



OFFICINE MARIO DORIN SINCE 1918

DORIN[®]
INNOVATION

H33 新系列

SEMI-HERMETIC MOTOR COMPRESSOR

排量: 19,29 to 31,88 m³/h



SEMI-HERMETIC MOTOR COMPRESSORS

意大利都凌半封闭压缩机

新的H33系列压缩机优化了所有配件以提升最终用户的使用体验。其效率与平衡性更有利于其融入新的系统结构。这个系列的排气量范围是19.29-31.88m³/h，匹数从4HP到7.5HP供您选择。

The new **H33 Range** has been designed and built in order to optimize the use of all components facilitating eventual service operations. Its efficiency and its optimum balance makes it a very reliable solution for easy integration into systems used with inverters. The displacement of the range goes from 19,29 to 31,88 m³/h with nominal power engine from 4 to 7,5 HP.

系列 Range	型号 Model	排气量 Displacement	缸数 Cylinders	注油量 Oil charge	吸气阀 Suction	排气阀 Discharge	净重 Net weight
		50 Hz [m ³ /h]		[kg]	SL [mm]	DL [mm]	[kg]
H33	H355CS	19.29	4	1.8	22s	16s	77
	H405CC	19.29	4	1.8	22s	16s	77
	H405CS	23.13	4	1.8	28s	16s	78
	H505CC	23.13	4	1.8	28s	16s	78
	H505CS	27.33	4	1.8	28s	16s	78
	H705CC	27.33	4	1.8	28s	16s	78
	H705CS	31.88	4	1.8	28s	16s	78
	H755CC	31.88	4	1.8	28s	16s	78

系列 Range	型号 Model	最大工作电流 Max operating current V / ph / Hz [A]							锁定转子电流 Locked rotor current V / ph / Hz [A]						
		220-240 / 3 / 50 265-290 / 3 / 60 △	380-420 / 3 / 50 440-480 / 3 / 60 Y	208-230 / 3 / 60 △	360-400 / 3 / 60 Y	200 / 3 / 50-60 △	380-420 / 3 / 50 440-480 / 3 / 60 PWS	475-525 / 3 / 50 570-630 / 3 / 60	220-240 / 3 / 50 265-290 / 3 / 60 △	380-420 / 3 / 50 440-480 / 3 / 60 Y	208-230 / 3 / 60 △	360-400 / 3 / 60 Y	200 / 3 / 50-60 △	380-420 / 3 / 50 440-480 / 3 / 60 PWS *	475-525 / 3 / 50 570-630 / 3 / 60
H33	H355CS	18.1	10.5	21.5	12.6	25.0	10.5	8.4	92	53	110	64	110	53	42.5
	H405CC	25.0	14.5	30.0	17.4	34.5	14.5	11.6	109	63	131	76	131	63	50
	H405CS	18.1	10.5	21.5	12.6	25.0	10.5	8.4	92	53	110	64	110	53	42.5
	H505CC	25.0	14.5	30.0	17.4	34.5	14.5	11.6	109	63	131	76	131	63	50
	H505CS	25.0	14.5	30.0	17.4	34.5	14.5	11.6	109	63	131	76	131	63	50
	H705CC	34.0	19.5	41.0	23.5	47.0	19.5	15.6	149	86	179	103	179	86	69
	H705CS	25.0	14.5	30.0	17.4	34.5	14.5	11.6	109	63	131	76	131	63	50
	H755CC	34.0	19.5	41.0	23.5	47.0	19.5	15.6	149	86	179	103	179	86	69

MT	电机保护 Motor protection	REL	电子保护模块 Motor protection electronic module	ODPS	电子油压差保护开关 Oil differential pressure switch
TMAX	排气温度传感器 Max discharge temperature sensor	CH	曲轴箱加热器 Crankcase heater	BF	缸头风机 Head fan
ALL	油位报警 Optical oil level sensor	WH	水冷缸头 Water cooled head	CR	制冷量控制系统（能调头） Capacity control
US	卸载启动 Unloaded start				

