

SEMI HERMETIC SCREW COMPRESSOR PERFORMANCE DATA 半封闭螺杆压缩机

R404A/R507A

Watt (50Hz 380V)

Model 型号	N. M. P ② 名义功率 [hp]	C. T ③ 冷凝温度 [° C]	↓	Cooling Capacity 制冷量 Q [W] Power Consumption P 功耗 [kW] ①								
				Evaporating Temperature 蒸发温度 [° C]								
				7.5	5	0	-5	-10	-15	-20	-25	-30
SM-015-C1	15	30	Q	58950	53200	44500	37510	30100	24100	18900		
			P	13.40	12.80	12.10	11.50	11.00	10.60	10.00		
		40	Q	52250	47500	39600	32600	26500	21600	16900		
			P	20.50	19.90	19.30	18.70	18.00	17.50	17.00		
		50	Q	45350	41280	34550	28950	23600	18500	14600		
			P	24.60	24.00	23.60	23.00	22.60	22.10	21.60		
SM-020-C1	20	30	Q	67350	61980	51850	42980	35680	28900	23800		
			P	15.30	14.70	14.00	13.60	13.00	12.50	12.10		
		40	Q	60500	55360	45320	38520	32100	26100	19000		
			P	22.30	21.80	21.00	20.50	20.10	19.60	19.00		
		50	Q	52500	48950	41230	26750	27150	22100	17300		
			P	26.50	26.00	25.70	25.10	24.60	24.20	23.70		
SM-030-C1	30	30	Q	103900	95000	79100	65400	53700	43600	35050		
			P	19.92	19.58	18.94	18.35	17.81	17.32	16.88		
		40	Q	89400	81600	67700	55700	45400	36650	29200		
			P	23.50	23.20	22.50	22.00	21.50	21.00	20.60		
		50	Q	74000	67400	54000	45150	36450	29000	22750		
			P	28.40	28.10	27.50	27.00	26.40	25.90	25.30		
SM-040-C1	40	30	Q	146700	134400	112200	93000	76400	62300	50200		
			P	27.00	26.60	25.80	25.00	24.30	23.60	23.00		
		40	Q	127300	116400	96700	79700	65100	52700	42050		
			P	32.20	31.80	31.00	30.30	29.60	28.90	28.30		
		50	Q	106100	96600	79700	65100	52700	42050	33050		
			P	39.10	38.70	38.00	37.20	36.50	35.80	35.20		
SM-050-C1	50	30	Q	181800	166300	138600	114700	94000	76500	61500		
			P	29.40	29.00	28.40	28.00	27.70	27.40	27.00		
		40	Q	155800	142300	118200	97400	79500	64300	51500		
			P	35.60	35.40	35.00	34.60	34.20	33.80	33.30		
		50	Q	128200	116800	96300	78700	63700	51000	40300		
			P	43.30	43.20	42.90	42.40	41.90	41.40	40.90		
SM-060-C1	60	30	Q	216000	197800	165100	136800	112500	91600	73800		
			P	38.90	38.30	37.20	36.10	35.10	34.20	33.40		
		40	Q	186800	170800	141900	117000	95700	77300	61800		
			P	46.30	45.70	44.70	43.60	42.70	41.90	40.70		
		50	Q	154300	140600	115900	94700	76500	61000	47900		
			P	55.80	55.30	54.30	53.20	52.20	51.20	50.10		
SM-070-C1	70	30	Q	266100	243400	202800	167600	137500	111600	89700		
			P	38.70	38.00	39.50	40.00	40.50	40.80	40.90		
		40	Q	228200	208300	172700	142100	115900	93500	74600		
			P	49.70	50.00	50.50	50.90	51.20	51.40	51.40		
		50	Q	186800	169900	139800	114000	91900	73200	57500		
			P	63.70	64.20	64.80	65.10	65.20	65.10	64.90		
SM-080-C1	80	30	Q	302000	276400	230500	190700	156600	112730	102400		
			P	48.00	47.40	46.50	45.90	45.40	44.90	44.30		
		40	Q	259100	236700	196600	162000	132400	107200	85800		
			P	58.70	58.30	57.70	57.10	56.60	55.90	55.00		
		50	Q	213500	194500	160400	131200	106300	85100	67300		
			P	72.30	72.20	71.80	71.20	70.60	69.80	69.00		

Note :① Based On20°C Suction Gas Temperature And 0 K Liquid Subcooling以上数据基于吸气温度20°C,液体过冷度为零的情况

