7	2.4	2.5	2.5
-25	5.9	2.5	4.8	2.7	3.7	2.9	3.5	2.9
-20	7.6	2.8	6.3	3.0	5.0	3.3	4.7	3.3
-15	9.4	3.0	7.9	3.3	6.5	3.7	6.1	3.7
-10	11.5	3.3	9.9	3.7	8.2	4.1	7.9	4.1
-6	13.4	3.5	11.6	3.9	9.8	4.4	9.4	4.5

SP2-L-040E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	3.1	1.9	2.4	1.9	1.6	1.9	-	-
-35	4.2	2.3	3.2	2.3	2.3	2.4	-	-
-30	5.5	2.6	4.4	2.8	3.2	2.9	3.0	2.9
-25	7.1	3.0	5.8	3.2	4.4	3.4	4.1	3.4
-20	9.1	3.3	7.5	3.6	5.9	3.9	5.6	4.0
-15	11.3	3.6	9.5	4.0	7.7	4.4	7.4	4.5
-10	13.8	3.9	11.9	4.4	9.8	4.8	9.4	4.9
-6	16.1	4.2	13.9	4.7	11.7	5.2	11.3	5.3

SP2-L-050E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	3.6	2.2	2.8	2.2	1.9	2.2	-	-
-35	4.8	2.7	3.8	2.7	2.7	2.8	-	-
-30	6.4	3.1	5.1	3.2	3.7	3.4	3.5	3.4
-25	8.3	3.5	6.8	3.7	5.2	4.0	4.8	4.0
-20	10.6	3.9	8.8	4.2	6.9	4.5	6.6	4.6
-15	13.2	4.2	11.1	4.6	9.0	5.1	8.6	5.2
-10	16.1	4.6	13.8	5.1	11.5	5.6	11.0	5.7
-6	18.8	4.9	16.2	5.4	13.7	6.1	13.1	6.2

SP2-L-060E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	4.2	2.5	3.2	2.5	2.2	2.5	-	-
-35	5.5	3.0	4.3	3.1	3.0	3.2	-	-
-30	7.3	3.5	5.8	3.7	4.3	3.8	4.0	3.9
-25	9.5	3.9	7.7	4.2	5.9	4.5	5.5	4.6
-20	12.1	4.4	10.0	4.8	7.9	5.1	7.5	5.2
-15	15.1	4.8	12.7	5.3	10.3	5.8	9.8	5.9
-10	18.4	5.2	15.8	5.8	13.1	6.4	12.6	6.5
-6	21.4	5.5	18.6	6.2	15.6	6.9	15.0	7.0

SP4-LF-060E/SP4-LN-060E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	5.2	3.4	4.0	3.4	2.7	3.3	-	-
-35	6.9	4.0	5.4	4.4	3.8	4.2	-	-
-30	9.2	4.6	7.3	4.9	5.3	5.1	5.0	5.1
-25	11.9	5.2	9.7	5.6	7.4	6.0	6.9	6.1
-20	15.1	5.8	12.5	6.3	9.9	6.8	9.4	6.9
-15	18.8	6.4	15.9	7.0	12.9	7.7	12.3	7.8
-10	23.0	6.9	19.8	7.7	16.4	8.5	15.7	8.7
-6	26.8	7.3	23.2	8.2	19.5	9.1	18.8	9.3

SP4-LF-080E/SP4-LN-080E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	6.2	4.1	4.8	4.0	3.3	4.0	-	-
-35	8.3	4.8	6.5	4.9	4.6	5.1	-	-
-30	11.0	5.6	8.7	5.8	6.4	6.1	5.9	6.2
-25	14.3	6.3	11.6	6.7	8.9	7.2	8.3	7.3
-20	18.1	7.0	15.0	7.6	11.9	8.2	11.2	8.3
-15	22.6	7.7	19.1	8.4	15.5	9.2	14.8	9.4
-10	27.7	8.3	23.7	9.2	19.7	10.2	18.8	10.4
-6	32.1	8.8	27.8	9.9	23.4	11.0	22.5	11.2

SP4-LF-100E/SP4-LN-100E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	7.3	4.7	5.6	4.7	3.8	4.6	3.5	4.6
-35	9.7	5.6	7.5	5.8	5.3	5.9	4.9	5.9
-30	12.8	6.5	10.2	6.8	7.5	7.1	6.9	7.2
-25	16.6	7.3	13.5	7.8	10.3	8.4	9.7	8.5
-20	21.1	8.1	17.5	8.8	13.9	9.6	13.1	9.7
-15	26.4	8.9	22.3	9.8	18.1	10.7	17.2	10.9
-10	32.3	9.7	27.7	10.8	22.9	11.9	22.0	12.1
-6	37.5	10.3	32.5	11.5	27.3	12.8	26.3	13.1

SP4-LF-120E/SP4-LN-120E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	8.3	5.4	6.4	5.4	4.4	5.3	-	-
-35	11.1	6.4	8.6	6.6	6.4	6.7	-	-
-30	14.6	7.4	11.6	7.8	8.6	8.2	7.9	8.2
-25	19.0	8.4	15.5	9.0	11.8	9.6	11.1	9.7
-20	24.2	9.3	20.1	10.1	15.8	10.9	15.0	11.1
-15	30.1	10.2	25.4	11.2	20.6	12.3	19.7	12.5
-10	36.9	11.1	31.6	12.3	26.2	13.6	25.1	13.9
-6	42.9	11.7	37.1	13.2	31.2	14.6	30.1	14.9

SP4-L-150E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	9.6	6.2	7.4	6.2	5.0	6.1	-	-
-35	12.8	7.4	10.0	7.6	7.0	7.8	-	-
-30	16.9	8.6	13.5	9.0	9.9	9.4	9.2	9.5
-25	22.0	9.7	17.9	10.4	13.6	11.0	12.8	11.2
-20	27.9	10.8	23.2	11.7	18.3	12.6	17.3	12.8
-15	34.8	11.8	29.4	13.0	23.9	14.2	22.7	14.4
-10	42.6	12.8	36.5	14.2	32.3	15.7	29.0	16.0
-6	49.5	13.6	42.9	15.2	36.1	16.9	34.7	17.3

SP4-L-180E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	11.1	7.2	8.6	7.2	5.8	7.1	-	-
-35	14.8	8.6	11.6	8.8	8.1	9.0	-	-
-30	19.6	9.9	15.6	10.4	11.5	10.9	10.6	11.0
-25	25.5	11.2	20.7	12.0	15.8	12.8	14.8	13.0
-20	32.4	12.5	26.9	13.5	21.2	14.7	20.1	14.9
-15	40.4	13.7	34.1	15.0	27.7	16.5	26.4	16.7
-10	49.4	14.8	42.4	16.5	35.1	18.2	33.7	18.6
-6	57.4	15.7	49.7	17.6	41.9	19.6	40.3	20.0

Performance Parameters (SP-L, for R404-R507)

SP4-L-220E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	12.8	8.3	9.8	8.2	6.7	8.1	-	-
-35	17.0	9.9	13.3	10.1	9.3	10.4	-	-
-30	22.5	11.4	17.9	12.0	13.1	12.5	12.2	12.7
-25	29.2	12.9	23.8	13.8	18.1	14.7	17.0	14.9
-20	37.1	14.3	30.8	15.5	24.3	16.8	23.0	17.1
-15	46.3	15.7	39.1	17.2	31.7	18.9	30.2	19.2
-10	56.7	17.0	48.6	18.9	40.3	20.9	38.6	21.3
-6	65.9	18.0	57.0	20.2	48.0	22.5	46.2	23.0