系列 - RANGE	型号 - Model	* MT	REL	ODPS	TMAX	CH	BF	ALL	WH	CR	US
H33	H355CS	TE	A			B	B	B	B	B	B
	H405CC	TE	A			B		B		B	B
	H405CS	TE	A			B	B	B	B	B	B
	H505CC	TE	A			B		B		B	B
	H505CS	TE	A			B	B	B	B	B	B
	H705CC	TE	A			B		B		B	B
	H705CS	TE	A			B	B	B	B	B	B
	H755CC	TE	A			B		B		B	B

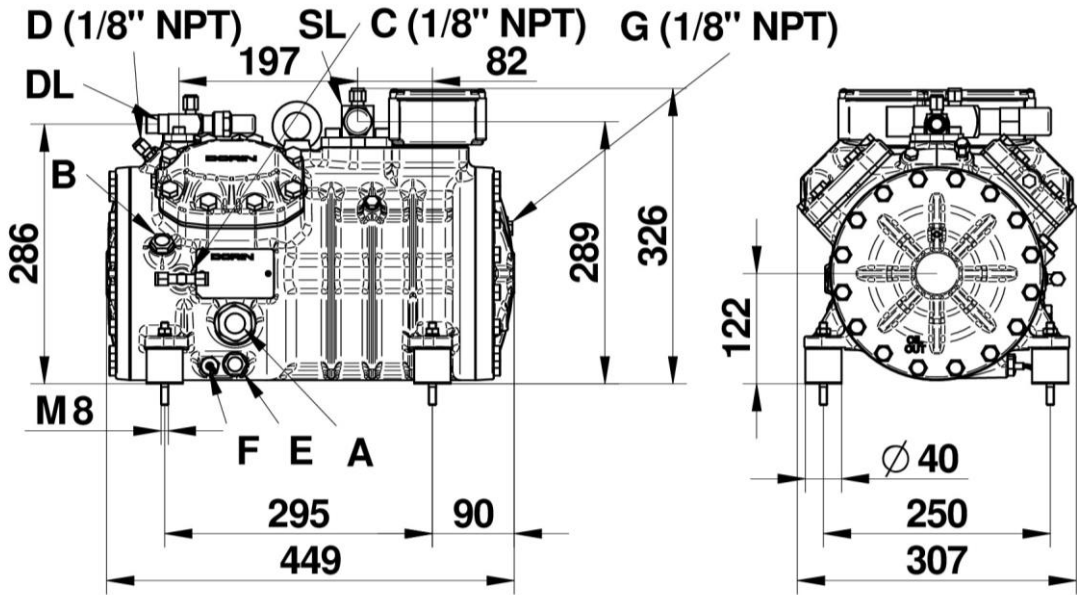
A 标准配置 / Standard supply

B 可选配置 / Optional accessories

TK Termik / 双金属热敏电偶保护 / TE PTC / PTC保护

外形尺寸 / Figure

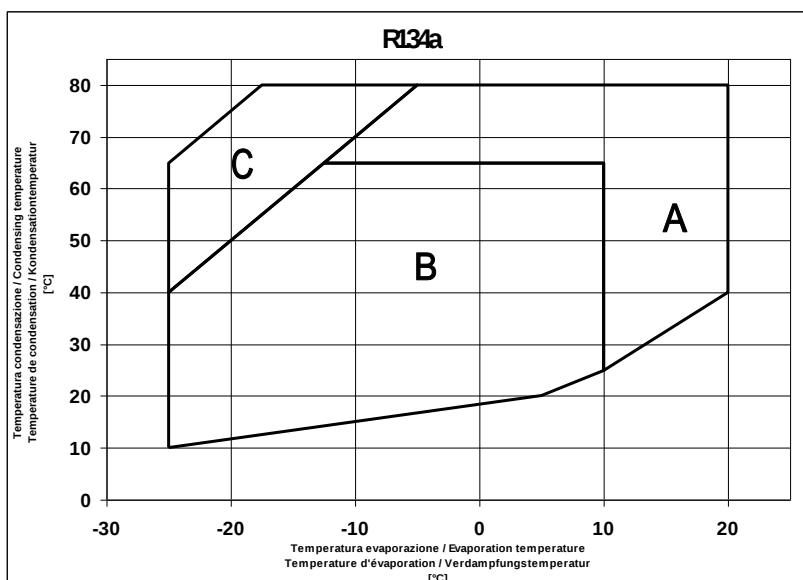
H33



A - 视镜 B - 注油塞 C - 低压旋塞 D - 高压旋塞 E - 放油塞	F - 曲轴箱加热器 G - 回油 DL - 排气阀 SL - 吸气阀	A - Oil sight B - Oil charge plug C - Low pressure tap D - High pressure tap E - Oil drain plug	F - Crankcase heater G - Oil return DL - Discharge service valve SL - Suction service valve
--	--	---	--

