

**RefComp**

SP系列  
半封闭活塞压缩机

17200001

RefComp · 意大利工厂

RefComp Italy S.R.L

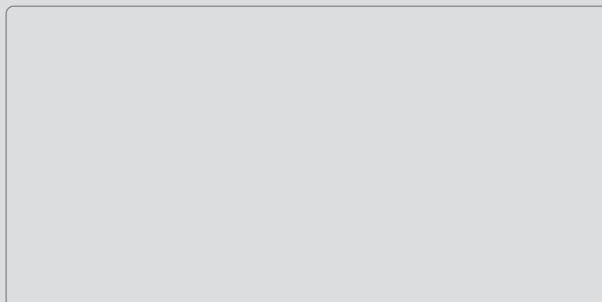
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经销商:



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**意大利RefComp**

世界著名螺杆压缩机与活塞压缩机品牌  
源自意大利的制冷压缩机专家



SP-1701-01

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## RefComp SP半封闭活塞压缩机结构图

RefComp SP 系列压缩机应用广泛，适用于各种商业制冷和工业制冷领域。

RefComp SP系列活塞压缩机共有34个型号，拥有2缸、4缸、6缸和8缸机机型，额定功率从3至70[HP]，对应的排气量范围从17.5至222[m³/h](当电源频率50[HZ]时)。

### 安全阀

- 机体内置安全阀，连接高压和低压侧，保证机体内的压力不超过安全值；
- 高规格的设计要求，密封可靠、准确开启、适时全开、稳定排放和及时回座，安全可靠。



### 机体

- 工作压力达28bar；
- 优化进气流道设计，进气阻力小，同时能充分冷却电机；中间直通气道，减小沿程损失；排气节流损失小，损耗低；
- 整机尺寸小，集过滤器、截止阀、温度传感器于机身一体，结构紧凑。



### 制冷量调节

- 根据满负荷或者部分负载工况选择不同的制冷量，控制电磁阀调节制冷量；
- 制冷量调节分为4缸机 50%制冷量级、6缸机 66%~33%制冷量级和8缸机 75%~50%制冷量级，最大限度地满足系统制冷量的需求。



### 曲轴、连杆、活塞

- 采用RefComp自行设计的曲轴配平衡块，运行平稳、振动小，润滑良好；
- 高效率、高强度、低振动、气流脉动和噪音低，采用新技术，达到同类机型国际最高水平；
- 最优化设计，提高压缩效率，有效运用在中低温制冷场合；
- 连杆活塞通过连接杆相连，连杆的小头内有耐磨的轴瓦，可以加长使用寿命。



### 电机保护

- INT69B2保护模块，保护电机不被烧毁。



### 截止阀

- 部分吸/排气截止阀可旋转360°，安装简单、紧凑和灵活。



### 吸气过滤器

- 内置高密度吸气过滤器，去除制冷气体中杂质并保护电机；
- 置于机体吸气端最外侧，结构紧凑、更换简便。



### 轴承

- 采用滑动轴承（轴瓦）、止推垫片组合配对，避免曲轴轴向/径向磨损，超高载荷、高精度超耐磨、低噪音；
- 高精密、高耐磨滑动体及良好的润滑，设计寿命达5~8万小时。



### 电机

- 采用部分绕组或者Y-△方式启动，启动电流小，运行能耗低；
- 根据不同区域的电压，设计多种运行电压和频率，满足各种电压需求；
- 特殊定制材料，能同时兼容R22、R407C、R134a、R404A、R507等多种制冷剂；
- 特殊的结构设计及空间布局，利用吸气截止阀至活塞吸气侧的过流制冷剂气体有效冷却电机。



## 型号说明

压缩机						SP	4	H	N	2000
						SP	4	L	F	080E
系列										
SP   半封闭活塞压缩机										
气缸数										
SP系列: 2-4-6-8										
压缩机类型										
H	高温压缩机									
L	低温压缩机									
油润滑方式 <sup>(1)</sup> (仅SP系列)										
F	压力润滑(带油泵)									
N	飞溅润滑(不带油泵)									
电机名义功率 HP X 100 <sup>(2)</sup>										

(1) 仅针对4缸型号: 10~20[HP]高温压缩机和6~12[HP]低温的压缩机

(2) 字母“E”结尾的型号表示用POE油的压缩机

## 技术参数

型号SP	H (高温压缩机)																	
	SP2H				SP4HF / SP4HN				SP4H				SP6H				SP8H	
	0500	0600	0800	0900	1000	1200	1500	2000	2200	2500	3000	3500	3700	4000	5000	6000	7000	
额定功率 [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	
排气量 [m³/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	
气缸数	2	2	2	2	4	4	4	4	4	4	4	4	4	6	6	8	8	
重量 [kg]	86	87	87	91	143	146	152	155	193	206	209	238	241	246	250	345	350	
注油量 [dm³]	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	5	5	5	
曲轴箱加热器	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]					
排气管内径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"	42- 1 5/8"	54 / 2"1/8"	54 / 2"1/8"		
吸气管内径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"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"		
能量调节	-	-	-	-	-	100, 50%	100, 50%	100, 50%	100, 50%	100, 50%	100, 50%	100, 50%	100, 50%	100, 50%	100, 50%	100, 50%		
标准电机	△230[V]/3/50[Hz]				400[V]/3/50[Hz]				400[V]/3/60[Hz] <sup>(1)</sup> P W				400[V]/3/50[Hz] - 460[V]/3/60[Hz] <sup>(1)</sup> P W				400[V]/3/50[Hz]	
启动电流 PW/DOL [A]	- / 54	- / 60	- / 85	- / 97	71 / 110	75 / 125	86 / 144	106 / 168	102 / 170	123 / 201	150 / 243	178 / 290	201 / 330	233 / 394	271 / 361	329 / 439	460[V]/3/60[Hz] <sup>(1)</sup> P W	
启动电流Y/D [A]	54 / -	60 / -	85 / -	97 / -	-	-	-	-	-	-	-	-	-	-	-	-	-	
最大运行电流 [A]	12	14	16	20	24	27	33	40	37	43	52	56	60	75	93	115	140	