② N.M.P - Nominal Motor Power 名义功率 ③ C.T - Condensing Temperature 冷凝温度

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				Evaporating Temperature 蒸发温度 [° C]								
				-15	-20	-25	-30	-35	-40	-45	-50	-55
SM-090-C1	90	30	Q	326900	299400	250000	207300	170400	138900	111900		
			P	57.10	56.30	54.60	53.00	51.40	50.00	48.80		
		40	Q	283000	258700	215100	177400	145000	117300	93700		
			P	68.00	67.20	65.50	63.90	62.40	61.00	59.80		
		50	Q	234000	213200	175900	143700	116200	92700	72900		
			P	81.80	81.00	79.40	77.90	76.40	75.00	73.60		
SM-120-C1	120	30	Q	392600	364600	312400	285600	251400	231700	212400		
			P	80.20	79.50	78.40	77.30	76.20	75.40	74.50		
		40	Q	353400	321400	291700	267400	231900	205600	175500		
			P	91.50	90.40	89.20	88.30	87.40	87.40	85.10		
		50	Q	312100	287500	254600	221700	200700	174700	143400		
			P	100.30	99.20	98.70	97.60	96.40	95.20	94.10		
SM-140-C1	140	30	Q	513600	472500	392300	319900	269800	252800	238750		
			P	90.30	89.50	88.60	87.30	86.50	85.70	84.20		
		40	Q	474300	436900	319200	288300	258600	235200	192600		
			P	96.30	95.40	94.30	93.60	92.40	91.50	90.00		
		50	Q	429500	392900	295300	246800	225800	197450	166400		
			P	102.30	101.20	100.00	99.20	98.60	97.30	96.40		
SM-160-C1	160	30	Q	583500	524300	410500	339600	271600	282500	256600		
			P	96.30	95.30	94.30	93.20	92.40	91.60	90.80		
		40	Q	524600	460900	335300	301000	289000	252700	214300		
			P	98.20	97.30	96.50	95.60	94.70	93.20	92.50		
		50	Q	463600	452900	269600	258100	232500	214800	182100		
			P	104.30	103.20	102.50	101.60	100.50	99.60	97.80		

Note :① Based On20°C Suction Gas Temperature And 0 K Liquid Subcooling以上数据基于吸气温度20°C, 液体过冷度为零的情况

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制冷剂修正参数 Refrigerant Factor

制冷剂Refrigerant	R134A	R22	R404A	R507A	R407F	R407C
修正参数Factor	0.689	1.024	1	1.016	0.995	0.902

$$\text{Btu/hr} = \text{Watt} \times 3.412$$

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				Evaporating Temperature 蒸发温度 [° C]								
				-15	-20	-25	-30	-35	-40	-45	-50	-55
SL-010-C1	10	30	Q	28900	23500	19200	16200	13600	11200	9800		
			P	17.20	16.30	15.50	15.00	14.50	13.70	13.10		
		40	Q	25300	21500	17200	14300	11900	9980	7600		
			P	21.30	20.50	19.80	19.10	18.50	17.40	16.80		
		50	Q		23100	18600	15100	13600	10600	8350		
			P		24.98	23.40	22.40	21.50	20.40	20.00		
SL-015-C1	15	30	Q	36100	32100	26500	20100	17000	13500	11900		
			P	19.30	18.80	17.40	16.70	15.90	15.10	14.30		
		40	Q	32900	29200	21600	18200	14700	10200	8700		
			P	23.50	22.40	21.50	20.00	19.40	18.30	17.60		
		50	Q			19300	16300	13200	8900	6750		
			P			25.30	24.60	23.90	23.00	22.30		
SL-020-C1	20	30	Q	58700	49450	41250	34000	27650	22050	17220		
			P	22.10	22.50	20.90	20.20	19.46	18.63	17.70		
		40	Q	55600	46700	38750	31750	25550	20100	15330		
			P	27.90	27.10	26.30	25.30	24.20	23.00	21.50		
		50	Q			35200	28400	22350	17020	12330		
			P			32.00	30.40	29.20	28.10	26.00		
SL-030-C1	30	30	Q	78200	66000	55200	45600	37150	29800	23400		
			P	28.60	27.60	26.70	25.70	24.60	23.50	22.30		
		40	Q	73900	62400	42100	42950	34900	27850	21700		
			P	36.00	33.90	33.70	32.40	31.00	19.50	28.00		
		50	Q			47700	39150	31550	24800	18930		
			P			41.20	39.40	37.90	37.20	35.10		
SL-040-C1	40	30	Q	94400	79600	66300	54700	44400	35350	27500		
			P	32.20	31.10	30.00	38.80	27.70	26.40	25.10		
		40	Q	89100	75000	62500	51500	41750	33250	25850		
			P	39.90	38.70	37.50	36.10	34.70	33.20	31.50		
		50	Q			56900	46700	37700	29800	22900		
			P			45.30	44.00	42.50	42.00	39.90		
SL-050-C1	50	30	Q	108700	91600	76500	63200	51600	41400	32600		
			P	39.60	38.10	36.50	34.90	33.20	31.50	29.60		
		40	Q	101200	85400	71500	59100	48250	38750	30500		
			P	48.70	46.80	44.90	42.90	40.90	38.80	36.80		
		50	Q			64300	53100	43200	34400	26700		
			P			53.50	52.20	51.00	48.70	46.60		

Note :① Based On 20°C Suction Gas Temperature And 0 K Liquid Subcooling 以上数据基于吸气温度20°C, 液体过冷度为零的情况

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