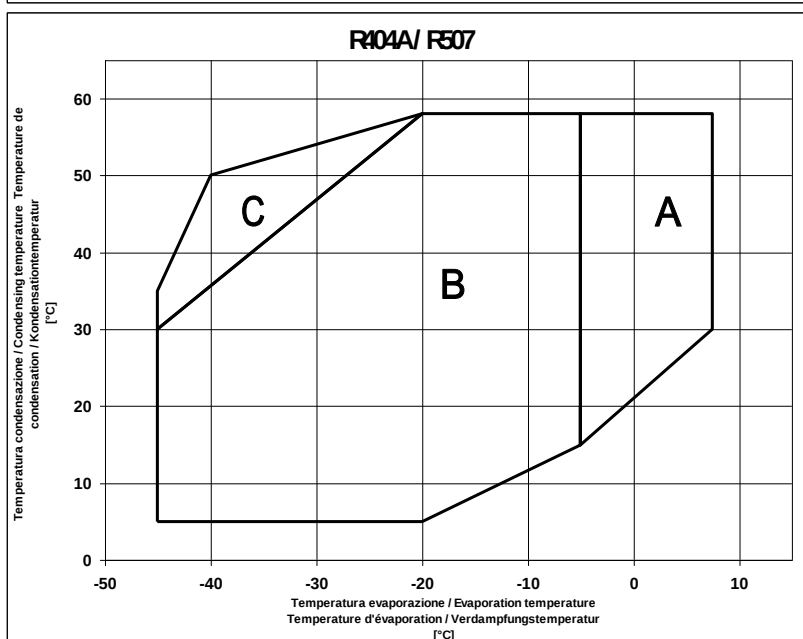
A 仅“CC”型
B 正常运行
C 缸头风机或最大过热20K

A "CC" models only
B Normal operation
C Head cooling fan or max superheating 20K



A 仅“CC”型
B 正常运行
C 缸头风机或最大过热20K

A "CC" models only
B Normal operation
C Head cooling fan or max superheating 20K

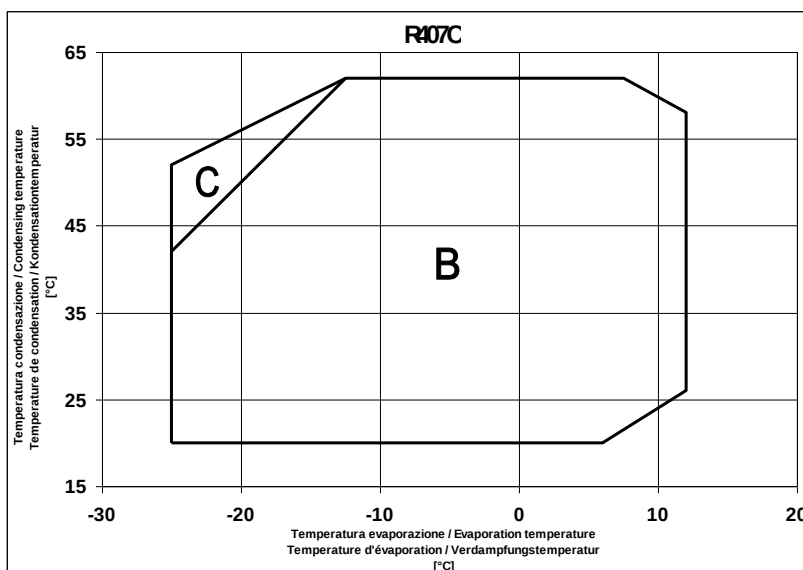


B 正常运行

C 缸头风机 或 最大过热20K

B Normal operation

C Head cooling fan or max superheating 20K



可通过都凌的选型软件，获得准确数据