型号SP	L (低温压缩机)																	
	SP2L				SP4LF / SP4LN				SP4L				SP6L				SP8L	
	0300	0400	0500	0600	0600	0800	1000	1200	1500	1800	2200	2500	2700	3000	4000	5000	6000	
额定功率 [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	
排气量 [m³/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	
气缸数	2	2	2	2	4	4	4	4	4	4	4	4	6	6	8	8	8	
重量 [kg]	84	85	85	86	134	139	144	146	182	186	195	220	230	236	247	340	345	
注油量 [dm³]	1.8	1.8	1.8	1.8	2.6	2.6	2.6	2.6	3.7	3.7	3.7	4.2	4.2	5	5	5	5	
曲轴箱加热器	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]					
排气管内径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"	42- 1 5/8"	54 / 2"1/8"	54 / 2"1/8"		
吸气管内径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"	35 / 1"3/8"	35 / 1"3/8"	42- 2 1/8"	42- 2 1/8"	42- 2 1/8"	54- 2 1/8"	54- 2 1/8"	54- 2 1/8"	67 / 2"5/8"	67 / 2"5/		

## 产品特点

在各个领域应用的灵活性

### SP系列

- SP系列压缩机不仅适用于R22制冷剂，而且在不需要更换任何机械零件的情况下。即可用于无氯制冷剂R407C、R134a、R404A和R507等。
- 专门为空调和中低蒸发温度制冷应用而开发设计的P系列压缩机，对于R134a制冷剂，其最高工作冷凝温度可达80°C；对于R22、R404A、R507制冷剂，其最低工作蒸发温度可达-40°C。
- 可提供两种规格的压缩机：高温压缩机(H)(用于空调系统)和低温压缩机(L)(用于冷冻系统)。

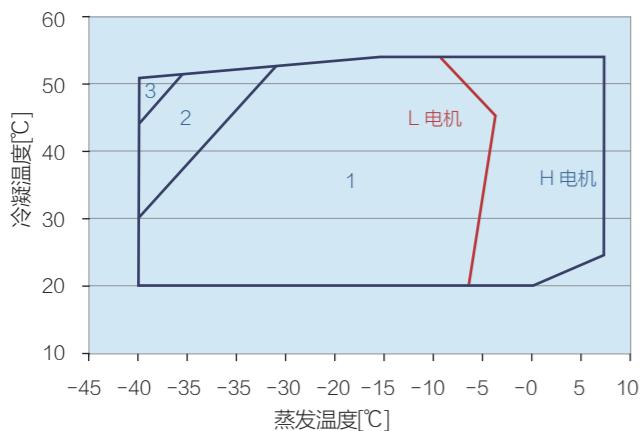
高效率；优化的润滑；可靠且运转安全；

噪音低，运转平稳；

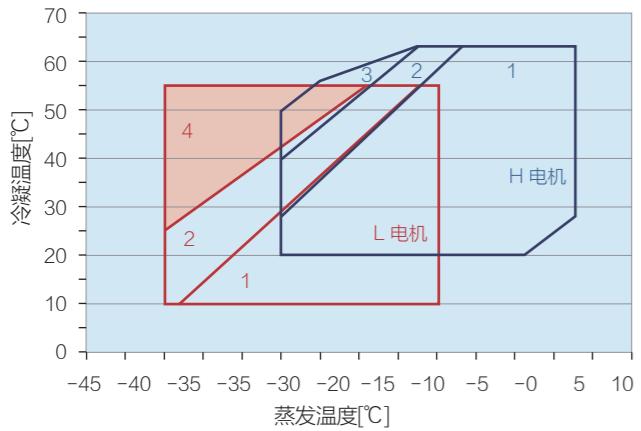
结构紧凑，安装简便；易于维护

## 应用范围

### SP系列：R404A-R507 应用范围



### SP系列：R22 应用范围



满负荷运行应用范围

1 = 标准应用范围 ([25°C]吸气温度)

2 = 附加冷却应用范围

3 = 需附加冷却+最大[20]吸气过热度的应用范围

4 = 需附加冷却+喷液冷却LCM的应用范围 (不适用于8缸型号SP8H……SP8L)

## 性能参数 (SP-H, 制冷剂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	-	-
-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			
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## 性能参数 (SP-H, 制冷剂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							

## 性能参数 (SP-L, 制冷剂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	-	-	

## 性能参数 (SP-H, 制冷剂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
<

## 性能参数 (SP-L, 制冷剂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	

## 性能参数 (SP-H, 制冷剂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	

## 性能参数 (SP-L, 制冷剂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	

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			

## 性能参数 (SP-L, 制冷剂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

|<th colspan="9
|  |

## 性能参数 ( SP-H, 制冷剂R404A-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	

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## 性能参数 ( SP-L, 制冷剂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

