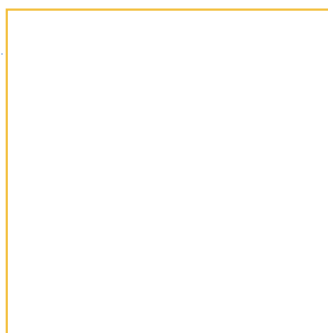
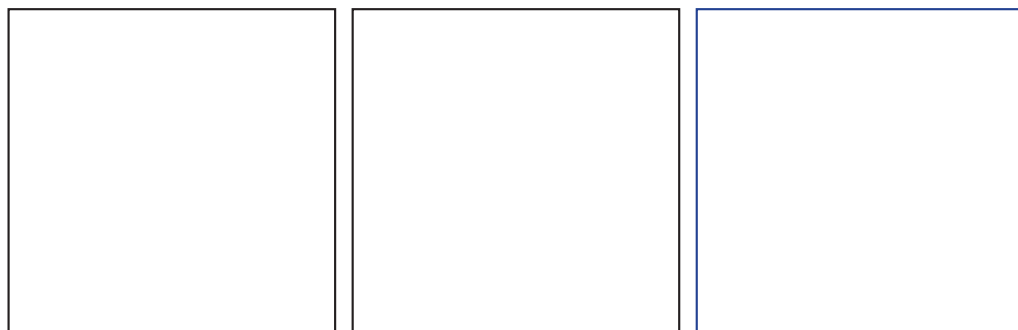
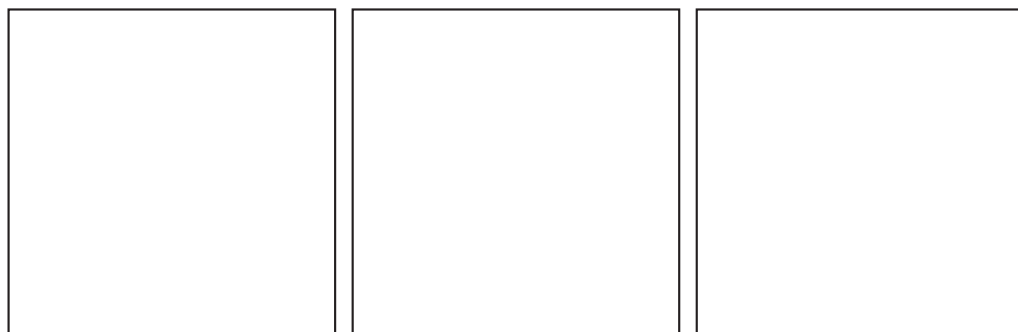




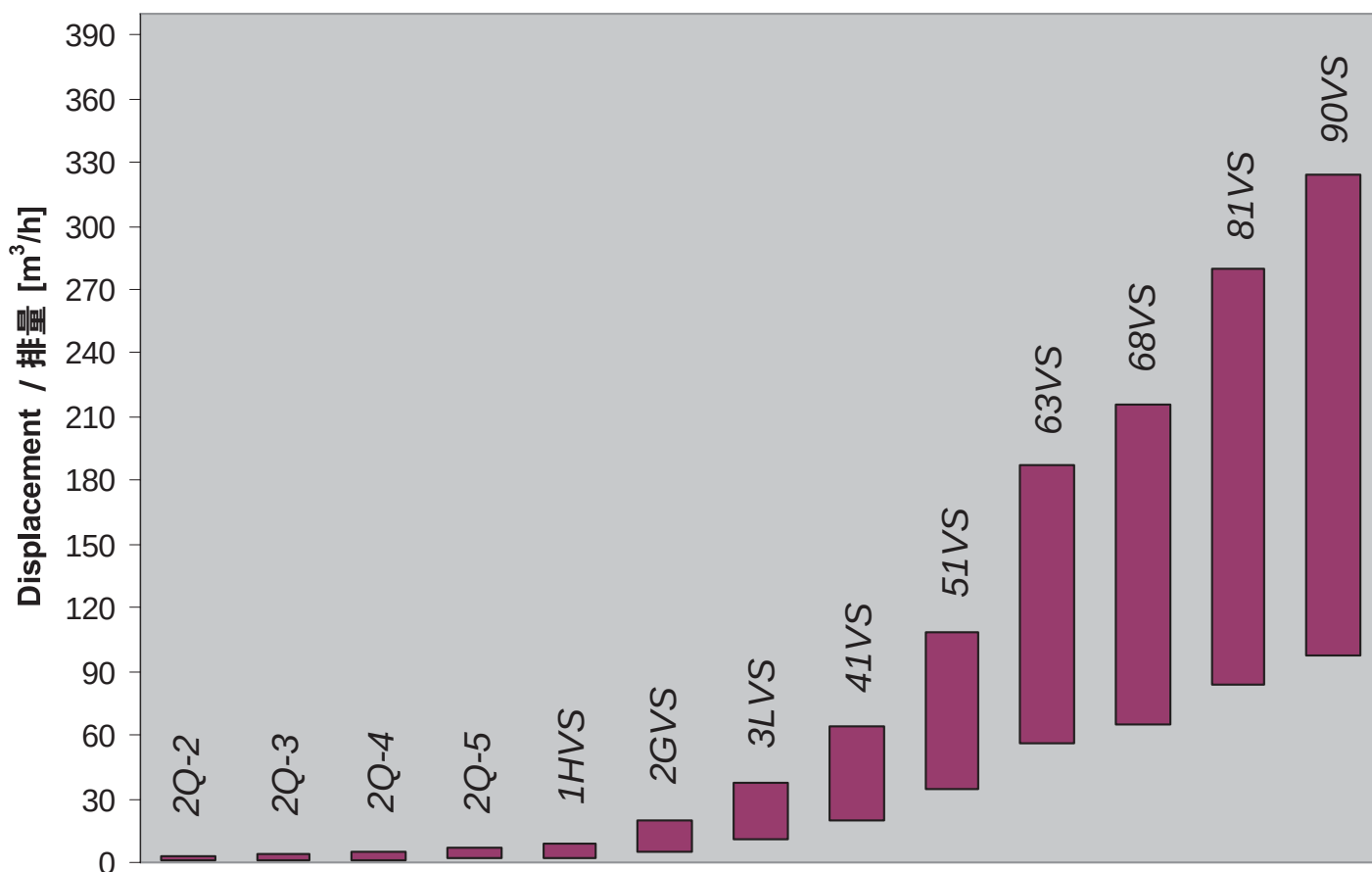
***OPEN
TYPE
RANGE***
系列

2013

OPEN TYPE COMPRESSORS
意大利都凌开启式压缩机系列

■	Introduction / 介绍	3
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OPEN TYPE RANGE / 开启式范围



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DORIN S.p.A. has been producing open compressor since 1932.

These compressors are constructed with the highest quality materials and are therefore suitable for working in particularly hard conditions.

Compressors are designed to offer top performance and special care has been given to have smooth and silent operation.

Compressors ranging between 2Q-2 and 51VS are lubricated via a sling disk. Those models can rotate only in a specific rotational sense, clearly marked on the compressor.

Compressors ranging between 62VS and 90VS are lubricated via a gear oil pump. Those models can rotate in both senses.

All open type compressors manufactured by DORIN are subject to approval according to Directive 94/9/CE – ATEX.

IMPORTANT NOTE

ATEX approval is excluding all mechanical components including but not limited to drive belts, inherent cases, and all electric components, including but not limited to oil heater and capacity regulation coils.

Therefore, ATEX approval shall be considered effective only for compressors rated without any kind of accessory. Each compressor shows following ATEX marking:



II = group II machinery

3 = category 3 (zone 2)

G = explosive atmosphere with gas, vapor or fog presence

c = protection type for nonelectric equipment (constructive safety)

IIB = gas group

*** = it is not possible to exactly determine the machine temperature class (EN 13463 § 14.2g) since surfaces temperature depends on the rating conditions and on the selected refrigerant.

Temperature class can anyway be identified considering the given application, caring about what mentioned in the following application envelopes.

意大利都凌公司自 1932 年生产开启式压缩机。

压缩机选用最优质的材料制作，因此适用于特别艰难的工况下工作。

压缩机的设计确保了优良的性能，同时特别注意运动部件的降噪。

压缩机范围自 2Q-2 – 51VS 是甩油盘进行润滑，这些型号有一个特定的旋转方向，在压缩机上有明显的标记。

压缩机自 63VS 到 90VS 是通过齿轮式油泵润滑方式，因此可以任意方向运行。

所有的开启式压缩机制造都有防爆认证，按欧盟 94/9/CE – ATEX

特别提醒

ATEX 认证只对压缩机的机械部件，不包括延伸的电气部件，但是可以包含传动皮带。

所以，ATEX 认证只针对压缩机本身，但不包含任何其它附件。

每台压缩机上都标有 ATEX 防爆认证：

II = 机械 II 组

3 = 3 类 (2 区)