In order to define the exact operating limits for each model, refer to Dorin selection software

- A 仅 “CC” 型

B 正常运行

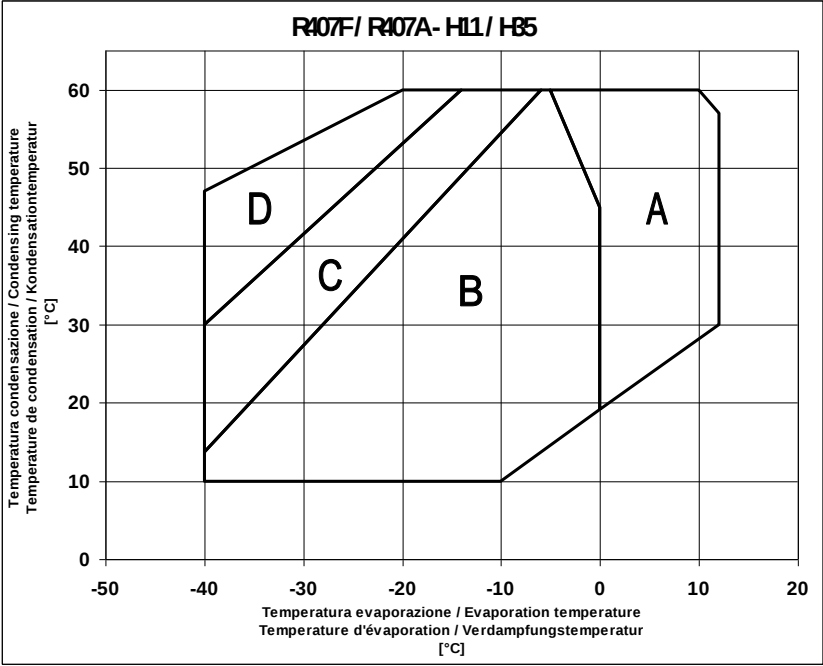
C 缸头风机 或 最大过热20K

D Ventilatore su testa + max surrisc. 20K
- A “CC” models only

B Normal operation

C Head cooling fan or max superheating 20K

D Head cooling fan + max superheating 20K



- A 仅 “CC” 型

B 正常运行

C 缸头风机 或 最大过热20K

D 缸头风机+最大过热30K (如果吸气过热超过30K必须加装DTC喷液冷却装置)