SP4-L-250E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	15.4	10.0	11.8	9.9	8.1	9.8	-	-
-35	20.5	11.9	15.9	12.2	11.2	12.5	-	-
-30	27.1	13.7	21.5	14.4	15.8	15.1	14.6	15.2
-25	35.1	15.5	28.6	16.6	21.8	17.7	20.5	17.9
-20	44.7	17.2	37.1	18.7	29.3	20.2	27.7	20.5
-15	55.7	18.9	47.0	20.7	38.2	22.7	36.4	23.1
-10	68.2	20.5	58.4	22.8	48.5	25.1	46.5	25.6
-6	79.2	21.7	68.6	24.3	57.8	27.1	55.6	27.6

SP6-L-270E								
Tc	30		40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	16.7	10.9	12.8	10.8	8.8	10.6	-	-
-35	22.3	12.9	17.3	13.3	12.2	13.5	-	-
-30	29.4	14.9	23.4	15.7	17.2	16.4	15.9	16.6
-25	38.2	16.9	31.1	18.0	23.7	19.2	22.3	19.5
-20	48.6	18.7	40.3	20.3	31.8	22.0	30.1	22.3
-15	60.6	20.5	51.1	22.6	41.5	24.7	39.5	25.1
-10	74.1	22.3	63.5	24.7	52.7	27.3	50.5	27.9
-6	86.2	23.6	74.6	26.4	62.8	29.4	60.4	30.0

SP6-L-300E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	19.2	12.5	14.8	12.4	10.1	12.2	-	-
-35	25.6	14.9	19.9	15.2	14.0	15.6	-	-
-30	33.8	17.2	26.9	18.0	19.8	18.9	18.3	19.0
-25	43.9	19.4	35.7	20.7	27.3	22.1	25.6	22.4
-20	55.8	21.5	46.3	23.4	36.6	25.3	34.6	25.7
-15	69.6	23.6	58.8	25.9	47.7	28.4	45.5	28.9
-10	85.2	25.6	73.0	28.4	60.6	31.4	58.1	32.0
-6	99.0	27.1	85.8	30.4	72.2	33.8	69.4	34.5

SP6-L-400E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	23.1	15.0	17.7	14.9	12.1	14.7	-	-
-35	30.7	17.8	23.9	18.3	16.8	18.7	-	-
-30	40.6	20.6	32.3	21.6	23.7	22.6	22.0	22.8
-25	52.7	23.2	42.9	24.9	32.8	26.5	30.7	26.9
-20	67.0	25.8	55.6	28.0	43.9	30.3	41.6	30.8
-15	83.5	28.3	70.5	31.1	57.2	34.1	54.6	34.7
-10	102.3	30.7	87.7	34.1	72.7	37.7	69.7	38.4
-6	118.8	32.5	102.9	36.5	86.6	40.6	83.3	41.4

SP8-L-500E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	34.8	20.6	17.6	18.5	9.2	15.8	-	-
-35	43.8	22.8	26.6	21.6	17.3	19.7	-	-
-30	54.7	25.5	37.1	25.2	26.5	24.2	24.8	23.6
-25	67.8	28.4	49.4	29.1	37.2	29.1	35.0	28.8
-20	83.4	31.4	63.9	33.2	49.7	34.3	47.1	34.2
-15	101.9	34.2	81.0	37.3	64.5	39.6	61.3	39.7
-10	123.7	36.8	101.0	41.2	81.8	44.8	78.0	45.1
-6	143.8	38.5	119.4	44.0	-	-	-	-

SP8-L-600E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	41.6	24.5	21.1	22.1	11.0	18.9	-	-
-35	52.3	27.2	31.8	25.8	20.7	23.5	-	-
-30	65.3	30.4	44.3	30.0	31.6	28.9	29.6	28.2
-25	80.9	33.9	59.0	34.7	44.4	34.8	41.8	34.4
-20	99.5	37.4	76.3	39.6	59.3	41.0	56.2	40.8
-15	121.6	40.9	96.7	44.5	76.9	47.3	73.1	47.4
-10	147.7	43.9	120.6	49.1	97.7	53.4	93.1	53.9
-6	171.7	46.0	142.6	52.5	-	-	-	-

Legend

Pf = Cooling Capacity(kW)

Pa = Input Power(kW)

Te = Evaporating Temperature(°C)

Tc = Condensing Temperature(°C)

50Hz = Frequency

Liquid subcooling 5K

Suction gas superheat 10K

It requires additional cooling (Please refer to application requirement)

Refer to full-load 50Hz operation threshold

For the performance parameters under different working conditions, please refer to RefComp' s selection program LEONARDO.

Delivery

Standard Package:

- For SP2, Star motor (400V/3/50Hz) or Delta motor(230V/3/50Hz);
- Partial winding starter motor (400V/3/50Hz-460V/3/60Hz);
- Crankcase heater;
- Discharge shut-off valve;
- Suction shut-off valve;
- Spring damper (Rubber dampers for SP2 and SP8);
- Bridge for DOL start;
- Safety valve;
- Oil sight glass;
- Oil filter (for compressors with oil pump only);
- Oil charge;
- PTC Thermistor;
- INT69 Protection Module (230V/1/50-60Hz, for SP2);
- INT69B2 Protection Module (230V/1/50-60Hz, Except SP2);
- IP54 Electrical Box;
- Nitrogen blanketing protection.

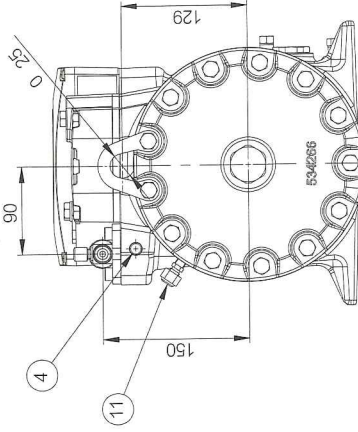
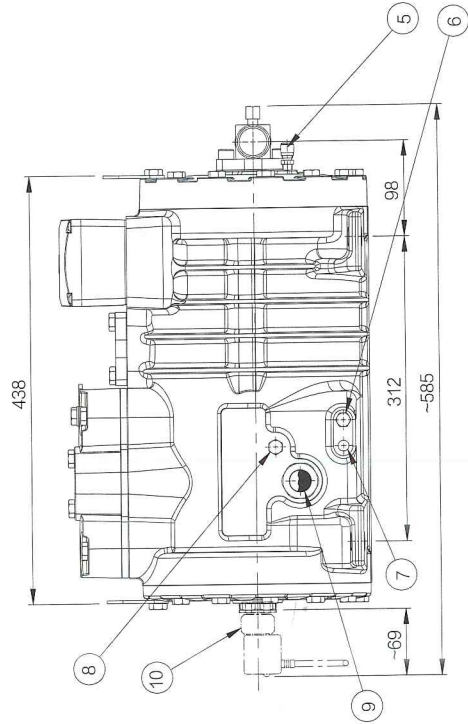
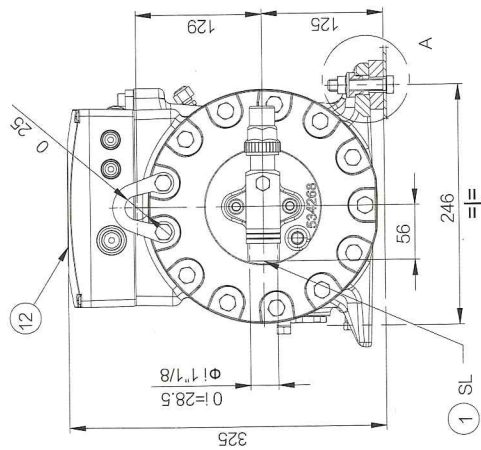
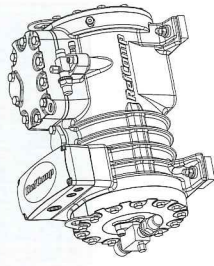
Optional Accessories :

- For SP2, Star motor (380V/3/60Hz) or Delta motor(220V/3/60Hz);
- Star-Delta Motor (400V/3/50Hz-460V/3/60Hz);
- Special voltage motor;
- Oil differential pressure switch (For the compressor with the forced lubrication only);
- Opto-electronic oil sensor (for the compressor with the splash lubrication only);
- Capacity control (CR);
- Unloader (SU);
- Liquid injection module (not for SP2);
- Cooling Fan (not for SP8);
- Discharge gas temperature sensor;
- Oil charge valve;
- Connections for compressor parallel operations;
- Special packaging.