G = 易爆性环境气体，蒸气或雾

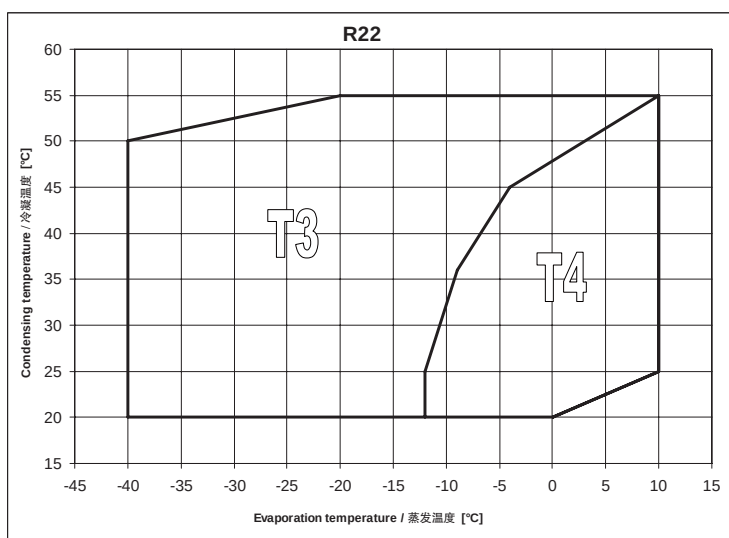
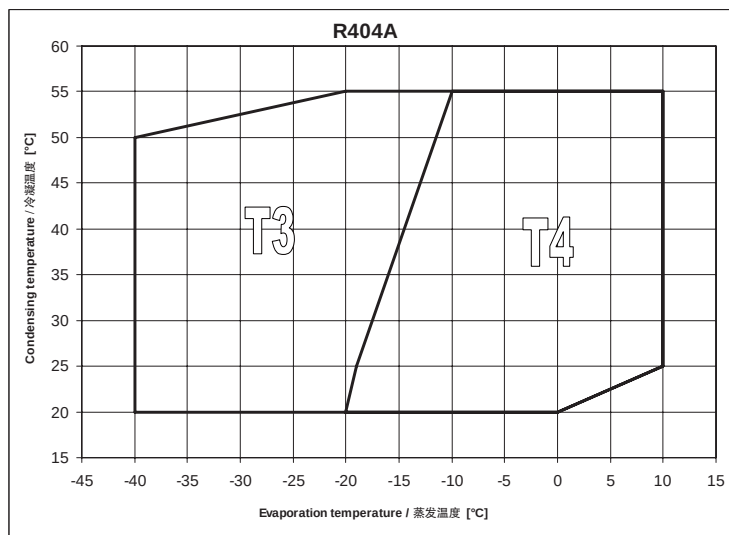
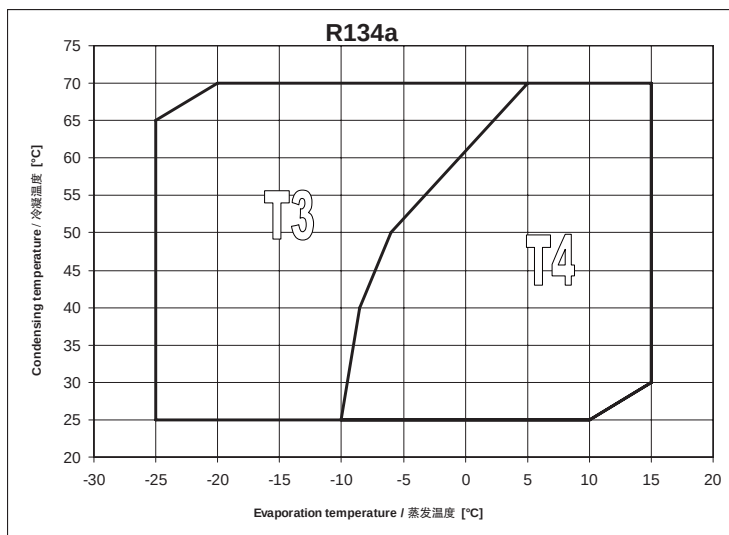
c = 保护方式 非电气设备 (安全构造)

IIB = 气体组

*** = 温度等级 (EN 13463 § 14.2g) 不能明确测定，因为表面温度取决于额定工况以及选用的冷媒。

温度的等级无论如何要根据给定的用途来确定。

温度应用包络线如下：



T3 maximum surface temperature 200°C

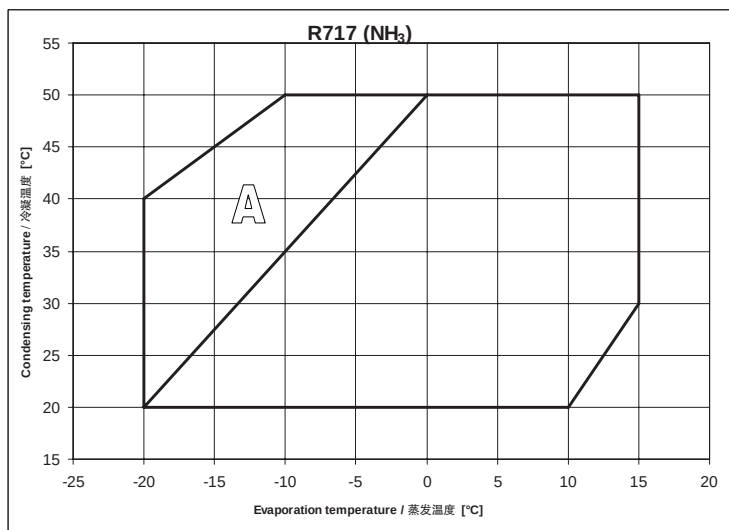
T4 maximum surface temperature 135°C

Suction gas superheat < 30K

T3 最高表面温度

T4 最高表面温度

吸气过热



A Water-cooled heads

5K suction gas superheat

水冷缸头

5K吸气过热

Model 型号	Cyl. 缸数	Bore 缸径	Stroke 行程	Swept volume 排气量/转	Suction 吸气	Discharge 排气	Flywheel 飞轮	Oil charge 注油量	Weight 重量	r.p.m. 转速		Power input 输入功率
	n	[mm]	[mm]	[cm ³]	SL [mm]	DL [mm]	[mm] *	[kg]	[kg] **	min	max	HP
2Q2	2	38	12	27,2	10s	10s	132-1Z	0,4	11	500	1500	1/3 - 2
2Q3	2	38	15	34,0	10s	10s	132-1Z	0,4	11	500	1500	1/3 - 3
2Q4	2	38	19	43,1	12s	12s	132-1A	0,4	11	500	1500	0.5 - 4
2Q5	2	38	24	54,4	12s	12s	132-1A	0,4	11	500	1500	0.5 - 5
1HVS	2	45	24	76	5/8" - 16	1/2" - 12	160-2A	0,5	17	500	1450	0.75 - 4
2GVS	2	60	30	170	3/4" - 18	5/8" - 16	160-2A	1,0	22	500	1450	2 - 7.5
3LVS	2	61	60	351	28s	3/4" - 18	270-3A	1,5	38	500	1300	4 - 15
41VSR	2	74	65	560	28s	22s	303-3B	3,0	78	600	1300	5.5 - 20
41VSM/3B	2	74	65	560	35s	28s	303-3B	3,0	78	600	1300	5.5 - 20
41VSM/4B	2	74	65	560	35s	28s	303-4B	3,0	82	600	1300	5.5 - 20
51VSR	2	88	78	949	35s	28s	335-4B	4,0	118	600	1300	10 - 30
51VSM	2	88	78	949	42s	35s	335-4B	4,0	118	600	1300	10 - 30
63VS/4B	4	78	65	1245	42s	28s	310-4B	5,5	156	750	1750	15 - 50
63VS/6B	4	78	65	1245	42s	28s	310-6B	5,5	156	750	1750	15 - 50
68VS/6B	4	84	65	1440	54s	35s	310-6B	5,5	156	750	1750	15 - 75
81VS	6	78	65	1865	54s	42s	310-6SPB	6,5	203	750	1750	15 - 90
90VS	6	84	65	2160	54s	42s	310-6SPB	6,5	203	750	1750	15 - 90

* Belts types / 传动带类型

** Gross weight with flywheel / 带飞轮毛重量

FW	Flywheel 飞轮	CH	Crankcase heater 曲轴箱加热器	BF	Head fan 机体冷却风机
WH	Water cooled head 水冷缸头	CR	Capacity control 制冷量控制系统	US	Unloaded start 卸载启动
		ODPS	Oil differential pressure switch 电子油压差保护开关		

Model 型号	FW	CH	BF	WH	CR	US	ODPS
2Q	A						
1HVS	A	A					
2GVS	A	A					
3LVS	A	A	A				
41VSR	A	A	A	A			
41VSM/3B	A	A	A	A			
41VSM/4B	A	A	A	A			
51VSR	A	A	A	A			
51VSM	A	A	A	A			
63VS/4B	A	A	A	A	A	A	A
63VS/6B	A	A	A	A	A	A	A
68VS/6B	A	A	A	A	A	A	A
81VS	A	A	A	A	A	A	A
90VS	A	A	A	A	A	A	A

A Optional accessories / 任选附件

R134a

Model 型号	r.p.m. 转速	Swept volume 排气量/转 [cm³]	HP-CV-PS* Power to install 功 率			Cond. Temp. 冷凝温度 [°C]	Q [W]	Refrigerating capacity / 制冷量					
			Evaporating temperature / 蒸发温度 [°C]										
			C					S			B		
			C	S	B		+10	+5	0	-5	-10	-15	-20
2Q-2	800	27,2	0,5	0,33	0,33	35	1099	891	717	570	442	335	248
			0,5	0,33	0,33	45	967	783	628	498	384	290	212
			0,75	0,5	0,33	55	834	675	540	426	327	245	177
	1000		0,75	0,5	0,5	35	1373	1114	897	713	553	419	310
			0,75	0,5	0,5	45	1208	979	785	622	480	362	265
			0,75	0,75	0,5	55	1043	843	675	533	409	306	222
	1200		0,75	0,5	0,5	35	1648	1337	1076	855	663	503	372
			0,75	0,5	0,5	45	1450	1174	942	747	576	435	318
			1	0,75	0,5	55	1251	1012	810	639	491	367	266
	1450		0,75	0,5	0,5	35	1992	1616	1300	1034	801	608	449
			0,75	0,5	0,5	45	1752	1419	1139	902	696	525	385
			1	0,75	0,5	55	1512	1223	979	772	593	444	322
2Q-3	800	34,0	0,75	0,5	0,33	35	1384	1123	903	718	557	422	312
			0,75	0,5	0,33	45	1217	986	791	627	484	365	267
			0,75	0,5	0,33	55	1051	849	680	537	412	308	224
	1000		0,75	0,75	0,5	35	1730	1403	1129	898	696	528	390
			0,75	0,75	0,5	45	1521	1232	989	784	605	456	334
			0,75	0,75	0,5	55	1313	1062	850	671	515	385	279
	1200		1	0,75	0,5	35	2075	1684	1355	1077	835	634	468
			1	0,75	0,5	45	1826	1479	1187	940	726	547	401
			1	0,75	0,5	55	1576	1274	1020	805	618	463	335
	1450		1	0,75	0,5	35	2508	2035	1637	1301	1009	766	566
			1	0,75	0,5	45	2206	1787	1434	1136	877	661	484
			1	0,75	0,5	55	1904	1540	1232	973	747	559	405
2Q-4	800	43,1	0,75	0,5	0,5	35	1750	1420	1142	908	704	534	395
			1	0,75	0,5	45	1539	1247	1001	793	612	461	338
			1	0,75	0,5	55	1329	1074	860	679	521	390	283
	1000		0,75	0,75	0,75	35	2187	1775	1428	1135	880	668	493
			1,5	0,75	0,75	45	1924	1558	1251	991	765	577	422
			1,5	0,75	0,75	55	1661	1343	1075	848	651	488	353
	1200		1	0,75	0,75	35	2625	2130	1713	1362	1056	801	592
			1,5	1	0,75	45	2309	1870	1501	1189	918	692	507
			1,5	1	0,75	55	1993	1612	1290	1018	782	585	424
	1450		1	0,75	0,75	35	3172	2573	2070	1646	1276	968	715
			1,5	1	0,75	45	2790	2260	1814	1437	1109	836	613
			1,5	1	0,75	55	2408	1947	1559	1230	944	707	512
2Q-5	800	54,4	1	0,75	0,5	35	2198	1783	1435	1140	884	671	496
			1	0,75	0,5	45	1933	1566	1257	996	768	579	424
			1,5	1	0,75	55	1669	1349	1080	852	654	490	355
	1000		1,5	0,75	0,75	35	2747	2229	1793	1426	1105	839	619
			1,5	0,75	0,75	45	2416	1957	1571	1244	961	724	531
			1,5	1,5	0,75	55	2086	1686	1350	1065	818	612	444
	1200		1,5	1	0,75	35	3296	2674	2152	1711	1326	1006	743
			1,5	1	0,75	45	2900	2348	1885	1493	1153	869	637
			2	1,5	1	55	2503	2024	1620	1279	982	735	532
	1450		1,5	1	0,75	35	3983	3232	2600	2067	1603	1216	898
			1,5	1	1	45	3504	2838	2278	1804	1393	1050	769
			2	1,5	1	55	3024	2445	1957	1545	1186	888	643
1HVS	800	76	1,5	1,5	0,75	35	3093	2509	2019	1605	1245	944	697
			1,5	1	1	45	2721	2204	1769	1401	1082	815	597
			2	1	1	55	2348	1899	1520	1200	921	689	500
	1000		1,5	1,5	75	35	3866	3137	2524	2006	1556	1180	872
			1,5	1,5	1,5	45	3401	2754	2211	1751	1352	1019	747
			3	1,5	1,45	55	2936	2374	1900	1500	1151	862	625
	1200		2	2	1	35	4639	3764	3029	2408	1867	1416	1046
			2	1,5	1,5	45	4081	3305	2653	2102	1622	1223	896
			3	1,5	1,5	55	3523	2848	2280	1799	1381	1034	749
	1450		2	2	1	35	5606	4548	3659	2909	2256	1711	1264
			2	1,5	1,5	45	4931	3994	3206	2540	1960	1478	1083
			3	1,5	1,5	55	4257	3442	2755	2174	1669	1249	906
2GVS	800	170	3	2	2	35	6553	5317	4278	3401	2637	2001	1478
			4	3	2	45	5764	4669	3747	2969	2292	1728	1266
			4	3	2	55	4976	4023	3220	2542	1951	1461	1059
	1000		3	3	3	35	8191	6646	5347	4251	3296	2501	1847
			4	3	3	45	7205	5836	4684	3711	2864	2160	1582
			4	3	3	55	6220	5029	4026	3177	2439	1826	1323
	1200		4	3	3	35	9830	7975	6417	5101	3955	3001	2216
			5,5	4	3	45	8646	7003	5621	4453	3437	2592	1898
			5,5	4	3	55	7464	6035	4831	3813	2927	2191	1588
	1450		4	3	3	35	11877	9636	7753	6164	4779	3626	2678
			5,5	4	3	45	10448	8462	6792	5381	4153	3132	2294
			5,5	4	3	55	9019	7292	5837	4607	3537	2647	1919