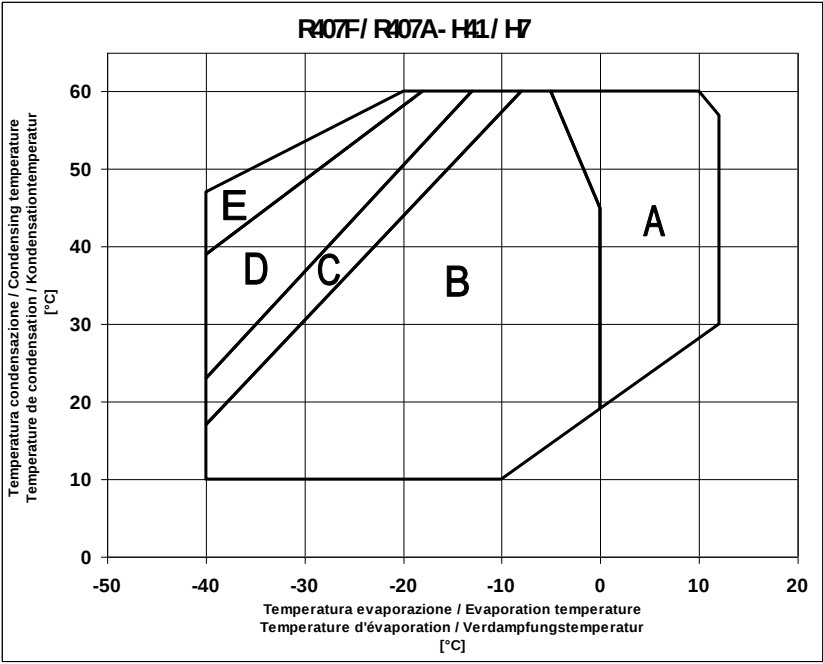
E 缸头风机+最大过热20K (如果吸气过热超过20K必须加装DTC喷液冷却装置)
- A “CC” models only

B Normal operation

C Head cooling fan or max superheating 20K

D D = Head cooling fan + max superheating 30K (head cooling fan + DTC if superheating > 30K)

E E = Head cooling fan + max superheating 20K (head cooling fan + DTC if superheating > 20K)



可通过都凌的选型软件，获得准确数据

In order to define the exact operating limits for each model, refer to Dorin selection software

系列 Range	型号 Model	冷凝温度 Cond. Temp.		Q	制冷量 Refrigerating capacity				P	输入功率 Power input			
				[W]	蒸发温度 / Evaporating temperature								[kW]
		[°C]		+20	+15	+10	+5	0	-5	-10	-15	-20	
H33	H355CS	35	Q			15700	12960	10560	8490	6730	5240	4000	
			P			2.71	2.64	2.51	2.36	2.18	1.98	1.76	
	45	Q			13650	11200	9070	7240	5690	4380	3300		
		P			3.23	3.06	2.84	2.61	2.36	2.12	1.87		
	H405CC	35	Q		19240	15970	13110	10640	8510	6710	5190	3940	
			P		2.97	2.87	2.73	2.56	2.36	2.16	1.94	1.72	
	45	Q	20110	16820	13930	11390	9210	7330	5730	4390	3280		
		P	3.67	3.51	3.32	3.1	2.86	2.61	2.34	2.09	1.85		
	H405CS	35	Q			19170	15760	12800	10260	8100	6290	4790	
			P			3.31	3.21	3.04	2.84	2.61	2.35	2.1	
	45	Q			16600	13560	10950	8700	6810	5230	3930		
		P			3.92	3.68	3.4	3.11	2.8	2.49	2.2		
	H505CC	35	Q		23440	19490	16020	13010	10410	8200	6350	4820	
			P		3.59	3.45	3.28	3.08	2.86	2.63	2.38	2.14	
	45	Q	24350	20390	16900	13840	11180	8900	6970	5340	3980		
		P	4.39	4.18	3.96	3.72	3.44	3.16	2.87	2.58	2.28		
	H505CS	35	Q			22510	18510	15030	12060	9520	7400	5650	
			P			4.08	3.91	3.68	3.43	3.15	2.86	2.56	
	45	Q			19560	15980	12910	10280	8060	6200	4670		
		P			4.71	4.43	4.11	3.78	3.42	3.07	2.73		
	H705CC	35	Q		27090	22510	18470	14980	11970	9430	7300	5540	
			P		4.06	3.93	3.75	3.54	3.3	3.04	2.78	2.51	
	45	Q	28060	23470	19430	15900	12850	10220	8010	6150	4610		
		P	5.04	4.83	4.58	4.3	3.99	3.67	3.33	3.01	2.69		
	H705CS	35	Q			25870	21400	17490	14130	11250	8810	6770	
			P			4.74	4.58	4.34	4.05	3.72	3.37	3	
	45	Q			22700	18680	15180	12170	9610	7440	5630		
		P			5.59	5.26	4.9	4.48	4.05	3.61	3.17		
	H755CC	35	Q		31040	25940	21450	17520	14140	11240	8790	6760	
			P		4.94	4.83	4.65	4.4	4.11	3.76	3.41	3.03	
	45	Q	32270	27140	22610	18630	15160	12160	9580	7410	5590		
		P	6.15	5.94	5.66	5.32	4.94	4.51	4.06	3.62	3.17		