Compressor Type	Steps of Capacity Control	Value of Capacity Control	Steps of Capacity Control	Value of Capacity Control
2urn	-	-	-	-
4urn	1	50%	-	-
6urn	1	66%	2	66%-33%
8urn	1	75%	2	75%-50%

The standard power requirement of all the electronic components (electronic production module, crankcase heater, prefixed CR and SU solenoid valve coil) of the compressor is 230V AC 50/60Hz; if the special power requirement for the components is needed , please contact RefComp.

SP2L0300-SP2L030E-SP2L0400-SP2L040E-SP2L0500-SP2L050E-SP2L0600-SP2L060E-SP2H0500-SP2H050E-SP2H0600-SP2H060E

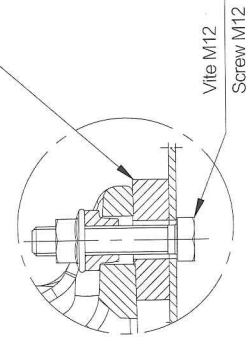
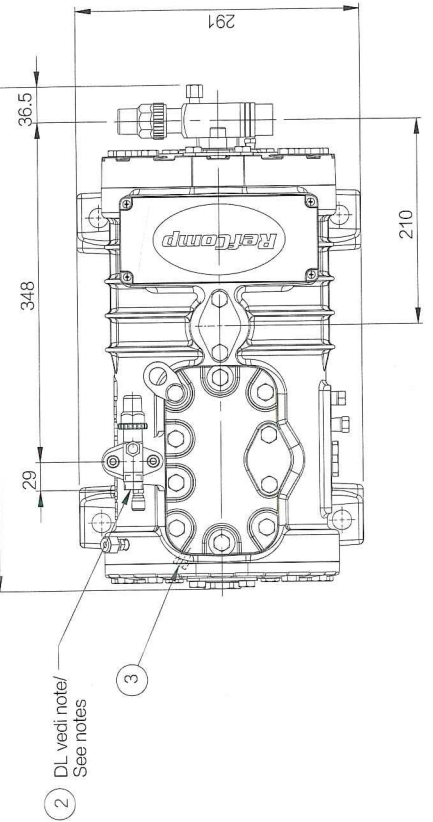


Serie / Type	
P2L0300-P2H0500	P2H0500
P2L0400-P2H0600	P2H0600
DL=Φ	16-5/8" 22-7/8"

Legend

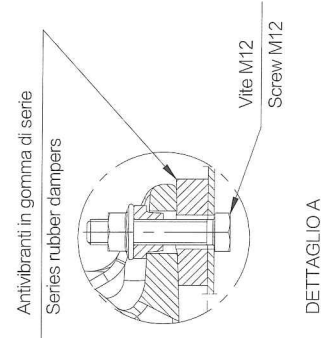
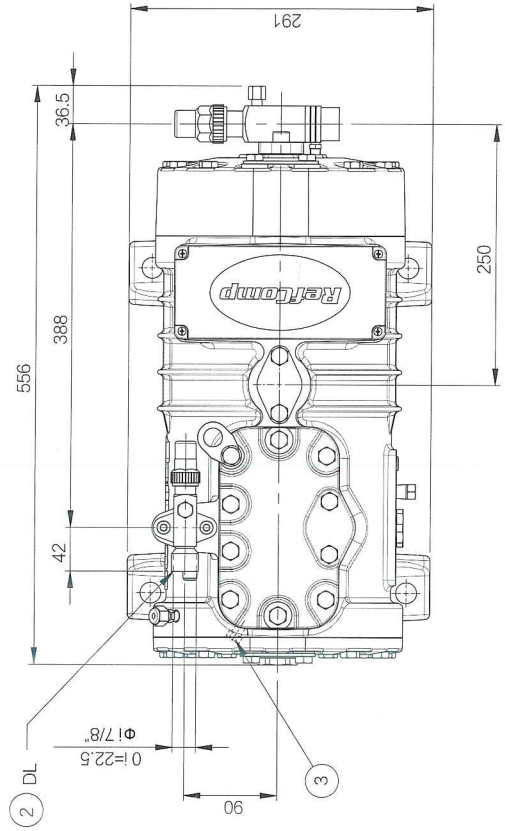
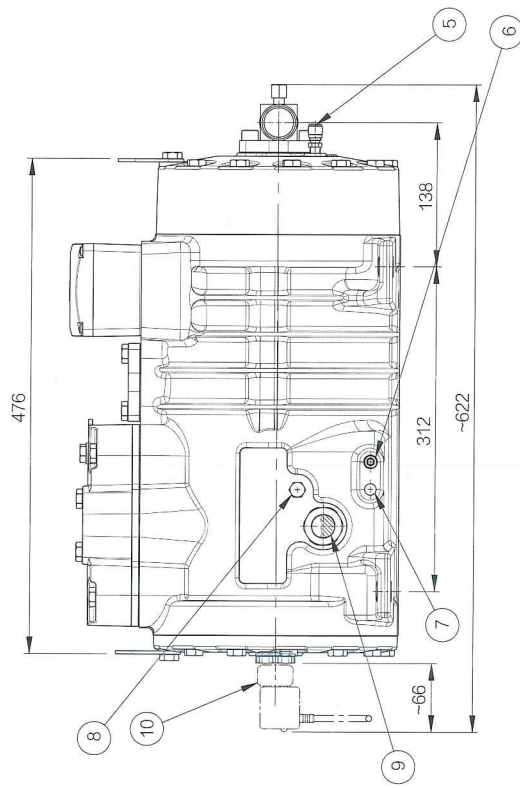
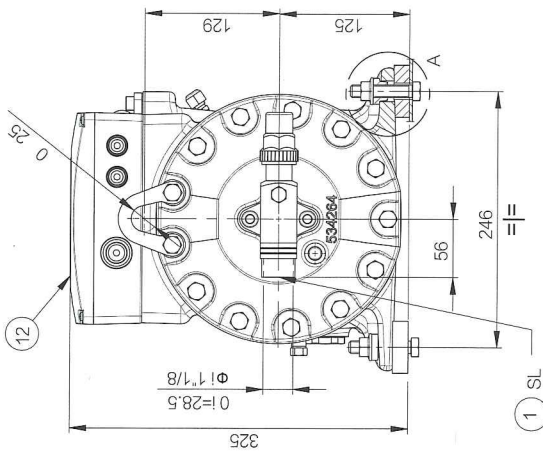
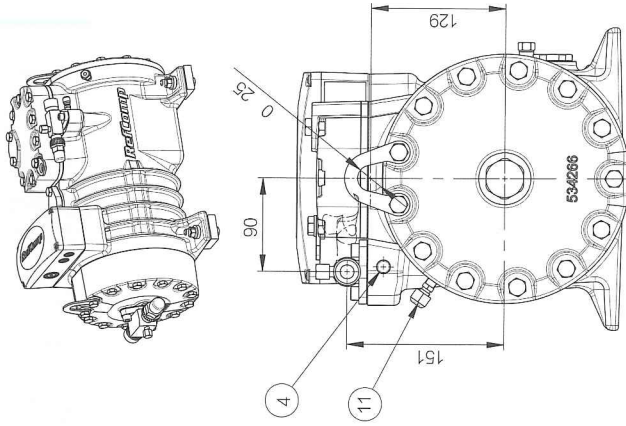
1	Suction shut-off valve (SL)
2	Discharge shut-off valve (DL)
3	Discharge gas temperature sensor 1/8"NPT(optional)
4	High pressure connection 1/8"NPT
5	Low pressure connection 1/4"SAE-FLARE
6	Oil stainer plug 1/4"NPT
7	Crankcase heater
8	Oil charge shut-off valve 1/4"NPT
9	Oil sight glass
10	Oil level sensor (optional)