■ Performance data are based on European Standard EN12900

■ Suction gas temperature = 20°C for R134a, R404A, R22 (5 K suction gas superheat for R717)

■ Liquid subcooling = 0K

■ * Recommended power

■ 性能数据根据欧洲标准EN12900

■ 吸气温度= 20°C适用于R134a, R404A, R22(5K吸气过热适用于R717)

■ 液体过冷=0K

■ * 建议装置功率

R134a

Model 型号	r.p.m. 转速	Swept volume 排气量/转 [cm³]	HP-CV-PS* Power to install 功 率			Cond. Temp. 冷凝温度 [°C]	Q [W]	Refrigerating capacity / 制冷量					
								Evaporating temperature / 蒸发温度 [°C]					
								C			S		
							+10	+5	0	-5	-10	-15	-20
3LVS	800	351	7,5	5,5	4	35	13469	11055	8832	6974	5429	4120	3045
			7,5	5,5	4	45	11855	9709	7732	6080	4705	3543	2590
	1000		10	5,5	4	55	10256	8380	6651	5204	4001	2985	2153
			7,5	5,5	4	35	16837	13819	11040	8718	6786	5150	3806
			7,5	5,5	4	45	14818	12137	9666	7600	5881	4429	3237
			15	5,5	4	55	12820	10475	8313	6505	5001	3731	2691
			-	7,5	5,5	35	-	-	-	10462	8143	6180	4567
			-	7,5	5,5	45	-	-	-	9120	7058	5315	3884
41VSR 41VSM/3B 41VSM/4B	800	560	10	7,5	5,5	35	22628	18347	14773	11679	9095	6918	5121
			10	10	7,5	45	19872	16077	12904	10157	7862	5931	4338
	1000		15	10	7,5	55	17137	13831	11062	8662	6657	4970	3582
			15	7,5	5,5	35	28285	22933	18467	14599	11369	8648	6401
			15	15	7,5	45	24840	20096	16131	12696	9828	7413	5422
			15	15	7,5	55	21421	17289	13828	10828	8321	6212	4477
			15	10	7,5	35	33943	27520	22160	17518	13642	10377	7682
			15	15	10	45	29808	24115	19357	15235	11793	8896	6507
51VSR 51VSM	800	949	20	15	10	55	25705	20746	16593	12994	9986	7455	5372
			15	15	10	35	38543	31457	25363	19959	15572	11865	8801
	1000		20	10	7,5	45	34207	27829	22342	17485	13544	10224	7489
			20	10	7,5	55	29885	24249	19398	15108	11628	8701	6298
			20	15	15	35	47654	38892	31358	24677	19253	14670	10881
			25	15	10	45	42293	34406	27623	21618	16746	12640	9259
			25	15	10	55	36949	29981	23983	18679	14376	10758	7786
			25	20	15	35	58166	47471	38275	30120	23500	17906	13281
63VS/4B 63VS/6B	1000	1245	25	15	15	45	51622	41996	33716	26387	20439	15429	11301
			25	15	15	55	45100	36594	29274	22800	17547	13131	9504
	1200		25	15	15	35	57672	46940	37939	29909	23215	17570	13017
			30	20	15	45	51041	41431	33362	26168	20175	15131	11069
			30	20	15	55	44472	35999	28872	22522	17231	12786	9211
			25	20	15	35	70393	57294	46308	36506	28336	21446	15888
			40	25	20	45	62300	50571	40721	31941	24625	18468	13510
			40	25	20	55	54282	43941	35241	27490	21032	15606	11243
68VS/6B	1000	1440	30	20	15	35	84811	69029	55793	43984	34140	25838	19142
			40	25	20	45	75061	60928	49061	38483	29669	22251	16277
	1200		40	25	20	55	65400	52940	42459	33121	25340	18802	13545
			-	25	20	35	-	-	-	53220	41309	31264	23162
			-	40	25	45	-	-	-	46564	35900	26924	19696
			-	40	25	55	-	-	-	40076	30661	22751	16390
			30	20	15	35	70031	57419	45984	36346	28310	21526	15911
			30	25	15	45	62153	50797	40508	31842	24623	18548	13539
81VS	1000	1865	40	25	15	55	54300	44263	35171	27512	21138	15786	11386
			40	25	20	35	85479	70085	56128	44364	34554	26275	19421
	1200		40	25	20	45	75863	62002	49443	38865	30055	22640	16525
			50	30	20	55	66278	54027	42929	33581	25801	19269	13898
			40	25	20	35	102987	84440	67624	53451	41632	31657	23398
			40	30	20	45	91401	74701	59570	46826	36211	27277	19910
			50	30	20	55	79853	65093	51722	40459	31086	23215	16744
			50	40	25	35	124614	102172	81825	64675	50375	38304	28312
90VS	1200	2160	50	40	25	45	110596	90388	72080	56659	43815	33005	24091
			75	40	25	55	96622	78762	62583	48956	37614	28090	20261
	1450		40	25	15	35	91926	75342	60309	47635	37068	28151	20765
			40	30	20	45	81709	66808	53309	41935	32465	24495	17918
			50	30	20	55	71561	58416	46505	36471	28121	21109	15340
			50	25	20	35	110311	90410	72370	57162	44482	33781	24918
			50	40	25	45	98051	80170	63971	50323	38958	29394	21502
			50	40	20	55	85873	70099	55806	43765	33746	25331	18407
90VS	1450	2160	50	30	25	35	133292	109245	87447	69071	53749	40818	30109
			50	40	25	45	118478	96872	77298	60806	47074	35517	25981
	1750		60	40	25	55	103763	84703	67432	52882	40776	30608	22242
			-	40	30	35	-	-	-	83362	64870	49263	36338
			-	50	30	45	-	-	-	73387	56814	42866	31357
			-	50	40	55	-	-	-	63824	49212	36941	26844
			40	30	25	35	129064	105780	84673	66880	52044	39523	29154
			40	40	25	45	114720	93799	74846	58877	45581	34391	25157

■ Performance data are based on European Standard EN12900

■ Suction gas temperature = 20°C for R134a, R404A, R22 (5 K suction gas superheat for R717)

■ Liquid subcooling = 0K

■ * Recommended power

■ 性能数据根据欧洲标准EN12900

■ 吸气温度= 20°C适用于R134a, R404A, R22(5K吸气过热适用于R717)