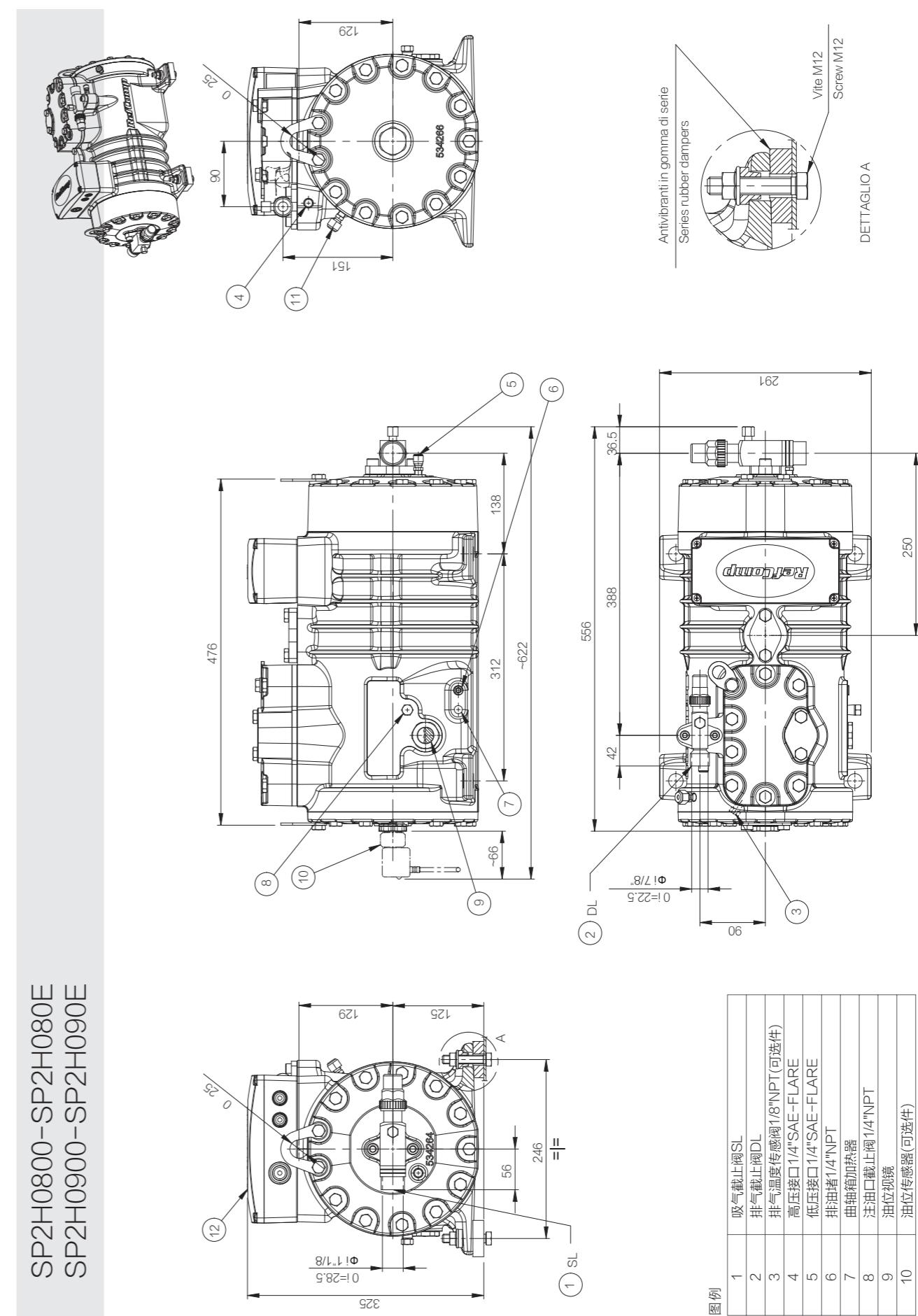
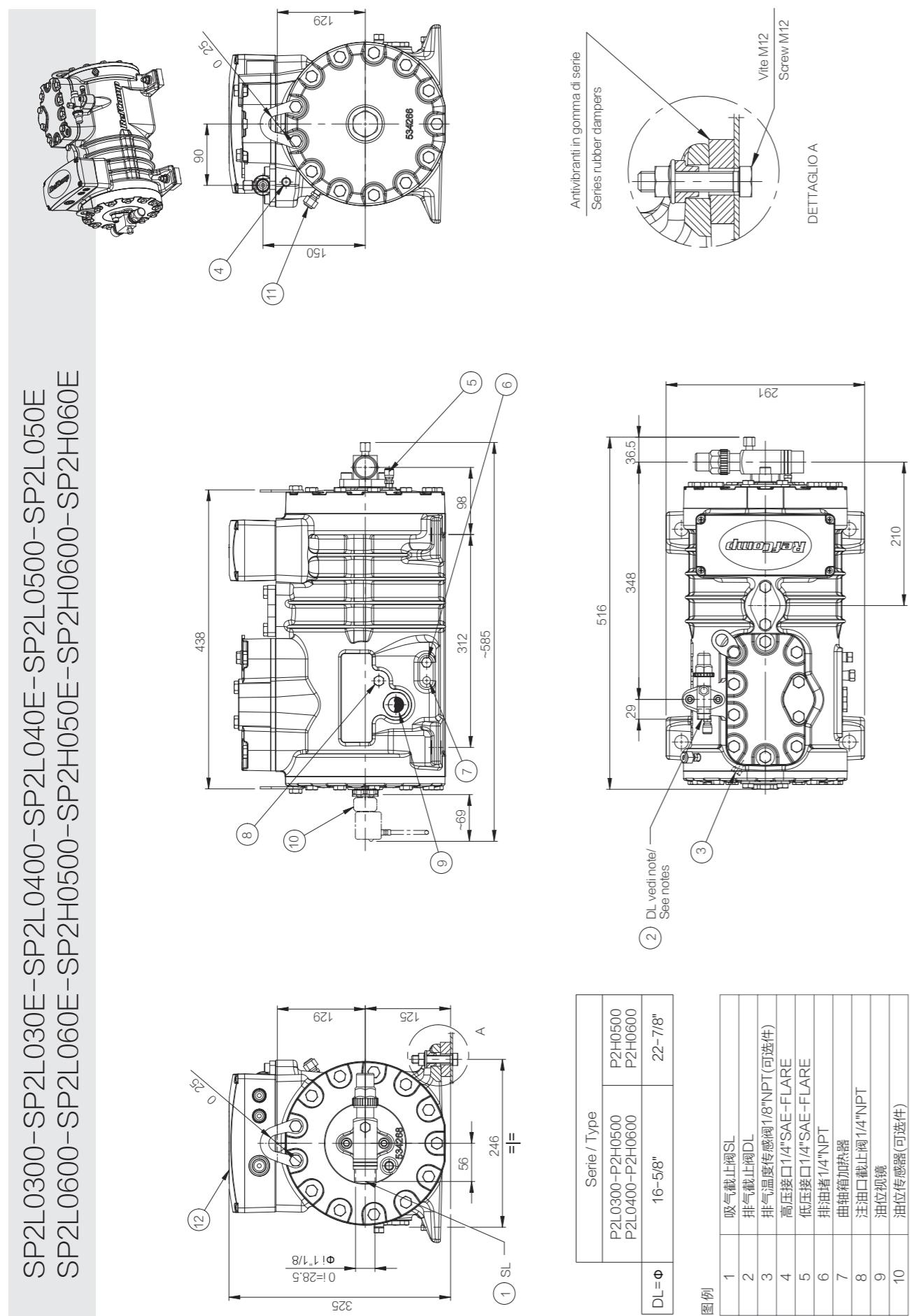
SP6-L-270E								
Tc	30		40		50		54	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	16.7	10.9	12.8	10.8	8.8	10.6	-	-
-35	22.3	12.9	17.3	13.3	12.2	13.5	-	-
-30	29.4	14.9	23.4	15.7	17.2	16.4	15.9	16.6
-25	38.2	16.9	31.1	18.0	23.7	19.2	22.3	19.5
-20	48.6	18.7	40.3	20.3	31.8	22.0	30.1	22.3
-15	60.6	20.5	51.1	22.6	41.5	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