Antivibranti in gomma di serie
Series rubber dampers



DETTAGLIO A

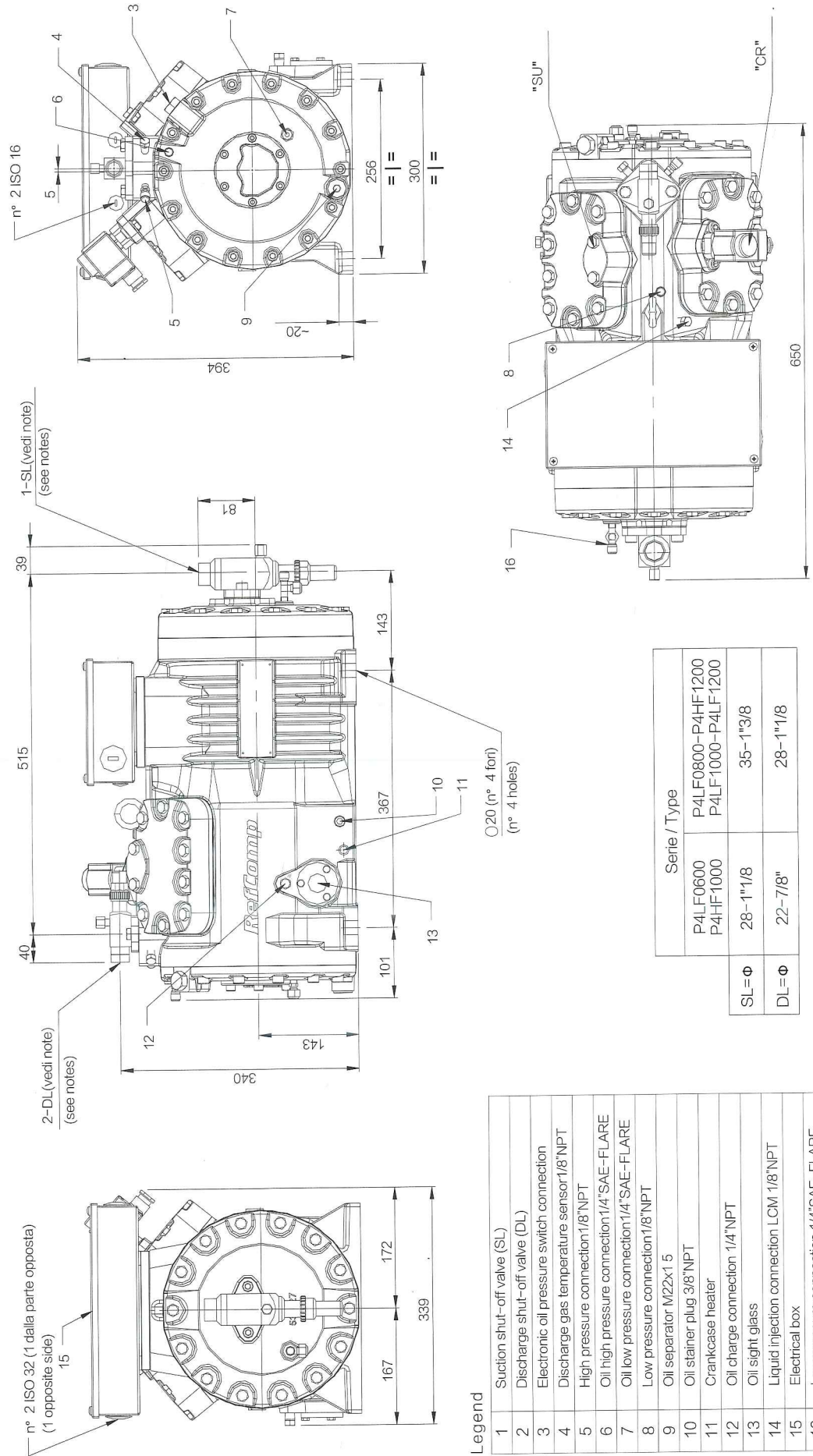
SP2H0800-SP2H080E
 SP2H0900-SP2H090E



Legend

1	Suction shut-off valve (SL)
2	Discharge shut-off valve (DL)
3	Discharge gas temperature sensor 1/8"NPT (optional)
4	High pressure connection 1/4"SAE-FLARE
5	Low pressure connection 1/4"SAE-FLARE
6	Oil stainer plug 1/4"NPT
7	Crankcase heater
8	Oil charge shut-off valve 1/4"NPT
9	Oil sight glass
10	Oil level sensor (optional)

SP4LF0600-SP4LF060E-SP4LF0800-SP4LF080E
 SP4HF/LF1000-SP4HF/LF100E-SP4HF/LF1200-SP4HF/LF120E



1-SL (vedi note)
(see notes)

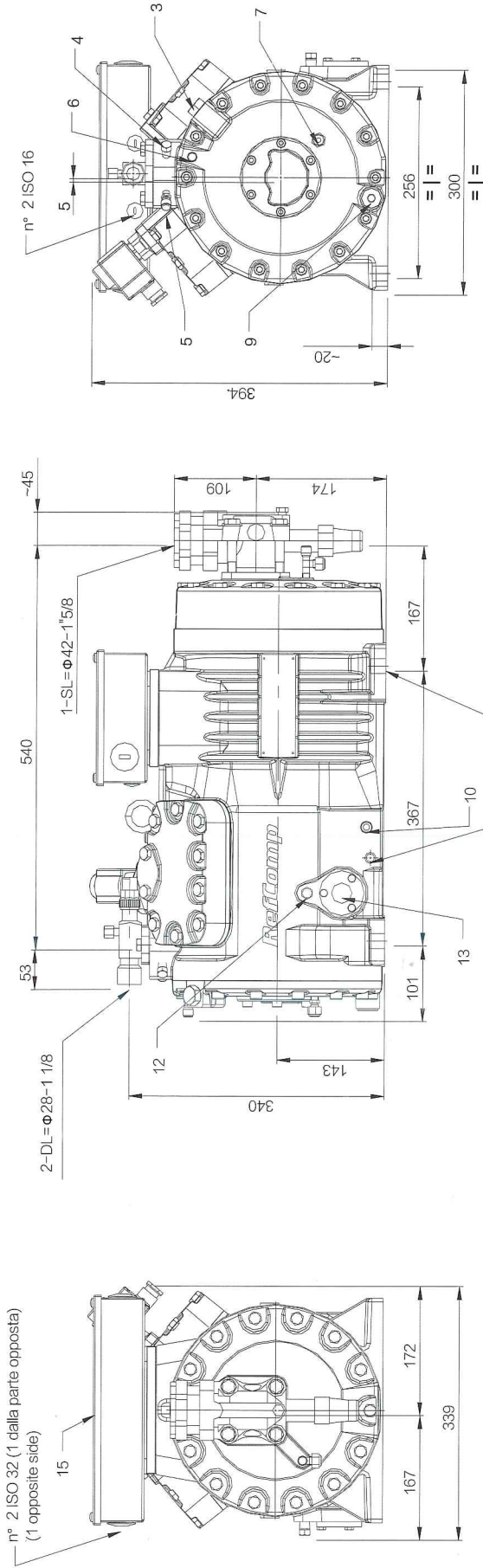
2-DL (vedi note)
(see notes)

n° 2 ISO 32 (1 dalla parte opposta)
(1 opposite side)