■ 液体过冷=0K

■ * 建议装置功率

Model 型号	r.p.m. 转速	Swept volume 排气量/转 [cm³]	HP-CV-PS* Power to install 功 率			Cond. Temp. 冷凝温度 [°C]	Q [W]	Refrigerating capacity / 制冷量								
								Evaporating temperature / 蒸发温度 [°C]								
								C			S			B		
			C	S	B		+5	0	-5	-10	-15	-20	-25	-30	-35	-40
2Q-2	800	27,2	0,75	0,75	0,5	30	1393	1168	1021	841	699	574	427	353	303	221
			0,75	0,75	0,5	40	1187	1002	862	708	580	471	342	272	183	132
			1	1	0,75	50	966	823	702	581	477	385	279	228	156	96
	1000		0,75	0,75	0,75	30	1741	1460	1276	1051	873	717	533	441	378	276
			1	1	1	40	1484	1253	1077	885	725	588	428	340	229	165
			1,5	1,5	1	50	1207	1028	878	726	597	481	349	284	195	119
	1200		1,5	1,5	1,5	30	2087	1750	1530	1259	1047	860	639	529	454	331
			1,5	1,5	1,5	40	1779	1501	1291	1060	869	705	512	407	275	198
			2	2	1,5	50	1447	1232	1052	870	715	576	418	341	233	143
	1450		2	2	2	30	2524	2116	1850	1523	1266	1039	773	639	549	400
			2	2	2	40	2151	1815	1561	1282	1051	853	620	493	332	239
			2	2	2	50	1749	1490	1272	1052	864	697	505	412	282	173
2Q-3	800	34,0	0,75	0,75	0,5	30	1754	1470	1286	1058	880	722	537	444	381	278
			0,75	0,75	0,5	40	1495	1262	1085	891	730	593	431	342	231	166
			1	1	0,75	50	1216	1036	884	731	601	484	351	287	196	120
	1000		0,75	0,75	0,75	30	2193	1838	1607	1323	1100	903	672	556	477	348
			1	1	1	40	1869	1577	1357	1114	913	741	538	428	289	208
			1,5	1,5	1	50	1520	1295	1105	914	751	606	439	358	245	150
	1200		1,5	1,5	1,5	30	2628	2203	1926	1586	1318	1082	805	666	571	417
			1,5	1,5	1,5	40	2240	1890	1626	1335	1094	888	645	513	346	249
			2	2	1,5	50	1822	1552	1325	1095	900	726	526	429	294	180
	1450		2	2	2	30	3178	2664	2329	1917	1594	1309	973	805	691	504
			2	2	2	40	2709	2286	1966	1614	1323	1074	780	620	419	301
			3	3	2	50	2203	1876	1602	1324	1089	878	636	519	355	218
2Q-4	800	43,1	1	1	0,75	30	2217	1859	1625	1338	1112	913	679	562	482	352
			1,5	1	1	40	1890	1595	1372	1126	923	749	544	433	292	210
			1,5	1,5	1	50	1537	1309	1118	924	759	612	444	362	248	152
	1000		1,5	1,5	1	30	2772	2323	2031	1672	1390	1141	849	702	602	440
			2	1,5	1	40	2362	1993	1715	1408	1154	936	680	541	365	263
			2	2	1,5	50	1921	1636	1397	1155	949	765	555	453	310	190
	1200		2	2	1,5	30	3322	2784	2435	2004	1666	1368	1018	842	722	527
			3	2	1,5	40	2831	2389	2055	1687	1383	1122	816	648	438	315
			3	3	2	50	2303	1961	1675	1384	1138	917	665	543	371	228
	1450		3	3	2	30	4017	3367	2944	2423	2015	1654	1230	1018	873	637
			4	3	2	40	3424	2889	2485	2040	1672	1357	986	784	529	380
			4	4	3	50	2784	2372	2025	1674	1376	1109	804	656	449	275
2Q-5	800	54,4	1,5	1,5	1	30	2786	2336	2042	1681	1398	1148	853	706	606	442
			2	1,5	1	40	2375	2004	1724	1415	1160	941	684	544	367	264
			2	2	1,5	50	1931	1645	1405	1161	954	770	558	455	311	191
	1000		2	2	1,5	30	3483	2919	2553	2101	1747	1434	1067	883	757	553
			3	2	1,5	40	2969	2505	2155	1769	1450	1177	855	680	459	330
			3	3	2	50	2414	2056	1756	1451	1193	962	697	569	389	239
	1200		3	3	2	30	4174	3499	3059	2518	2094	1719	1279	1058	907	662
			4	3	2	40	3558	3002	2583	2120	1738	1410	1025	815	550	395
			4	4	3	50	2893	2465	2104	1739	1430	1153	836	682	467	286
	1450		4	4	3	30	5048	4231	3699	3045	2532	2079	1546	1279	1097	801
			5	4	3	40	4302	3630	3123	2564	2101	1705	1239	985	665	478
			5	5	4	50	3499	2980	2545	2103	1729	1394	1011	824	564	346
1HVS	800	76	1,5	1,5	1,5	30	3924	3289	2876	2368	1968	1616	1202	994	853	623
			2	2	1,5	40	3345	2823	2428	1993	1633	1326	963	766	517	372
			2	2	2	50	2720	2317	1978	1635	1344	1084	786	641	439	269
	1000		2	2	2	30	4905	4112	3595	2960	2460	2020	1503	1243	1066	778
			3	3	2	40	4181	3528	3035	2492	2042	1657	1204	957	646	465
			3	3	2	50	3400	2896	2473	2044	1680	1355	982	801	548	336
	1200		3	3	3	30	5879	4928	4309	3547	2949	2421	1801	1490	1278	933
			4	4	3	40	5011	4229	3637	2986	2447	1986	1443	1147	774	557
			4	4	3	50	4075	3471	2964	2450	2014	1624	1177	960	657	403
	1450		4	4	4	30	7109	5959	5210	4289	3566	2928	2178	1801	1545	1128
			5	4	4	40	6060	5113	4398	3611	2959	2402	1745	1387	936	673
			5	5	5	50	4928	4197	3584	2962	2435	1963	1424	1161	795	487
2GVS	800	170	4	3	3	30	8744	7329	6408	5275	4386	3601	2678	2216	1900	1387
			4	3	2,5	40	7453	6289	5410	4441	3640	2954	2147	1706	1152	828
			4	3	2,5	50	6061	5162	4408	3644	2995	2415	1751	1428	977	599
	1000		4	4	4	30	10934	9165	8013	6597	5484	4503	3349	2770	2376	1735
			4	4	3	40	9319	7864	6764	5554	4551	3694	2684	2134	1440	1036
			4	4	3	50	7579	6455	5512	4556	3745	3020	2190	1786	1222	750
	1200		5,5	5,5	4	30	13124	11001	9618	7918	6583	5405	4020	3325	2852	2082
			7,5	5,5	4	40	11186	9439	8119	6666	5463	4434	3222	2561	1728	1243
			7,5	5,5	4	50	9097	7748	6616	5469	4495	3624	2628	2144	1467	900
	1450		7,5	5,5	4	30	15869	13302	11630	9574	7960	6536	4861	4021	3449	2518
			7,5	7,5	5,5	40	13526	11414	9818	8060	6605	5361	3896	3097	2090	1503
			7,5	7,5	5,5	50	10999	9369	8000	6613	5436	4383	3178	2592	1774	1088

Model 型号	r.p.m. 转速	Swept volume 排气量/转 [cm³]	HP-CV-PS* Power to install 功 率 C S B			Cond. Temp. 冷凝温度 [°C]	Q [W]	Refrigerating capacity / 制冷量										
								Evaporating temperature / 蒸发温度 [°C]										
										C		S				B		
+5	0	-5	-10	-15	-20	-25	-30	-35	-40									
3LVS	800	351	5,5	5,5	4	30	19153	16101	13145	10685	8538	6897	5478	4195	3183	2427		
			7,5	5,5	4	40	15650	13215	10739	8765	6949	5441	4248	3268	2518	1936		
	-		7,5	5,5	50	-	-	-	-	-	-	4210	3446	2410	1694	1196		
	1000		7,5	7,5	5	30	23948	20133	16436	13360	10676	8624	6849	5245	3980	3035		
			10	7,5	5	40	19568	16524	13428	10960	8689	6804	5312	4086	3149	2421		
	-		10	7,5	50	-	-	-	-	-	-	5264	4309	3013	2118	1495		
	1200		10	7,5	7,5	30	33727	28354	23148	18816	15036	12145	9646	7387	5605	4275		
			15	10	7,5	40	27559	23271	18911	15435	12238	9582	7481	5755	4435	3409		
	-		-	7,5	50	-	-	-	-	-	-	7414	6069	4243	2983	2105		
	1300		10	10	7,5	30	31142	26181	21374	17374	13883	11214	8907	6821	5175	3947		
			15	15	10	40	25447	21487	17462	14253	11300	8847	6908	5314	4095	3148		
	41VSR 41VSM/3B 41VSM/4B		1000	560	-	-	15	50	-	-	-	-	-	6846	5604	3918	2754	1944
15		15			10	30	38979	32471	26622	21589	17379	13788	13238	10639	6474	4531		
25		15	10		40	33345	27151	22127	17963	14437	10879	9000	6761	5076	3834			
15		15	15		50	25917	21996	17732	14552	11599	8779	7121	4943	3632	2796			
1200		15	15		15	30	46793	38981	31959	25917	20864	16552	15892	12772	7772	5439		
		20	20		15	40	40031	32595	26563	21565	17331	13061	10804	8117	6094	4603		
51VSR 51VSM	800	949	20	20	20	50	31113	26406	21287	17469	13925	10539	8549	5934	4360	3356		
			20	20	20	30	50023	41917	34466	27736	22699	17885	14689	11346	8495	5989		
	25		20	20	40	43263	34712	28182	22734	18634	13950	11728	8634	6385	4726			
	25		25	20	50	33450	28217	22607	18346	14784	11085	9090	6727	4962	3619			
	1000		20	20	20	30	62247	52160	42889	34514	28246	22255	18279	14119	10571	7453		
			25	20	20	40	53835	43195	35069	28289	23187	17359	14594	10744	7946	5881		
	1200		25	25	20	50	41624	35113	28132	22829	18397	13794	11311	8371	6174	4504		
			25	25	25	30	74997	62844	51674	41583	34031	26813	22023	17011	12736	8979		
	63VS/4B 63VS/6B		800	1245	30	25	25	40	64862	52043	42251	34084	27937	20914	17583	12945	9573	7086
					30	30	25	50	50150	42304	33894	27505	22165	16619	13628	10086	7439	5426
			1000		30	30	25	30	99949	83905	68589	55938	45167	35867	29649	22835	17322	12791
					40	30	25	40	86295	69329	56458	46309	37019	29046	23643	17976	13792	10731
1450		50	50		25	50	66840	56784	45793	37694	28841	23016	16864	14485	11119	-		
		40	30		25	30	120857	101457	82937	67640	54616	43370	35851	27612	20945	15467		
1750		40	40		25	40	104347	83832	68269	55997	44763	35123	28589	21736	16677	12976		
		50	50		30	50	80822	68662	55372	45579	34875	27831	20391	17515	13445	-		
68VS/6B		1450	1440		50	40	40	30	145874	122459	100105	81641	65921	52348	43272	33328	25281	18669
					-	50	30	40	-	-	-	67588	54029	42393	34507	26235	20129	15662
		-			-	-	50	-	-	-	-	-	-	-	-	-	-	
		1750			50	50	40	30	143698	121521	98994	81129	64974	51864	42187	32193	24193	17337
	60			50	40	40	123608	99914	80760	66597	52822	41564	33294	24831	18585	13990		
	75	60		40	50	95121	81137	64930	53439	40440	32186	26086	17333	11650	-			
81VS	1450	1865	60	60	50	30	173444	146676	119486	97923	78423	62600	50920	38857	29201	20926		
			75	60	50	40	149195	120596	97477	80383	63756	50168	40186	29971	22432	16886		
	1750		-	-	60	50	-	-	-	-	-	-	-	-	-	-		
			-	75	60	40	-	-	-	-	101302	80166	63062	50577	37792	28262	21143	
	1750		-	75	60	50	-	-	-	-	81094	61192	48516	39343	29062	21354	15465	
			75	70	50	30	204706	173282	141094	115579	92798	73864	60567	46038	34473	24741		
90VS	1450	2160	90	70	60	40	175885	142080	115116	94728	74964	58969	47295	35340	26428	19771		
			100	80	60	50	134965	115050	92112	75832	57221	45367	36790	27176	19969	14462		
	1750		90	80	60	30	247081	209151	170301	139504	112007	89154	73104	55567	41609	29862		
			-	85	70	40	-	-	-	-	114337	90481	71176	57085	42655	31899	23864	
	-		90	70	50	-	-	-	-	91529	69066	54758	44406	32802	24102	17455		