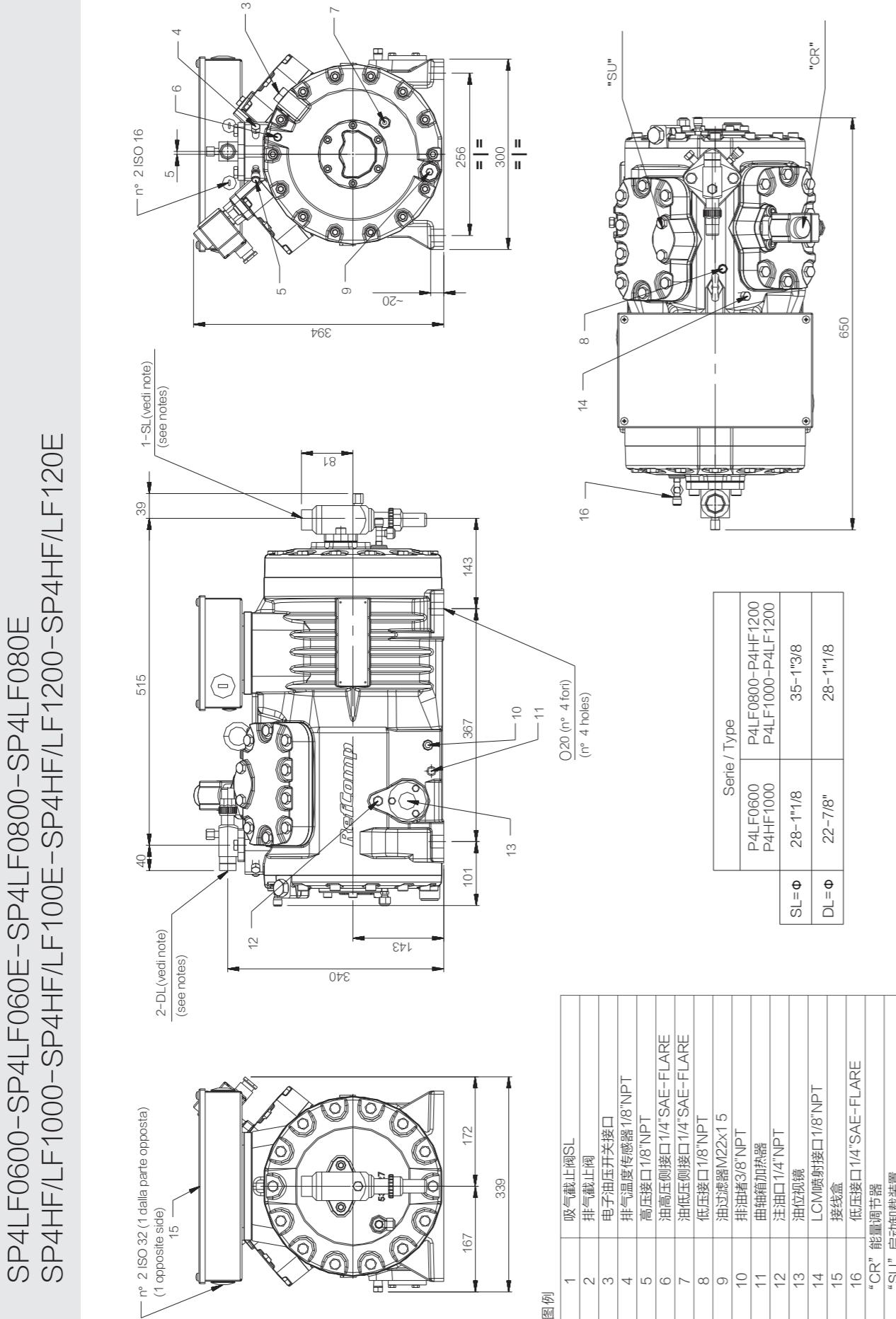
SP6-L-300E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	19.2	12.5	14.8	12.4	10.1	12.2	-	-
-35	25.6	14.9	19.9	15.2	14.0	15.6	-	-
-30	33.8	17.2	26.9	18.0	19.8	18.9	18.3	19.0
-25	43.9	19.4	35.7	20.7	27.3	22.1	25.6	22.4
-20	55.8	21.5	46.3	23.4	36.6	25.3	34.6	25.7
-15	69.6	23.6	58.8	25.9	47.7	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

