

CUBIGEL HERMETIC R290 & R600a COMPRESSORS



R290 & R600a Cubigel Compressors

Cubigel Compressors® aims to provide quality and environmentally friendly products using cutting-edge technology. For this reason the company offers the most extended range for high efficiency Green Cooling compressors for R290 & R600a which is the consequence of the development of natural refrigerants during the last 15 years.

The increasing use of natural refrigerants in commercial applications such as propane (R290) is a priority, not only owing to the need to replace HFC refrigerants which have a high impact on the environment, but also because they are more efficient in terms of performance and energy consumption.

From a strictly technical point of view the use of these hydrocarbon refrigerants is a great solution because of their physical and chemical properties.

R290 is the best alternative due to the fact that R290 has no direct contribution to global warming (GWP = 3) and zero Ozone Depletion Potential (ODP = 0). For this reason it makes both HC refrigerants R290 and R600a even more attractive.

R600a is recommended for home appliances and small business applications and is already being used to replace R134a. For its part R290 or propane is a good alternative for light commercial applications successfully replacing R134a, R404A & even R22 in certain cases.



CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

R290 – LBP Compressors

Airefrig Part Number	Operating Conditions *ASHRAE	Cond Temp °C	Based on *ASHRAE Conditions (+32°C Liq temp & +32°C Suct gas)											Compressor Technical Information
			Evaporating Temperature °C											
			-40	-35	-30	-25	-23.3	-20	-15	-10	-5	0		
NBC35NA RSIR Low start torque (capillary application) Displacement: 3.5 cm³ Nominal HP: 1/8 Comp Cooling: Static	Capacity (w)		58	83	113	149	162	190	237	290	347	411	Volts: 220-240v / 1Ø-50Hz MCC: 1.1 amps LRA: 9.0 amps	
	Input (w)	45.0	63	73	84	94	97	104	114	124	134	144		
	Amps		0.52	0.55	0.58	0.62	0.63	0.65	0.69	0.73	0.78	0.82		
	Capacity (w)		53	77	106	140	152	179	224	276	333	394	Oil Type: ISO VG 22 Ester Oil Charge: 120 mls Comp Weight: 6.1 kg	
	Input (w)	50.0	62	74	86	98	102	109	121	133	144	156		
	Amps		0.52	0.55	0.59	0.63	0.64	0.67	0.72	0.77	0.83	0.89		
	Capacity (w)		49	71	98	130	143	169	213	263	317	378	Suction Tube: 6.1 mm Discharge Tube: 5.1 mm Service Tube: 6.1 mm	
	Input (w)	55.0	61	75	88	101	106	115	128	142	155	168		
	Amps		0.52	0.56	0.6	0.64	0.66	0.69	0.75	0.81	0.88	0.95		
NUY45LAa CSIR High start torque (TX valve & capillary) Displacement: 4.5 cm³ Nominal HP: 1/5 Comp Cooling: Fan	Capacity (w)		91	123	163	211	228	264	327	395	-	-	Volts: 220-240v / 1Ø-50Hz MCC: 1.2 amps LRA: 7.5 amps	
	Input (w)	45.0	86	98	110	122	127	135	147	159	-	-		
	Amps		0.71	0.75	0.78	0.82	0.84	0.87	0.91	0.95	-	-		
	Capacity (w)		86	117	157	204	221	257	319	387	-	-	Oil Type: ISO VG 22 Ester Oil Charge: 200 mls Comp Weight: 9.3 kg	
	Input (w)	50.0	86	100	113	127	131	140	154	168	-	-		
	Amps		0.71	0.75	0.79	0.84	0.85	0.88	0.93	0.99	-	-		
	Capacity (w)		80	112	150	197	214	250	311	379	-	-	Suction Tube: 6.2 mm Discharge Tube: 4.9 mm Service Tube: 6.2 mm	
	Input (w)	55.0	86	101	116	131	136	146	161	176	-	-		
	Amps		0.71	0.75	0.8	0.85	0.87	0.91	0.96	1.02	-	-		
NLY60LAB CSR High start torque (TX valve & capillary) Displacement: 5.98 cm³ Nominal HP: 1/5 Comp Cooling: Fan	Capacity (w)		117	157	208	270	293	341	424	518	-	-	Volts: 220-240v / 1Ø-50Hz MCC: 2.0 amps LRA: 10.0 amps	
	Input (w)	45.0	124	139	155	172	178	189	208	227	-	-		
	Amps		0.79	0.85	0.91	0.98	1.01	1.06	1.14	1.22	-	-		
	Capacity (w)		112	149	198	257	280	328	408	500	-	-	Oil Type: ISO VG 46 Mineral Oil Charge: 295 mls Comp Weight: 9.8 kg	
	Input (w)	50.0	125	141	159	177	183	195	215	236	-	-		
	Amps		0.8	0.86	0.93	1	1.03	1.08	1.17	1.26	-	-		
	Capacity (w)		105	141	187	245	267	314	393	483	-	-	Suction Tube: 6.5 mm Discharge Tube: 4.9 mm Service Tube: 6.5 mm	
	Input (w)	55.0	126	144	162	181	188	201	222	244	-	-		
	Amps		0.8	0.87	0.94	1.02	1.05	1.11	1.2	1.3	-	-		