R404A
R507

■ Performance data are based on European Standard EN12900

■ Suction gas temperature = 20°C for R134a, R404A, R22 (5 K suction gas superheat for R717)

■ Liquid subcooling = 0K

■ * Recommended power

■ 性能数据根据欧洲标准EN12900

■ 吸气温度= 20°C适用于R134a, R404A, R22(5K吸气过热适用于R717)

■ 液体过冷=0K

■ * 建议装置功率

Model 型号	r.p.m. 转速	Swept volume 排气量/转	HP-CV-PS* Power to install 功 率			Cond. Temp. 冷凝温度	Q [W]	Refrigerating capacity / 制冷量								
								Evaporating temperature / 蒸发温度 [°C]								
							C	S	B	+5	0	-5	-10	-15	-20	-25
2Q-2	800	27,2	0,5	0,5	0,5	30	1296	1078	933	759	621	501	380	307	249	201
			0,75	0,75	0,5	40	1144	955	811	655	527	418	309	235	179	136
	1000		0,75	0,75	0,5	50	984	826	693	562	451	354	256	200	157	123
			0,75	0,75	0,75	30	1626	1352	1170	952	779	628	477	386	312	253
	1200		1	1	0,75	40	1435	1198	1017	822	661	525	387	295	224	171
			1	1	0,75	50	1235	1036	869	704	566	444	321	251	197	154
			1	1	1	30	1956	1626	1408	1145	937	755	573	464	375	304
			1,5	1,5	1	40	1726	1441	1223	989	796	632	466	354	269	205
			1,5	1,5	1	50	1485	1246	1046	847	681	534	387	302	237	185
			1,5	1,5	1,5	30	2357	1960	1696	1379	1129	910	691	559	452	366
	1450		1,5	1,5	1,5	40	2080	1736	1474	1192	959	761	561	427	325	247
			1,5	1,5	1,5	50	1789	1501	1260	1021	820	643	466	364	285	223
2Q-3	800	34,0	0,5	0,5	0,5	30	1620	1347	1166	948	776	626	475	384	311	252
			0,75	0,75	0,5	40	1430	1193	1013	819	659	523	386	294	223	170
	1000		0,75	0,75	0,5	50	1230	1032	866	702	564	442	320	251	196	153
			0,75	0,75	0,75	30	2033	1690	1463	1189	974	785	596	482	390	316
	1200		1	1	0,75	40	1794	1497	1271	1028	827	656	484	368	280	213
			1	1	0,75	50	1543	1295	1087	881	707	555	402	314	246	193
			1	1	1	30	2445	2033	1760	1431	1172	944	717	580	469	380
			1,5	1,5	1	40	2158	1801	1529	1236	995	789	582	443	337	256
			1,5	1,5	1	50	1856	1558	1307	1059	851	667	483	378	296	232
			1,5	1,5	1,5	30	2946	2449	2120	1724	1412	1138	864	699	565	457
	1450		1,5	1,5	1,5	40	2600	2170	1843	1490	1198	951	701	534	406	309
			1,5	1,5	1,5	50	2237	1877	1575	1276	1025	804	582	456	356	279
2Q-4	800	43,1	0,75	0,75	0,75	30	2058	1711	1481	1204	986	795	603	488	395	320
			1	1	0,75	40	1816	1516	1287	1041	837	664	490	373	283	216
	1000		1	1	0,75	50	1562	1311	1100	891	716	561	407	318	249	195
			1	1	1	30	2582	2146	1858	1511	1237	997	757	612	495	401
	1200		1,5	1,5	1	40	2278	1902	1615	1305	1050	833	615	468	356	271
			1,5	1,5	1	50	1960	1644	1380	1118	898	704	510	399	312	244
			1,5	1,5	1,5	30	3105	2582	2235	1817	1488	1199	910	736	596	482
			2	2	1,5	40	2740	2287	1942	1570	1263	1003	739	563	428	326
			2	2	1,5	50	2357	1978	1660	1345	1080	847	614	480	376	294
			2	2	2	30	3741	3111	2693	2189	1793	1445	1097	887	718	581
	1450		2	2	2	40	3301	2756	2340	1892	1522	1208	891	678	515	392
			2	2	2	50	2840	2383	2000	1621	1302	1021	740	578	453	354
2Q-5	800	54,4	1	1	1	30	2576	2142	1854	1508	1234	995	755	611	494	400
			1,5	1,5	1	40	2273	1898	1611	1303	1048	832	613	467	355	270
	1000		1,5	1,5	1	50	1956	1641	1377	1116	896	703	509	398	312	244
			1,5	1,5	1,5	30	3232	2687	2326	1891	1549	1248	948	766	620	502
	1200		2	2	1,5	40	2852	2381	2021	1634	1315	1043	769	585	445	339
			2	2	1,5	50	2454	2059	1728	1400	1125	882	639	500	391	306
			2	2	2	30	3888	3233	2798	2275	1863	1501	1140	922	746	604
			3	3	2	40	3431	2864	2432	1966	1581	1255	926	704	535	408
			3	3	2	50	2952	2476	2078	1684	1353	1061	769	601	470	368
			3	3	3	30	4684	3895	3371	2741	2244	1809	1373	1111	898	727
	1450		3	3	3	40	4133	3450	2930	2369	1905	1512	1115	849	645	491
			3	3	3	50	3556	2984	2504	2029	1630	1278	926	724	567	444
1HVS	800	76	1	1	1	30	3629	3018	2612	2124	1739	1402	1064	861	696	564
			1,5	1,5	1	40	3203	2673	2270	1835	1476	1172	864	657	500	381
	1000		1,5	1,5	1	50	2755	2312	1940	1572	1263	990	718	561	439	344
			1,5	1,5	1,5	30	4553	3786	3277	2664	2182	1758	1335	1080	873	707
	1200		2	2	1,5	40	4018	3354	2848	2303	1852	1470	1084	825	627	477
			2	2	1,5	50	3457	2900	2434	1973	1584	1242	900	704	551	431
			2	2	2	30	5477	4554	3942	3205	2624	2115	1606	1299	1051	851
			3	3	2	40	4833	4034	3426	2770	2228	1768	1304	992	754	574
			3	3	2	50	4158	3489	2928	2373	1906	1495	1083	847	662	519
			3	3	3	30	6599	5487	4750	3861	3162	2548	1935	1565	1266	1025
	1450		3	3	3	40	5823	4861	4127	3337	2684	2130	1571	1195	909	692
			3	3	3	50	5010	4203	3528	2859	2296	1801	1305	1020	798	625
2GVS	800	170	3	2	2	30	8102	6736	5831	4741	3882	3129	2375	1921	1554	1258
			3	2,5	2	40	7149	5967	5067	4097	3295	2615	1929	1468	1116	849
	1000		3	2,5	2	50	6150	5160	4331	3510	2819	2211	1602	1253	980	767
			3	3	3	30	10164	8451	7315	5947	4870	3925	2980	2410	1949	1578
	1200		3,5	3	2,5	40	8968	7486	6357	5140	4134	3281	2420	1841	1400	1066
			3,5	3	2,5	50	7716	6474	5434	4403	3536	2773	2009	1571	1229	963
			4	4	3	30	12226	10165	8800	7154	5858	4721	3584	2899	2345	1899
			5,5	4	3	40	10788	9005	7647	6182	4973	3947	2911	2215	1684	1282
			5,5	4	3	50	9281	7788	6536	5296	4254	3336	2417	1890	1479	1158
			5,5	4	3	30	14730	12247	10602	8619	7058	5689	4318	3493	2825	2287
	1450		5,5	5,5	4	40	12998	10850	9213	7449	5992	4755	3507	2668	2029	1544
			5,5	5,5	4	50	11183	9383	7875	6381	5125	4019	2912	2278	1782	1393

R22

■ Performance data are based on European Standard EN12900

■ Suction gas temperature = 20°C for R134a, R404A, R22 (5 K suction gas superheat for R717)

■ Liquid subcooling = 0K

■ * Recommended power

■ Use with R22 only where permitted by national legislation

■ 性能数据根据欧洲标准EN12900

■ 吸气温度= 20°C适用于R134a, R404A, R22(5K吸气过热适用于R717)