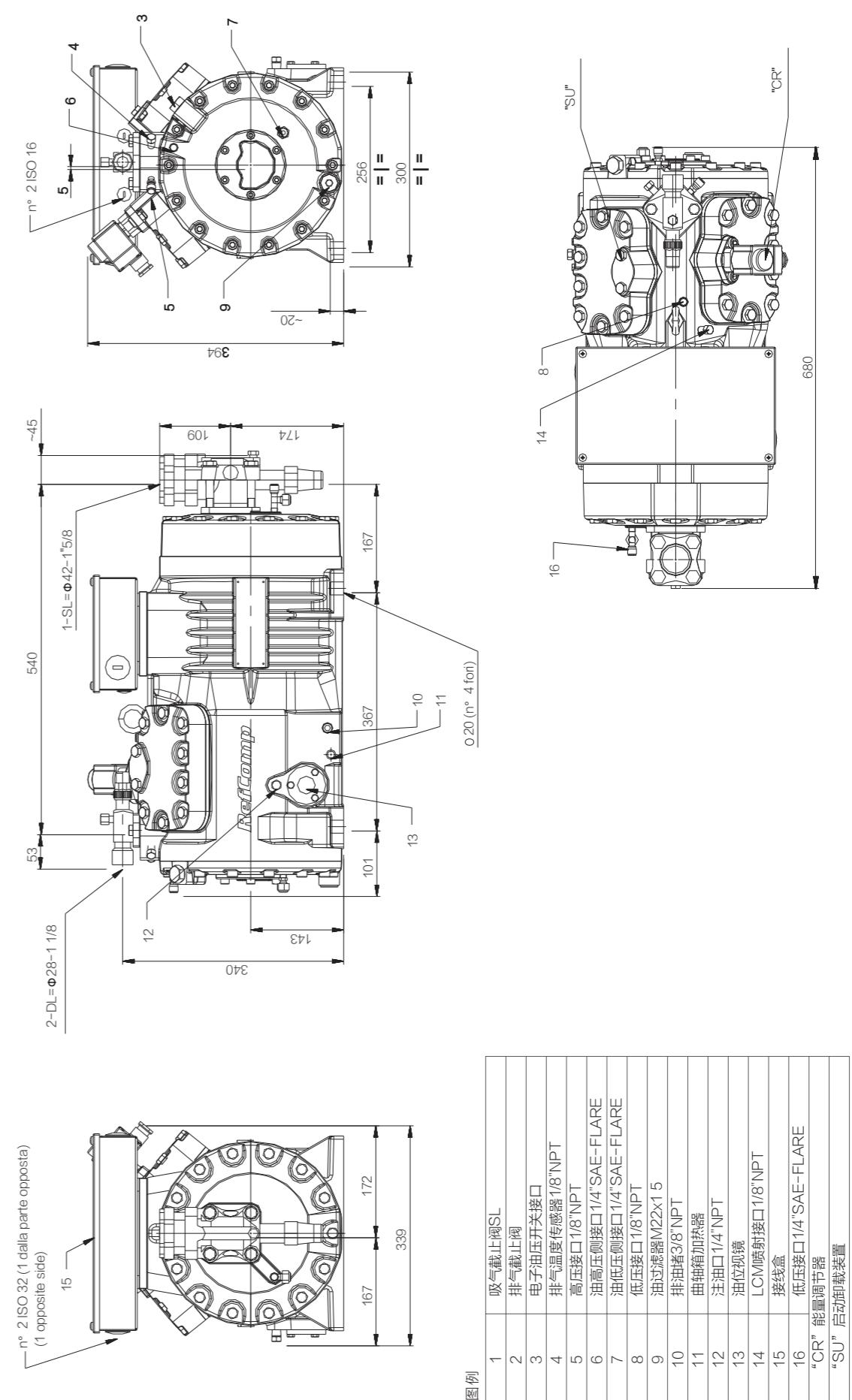
SP8-L-500E								
Tc	30		40		50		52	
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa
-40	34.8	20.6	17.6	18.5	9.2	15.8	-	-
-35	43.8	22.8	26.6	21.6	17.3	19.7	-	-
-30	54.7	25.5	37.1	25.2	26.5	24.2	24.8	23.6
-25	67.8	28.4	49.4	29.1	37.2	29.1	35.0	28.8
-20	83.4	31.4	63.9	33.2	49.7	34.3	47.1	34.2
-15	101.9	34.2	81.0	37.3	64.5	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</th								