Legend	
1	Suction shut-off valve (SL)
2	Discharge shut-off valve (DL)
3	Electronic oil pressure switch connection
4	Discharge gas temperature sensor 1/8"NPT
5	High pressure connection 1/8"NPT
6	Oil high pressure connection 1/4"SAE-FLARE
7	Oil low pressure connection 1/4"SAE-FLARE
8	Low pressure connection 1/8"NPT
9	Oil separator M22x1.5
10	Oil strainer plug 3/8"NPT
11	Crankcase heater
12	Oil charge connection 1/4"NPT
13	Oil sight glass
14	Liquid injection connection LCM 1/8"NPT
15	Electrical box
16	Low pressure connection 1/4"SAE-FLARE
Capacity control (CR)	
Unloader (SU)	

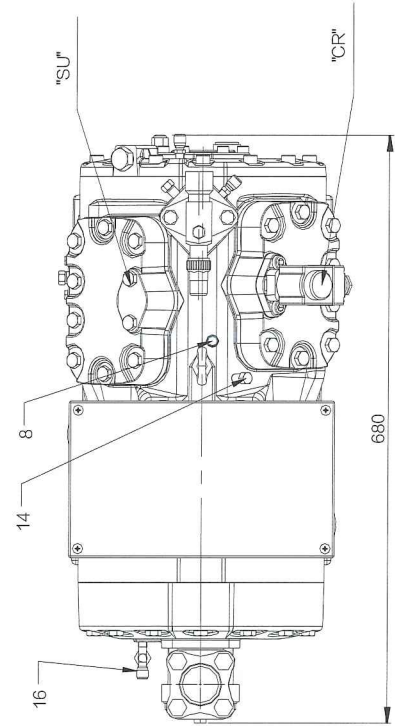
SL=Ø	DL=Ø	Series / Type
		P4LF0600
		P4LF0800-P4HF1200
		P4LF1000-P4LF1200
28-1"1/8	28-1"1/8	35-1"3/8
22-7/8"	28-1"1/8	28-1"1/8

SP4HF1500-SP4HF150E
 SP4HF2000-SP4HF200E

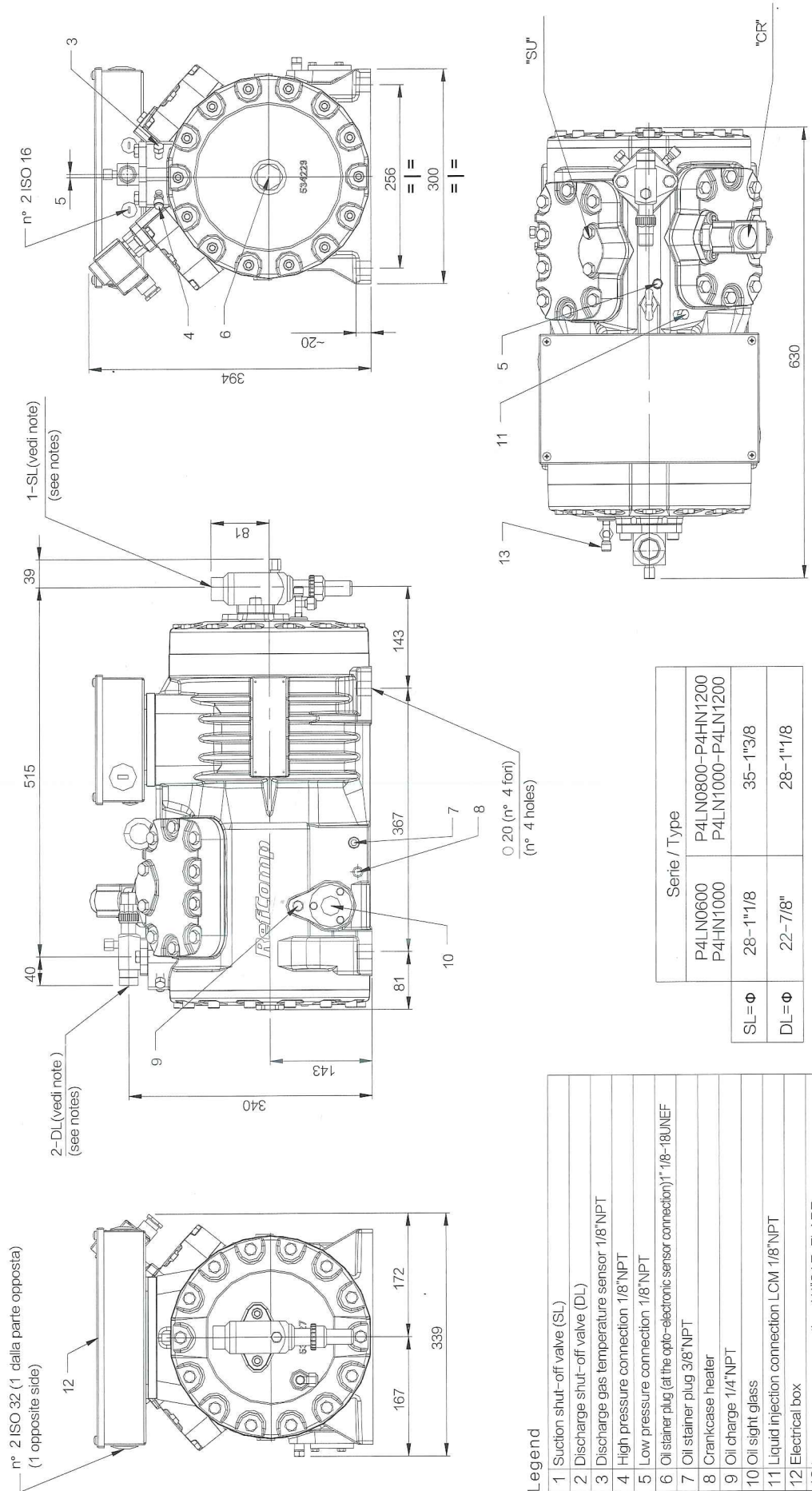


Legend

1	Suction shut-off valve (SL)
2	Discharge shut-off valve
3	Electronic oil pressure switch connection
4	Discharge gas temperature sensor 1/8"NPT
5	High pressure connection 1/8"NPT
6	Oil high pressure connection 1/4"SAE-FLARE
7	Oil low pressure connection 1/4"SAE-FLARE
8	Low pressure connection 1/8"NPT
9	Oil separator M22x1.5
10	Oil stainer plug 3/8" NPT
11	Crankcase heater
12	Oil charge 1/4"NPT
13	Oil sight glass
14	Liquid injection connection LCM 1/8"NPT
15	Electrical box
16	Low pressure connection 1/4"SAE-FLARE
Capacity control (CR)	
Unloader (SU)	