■ 液体过冷=0K

■ * 建议装置功率

■ R22只能在当地法规允许时使用

R22

Model 型号	r.p.m. 转速	Swept volume 排气量/转 [cm³]	HP-CV-PS* Power to install 功 率			Cond. Temp. 冷凝温度 [°C]	Q [W]	Refrigerating capacity / 制冷量									
			Evaporating temperature / 蒸发温度 [°C]														
			C					S			B						
			+5	0	-5			-10	-15	-20	-25	-30	-35	-40			
3LVS	800	351	4	4	3	30	16295	13641	11056	8911	7057	5645	4231	3117	2299	1693	
			5,5	4	3	40	10398	8680	7370	5959	4793	3804	2805	2135	1623	1236	
			-	5,5	4	50	-	-	-	6784	5110	3992	2871	1896	1250	824	
	1000		5,5	5,5	4	30	20369	17051	13820	11138	8822	7057	5289	3896	2874	2111	
			7,5	5,5	4	40	12998	10850	9213	7449	5992	4755	3507	2668	2029	1544	
			-	7,5	5,5	50	-	-	9937	8479	6388	4990	3589	2370	1563	1030	
	1200		7,5	5,5	5,5	30	24442	20462	16584	13366	10586	8468	6346	4676	3448	2540	
			10	7,5	5,5	40	15597	13020	11056	8938	7190	5706	4208	3202	2435	1853	
			-	-	5,5	50	-	-	-	-	-	-	4306	2843	1876	1236	
	1300		7,5	7,5	5,5	30	26479	22167	17966	14480	11468	9174	6875	5065	3736	2752	
			10	10	7,5	40	16897	14105	11977	9683	7789	6182	4559	3469	2637	2008	
			-	-	10	50	-	-	-	-	-	-	4665	3080	2032	1338	
41VSR 41VSM/3B 41VSM/4B	1000	560	10	10	7,5	30	34732	28803	23477	18899	15079	11834	8984	6734	4847	3228	
			10	10	7,5	40	30771	24908	20161	16238	12932	9643	7265	5249	3788	2736	
			10	10	10	50	25508	21489	17185	13980	11035	8260	5873	3836	2722	1934	
	1200		10	10	10	30	41846	34702	28286	22770	18168	14258	10824	8113	5839	3890	
			15	15	10	40	37074	30010	24291	19564	15580	11618	8753	6324	4564	3297	
			15	15	15	50	30732	25891	20705	16844	13295	9952	7076	4622	3280	2330	
51VSR 51VSM	800	949	15	15	15	30	45502	38002	31112	24898	20236	15808	12022	8999	6476	4317	
			20	15	15	40	41241	32974	26658	21398	17437	12966	9816	6948	4918	3480	
			20	20	15	50	34394	28870	23014	18580	14896	11112	7876	5579	3947	2794	
	1000		15	15	15	30	57222	47791	39126	31311	25448	19880	15119	11317	8145	5429	
			20	15	15	40	51863	41467	33524	26909	21929	16306	12344	8737	6185	4376	
			20	20	15	50	43253	36306	28942	23366	18732	13974	9905	7016	4964	3513	
	1200		20	20	20	30	68942	57579	47140	37724	30660	23952	18215	13635	9813	6541	
			25	20	20	40	62486	49960	40391	32421	26420	19645	14873	10527	7452	5273	
			25	25	20	50	52113	43742	34870	28152	22569	16836	11933	8453	5981	4233	
			25	25	20	30	95280	79545	64556	52159	41615	32543	24887	18341	13144	8951	
63VS/4B 63VS/6B	1200	1245	30	25	20	40	86049	68586	55326	44864	35370	27283	19978	14406	10387	7485	
			40	30	20	50	71317	59942	47758	38766	29180	22834	16326	11673	8347	-	
			30	25	20	30	114795	95838	77778	62842	50138	39208	29984	22098	15836	10785	
	1450		30	30	20	40	103674	82634	66658	54053	42614	32871	24069	17356	12514	9019	
			40	40	25	50	85924	72219	57540	46707	35157	27511	19670	14064	10056	-	
			40	30	30	30	138901	115964	94112	76039	60668	47442	36281	26739	19162	13050	
	1750		-	40	25	40	-	-	-	-	65404	51563	39774	29124	21001	15142	10912
			-	-	-	50	-	-	-	-	-	-	-	-	-	-	-
			40	40	30	30	131966	111304	90339	73674	58635	46436	35323	26152	18937	12875	
68VS/6B	1450	1440	50	40	30	40	119440	96171	77383	63474	50037	39093	28522	20504	14734	10587	
			60	50	30	50	98843	83895	66801	54696	41176	32605	23239	14499	9045	-	
			50	50	40	30	159678	134678	109310	89145	70948	56187	42741	31644	22914	15579	
	1750		60	50	40	40	144523	116367	93633	76803	60545	47303	34511	24810	17829	12811	
			-	-	50	50	-	-	-	-	-	-	39453	28120	17544	10944	10189
			50	40	40	30	165159	139461	113164	92274	73658	58206	44508	32847	23719	16203	
81VS	1450	1865	60	50	40	40	148932	119900	96771	79285	62443	48868	35639	25750	18599	13437	
			60	50	40	50	123569	104833	83557	68509	51526	40775	29071	20725	14777	10535	
			60	50	50	30	199842	168748	136928	111652	89126	70429	53855	39745	28701	19606	
	1750		75	60	50	40	180207	145079	117093	95935	75556	59131	43123	31158	22505	16259	
			-	60	50	50	-	-	-	82895	62346	49337	35175	25077	17880	12748	
90VS	1450	2160	60	50	40	30	185010	156223	126765	103365	82511	65202	49857	36795	26570	18151	
			70	60	40	40	166832	134311	108403	88814	69948	54742	39923	28845	20834	15052	
			80	70	50	50	138421	117433	93600	76743	57719	45675	32565	23216	16553	11801	
	1750		70	60	50	30	223862	189030	153386	125071	99838	78894	60327	44522	32150	21962	
			80	70	60	40	201867	162516	131167	107466	84637	66238	48307	34902	25210	18213	
			-	80	60	50	-	-	-	92859	69840	55267	39403	28091	20029	14280	

■ Performance data are based on European Standard EN12900

■ Suction gas temperature = 20°C for R134a, R404A, R22 (5 K suction gas superheat for R717)

■ Liquid subcooling = 0K

■ * Recommended power

■ Use with R22 only where permitted by national legislation

■ 性能数据根据欧洲标准EN12900

■ 吸气温度= 20°C适用于R134a, R404A, R22(5K吸气过热适用于R717)

■ 液体过冷=0K

■ * 建议装置功率

■ R22只能在当地法规允许时使用

R717

Model 型号	r.p.m. 转速	Swept volume 排气量/转	HP-CV-PS* Power to install 功 率		Cond. Temp. 冷凝温度	Q [W]	Refrigerating capacity / 制冷量						
						Evaporating temperature / 蒸发温度 [°C]							
		C	S	[°C]	+15	+10	+5	0	-5	-10	-15		
		[cm ³]	C	S	[°C]	+15	+10	+5	0	-5	-10	-15	
41VSR 41VSM/3B 41VSM/4B	800	560	10	7,5	40	44220	36500	29700	23700	18600	14400	10800	
	1000		15	10	40	55300	45700	37100	29700	23200	17900	13500	
	1200		15	10	40	66300	54800	44600	35600	27900	21600	16300	
51VSR 51VSM	800	949	15	15	40	75000	61900	50300	40300	31500	24400	18400	
	1000		20	15	40	93600	77400	62900	50300	39300	30400	23000	
	1200		20	20	40	112400	92900	75500	60400	47200	36600	27500	
63VS/4B 63VS/6B	1000	1245	25	20	40	122900	101500	82500	66000	51600	40000	30100	
	1200		30	25	40	147400	121800	99000	79300	62000	48000	36100	
	1450		40	30	40	178100	147200	119700	95800	74900	57900	43700	
68VS/6B	1000	1440	30	25	40	142100	117400	95500	76400	59700	46200	34800	
	1200		40	30	40	170500	141000	114600	91700	71600	55500	41800	
	1450		40	40	40	206000	170300	138500	110800	86600	67000	50500	
81VS	1000	1865	40	30	40	184000	152128	123700	98900	77300	59900	45100	
	1200		40	40	40	220900	182500	148400	118700	92800	71800	54100	
	1450		50	40	40	267000	220600	179300	143500	112100	86800	65400	
90VS	1000	2160	50	40	40	209760	173426	141018	112746	88122	68286	51414	
	1200		50	50	40	251826	208050	169176	135318	105792	81852	61674	
	1450		70	60	40	304380	251484	204402	163590	127794	98952	74556	