Note: **MCC** = Maximum Continuous Current / **LRA** = Locked Rotor Amps

CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

R290 – LBP Compressors (cont'd)

Airefrig Part Number	Operating Conditions *ASHRAE	Cond Temp °C	Based on *ASHRAE Conditions (+32°C Liq temp & +32°C Suct gas)								Compressor Technical Information
			Evaporating Temperature °C								
			-40	-35	-30	-25	-23.3	-20	-15	-10	
NUT70CAa RSIR Low start torque (capillary application) Displacement: 6.7 cm³ Nominal HP: 1/4 Comp Cooling: Fan	Capacity (w)		147	198	259	331	357	413	505	606	Volts: 220-240v / 1Ø-50Hz MCC: 1.85 amps LRA: 8.8 amps
	Input (w)	45.0	122	141	160	179	185	197	215	232	
	Amps		1.03	1.09	1.15	1.22	1.24	1.28	1.35	1.41	
	Capacity (w)		141	191	250	320	347	400	490	591	Oil Type: ISO VG 10 Ester Oil Charge: 200 mls Comp Weight: 9.2 kg
	Input (w)	50.0	124	145	165	185	192	205	224	243	
	Amps		1.03	1.1	1.17	1.24	1.26	1.31	1.38	1.46	
	Capacity (w)		135	183	241	309	335	387	476	575	Suction Tube: 6.2 mm Discharge Tube: 4.9 mm Service Tube: 6.2 mm
	Input (w)	55.0	126	148	170	192	199	213	234	254	
	Amps		1.04	1.11	1.19	1.26	1.29	1.34	1.42	1.5	
NUY80LAa CSIR High start torque (TX valve & capillary) Displacement: 8.1 cm³ Nominal HP: 1/3 Comp Cooling: Fan	Capacity (w)		183	243	315	398	429	492	598	715	Volts: 220-240v / 1Ø-50Hz MCC: 2.5 amps LRA: 11.5 amps
	Input (w)	45.0	166	189	214	238	247	264	290	317	
	Amps		1.32	1.39	1.47	1.55	1.58	1.64	1.73	1.84	
	Capacity (w)		171	229	299	380	411	473	577	693	Oil Type: ISO VG 32 Ester Oil Charge: 220 mls Comp Weight: 9.5 kg
	Input (w)	50.0	167	193	219	246	255	274	302	332	
	Amps		1.33	1.4	1.49	1.58	1.61	1.68	1.78	1.89	
	Capacity (w)		159	216	284	364	393	455	556	670	Suction Tube: 6.2 mm Discharge Tube: 4.9 mm Service Tube: 6.2 mm
	Input (w)	55.0	168	196	225	254	264	284	315	346	
	Amps		1.33	1.41	1.51	1.6	1.64	1.71	1.83	1.95	
NLY90LAB CSR High start torque (TX valve & capillary) Displacement: 9.09 cm³ Nominal HP: 1/3 Comp Cooling: Fan	Capacity (w)		180	243	322	415	450	523	645	784	Volts: 220-240v / 1Ø-50Hz MCC: 2.4 amps LRA: 13.5 amps
	Input (w)	45.0	184	210	236	262	271	288	313	338	
	Amps		1.1	1.2	1.3	1.4	1.43	1.5	1.61	1.72	
	Capacity (w)		171	231	307	398	431	502	623	758	Oil Type: ISO VG 46 Mineral Oil Charge: 395 mls Comp Weight: 10.5 kg
	Input (w)	50.0	187	214	242	270	279	297	324	351	
	Amps		1.11	1.21	1.32	1.43	1.47	1.54	1.66	1.78	
	Capacity (w)		160	219	292	379	413	483	600	733	Suction Tube: 6.5 mm Discharge Tube: 4.9 mm Service Tube: 6.5 mm
	Input (w)	55.0	189	219	248	277	287	306	335	363	
	Amps		1.12	1.23	1.34	1.46	1.5	1.58	1.71	1.84	

Note: **MCC** = Maximum Continuous Current / **LRA** = Locked Rotor Amps

CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

R290 – LBP Compressors (cont'd)

