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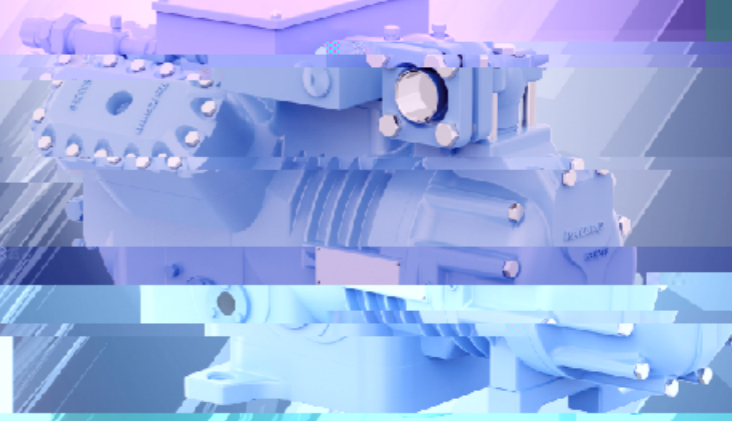
Reciprocating Compressor

SPM 系列半封闭船用活塞压缩机

雪人集团
SNOWMAN GROUP

商用活塞
先进技术

源自意大利，先进的螺杆 & 活塞后处理技术



全球统一服务热线
400-109-6660

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SPM系列半封闭船用活塞压缩机结构图

SPM系列压缩机是绝对针对船舶应用开发，压缩机的储油与供油机构经过特殊设计，可以保证船舶在航行过程中发生倾斜和摇摆时，压缩机润滑油供油系统的可靠性，能保证油泵正常供油。SPM系列压缩机有4缸、6缸两种机型共14种型号，排量范围64.7~154.4 m³/h，功率范围15~50HP，广泛应用于船舶空调、船用除湿、船用制冰等领域。

机体

设计压力达25bar，专为船里领域开发，结构紧凑，重量轻，体积小，适应各种

恶劣的船舶环境。

如以船舶空调系统、船用除湿、船用制冰等系统，制冷量范围10~150kW。

安全阀

制冷量调节

1

2

3 4 5 6

7 8 9 10

11

12

13 14

过载保护

数显屏

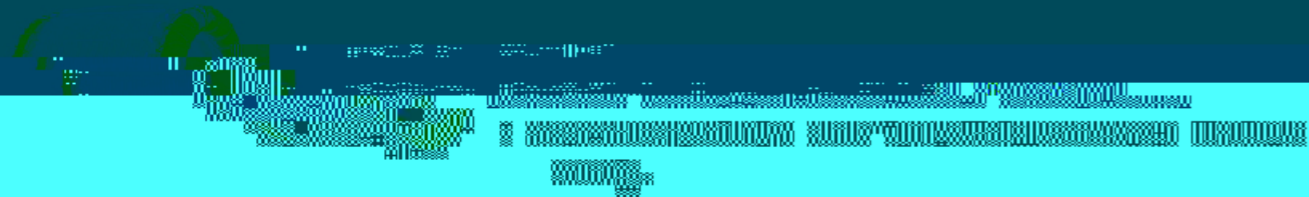
压缩机

吸气过滤器

油槽

曲轴、连杆活塞

电机



型号说明

技术参数

压缩机	SPM	6	H	5000
	SPM	4	L	180E

型号	SPM4H				SPM6H		
	2200	2500	3000	3500	3700	4000	5000
	220E	250E	300E	350E	370E	400E	500E

压缩机系列

SPM11系列带油润滑透雾压缩机

压缩机缸数

电机类型

电机名义功率 HP/A 100

压缩机名义功率	HP/kW	22/16.4	25/18.7	30/22.4	35/26.1	37/27.6	40/29.9	50/37.3
排气量 50/60Hz	m ³ /hr	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
压缩缸缸数		4	4	4	4	6	6	6
重量	kg	206	218	227	251	254	258	263