R134a

- 此表为50Hz状态下的数据
 - 60Hz时，所有数据乘以1.18
 - 按照欧标EN12900测试数据
 - 不同油类不能混合
- Frequency rate 50 Hz
 - For 60 Hz operation, data to be multiplied by 1,18
 - Performance data are based on European Standard EN12900
 - Never mix ester oils with different oils

系列 Range	型号 Model	冷凝温度 Cond. Temp.		Q [W]		制冷量 Refrigerating capacity				P [kW]		输入功率 Power input			
				蒸发温度 / Evaporating temperature [°C]											
		[°C]		+10	+5	0	-5	-10	-15	-20	-25	-30	-35	-40	
H33	H355CS	35	Q			17210	14080	11360	9030	7040	5370	3970	2840	1940	
			P			4.16	3.94	3.65	3.33	2.98	2.63	2.27	1.94	1.64	
	45	Q			14630	11890	9520	7500	5790	4360	3180	2230	1460		
		P			4.74	4.38	3.98	3.56	3.15	2.73	2.33	1.99	1.68		
	H405CC	35	Q	26770	22040	17960	14460	11500	9010	6960	5280	3930	2850	1990	
			P	4.76	4.56	4.31	4.02	3.68	3.34	2.98	2.63	2.28	1.97	1.67	
	45	Q	23080	18900	15310	12250	9690	7550	5790	4360	3210	2290	1530		
		P	5.75	5.38	4.99	4.56	4.11	3.67	3.23	2.8	2.39	2.03	1.71		
	H405CS	35	Q			20580	16810	13540	10750	8370	6380	4740	3410	2340	
			P			5.04	4.78	4.43	4.04	3.6	3.15	2.72	2.29	1.93	
	45	Q			17480	14190	11350	8930	6890	5200	3800	2660	1750		
		P			5.82	5.37	4.88	4.35	3.82	3.3	2.81	2.37	2.01		
	H505CC	35	Q	32110	26430	21530	17330	13780	10800	8340	6330	4720	3420	2390	
			P	5.7	5.46	5.16	4.8	4.41	4.01	3.58	3.15	2.74	2.35	2	
	45	Q	27660	22660	18340	14690	11610	9040	6940	5230	3850	2740	1830		
		P	6.89	6.45	5.97	5.47	4.94	4.4	3.87	3.36	2.87	2.44	2.04		
	H505CS	35	Q			24330	19850	15970	12640	9840	7480	5550	3990	2760	
			P			6.34	5.93	5.44	4.9	4.33	3.76	3.22	2.7	2.25	
	45	Q			20670	16740	13360	10490	8070	6060	4430	3120	2090		
		P			7.35	6.71	6.02	5.31	4.61	3.94	3.32	2.77	2.31		
	H705CC	35	Q	38310	31550	25700	20680	16440	12890	9950	7550	5630	4080	2850	
			P	6.81	6.52	6.16	5.74	5.28	4.78	4.27	3.76	3.27	2.8	2.38	
	45	Q	33010	27030	21900	17520	13840	10790	8280	6240	4600	3270	2190		
		P	8.22	7.7	7.13	6.52	5.89	5.25	4.61	4	3.43	2.9	2.45		
	H705CS	35	Q			28200	23020	18550	14700	11460	8740	6500	4670	3210	
			P			7.35	6.89	6.33	5.71	5.04	4.37	3.71	3.1	2.58	
	45	Q			24010	19480	15570	12240	9450	7120	5200	3650	2390		
		P			8.34	7.65	6.89	6.11	5.31	4.54	3.82	3.19	2.66		
	H755CC	35	Q	43800	36060	29380	23660	18800	14740	11380	8630	6420	4660	3260	
			P	7.9	7.51	7.07	6.56	6.02	5.45	4.87	4.3	3.74	3.22	2.74	
	45	Q	37750	30900	25030	20040	15830	12340	9460	7130	5250	3740	2500		
		P	9.47	8.84	8.16	7.45	6.72	5.98	5.27	4.57	3.92	3.32	2.78		