SP4LN0600-SP4LN060E-SP4LN0800-SP4LN080E
 SP4HN/LN1000-SP4HN/LN100E-SP4HN/LN1200-SP4HN/LN120E

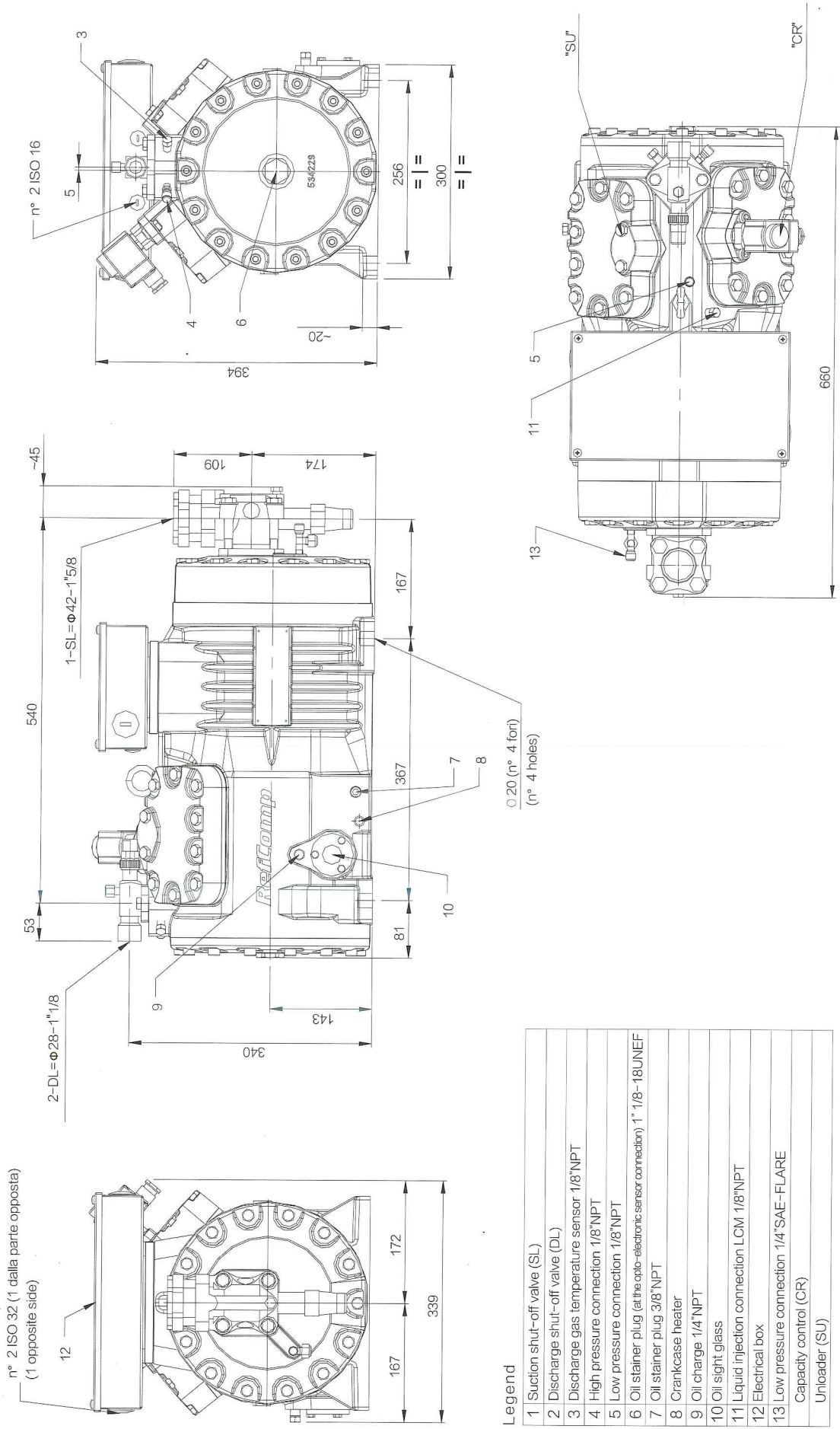


SL=Ø	DL=Ø	Series / Type
28-1"1/8	22-7/8"	P4LN0600
35-1"3/8	28-1"1/8	P4LN0800-P4HN1200
		P4LN1000-P4LN1200

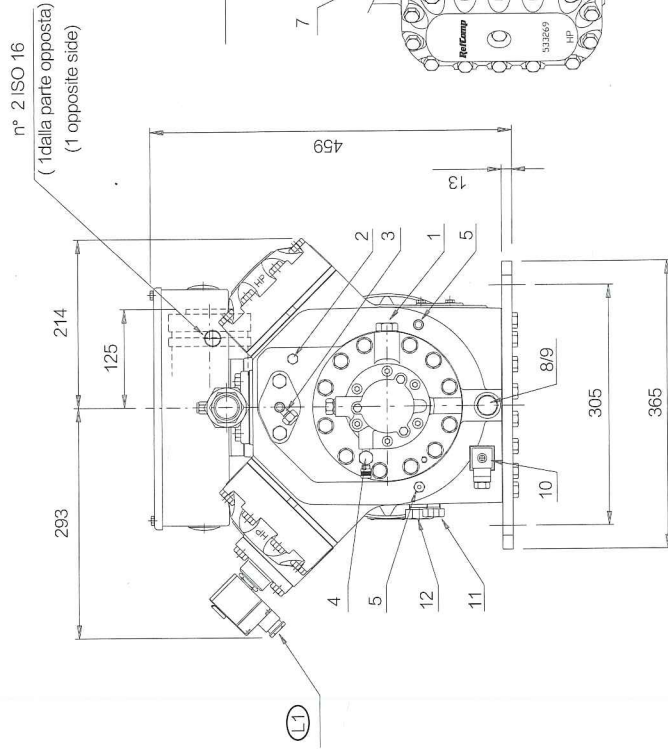
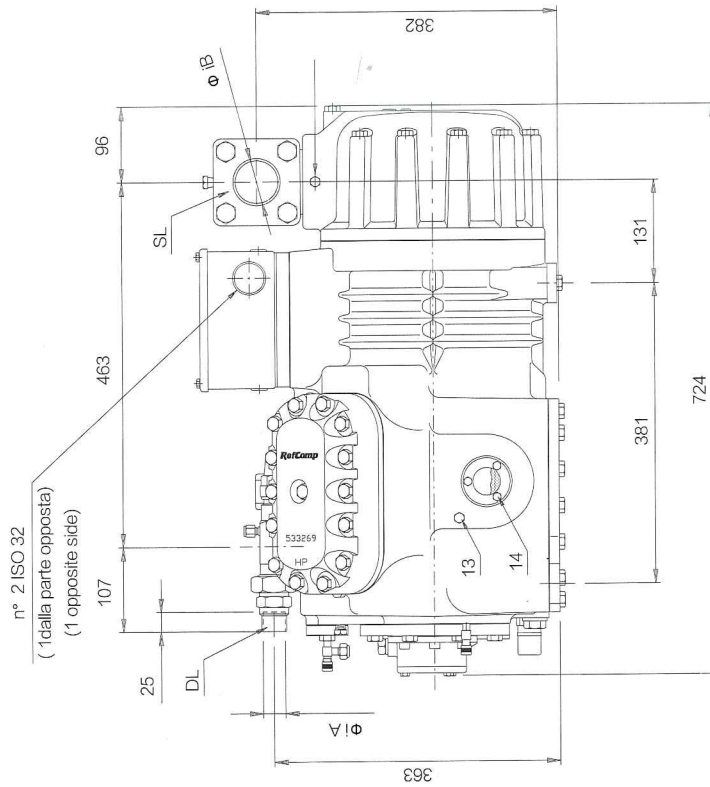
Legend