产品特点

优化的储油及供油设计

专为船舶使用开发的SPM系列半封闭式压缩机，特殊设计的储油与供油机构，可以保证船舶在行驶过程中倾斜和摇摆时，油液取用顺畅，可靠性较高。

制冷剂通用性

通用R407C、R134a、R404A和R507A等HFC 无氟制冷剂。

广泛的温区

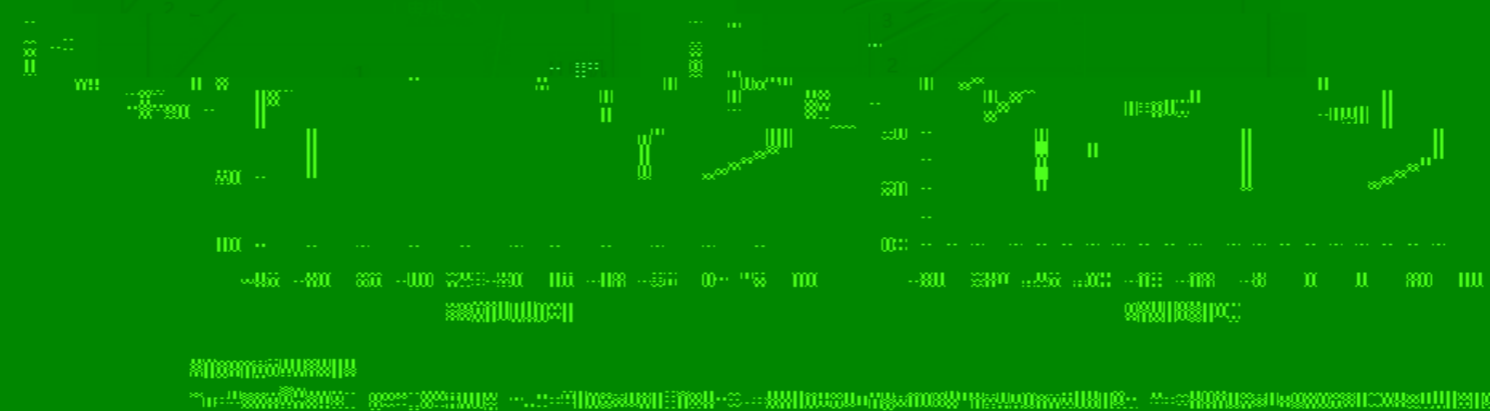
对于R134a制冷剂，工作温度范围可达-40℃~100℃；对于R404A、R507A制冷剂，工作温度范围

性能参数 (SPM*H, 制冷剂R407C)

*SPMWR22Gc									*SPMWR23Gc								
Tc	30		40		50		58		Tc	30		40		50		58	
Te	PI	Pa	PI	Pa	PI	Pa	PI	Pa	Te	PI	Pa	PI	Pa	PI	Pa	PI	Pa
-25	15.9	7.2	12.5	8.2	10.3	9.0	-	-	-25	18.5	8.4	14.6	9.5	12.0	10.4	-	-
-20	21.0	8.1	17.0	9.4	13.9	10.4	-	-	-20	24.3	9.4	19.7	10.9	16.1	12.1	-	-
-15	27.6	9.0	22.9	10.4	18.8	11.8	-	-	-15	32.0	10.4	26.5	12.1	21.8	13.7	-	-
-10	35.7	9.8	30.0	11.4	24.4	12.8	-	-	-10	40.0	11.4	34.4	13.1	28.8	14.7	-	-
-5	45.3	10.3	39.0	12.2	32.8	14.2	28.0	15.9	-5	50.5	12.0	43.8	14.2	38.1	16.3	32.5	18.4
0	56.4	10.9	49.3	13.0	42.1	15.3	36.1	17.2	0	63.4	12.6	57.2	15.0	49.9	17.7	41.9	20.0
5	69.1	11.3	61.1	13.8	52.7	16.2	45.6	18.5	5	80.1	13.1	73.9	15.8	61.1	18.9	52.9	21.4
10	82.3	11.6	74.4	14.1	64.7	17.0	55.5	19.7	10	96.8	13.5	86.3	16.4	75.1	19.8	65.5	22.8

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SPMWR22Gc							SPMWR23Gc								
Te	PI	Pa	PI	Pa	PI	Pa	Te	PI	Pa	PI	Pa	PI	Pa	PI	Pa
-25	15.9	7.2	12.5	8.2	10.3	9.0	-25	18.5	8.4	14.6	9.5	12.0	10.4	-	-
-20	21.0	8.1	17.0	9.4	13.9	10.4	-20	24.3	9.4	19.7	10.9	16.1	12.1	-	-
-15	27.6	9.0	22.9	10.4	18.8	11.8	-15	32.0	10.4	26.5	12.1	21.8	13.7	-	-
-10	35.7	9.8	30.0	11.4	24.4	12.8	-10	40.0	11.4	34.4	13.1	28.8	14.7	-	-
-5	45.3	10.3	39.0	12.2	32.8	14.2	-5	50.5	12.0	43.8	14.2	38.1	16.3	32.5	18.4
0	56.4	10.9	49.3	13.0	42.1	15.3	0	63.4	12.6	57.2	15.0	49.9	17.7	41.9	20.0
5	69.1	11.3	61.1	13.8	52.7	16.2	5	80.1	13.1	73.9	15.8	61.1	18.9	52.9	21.4
10	82.3	11.6	74.4	14.1	64.7	17.0	10	96.8	13.5	86.3	16.4	75.1	19.8	65.5	22.8