R407F R407A*

- 此表为50Hz状态下的数据
 - 60Hz时，所有数据乘以1.18
 - 按照欧标EN12900测试数据
 - 不同油类不能混合
 - *以R407A为制冷剂时，制冷量和输入功率将减少6%（能效比相同）
- Frequency rate 50 Hz
 - For 60 Hz operation, data to be multiplied by 1,18
 - Performance data are based on European Standard EN12900
 - Never mix ester oils with different oils
 - * For performance with R407A, consider a 6% reduction of Q and P (same COP)

技术数据 / PERFORMANCES DATA

R404A

R507

系列 Range	型号 Model	冷凝温度 Cond. Temp.			Q [W]		制冷量 Refrigerating capacity			P [kW]		输入功率 Power input		
					蒸发温度 / Evaporating temperature [°C]									
		[°C]	+5	0	-5	-10	-15	-20	-25	-30	-35	-40		
H33	H355CS	35	Q			14440	11910	9680	7750	6100	4690	3500	2510	
			P			4.14	3.92	3.63	3.32	2.97	2.63	2.27	1.94	
		45	Q			11890	9760	7900	6300	4920	3760	2770	1930	
			P			4.67	4.33	3.95	3.55	3.14	2.73	2.34	1.98	
	H405CC	35	Q	21270	17740	14630	11930	9600	7600	5910	4510	3340	2400	
			P	4.55	4.4	4.19	3.94	3.64	3.33	2.98	2.64	2.29	1.96	
		45	Q	17650	14640	12030	9750	7800	6150	4750	3590	2630	1840	
			P	5.33	5.06	4.72	4.37	3.97	3.56	3.15	2.74	2.33	1.96	
	H405CS	35	Q			17300	14250	11600	9290	7300	5620	4190	3020	
			P			4.99	4.71	4.36	3.98	3.55	3.12	2.71	2.31	
		45	Q			14230	11680	9470	7550	5910	4500	3320	2310	
			P			5.64	5.21	4.74	4.25	3.74	3.25	2.8	2.39	
	H505CC	35	Q	25510	21270	17540	14300	11500	9100	7080	5400	4020	2880	
			P	5.42	5.25	5.01	4.72	4.37	4	3.59	3.16	2.75	2.33	
		45	Q	21150	17540	14410	11680	9350	7360	5700	4310	3150	2210	
			P	6.36	6.05	5.66	5.23	4.77	4.29	3.79	3.29	2.79	2.32	
	H505CS	35	Q			20440	16850	13700	10980	8630	6630	4960	3560	
			P			5.88	5.54	5.14	4.69	4.2	3.71	3.22	2.74	
		45	Q			16820	13800	11180	8920	6980	5310	3910	2730	
			P			6.64	6.14	5.6	5.02	4.44	3.87	3.32	2.81	
	H705CC	35	Q	30440	25380	20930	17060	13720	10860	8450	6440	4780	3440	
			P	6.51	6.29	6	5.63	5.22	4.76	4.27	3.77	3.28	2.79	
		45	Q	25230	20940	17190	13940	11150	8780	6800	5140	3770	2630	
			P	7.62	7.23	6.77	6.24	5.69	5.1	4.51	3.92	3.34	2.8	
	H705CS	35	Q			23250	19170	15580	12490	9820	7540	5640	4050	
			P			6.68	6.3	5.85	5.33	4.78	4.22	3.65	3.11	
		45	Q			19120	15700	12720	10150	7930	6040	4450	3100	
			P			7.55	6.98	6.36	5.71	5.05	4.4	3.77	3.2	
	H755CC	35	Q	34810	29020	23940	19510	15690	12420	9670	7370	5470	3930	
			P	7.43	7.18	6.84	6.43	5.96	5.44	4.89	4.32	3.75	3.2	
		45	Q	28860	23940	19650	15940	12750	10050	7770	5860	4300	3010	
			P	8.7	8.25	7.72	7.14	6.51	5.85	5.17	4.49	3.82	3.17	