Airefrig Part Number	Operating Conditions *ASHRAE	Cond Temp °C	Based on *ASHRAE Conditions (+32°C Liq temp & +32°C Suct gas)								Compressor Technical Information
			Evaporating Temperature °C								
			-40	-35	-30	-25	-23.3	-20	-15	-10	
NPY12LAB CSR High start torque (TX valve & capillary) Displacement: 12.1 cm³ Nominal HP: 3/8 Comp Cooling: Fan	Capacity (w)	45.0	244	321	420	541	586	682	844	1029	Volts: 220-240v / 1Ø-50Hz MCC: 3.2 amps LRA: 14.2 amps
	Input (w)		242	272	302	334	346	368	402	438	
	Amps		1.28	1.4	1.53	1.67	1.72	1.82	1.97	2.14	
	Capacity (w)	50.0	230	305	401	519	563	657	819	1000	Oil Type: ISO VG 32 Ester Oil Charge: 400 mls Comp Weight: 12.3 kg
	Input (w)		239	272	306	342	354	379	417	456	
	Amps		1.26	1.4	1.55	1.71	1.76	1.87	2.04	2.22	
	Capacity (w)	55.0	215	287	381	497	541	634	792	971	Suction Tube: 8.1 mm Discharge Tube: 6.5 mm Service Tube: 8.1 mm
	Input (w)		236	273	310	349	363	390	431	474	
	Amps		1.25	1.41	1.57	1.74	1.8	1.92	2.11	2.3	
NPY14LAa CSIR High start torque (TX valve & capillary) Displacement: 14.32 cm³ Nominal HP: 1/2 Comp Cooling: Fan	Capacity (w)	45.0	302	394	512	652	706	818	1007	1221	Volts: 220-240v / 1Ø-50Hz MCC: 3.9 amps LRA: 18.0 amps
	Input (w)		312	353	396	440	456	487	536	587	
	Amps		2.27	2.4	2.54	2.7	2.75	2.87	3.06	3.27	
	Capacity (w)	50.0	285	374	488	626	678	789	975	1186	Oil Type: ISO VG 32 Ester Oil Charge: 400 mls Comp Weight: 12.2 kg
	Input (w)		308	354	402	452	469	504	557	614	
	Amps		2.26	2.4	2.56	2.74	2.8	2.93	3.15	3.38	
	Capacity (w)	55.0	267	354	465	600	651	759	943	1151	Suction Tube: 8.1 mm Discharge Tube: 6.5 mm Service Tube: 8.1 mm
	Input (w)		304	355	408	463	482	520	579	640	
	Amps		2.25	2.41	2.58	2.78	2.85	3	3.24	3.5	
NPT16LA CSR High start torque (TX valve & capillary) Displacement: 16.15 cm³ Nominal HP: 1/2 Comp Cooling: Fan	Capacity (w)	45.0	344	456	594	758	820	948	1164	1407	Volts: 220-240v / 1Ø-50Hz MCC: 3.5 amps LRA: 19.0 amps
	Input (w)		337	376	418	463	479	511	562	616	
	Amps		1.78	1.94	2.11	2.3	2.37	2.51	2.74	2.98	
	Capacity (w)	50.0	329	436	569	728	787	913	1125	1362	Oil Type: ISO VG 32 Ester Oil Charge: 400 mls Comp Weight: 12.2 kg
	Input (w)		339	381	426	474	491	526	580	637	
	Amps		1.79	1.96	2.15	2.35	2.43	2.57	2.82	3.08	
	Capacity (w)	55.0	314	415	543	698	756	878	1084	1317	Suction Tube: 8.1 mm Discharge Tube: 6.5 mm Service Tube: 8.1 mm
	Input (w)		341	386	435	486	504	540	598	658	
	Amps		1.8	1.98	2.18	2.4	2.48	2.64	2.9	3.18	

Note: **MCC** = Maximum Continuous Current / **LRA** = Locked Rotor Amps

CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

R290 – LBP Compressors (cont'd)