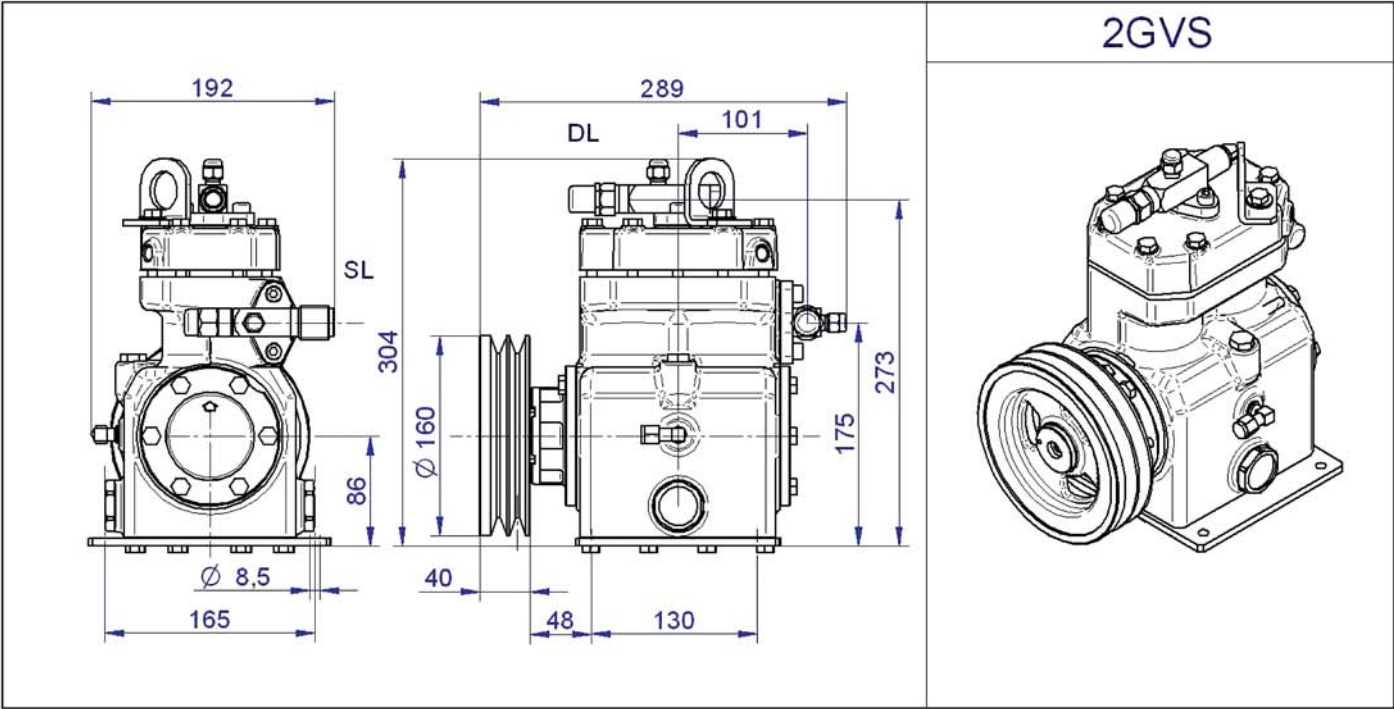
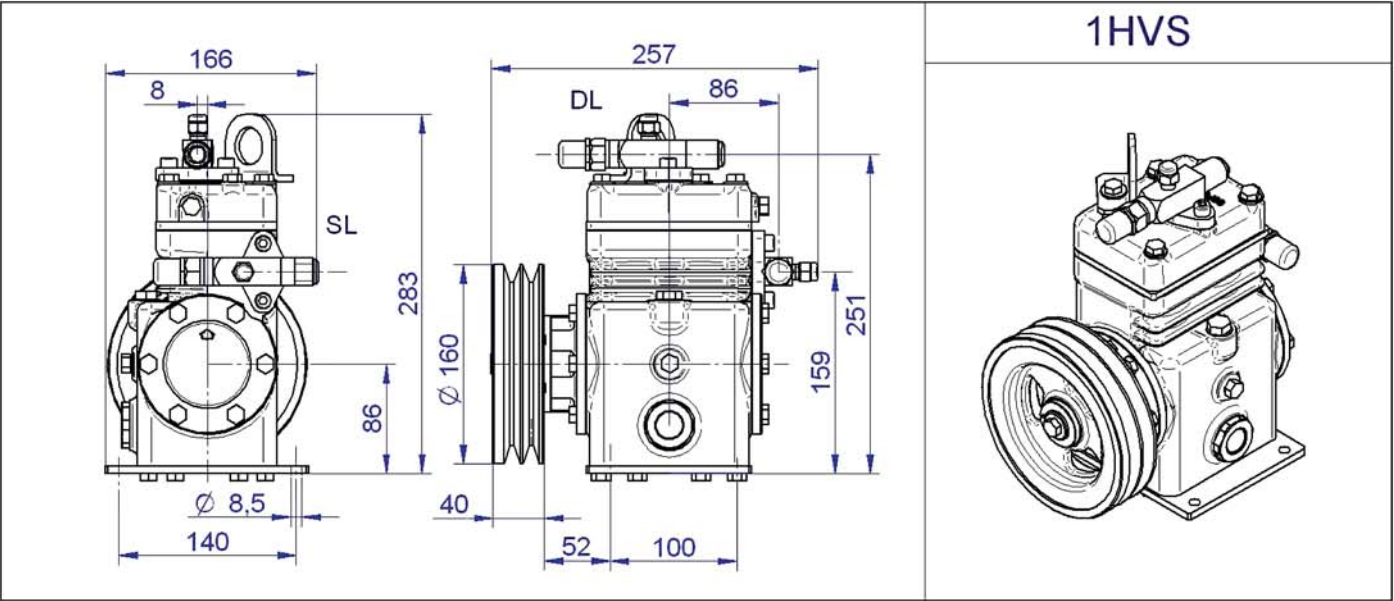
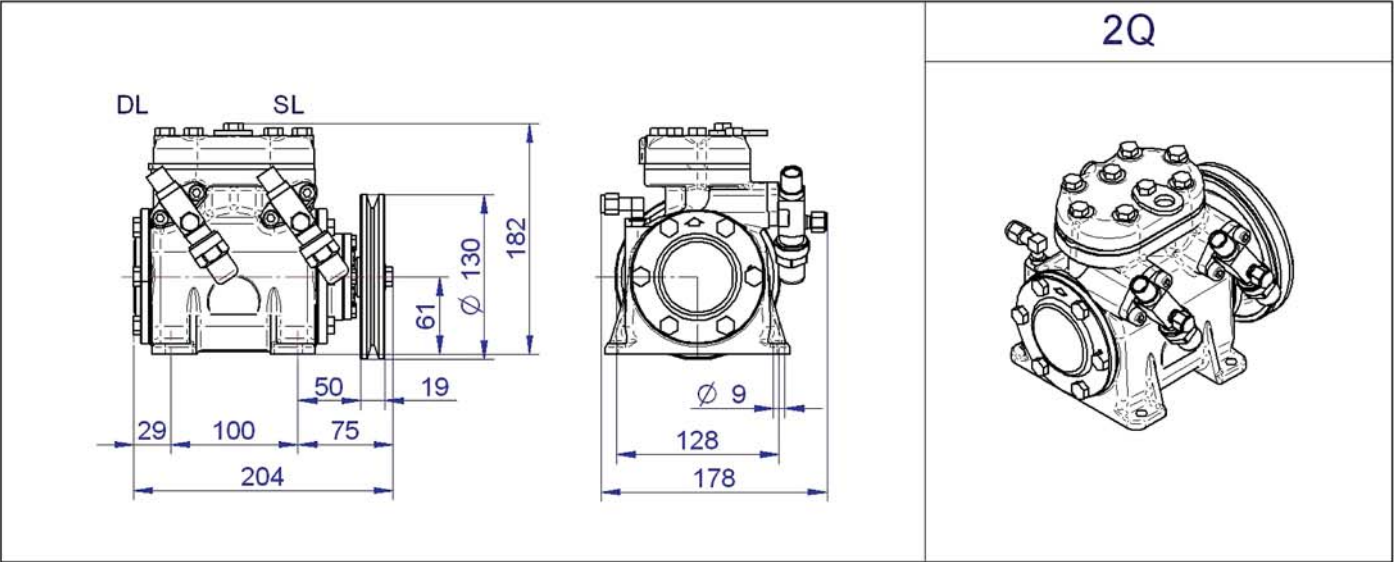
Performance data are based on European Standard EN12900

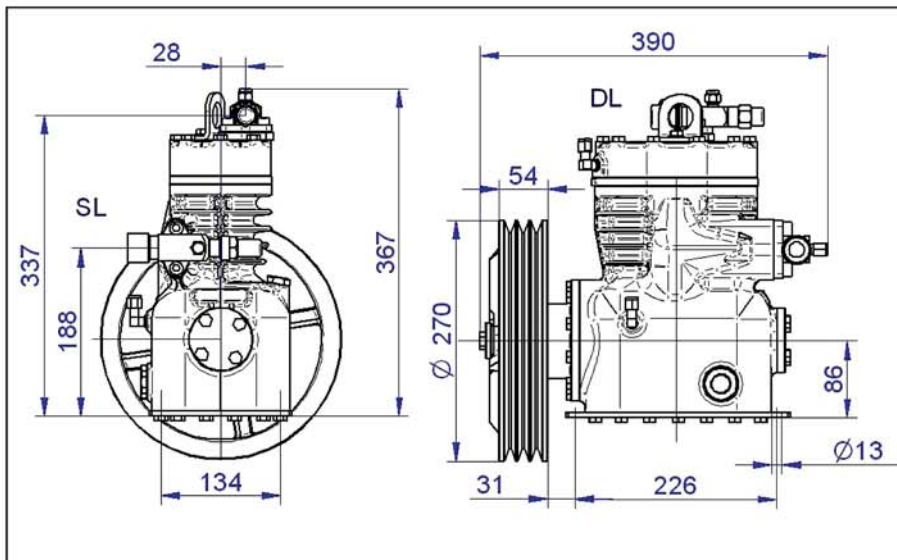
Suction gas temperature = 20°C for R134a, R404A, R22 (5 K suction gas superheat for R717)

Liquid subcooling = 0K

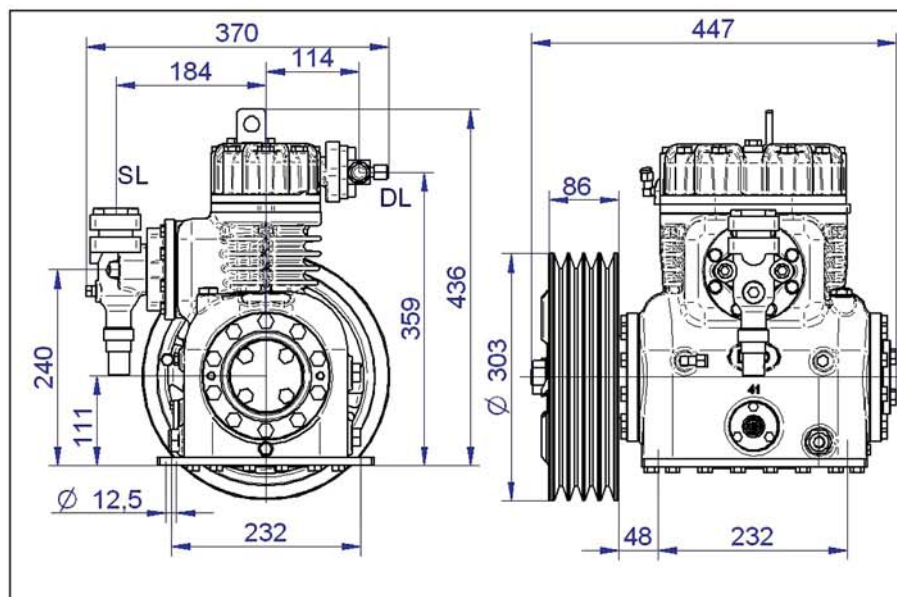
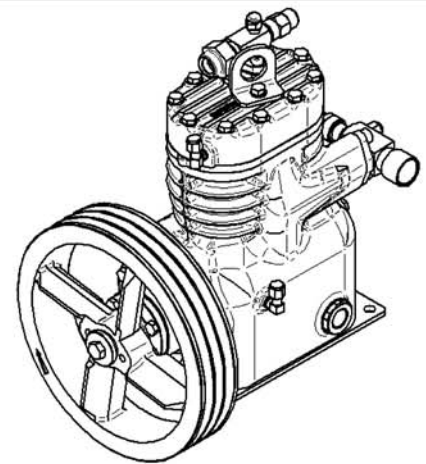
* Recommended power

- 性能数据根据欧洲标准EN12900
- 吸气温度= 20°C适用于R134a, R404A, R22 (5K吸气过热适用于R717)
- 液体过冷=0K
- * 建议装置功率