- 此表为50Hz状态下的数据
 - 60Hz时，所有数据乘以1.18
 - 按照欧标EN12900测试数据
 - 不同油类不能混合
-
- Frequency rate 50 Hz
 - For 60 Hz operation, data to be multiplied by 1,18
 - Performance data are based on European Standard EN12900
 - Never mix ester oils with different oils

系列 Range	型号 Model	冷凝温度 Cond. Temp.		Q [W]	制冷量 Refrigerating capacity		P [kW]	输入功率 Power input		
				蒸发温度 / Evaporating temperature [°C]						
		[°C]		+10	+5	0	-5	-10	-15	-20
H33	H405CC	30	Q	25260	20890	17110	13860	11100	8770	6810
			P	3.84	3.69	3.52	3.33	3.13	2.92	2.69
		40	Q	22270	18310	14900	11970	9480	7370	5600
			P	4.63	4.39	4.12	3.85	3.56	3.26	2.95
		50	Q	19270	15730	12680	10090	7880	6010	4420
			P	5.4	5.05	4.69	4.31	3.92	3.52	3.11
	H505CC	30	Q	30300	25050	20510	16630	13310	10520	8160
			P	4.61	4.43	4.22	4	3.76	3.5	3.23
		40	Q	26710	21960	17860	14350	11370	8840	6720
			P	5.56	5.26	4.95	4.62	4.27	3.91	3.53
		50	Q	23110	18860	15210	12090	9440	7210	5300
			P	6.48	6.06	5.62	5.17	4.7	4.22	3.73
	H705CC	30	Q	34630	28740	23630	19210	15450	12260	9570
			P	5.17	4.97	4.74	4.51	4.25	3.98	3.69
		40	Q	30390	25100	20500	16560	13200	10340	7920
			P	6.3	5.97	5.63	5.27	4.89	4.5	4.09
		50	Q	26470	21730	17630	14120	11130	8570	6400
			P	7.47	7	6.51	6	5.48	4.94	4.38
	H755CC	30	Q	40110	33300	27380	22270	17900	14210	11080
			P	5.96	5.78	5.56	5.3	5.02	4.7	4.35
		40	Q	35000	28900	23620	19080	15210	11920	9130
			P	7.2	6.88	6.51	6.12	5.69	5.24	4.76
		50	Q	30240	24830	20170	16160	12750	9830	7350
			P	8.46	7.97	7.45	6.89	6.31	5.7	5.07

R407C

- 此表为50Hz状态下的数据
 - 60Hz时，所有数据乘以1.18
 - 按照欧标EN12900测试数据
 - 不同油类不能混合
-
- Frequency rate 50 Hz
 - For 60 Hz operation, data to be multiplied by 1,18
 - Performance data are based on European Standard EN12900
 - Never mix ester oils with different oils



OFFICINE MARIO DORIN SINCE 1918
DORIN[®]
INNOVATION

OFFICINE MARIO DORIN S.p.A.

Via Aretina 388, 50061 Compiobbi - Florence, Italy
Tel. +39 055 62321 1 - Fax +39 055 62321 380

dorin@dorin.com
www.dorin.com

中国售后服务电话：400-021-9890