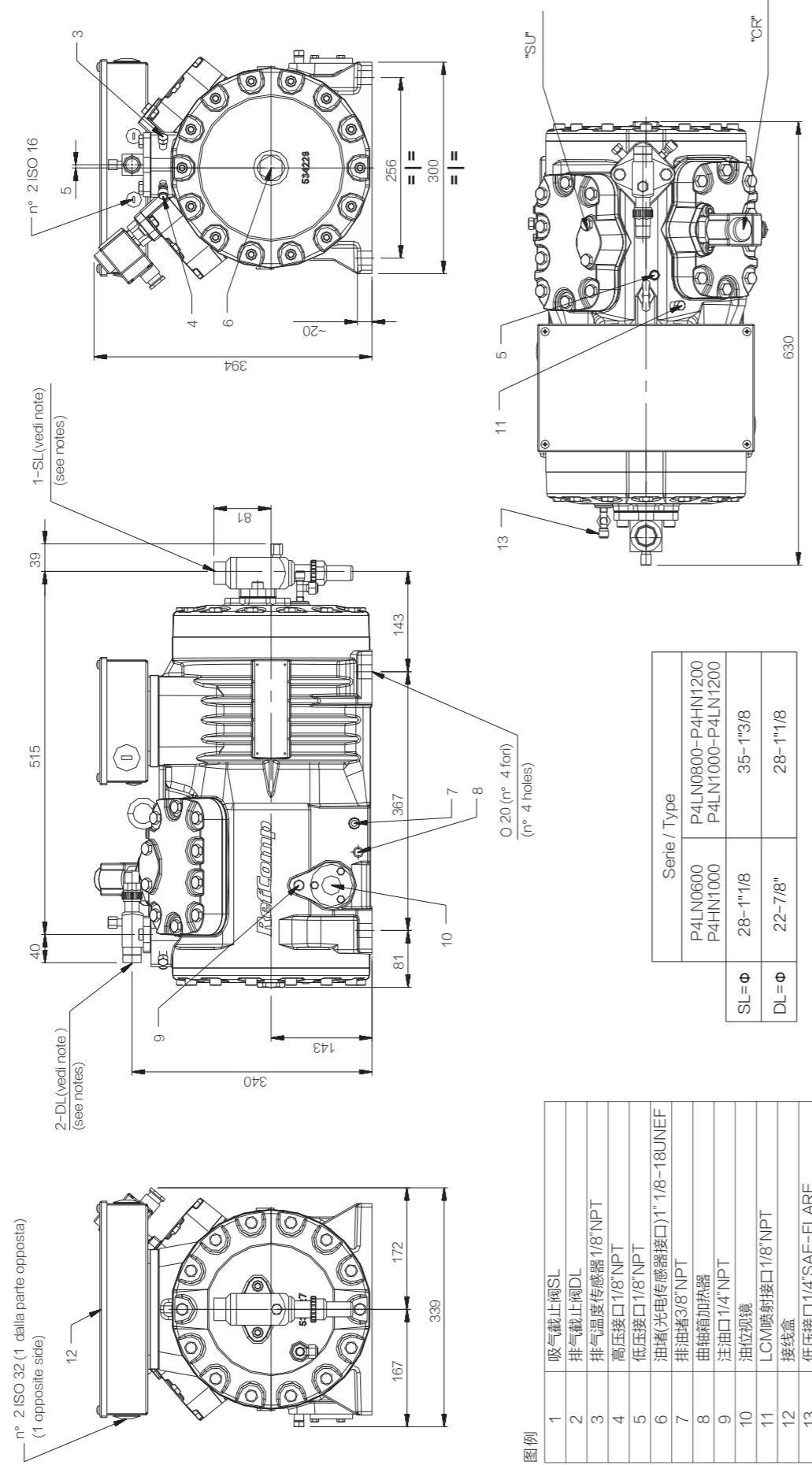




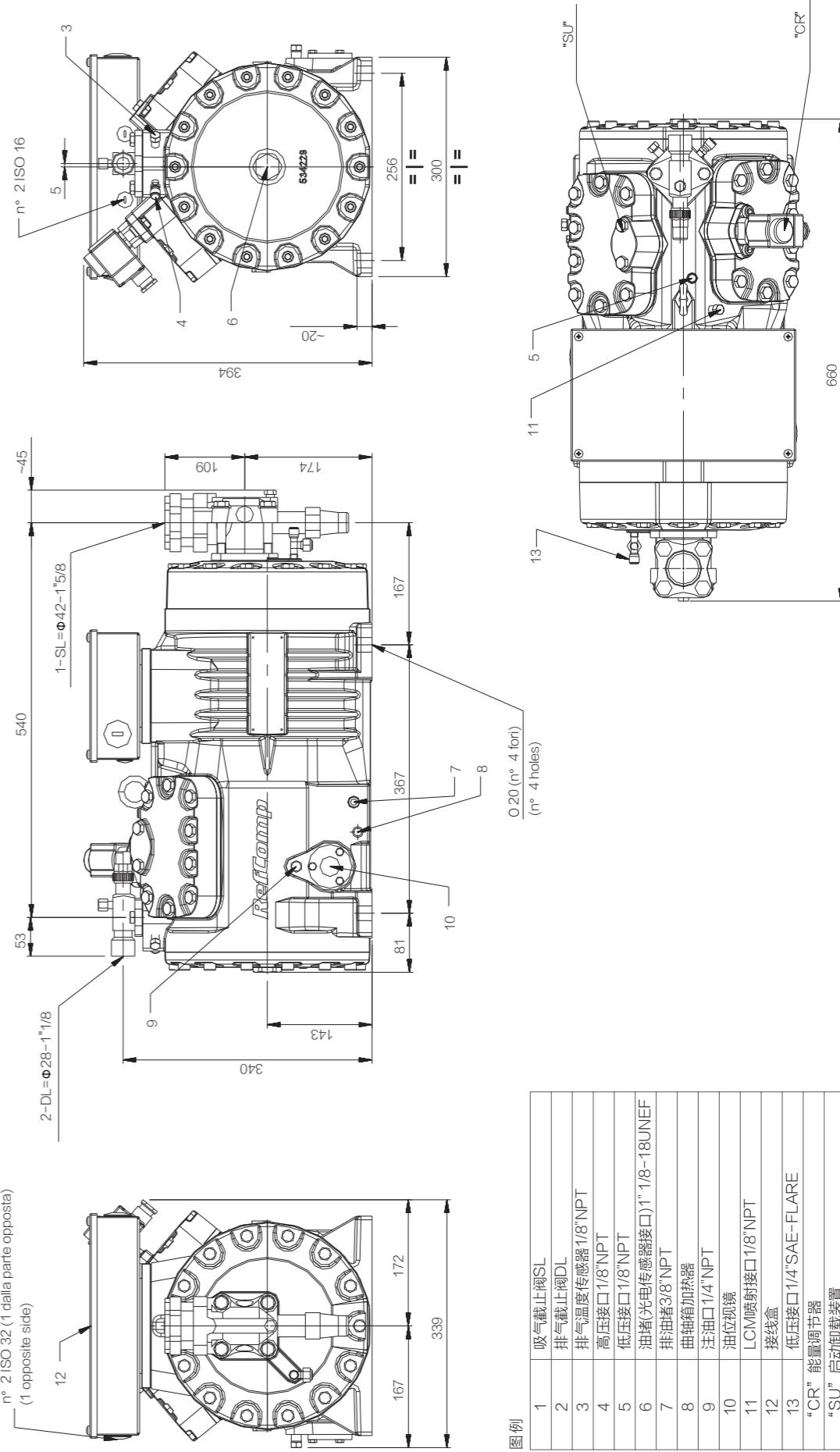
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SP4HF2000-SP4HF200E**



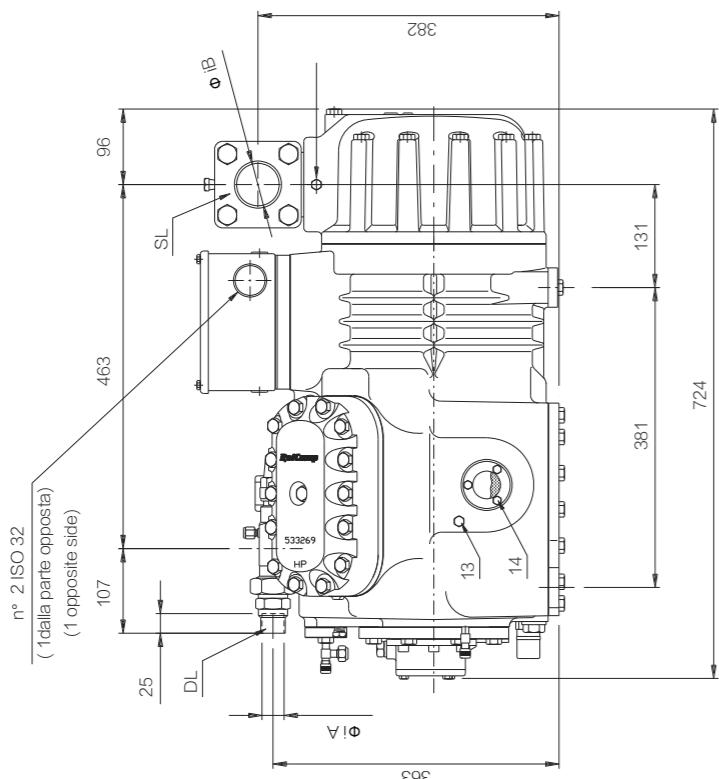
SP4LN0600-SP4LN060E-SP4LN0800-SP4LN080E  
SP4HN/LN1000-SP4HN/LN100E-SP4HN/LN1200-SP4HN/LN120E