Airefrig Part Number	Operating Conditions *ASHRAE	Cond Temp °C	Based on *ASHRAE Conditions (+32°C Liq temp & +32°C Suct gas)								Compressor Technical Information
			Evaporating Temperature °C								
			-40	-35	-30	-25	-23.3	-20	-15	-10	
NX18FBa CSR High start torque (TX valve & capillary) Displacement: 18.4 cm³ Nominal HP: 3/4 Comp Cooling: Fan	Capacity (w)	45.0	331	470	632	814	882	1019	1246	1494	Volts: 220-240v / 1Ø-50Hz MCC: 4.6 amps LRA: 18.0 amps
	Input (w)		345	401	454	504	521	552	597	639	
	Amps		1.74	1.98	2.21	2.43	2.51	2.65	2.86	3.06	
	Capacity (w)	50.0	316	450	606	785	850	985	1207	1453	Oil Type: ISO VG 32 Ester Oil Charge: 650 mls Comp Weight: 16.5 kg
	Input (w)		349	411	470	526	545	580	631	679	
	Amps		1.75	2.02	2.28	2.53	2.62	2.78	3.02	3.25	
	Capacity (w)	55.0	300	430	582	756	820	951	1170	1410	Suction Tube: 9.7 mm Discharge Tube: 6.5 mm Service Tube: 9.7 mm
	Input (w)		353	421	486	548	569	608	665	719	
	Amps		1.77	2.06	2.35	2.63	2.73	2.91	3.19	3.45	
NX21FBa CSR High start torque (TX valve & capillary) Displacement: 20.72 cm³ Nominal HP: 3/4 Comp Cooling: Fan	Capacity (w)	45.0	372	521	697	900	975	1129	1385	1669	Volts: 220-240v / 1Ø-50Hz MCC: 6.5 amps LRA: 24.0 amps
	Input (w)		396	451	505	559	578	614	668	722	
	Amps		2.08	2.33	2.58	2.83	2.92	3.08	3.33	3.58	
	Capacity (w)	50.0	351	495	669	868	941	1093	1346	1626	Oil Type: ISO VG 46 Ester Oil Charge: 650 mls Comp Weight: 16.0 kg
	Input (w)		400	461	523	584	604	645	706	767	
	Amps		2.1	2.38	2.66	2.94	3.04	3.22	3.5	3.78	
	Capacity (w)	55.0	329	471	640	835	907	1057	1306	1582	Suction Tube: 9.7 mm Discharge Tube: 6.5 mm Service Tube: 9.7 mm
	Input (w)		404	472	540	608	631	676	743	811	
	Amps		2.12	2.43	2.74	3.05	3.16	3.37	3.68	3.99	

Note: **MCC** = Maximum Continuous Current / **LRA** = Locked Rotor Amps

R290 – LMBP Compressor

Airefrig Part Number	Operating Conditions *ASHRAE	Cond Temp °C	-40	-35	-30	-25	-23.3	-20	-15	-10	-5	0	Compressor Technical Information
NXK260NA CSR High start torque (TX valve & capillary) Displacement: 26.0 cm ³ Nominal HP: 1.0 Comp Cooling: Fan	Capacity (w)	45.0	519	686	894	1147	1242	1441	1777	2155	2577	3040	Volts: 220-240v / 1Ø-50Hz MCC: 7.2 amps LRA: 30.0 amps
	Input (w)		456	519	585	652	675	721	793	866	942	1019	
	Amps		2.69	3.0	3.32	3.66	3.78	4.01	4.38	4.76	5.15	5.57	
	Capacity (w)	50.0	483	647	852	1101	1196	1393	1726	2102	2520	2981	Oil Type: ISO VG 46 Ester Oil Charge: 400 mls Comp Weight: 19.0 kg
	Input (w)		454	524	597	671	697	748	826	907	989	1074	
	Amps		2.68	3.02	3.38	3.76	3.89	4.15	4.55	4.97	5.41	5.86	
	Capacity (w)	55.0	447	608	811	1057	1150	1346	1676	2048	2464	2921	Suction Tube: 9.7 mm Discharge Tube: 6.5 mm Service Tube: 9.7 mm
	Input (w)		452	530	609	691	719	774	860	948	1037	1129	
	Amps		2.67	3.05	3.45	3.86	4.0	4.28	4.73	5.19	5.66	6.16	