1	Suction shut-off valve (SL)
2	Discharge shut-off valve (DL)
3	Discharge gas temperature sensor 1/8"NPT
4	High pressure connection 1/8"NPT
5	Low pressure connection 1/8"NPT
6	Oil stainer plug (at the opto-electronic sensor connection) 1" 1/8-18UNEF
7	Oil stainer plug 3/8"NPT
8	Crankcase heater
9	Oil charge 1/4"NPT
10	Oil sight glass
11	Liquid injection connection LCM 1/8"NPT
12	Electrical box
13	Low pressure connection 1/4"SAE-FLARE
	Capacity control (CR)
	Unloader (SU)

SP4HN1500-SP4HN150E
 SP4HN2000-SP4HN200E



SP4L1500...SP4L2500-SP4L150E...SP4L250E
 SP4H2200...SP4H3500-SP4H220E...SP4H350E



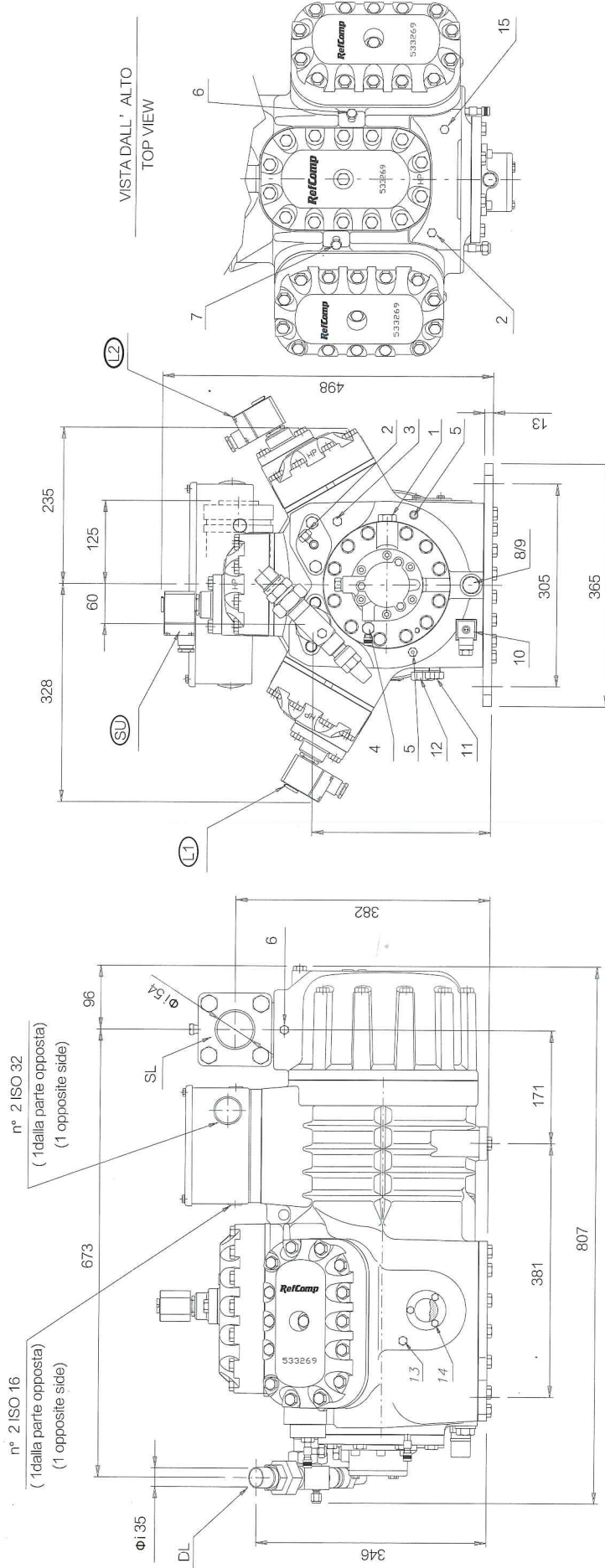
Legend

1	Electronic oil pressure switch connection
2	Discharge gas temperature sensor
3	High pressure connection 1/4"SAE...FLARE
4	Oil high pressure connection 1/4"SAE-FLARE
5	Oil low pressure connection 1/4"SAE-FLARE
6	Low pressure connection 1/8"NPT
7	Low pressure connection (Liquid injection) 1/8"NPT
8	Oil separator
9	Oil strainer plug/Crankcase heater
10	Oil equalization connection (parallel operation)
11	Gas equalization connection (parallel operation)
12	Oil charge connection 1/4"NPT
13	

14	Oil sight glass
15	High pressure connection 1/4"NPT
(DL)	Discharge shut-off valve
(SL)	Suction shut-off valve
(L1)	Solenoid valve I
(L2)	Solenoid valve II
(SU)	Unloader solenoid valve

SERIE P	ΦiA	ΦiB
SP4H2200 / 220E	28	42
SP4L1500 / 150E	28	42
SP4H2500 / 250E	28	54
SP4L1800 / 180E	28	42
SP4H3000 / 300E	28	54
SP4L2200 / 220E	28	54
SP4H3500 / 350E	35	54
SP4L2500 / 250E	35	54

SP6L2700-SP6L270E-SP6L3000-SP6L300E
 SP6H3700-SP6H370E-SP6H4000-SP6H400E

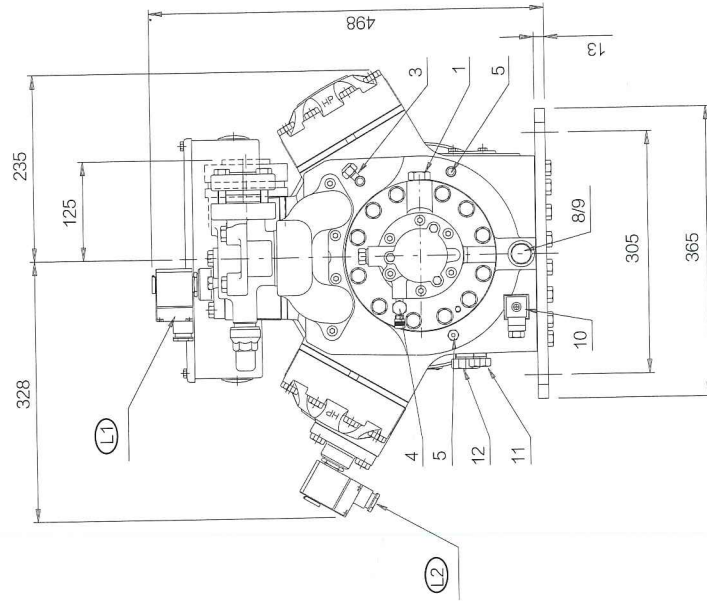
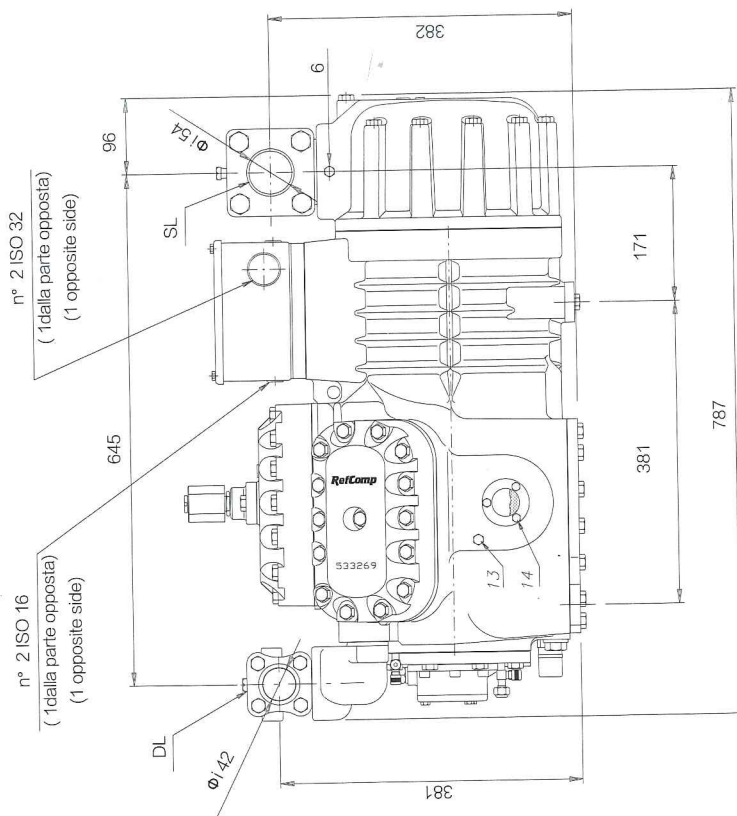