### SP4HN1500-SP4HN150E SP4HN2000-SP4HN200E

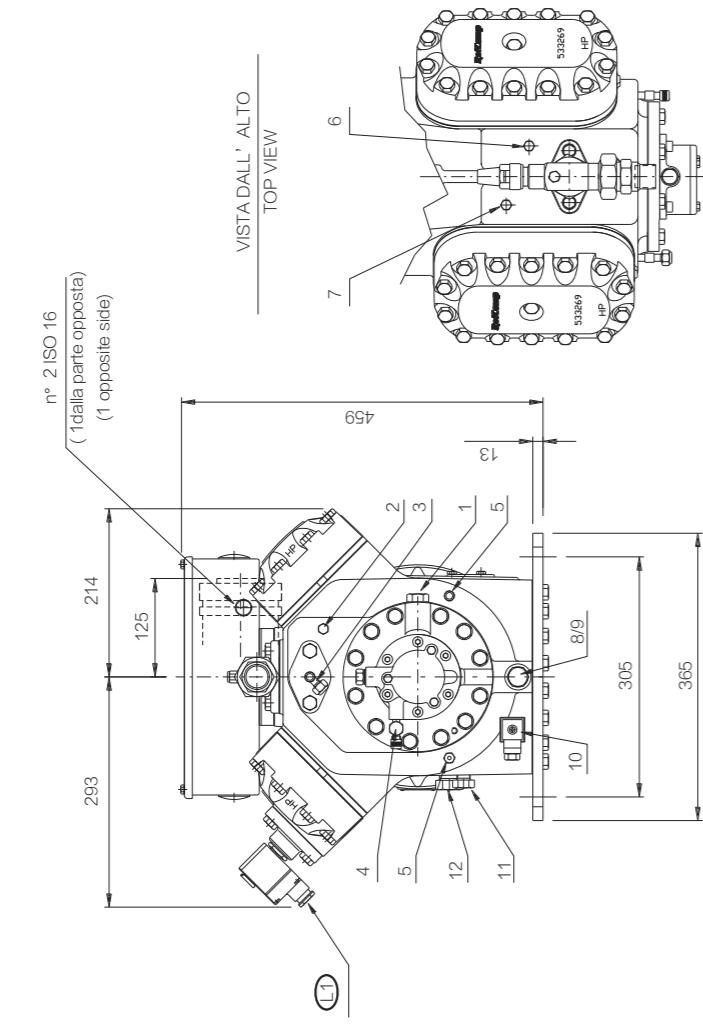


SP4L1500...SP4L2500-SP4L150E...SP4L250E  
SP4H2200...SP4H3500-SP4H220E...SP4H350E



图例

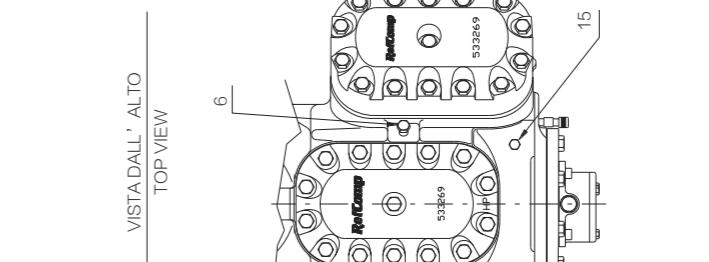
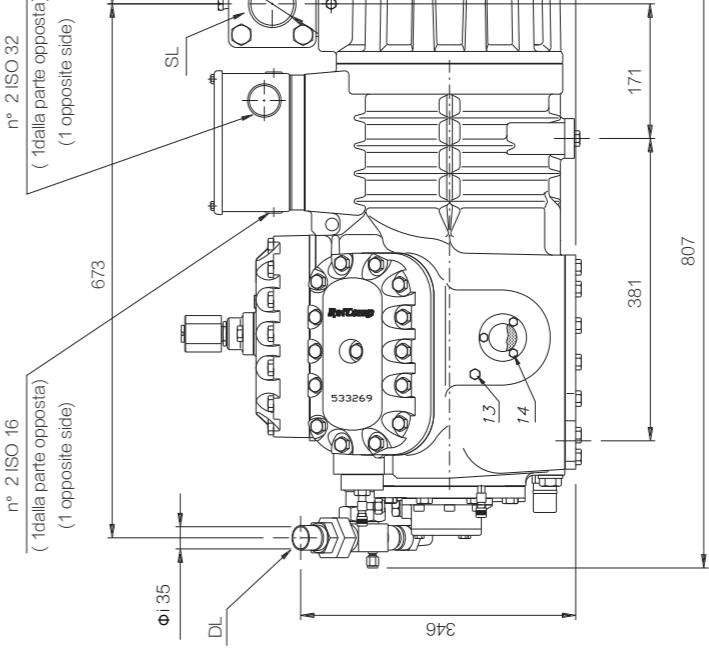
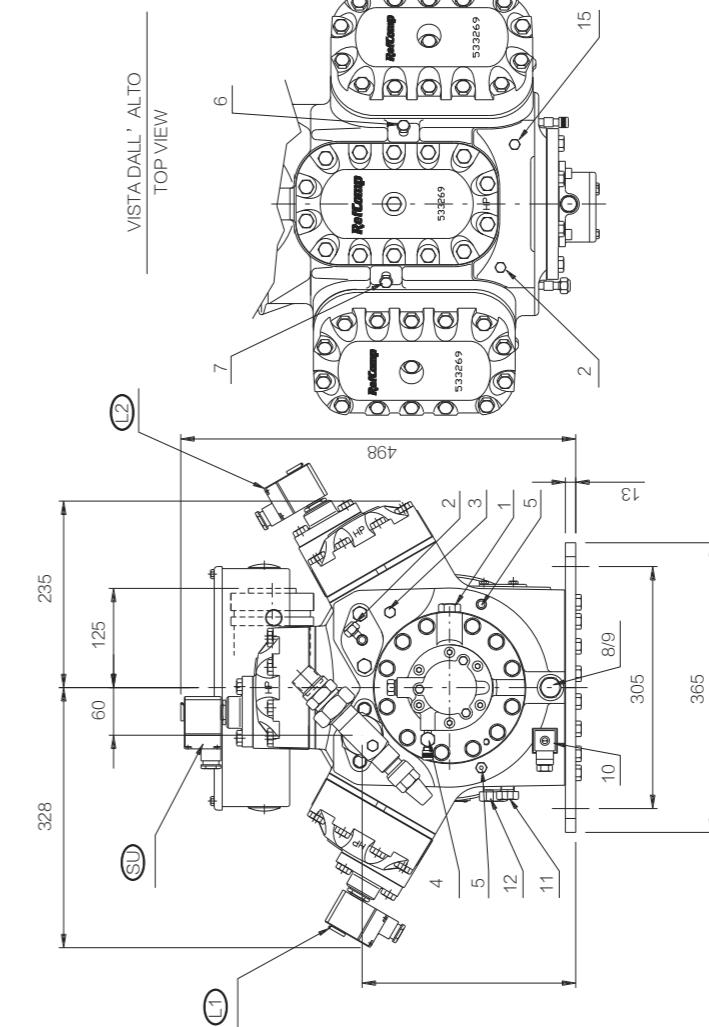
1	电子油压开关接口
2	排气温度传感器
3	高压接口 1/4"SAE..FLARE
4	油高压侧接口 1/4"SAE..FLARE
5	油低压侧接口 1/4"SAE..FLARE
6	油高压侧接口 1/8"NPT
7	油低压侧接口 1/8"NPT (液体喷射)
8	油过滤器
9	抽油嘴
10	曲轴箱加热器
11	油平衡接口(并联运行)
12	气平衡接口(并联运行)
13	注油口 1/4"NPT
14	油位视镜
15	高压截止阀
(DL)	排气截止阀
(SL)	吸气截止阀
(L1)	电磁阀 第1级
(L2)	电磁阀 第2级
(SU)	启动卸载电磁阀