Note: **MCC** = Maximum Continuous Current / **LRA** = Locked Rotor Amps

CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

R290 – HMBP Compressors

Airefrig Part Number	Operating Conditions *ASHRAE	Cond Temp °C	Based on *ASHRAE Conditions (+46°C Liq temp & +35°C Suct gas)									Compressor Technical Information
			Evaporating Temperature °C									
			-25	-20	-15	-10	-5	0	5	7.2	10	
NBC30RA CSIR High start torque (TX valve & capillary) Displacement: 3.1 cm³ Nominal HP: 1/10 Comp Cooling: Fan	Capacity (w)		133	166	208	257	314	379	451	486	531	Volts: 220-240v / 1Ø-50Hz MCC: 1.68 amps LRA: 6.5 amps
	Input (w)	45.0	105	112	119	125	130	135	139	141	143	
	Amps		1.01	1.03	1.04	1.05	1.06	1.08	1.09	1.09	1.1	
	Capacity (w)		122	152	191	237	291	352	422	455	499	Oil Type: ISO VG 32 Ester Oil Charge: 120 mls Comp Weight: 5.8 kg
	Input (w)	50.0	107	116	124	131	138	144	149	152	154	
	Amps		1.02	1.03	1.05	1.07	1.08	1.1	1.12	1.12	1.13	
	Capacity (w)		110	138	173	216	267	326	392	423	465	Suction Tube: 6.1 mm Discharge Tube: 5.1 mm Service Tube: 6.1 mm
	Input (w)	55.0	109	119	128	137	145	152	159	162	165	
	Amps		1.02	1.04	1.06	1.08	1.1	1.12	1.14	1.15	1.16	
NUY45RAa CSIR High start torque (TX valve & capillary) Displacement: 4.5 cm³ Nominal HP: 1/5 Comp Cooling: Fan	Capacity (w)		190	242	305	377	459	552	655	704	768	Volts: 220-240v / 1Ø-50Hz MCC: 1.8 amps LRA: 10.5 amps
	Input (w)	45.0	134	145	156	165	174	182	189	192	195	
	Amps		1.18	1.2	1.22	1.25	1.27	1.3	1.32	1.33	1.35	
	Capacity (w)		173	221	279	348	427	514	613	659	721	Oil Type: ISO VG 32 Ester Oil Charge: 220 mls Comp Weight: 9.3 kg
	Input (w)	50.0	138	151	163	174	185	194	203	207	211	
	Amps		1.18	1.21	1.24	1.27	1.31	1.34	1.37	1.39	1.4	
	Capacity (w)		157	201	255	319	393	477	571	615	675	Suction Tube: 6.2 mm Discharge Tube: 4.9 mm Service Tube: 6.2 mm
	Input (w)	55.0	141	156	170	183	195	207	218	222	227	
	Amps		1.19	1.22	1.26	1.3	1.34	1.38	1.43	1.45	1.47	
NUY55RAa CSIR High start torque (TX valve & capillary) Displacement: 5.5 cm³ Nominal HP: 1/5 Comp Cooling: Fan	Capacity (w)		247	308	381	470	570	685	812	872	952	Volts: 220-240v / 1Ø-50Hz MCC: 3.0 amps LRA: 12.6 amps
	Input (w)	45.0	164	180	194	208	220	231	241	245	250	
	Amps		1.37	1.41	1.45	1.49	1.53	1.56	1.6	1.62	1.63	
	Capacity (w)		229	286	356	438	535	644	766	826	902	Oil Type: ISO VG 22 Ester Oil Charge: 220 mls Comp Weight: 9.5 kg
	Input (w)	50.0	169	187	204	220	235	249	262	267	273	
	Amps		1.38	1.43	1.48	1.53	1.58	1.62	1.68	1.69	1.72	
	Capacity (w)		212	264	329	407	499	604	722	778	854	Suction Tube: 6.2 mm Discharge Tube: 4.9 mm Service Tube: 6.2 mm
	Input (w)	55.0	173	194	214	233	251	267	283	289	297	
	Amps		1.39	1.45	1.51	1.57	1.63	1.69	1.75	1.78	1.81	

Note: **MCC** = Maximum Continuous Current / **LRA** = Locked Rotor Amps

CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

R290 – HMBP Compressors (cont'd)

Airefrig Part Number	Operating Conditions *ASHRAE	Cond Temp °C	Based on *ASHRAE Conditions (+46°C Liq temp & +35°C Suct gas)									Compressor Technical Information
			Evaporating Temperature °C									
			-25	-20	-15	-10	-5	0	5	7.2	10	
NUY70RAa CSIR High start torque (TX valve & capillary) Displacement: 6.7 cm³ Nominal HP: 1/3 Comp Cooling: Fan	Capacity (w)	45.0	312	393	490	602	730	875	1034	1108	1208	Volts: 220-240v / 1Ø-50Hz MCC: 3.2 amps LRA: 15.0 amps
	Input (w)		223	237	251	265	278	290	302	307	313	
	Amps		2.0	2.02	2.05	2.08	2.11	2.14	2.18	2.19	2.21	
	Capacity (w)	50.0	293	366	456	561	682	818	969	1041	1136	Oil Type: ISO VG 46 Ester Oil Charge: 200 mls Comp Weight: 9.6 kg
	Input (w)		229	246	263	279	294	310	324	331	338	
	Amps		2.01	2.04	2.08	2.11	2.15	2.19	2.24	2.26	2.29	
	Capacity (w)	55.0	273	340	421	519	632	759	904	972	1063	Suction Tube: 6.2 mm Discharge Tube: 4.9 mm Service Tube: 6.2 mm
	Input (w)		235	255	274	293	311	329	347	354	363	
	Amps		2.02	2.06	2.1	2.15	2.2	2.25	2.31	2.34	2.37	