Legend

1	Electronic oil pressure switch connection
2	Discharge gas temperature sensor
3	High pressure connection 1/4"SAE-FLARE
4	Oil high pressure connection 1/4"SAE-FLARE
5	Oil low pressure connection 1/4"SAE-FLARE
6	Low pressure connection 1/8"NPT
7	Low pressure connection (Liquid injection) 1/8"NPT
8	Oil separator
9	Oil stainer plug
10	Crankcase heater
11	Oil equalization connection (parallel operation)
12	Gas equalization connection (parallel operation)
13	Oil charge connection 1/4"NPT

14	Oil sight glass
15	High pressure connection 1/4"NPT
(DL)	Discharge shut-off valve
(SL)	Suction shut-off valve
(L1)	Solenoid valve I
(L2)	Solenoid valve II
(SU)	Unloader solenoid valve

SP6L4000-SP6L400E
 SP6H5000-SP6H500E



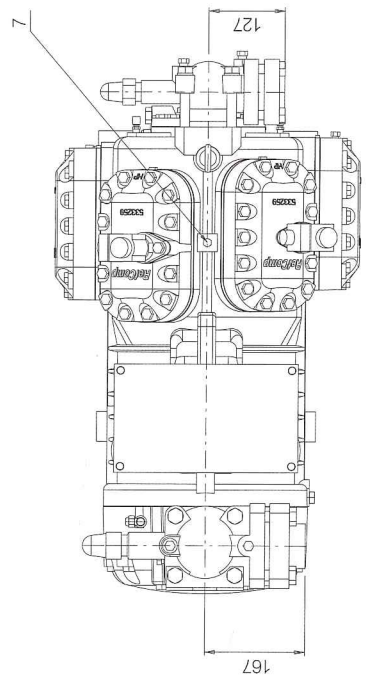
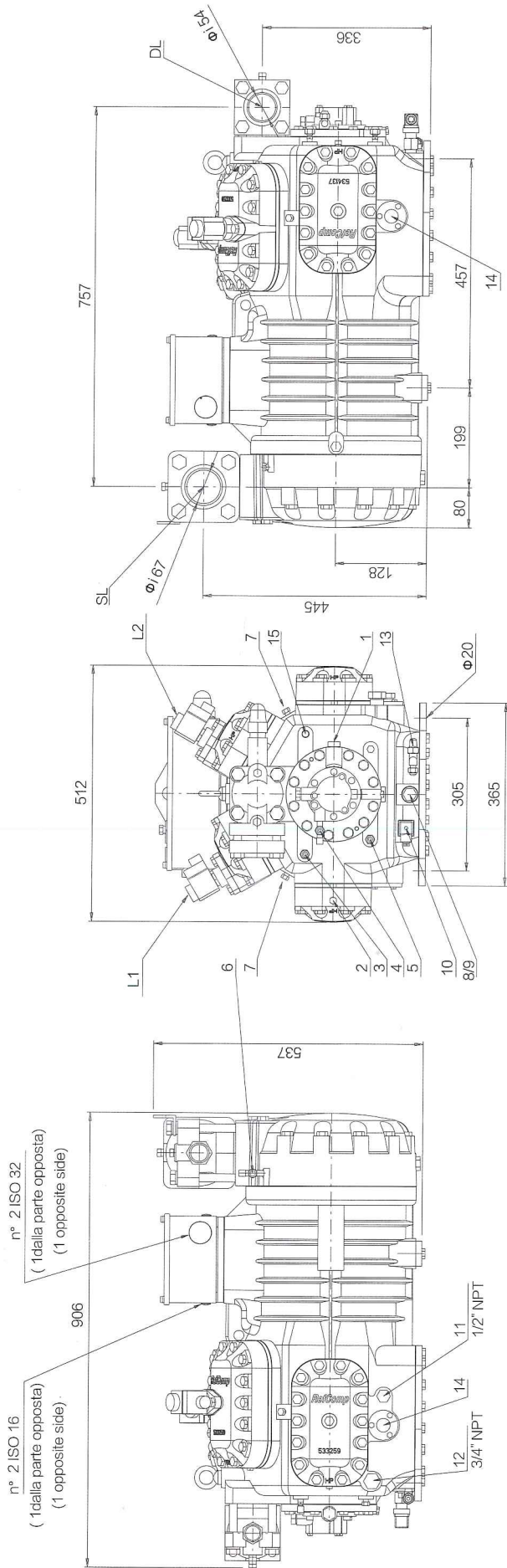
VISTA DALL' ALTO
 TOP VIEW

Legend

1	Electronic oil pressure switch connection
2	Discharge gas temperature sensor
3	High pressure connection 1/4"SAE-FLARE
4	Oil high pressure connection 1/4"SAE-FLARE
5	Oil low pressure connection 1/4"SAE-FLARE
6	Low pressure connection 1/8"INPT
7	Low pressure connection (Liquid injection) 1/8"INPT
8	Oil separator
9	Oil stainer plug
10	Crankcase heater
11	Oil equalization connection (parallel operation)
12	Gas equalization connection (parallel operation)
13	Oil charge connection 1/4"INPT

14	Oil sight glass
15	High pressure connection 1/4"INPT
(DL)	Discharge shut-off valve
(SL)	Suction shut-off valve
(L1)	Solenoid valve I
(L2)	Solenoid valve II

SP8H6000-SP8H600E-SP8H7000-SP8H700E
 SP8L5000-SP8L500E-SP8L6000-SP8L600E



Legend

1	Electronic oil pressure switch connection
2	Discharge gas temperature sensor 1/8"NPT
3	High pressure connection H.P. 1/4"SAE
4	Oil high pressure connection 1/4"SAE
5	Oil low pressure connection 1/4"SAE
6	Low pressure connection L.P. 1/8"NPT
7	Low pressure connection (Liquid injection) L.P. 1/8"NPT
8	Oil separator
9	Oil strainer plug
10	Crankcase heater
11	Oil equalization connection (parallel operation)
12	Gas equalization connection (parallel operation)
13	Oil charge connection 1/4"SAE (on request)

14	Oil sight glass
15	High pressure connection H.P. Needle valve interface
(DL)	Discharge shut-off valve
(SL)	Suction shut-off valve
(L1)	Solenoid valve I
(L2)	Solenoid valve II