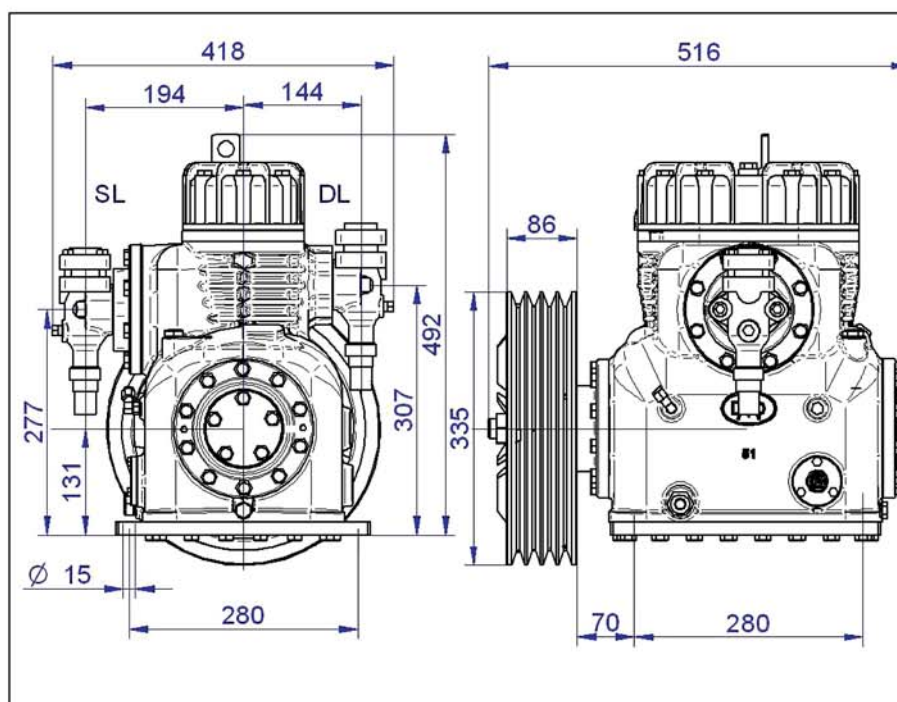
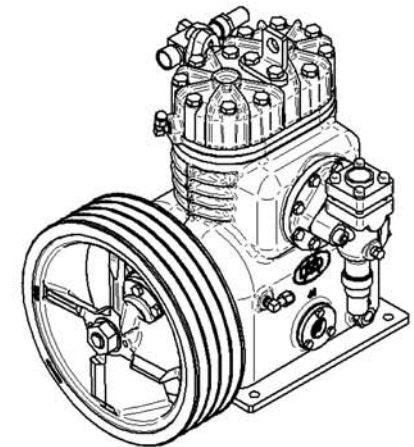




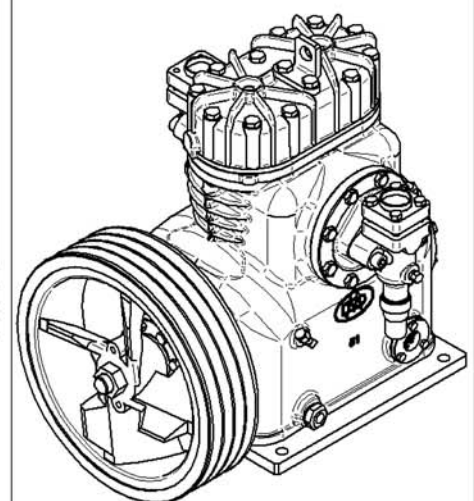
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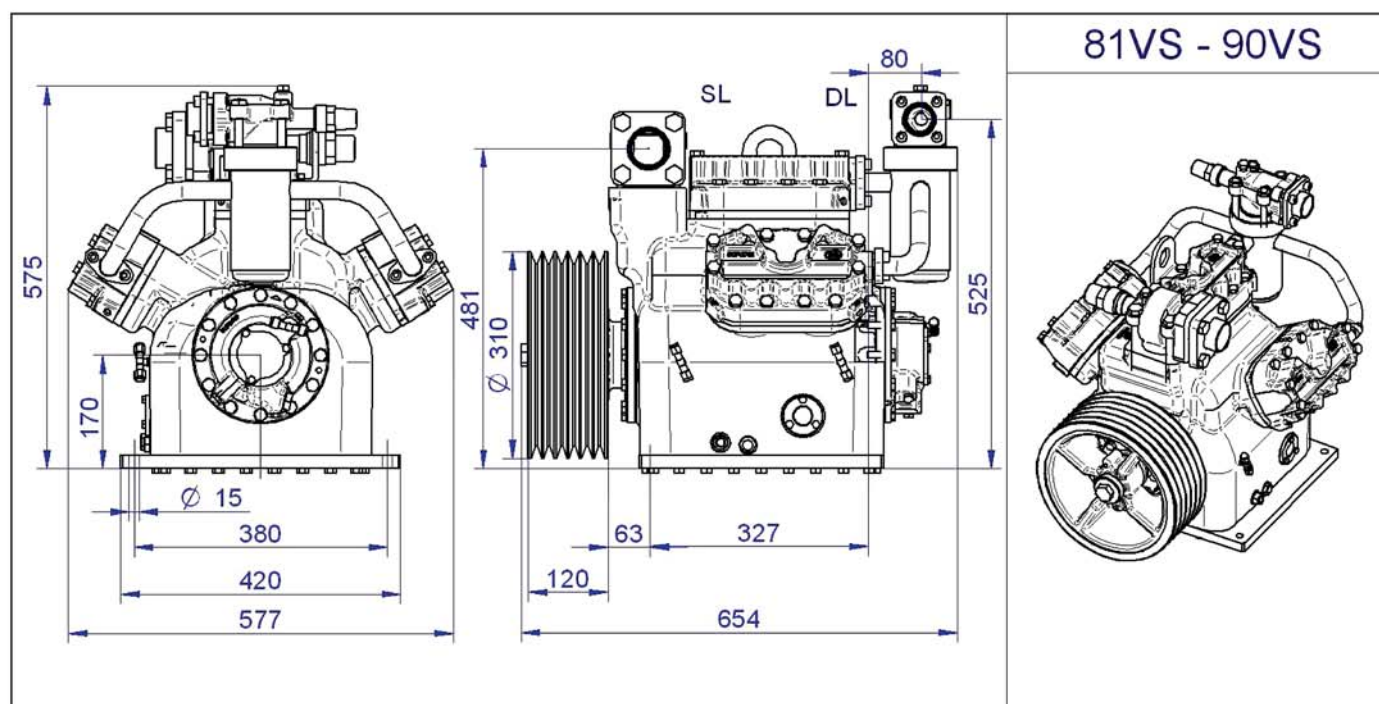
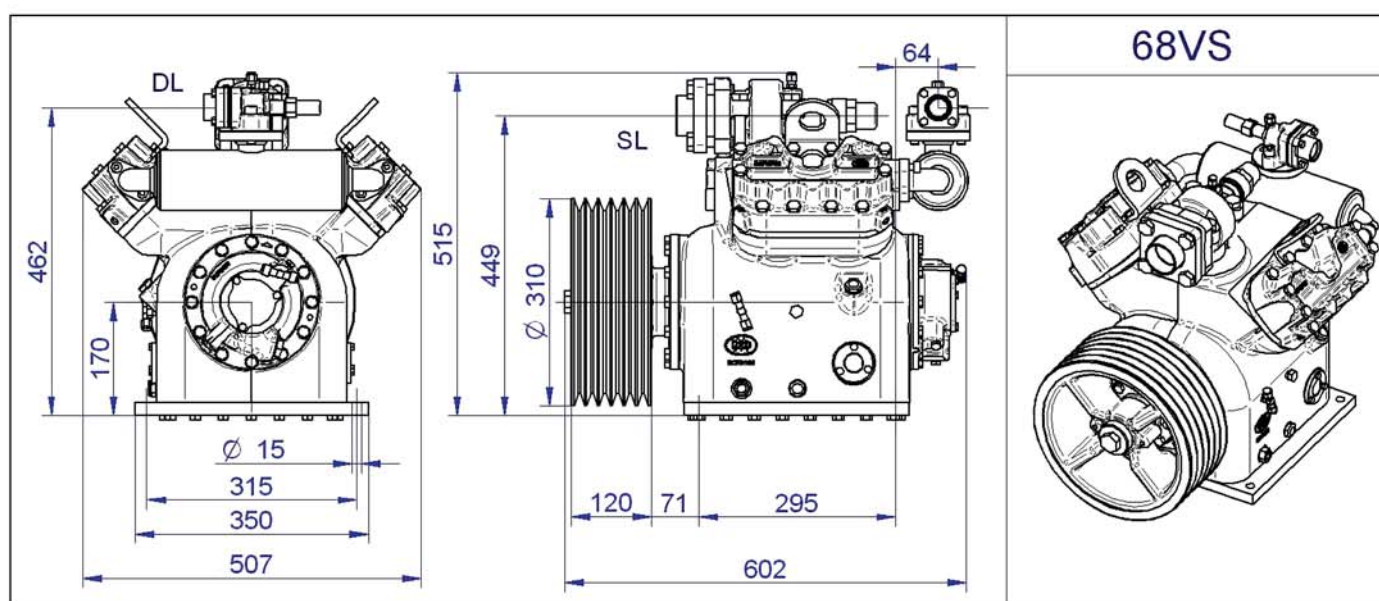
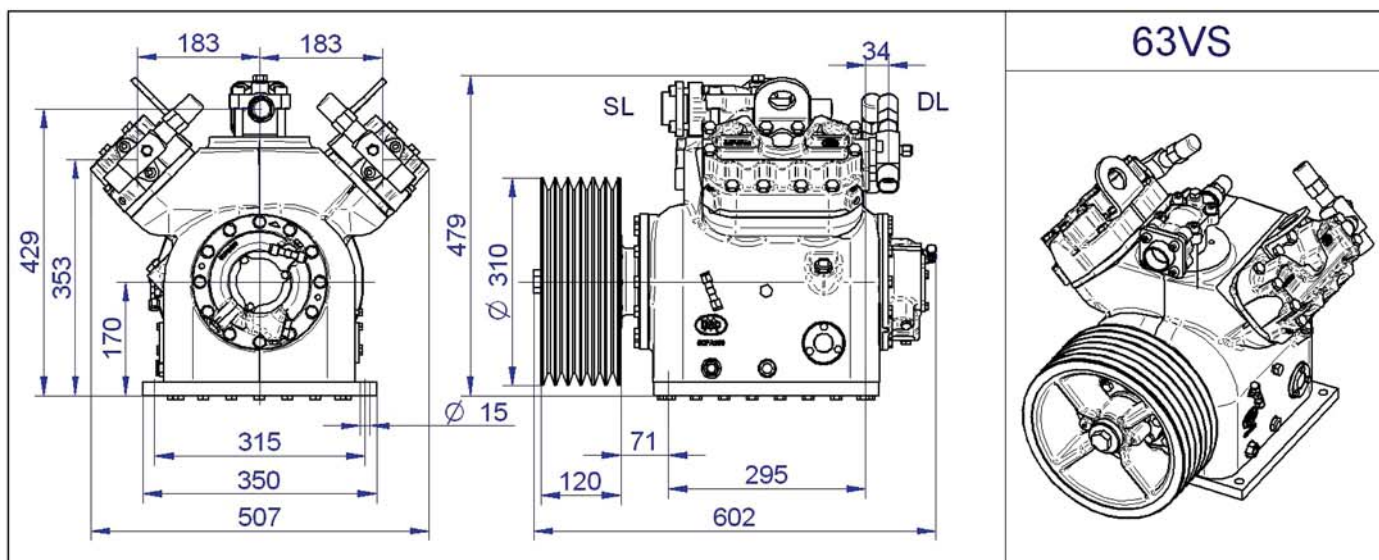


41VS



51VS







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