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

图例

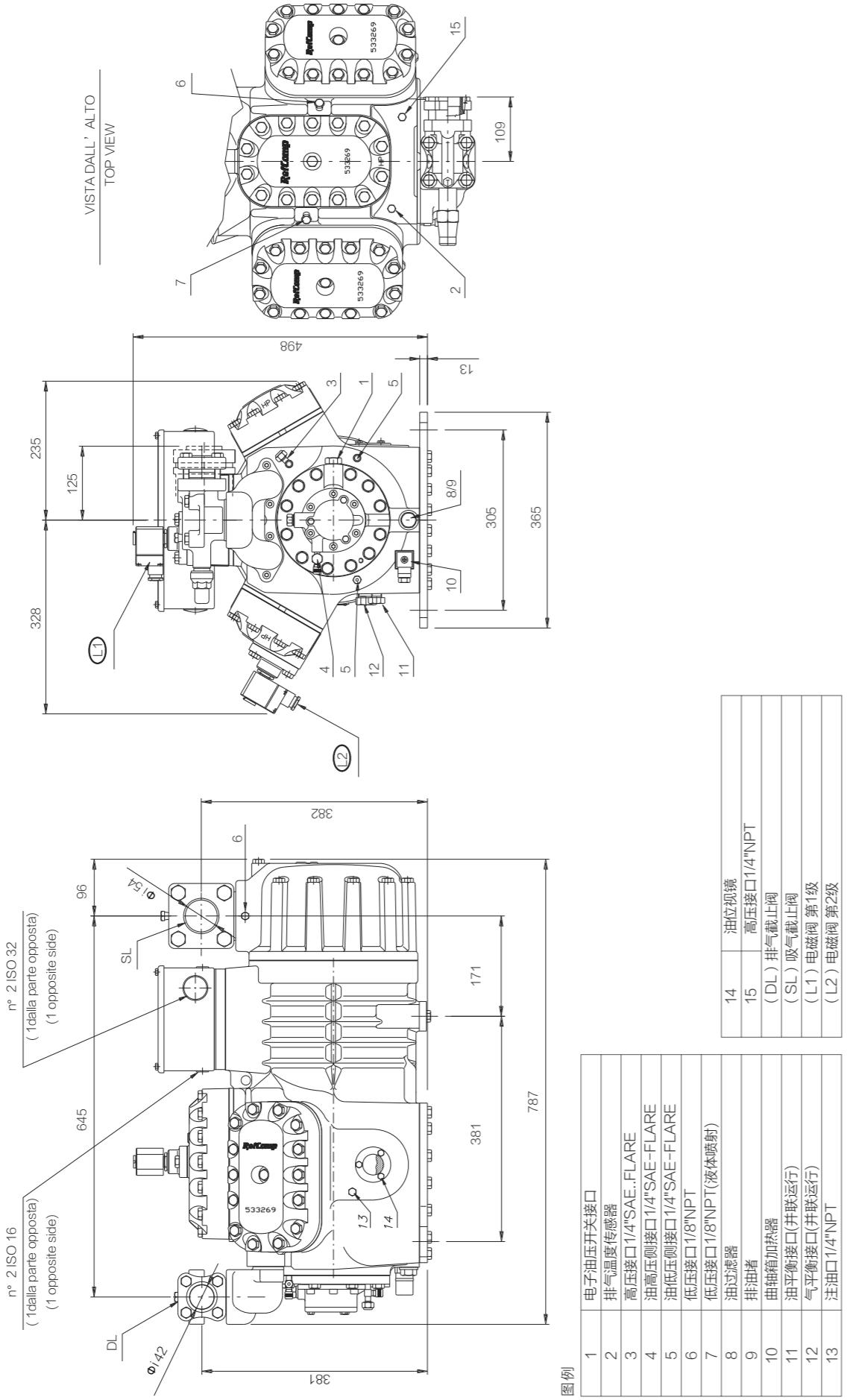
SP6L2700-SP6L270E-SP6L3000-SP6L300E  
SP6H3700-SP6H370E-SP6H4000-SP6H400E



图例

1	电子油压开关接口
2	排气温度传感器
3	高压接口 1/4"SAE..FLARE
4	油高压侧接口 1/4"SAE..FLARE
5	油低压侧接口 1/8"NPT
6	油平衡接口 1/8"NPT
7	气平衡接口 1/8"NPT (液体喷射)
8	油过滤器
9	抽油嘴
10	曲轴箱加热器
11	油平衡接口(并联运行)
12	气平衡接口(并联运行)
13	注油口 1/4"NPT
14	油位视镜
15	高压接口 1/4"NPT
(DL)	排气截止阀
(SL)	吸气截止阀
(L1)	电磁阀 第1级
(L2)	电磁阀 第2级
(SU)	启动卸载电磁阀

SP6L4000-SP6L400E  
SP6H5000-SP6H500E



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