NUY90RAa CSIR High start torque (TX valve & capillary) Displacement: 8.9 cm³ Nominal HP: 3/8 Comp Cooling: Fan	Capacity (w)	45.0	-	-	620	754	908	1084	1282	1375	1499	Volts: 220-240v / 1Ø-50Hz MCC: 4.1 amps LRA: 17.5 amps
	Input (w)		-	-	344	369	392	413	432	440	450	
	Amps		-	-	2.53	2.6	2.67	2.73	2.8	2.82	2.86	
	Capacity (w)	50.0	-	-	577	705	854	1023	1214	1306	1427	Oil Type: ISO VG 46 Ester Oil Charge: 200 mls Comp Weight: 9.9 kg
	Input (w)		-	-	357	385	412	437	461	471	482	
	Amps		-	-	2.56	2.65	2.73	2.82	2.9	2.93	2.97	
	Capacity (w)	55.0	-	-	534	656	799	963	1148	1236	1355	Suction Tube: 6.2 mm Discharge Tube: 4.9 mm Service Tube: 6.2 mm
	Input (w)		-	-	369	402	433	462	489	501	515	
	Amps		-	-	2.6	2.7	2.8	2.9	3.0	3.04	3.09	

NLY12RAb CSR High start torque (TX valve & capillary) Displacement: 10.7 cm³ Nominal HP: 3/8 Comp Cooling: Fan	Capacity (w)	45.0	477	608	759	930	1122	1333	1564	1672	1815	Volts: 220-240v / 1Ø-50Hz MCC: 5.0 amps LRA: 18.5 amps
	Input (w)		333	365	395	424	450	475	498	508	520	
	Amps		1.61	1.76	1.9	2.03	2.15	2.27	2.39	2.43	2.48	
	Capacity (w)	50.0	448	568	709	870	1051	1251	1472	1577	1714	Oil Type: ISO VG 32 Ester Oil Charge: 395 mls Comp Weight: 11.6 kg
	Input (w)		341	375	408	439	468	496	521	532	545	
	Amps		1.64	1.81	1.96	2.1	2.23	2.36	2.49	2.54	2.6	
	Capacity (w)	55.0	418	528	658	809	980	1171	1382	1480	1612	Suction Tube: 8.1 mm Discharge Tube: 6.5 mm Service Tube: 8.1 mm
	Input (w)		348	385	420	454	486	516	544	556	571	
	Amps		1.68	1.85	2.02	2.17	2.31	2.45	2.59	2.65	2.71	

NPT14RA CSR High start torque (TX valve & capillary) Displacement: 14.32 cm³ Nominal HP: 1/2 Comp Cooling: Fan	Capacity (w)	45.0	-	-	922	1099	1337	1639	2000	2179	2425	Volts: 220-240v / 1Ø-50Hz MCC: 5.5 amps LRA: 21.0 amps
	Input (w)		-	-	512	555	596	635	674	690	710	
	Amps		-	-	2.59	2.76	2.92	3.08	3.25	3.32	3.43	
	Capacity (w)	50.0	-	-	883	1055	1290	1586	1946	2122	2366	Oil Type: ISO VG 32 Ester Oil Charge: 400 mls Comp Weight: 12.25 kg
	Input (w)		-	-	542	586	630	672	712	730	751	
	Amps		-	-	2.7	2.88	3.06	3.24	3.42	3.5	3.62	
	Capacity (w)	55.0	-	-	842	1012	1242	1535	1890	2065	2306	Suction Tube: 8.1 mm Discharge Tube: 6.5 mm Service Tube: 8.1 mm
	Input (w)		-	-	571	618	664	708	751	769	792	
	Amps		-	-	2.82	3.01	3.21	3.4	3.59	3.68	3.81	

Note: **MCC** = Maximum Continuous Current / **LRA** = Locked Rotor Amps

CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

R290 – HMBP Compressors (cont'd)