性能参数 (SPM-L, 制冷剂R470C)

性能参数 (SPM-H, 制冷剂R134a)

SPM4L150E											SPM4L180E											SPM4H220E											SPM4H250E																																										
Tc		30			40			50			54		Tc		30			40			50			54		Tc		40			50			60			70		Tc		40			50			60			70																									
Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	Te	Pf	Pa	Pf	Pa	Pf	Pa	Pf	Pa	Te	Pf	Pa	Pf	Pa	Pf	Pa	Te	Pf	Pa	Pf	Pa	Pf	Pa																															
-20	19.9	7.2	12.5	8.2	10.3	9.0	-	-	-	-	-25	18.5	8.4	14.6	9.5	12.0	10.4	-	-	-	-	-20	11.7	5.6	10.0	5.7	8.4	5.8	6.9	5.7	-20	13.6	6.5	11.6	6.6	9.7	6.7	8.0	6.7	-15	15.7	6.3	13.4	6.6	11.3	6.8	9.3	6.9	-15	18.2	7.3	15.6	7.7	13.1	7.9	10.8	8.0	-10	20.7	7.1	17.8	7.6	15.1	7.9	12.5	8.0	-10	24.0	8.3	20.6	8.8	17.5	9.1	14.5	9.3
10.8			12.5	8.2	10.3	9.0					10.8			14.6	9.5	12.0	10.4					10.8			10.0	5.7	8.4	5.8	6.9	5.7	10.8			11.6	6.6	9.7	6.7	8.0	6.7	10.8			13.4	6.6	11.3	6.8	9.3	6.9	10.8			15.6	7.7	13.1	7.9	10.8	8.0																		
12.3			12.5	8.2	10.3	9.0					12.3			14.6	9.5	12.0	10.4					12.3			10.0	5.7	8.4	5.8	6.9	5.7	12.3			11.6	6.6	9.7	6.7	8.0	6.7	12.3			13.4	6.6	11.3	6.8	9.3	6.9	12.3			15.6	7.7	13.1	7.9	10.8	8.0																		
13.9			12.5	8.2	10.3	9.0					13.9			14.6	9.5	12.0	10.4					13.9			10.0	5.7	8.4	5.8	6.9	5.7	13.9			11.6	6.6	9.7	6.7	8.0	6.7	13.9			13.4	6.6	11.3	6.8	9.3	6.9	13.9			15.6	7.7	13.1	7.9	10.8	8.0																		
15.6			12.5	8.2	10.3	9.0					15.6			14.6	9.5	12.0	10.4					15.6			10.0	5.7	8.4	5.8	6.9	5.7	15.6			11.6	6.6	9.7	6.7	8.0	6.7	15.6			13.4	6.6	11.3	6.8	9.3	6.9	15.6			15.6	7.7	13.1	7.9	10.8	8.0																		
			12.5	8.2	10.3	9.0								14.6	9.5	12.0	10.4									10.0	5.7	8.4	5.8	6.9	5.7			11.6	6.6	9.7	6.7	8.0	6.7			13.4	6.6	11.3	6.8	9.3	6.9			15.6	7.7	13.1	7.9	10.8	8.0																				
			12.5	8.2	10.3	9.0								14.6	9.5	12.0	10.4									10.0	5.7	8.4	5.8	6.9	5.7			11.6	6.6	9.7	6.7	8.0	6.7			13.4	6.6	11.3	6.8	9.3	6.9			15.6	7.7	13.1	7.9	10.8	8.0																				
			12.5	8.2	10.3	9.0								14.6	9.5	12.0	10.4									10.0	5.7	8.4	5.8	6.9	5.7			11.6	6.6	9.7	6.7	8.0	6.7			13.4	6.6	11.3	6.8	9.3	6.9			15.6	7.7	13.1	7.9	10.8	8.0																				
			12.5	8.2	10.3	9.0								14.6	9.5	12.0	10.4									10.0	5.7	8.4	5.8	6.9	5.7			11.6	6.6	9.7	6.7	8.0	6.7			13.4	6.6	11.3	6.8	9.3	6.9			15.6	7.7	13.1	7.9	10.8	8.0																				
			12.5	8.2	10.3	9.0								14.6	9.5	12.0	10.4									10.0	5.7	8.4	5.8	6.9	5.7			11.6	6.6	9.7	6.7	8.0	6.7			13.4	6.6	11.3	6.8	9.3	6.9			15.6	7.7	13.1	7.9	10.8	8.0																				
			12.5	8.2	10.3	9.0								14.6	9.5	12.0	10.4									10.0	5.7	8.4	5.8	6.9	5.7			11.6	6.6	9.7	6.7	8.0	6.7			13.4	6.6	11.3	6.8	9.3	6.9			15.6	7.7	13.1	7.9	10.8	8.0																				
			12.5	8.2	10.3	9.0								14.6	9.5	12.0	10.4									10.0	5.7	8.4	5.8	6.9	5.7			11.6	6.6	9.7	6.7	8.0	6.7			13.4	6.6	11.3	6.8	9.3	6.9			15.6	7.7	13.1	7.9	10.8	8.0																				
			12.5	8.2	10.3	9.0								14.6	9.5	12.0	10.4									10.0	5.7	8.4	5.8	6.9	5.7			11.6	6.6	9.7	6.7	8.0	6.7			13.4	6.6	11.3	6.8	9.3	6.9			15.6	7.7	13.1	7.9	10.8	8.0																				
			12.5	8.2	10.3	9.0								14.6	9.5	12.0	10.4									10.0	5.7	8.4	5.8	6.9	5.7			11.6	6.6	9.7	6.7	8.0	6.7			13.4	6.6	11.3	6.8	9.3	6.9			15.6	7.7	13.1	7.9	10.8	8.0																				
			12.5	8.2	10.3	9.0								14.6	9.5	12.0	10.4									10.0	5.7	8.4	5.8	6.9	5.7			11.6	6.6	9.7	6.7	8.0	6.7			13.4	6.6	11.3	6.8	9.3	6.9			15.6	7.7	13.1	7.9	10.8	8.0																				
			12.5	8.2	10.3	9.0								14.6	9.5	12.0	10.4									10.0	5.7	8.4	5.8	6.9	5.7			11.6	6.6	9.7	6.7	8.0	6.7			13.4	6.6	11.3	6.8	9.3	6.9			15.6	7.7	13.1	7.9	10.8	8.0																				