Airefrig Part Number	Operating Conditions *ASHRAE	Cond Temp °C	Based on *ASHRAE Conditions (+46°C Liq temp & +35°C Suct gas)									Compressor Technical Information
			Evaporating Temperature °C									
			-25	-20	-15	-10	-5	0	5	7.2	10	
NPT16RA CSR High start torque (TX valve & capillary) Displacement: 16.1 cm³ Nominal HP: 2/3 Comp Cooling: Fan	Capacity (w)		-	-	1032	1229	1496	1832	2236	2436	2710	Volts: 220-240v / 1Ø-50Hz MCC: 5.9 amps LRA: 21.0 amps
	Input (w)	45.0	-	-	583	611	648	694	749	776	813	
	Amps		-	-	2.7	2.82	2.99	3.2	3.45	3.57	3.76	
	Capacity (w)		-	-	986	1179	1442	1774	2175	2374	2645	Oil Type: ISO VG 32 Ester Oil Charge: 400 mls Comp Weight: 12.34 kg
	Input (w)	50.0	-	-	614	650	694	748	811	841	882	
	Amps		-	-	2.83	3	3.2	3.44	3.73	3.87	4.09	
	Capacity (w)		-	-	941	1130	1389	1717	2113	2310	2580	Suction Tube: 8.1 mm Discharge Tube: 6.5 mm Service Tube: 8.1 mm
	Input (w)	55.0	-	-	644	688	741	802	872	906	951	
	Amps		-	-	2.97	3.17	3.41	3.69	4.01	4.17	4.41	
NX18TBa CSR High start torque (TX valve & capillary) Displacement: 18.4 cm³ Nominal HP: 3/4 Comp Cooling: Fan	Capacity (w)		701	902	1149	1443	1784	2172	2606	2812	3088	Volts: 220-240v / 1Ø-50Hz MCC: 6.7 amps LRA: 31.5 amps
	Input (w)	45.0	531	584	635	683	729	772	813	830	851	
	Amps		3.01	3.24	3.46	3.67	3.87	4.05	4.25	4.33	4.42	
	Capacity (w)		633	815	1046	1321	1644	2014	2431	2628	2894	Oil Type: ISO VG 32 Ester Oil Charge: 500 mls Comp Weight: 16.2 kg
	Input (w)	50.0	534	595	653	709	763	814	863	884	909	
	Amps		3.03	3.29	3.54	3.79	4.02	4.24	4.47	4.56	4.67	
	Capacity (w)		564	729	941	1199	1504	1856	2255	2445	2699	Suction Tube: 9.7 mm Discharge Tube: 6.5 mm Service Tube: 9.7 mm
	Input (w)	55.0	537	606	672	736	797	856	913	937	967	
	Amps		3.04	3.34	3.62	3.9	4.16	4.42	4.68	4.79	4.92	
NX21TBa CSR High start torque (TX valve & capillary) Displacement: 20.72 cm³ Nominal HP: 7/8 Comp Cooling: Fan	Capacity (w)		823	1050	1328	1658	2039	2470	2953	3181	3486	Volts: 220-240v / 1Ø-50Hz MCC: 8.0 amps LRA: 34.5 amps
	Input (w)	45.0	619	670	723	775	828	882	937	961	992	
	Amps		3.47	3.69	3.92	4.15	4.39	4.63	4.9	5.01	5.16	
	Capacity (w)		743	947	1201	1506	1863	2270	2730	2948	3239	Oil Type: ISO VG 32 Ester Oil Charge: 500 mls Comp Weight: 16.1 kg
	Input (w)	50.0	631	689	747	806	865	925	986	1013	1047	
	Amps		3.52	3.77	4.02	4.28	4.55	4.82	5.13	5.25	5.41	
	Capacity (w)		663	842	1073	1355	1688	2071	2506	2714	2994	Suction Tube: 9.7 mm Discharge Tube: 6.5 mm Service Tube: 9.7 mm
	Input (w)	55.0	643	707	771	836	902	968	1034	1064	1102	
	Amps		3.57	3.85	4.13	4.42	4.71	5.02	5.35	5.49	5.67	

Note: **MCC** = Maximum Continuous Current / **LRA** = Locked Rotor Amps

CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

R600a – LBP Compressors

Airefrig Part Number	Operating Conditions *ASHRAE	Cond Temp °C	Based on *ASHRAE Conditions (+32°C Liq temp & +32°C Suct gas)							Compressor Technical Information
			Evaporating Temperature °C							
			-35	-30	-25	-23.3	-20	-15	-10	
B43CB RSIR Low start torque (capillary application) Displacement: 4.3 cm³ Nominal HP: 1/12 Comp Cooling: Static	Capacity (w)	45.0	41	53	70	76	90	113	141	Volts: 220-240v / 1Ø-50Hz MCC: 0.55amps LRA: 2.23 amps
	Input (w)		43	49	55	58	63	70	79	
	Amps		0.39	0.42	0.45	0.46	0.49	0.53	0.58	
	Capacity (w)	50.0	37	50	66	72	86	109	136	Oil Type: ISO VG 10 Mineral Oil Charge: 120 mls Comp Weight: 4.6 kg
	Input (w)		42	49	56	58	63	72	80	
	Amps		0.39	0.42	0.45	0.47	0.49	0.54	0.59	
	Capacity (w)	55.0	35	47	63	69	81	105	131	Suction Tube: 6.1 mm Discharge Tube: 5.1 mm Service Tube: 6.1 mm
	Input (w)		42	49	56	59	64	73	82	
	Amps		0.39	0.42	0.46	0.47	0.5	0.55	0.6	
B52CL RSIR Low start torque (capillary application) Displacement: 5.2 cm³ Nominal HP: 1/10 Comp Cooling: Static	Capacity (w)	45.0	48	62	80	88	104	133	165	Volts: 220-240v / 1Ø-50Hz MCC: 0.94 amps LRA: 3.6 amps
	Input (w)		50	57	64	67	73	82	92	
	Amps		0.61	0.66	0.71	0.73	0.77	0.83	0.9	
	Capacity (w)	50.0	44	58	77	84	100	128	159	Oil Type: ISO VG 10 Mineral Oil Charge: 120 mls Comp Weight: 4.6 kg
	Input (w)		50	57	65	68	74	84	94	
	Amps		0.61	0.66	0.71	0.73	0.77	0.84	0.92	
	Capacity (w)	55.0	42	55	73	80	95	123	155	Suction Tube: 6.1 mm Discharge Tube: 5.1 mm Service Tube: 6.1 mm
	Input (w)		50	58	66	69	75	85	96	
	Amps		0.61	0.66	0.72	0.74	0.78	0.85	0.93	
HYB60MHU RSIR Low start torque (capillary application) Displacement: 6.0 cm³ Nominal HP: 1/6 Comp Cooling: Static	Capacity (w)	45.0	50	73	99	109	129	162	199	Volts: 220-240v / 1Ø-50Hz MCC: 1.3 amps LRA: 2.4 amps
	Input (w)		47	55	63	66	71	80	88	
	Amps		0.43	0.44	0.46	0.47	0.48	0.51	0.54	
	Capacity (w)	50.0	48	70	95	105	124	157	193	Oil Type: ISO VG 10 Mineral Oil Charge: 120 mls Comp Weight: 5.7 kg
	Input (w)		48	56	65	68	74	83	92	
	Amps		0.43	0.45	0.47	0.47	0.49	0.52	0.55	
	Capacity (w)	55.0	44	65	91	100	120	151	187	Suction Tube: 6.1 mm Discharge Tube: 4.9 mm Service Tube: 6.1 mm
	Input (w)		48	57	67	70	76	86	96	
	Amps		0.43	0.45	0.47	0.48	0.5	0.53	0.57	