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性能参数 (SPM*I, 制冷剂R134a)

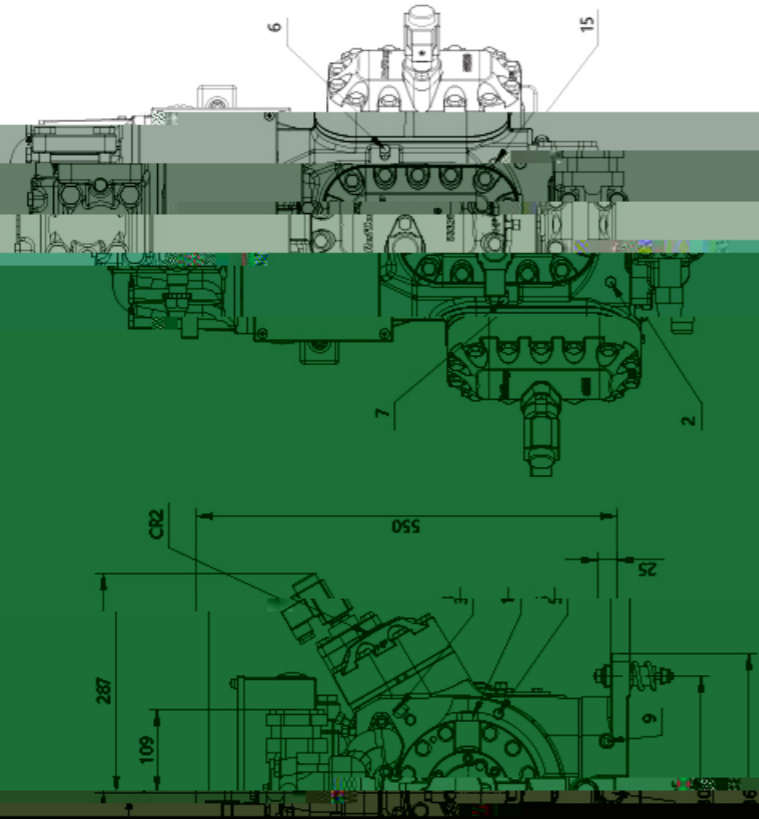
性能参数 (SPM*H, 制冷剂R404A, R507A)

SPM4L150E				
T _c	30	40	50	60

SPM4L180E				
T _c	30	40	50	60

SPM4H220E				
T _c	30	40	50	55

SPM4H250E				
T _c	30	40	50	55



3D CAD MODEL

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