Note: **MCC** = Maximum Continuous Current / **LRA** = Locked Rotor Amps

CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

R600a – LBP Compressors (cont'd)

Airefrig Part Number	Operating Conditions *ASHRAE	Cond Temp °C	Based on *ASHRAE Conditions (+32°C Liq temp & +32°C Suct gas)							Compressor Technical Information
			Evaporating Temperature °C							
			-35	-30	-25	-23.3	-20	-15	-10	
B65CL RSIR Low start torque (capillary application) Displacement: 6.5 cm³ Nominal HP: 1/8 Comp Cooling: Static	Capacity (w)	45.0	63	81	106	115	136	174	219	Volts: 220-240v / 1Ø-50Hz MCC: 0.68 amps LRA: 3.22 amps
	Input (w)		55	62	70	73	80	89	100	
	Amps		0.43	0.46	0.5	0.51	0.54	0.59	0.65	
	Capacity (w)	50.0	59	77	100	110	130	167	211	Oil Type: ISO VG 10 Mineral Oil Charge: 130 mls Comp Weight: 5.45 kg
	Input (w)		54	62	71	74	81	91	102	
	Amps		0.43	0.46	0.5	0.52	0.55	0.6	0.66	
	Capacity (w)	55.0	56	72	95	105	124	160	204	Suction Tube: 6.1 mm Discharge Tube: 5.1 mm Service Tube: 6.1 mm
	Input (w)		54	62	72	75	82	92	104	
	Amps		0.43	0.46	0.5	0.52	0.55	0.61	0.67	
HYE81MGUa RSCR Low start torque (capillary application) Displacement: 8.1 cm³ Nominal HP: 1/7 Comp Cooling: Static	Capacity (w)	45.0	84	107	140	151	179	227	281	Volts: 220-240v / 1Ø-50Hz MCC: 0.67 amps LRA: 4.20 amps
	Input (w)		67	77	88	91	99	111	124	
	Amps		0.45	0.47	0.49	0.50	0.52	0.55	0.58	
	Capacity (w)	50.0	79	102	134	145	172	219	274	Oil Type: ISO VG 10 Mineral Oil Charge: 180 mls Comp Weight: 8.40 kg
	Input (w)		66	76	88	92	100	113	126	
	Amps		0.44	0.46	0.49	0.50	0.52	0.55	0.59	
	Capacity (w)	55.0	74	97	128	140	166	212	266	Suction Tube: 6.1 mm Discharge Tube: 4.9 mm Service Tube: 6.1 mm
	Input (w)		64	75	88	92	101	114	129	
	Amps		0.44	0.46	0.49	0.50	0.52	0.56	0.6	
HYE113MKUa RSCR Low start torque (capillary application) Displacement: 11.3 cm³ Nominal HP: 1/5 Comp Cooling: Static	Capacity (w)	45.0	112	150	199	217	257	324	402	Volts: 220-240v / 1Ø-50Hz MCC: 0.81amps LRA: 5.80 amps
	Input (w)		85	99	113	118	128	144	161	
	Amps		0.57	0.60	0.64	0.65	0.68	0.73	0.79	
	Capacity (w)	50.0	105	142	188	207	245	312	388	Oil Type: ISO VG 10 Mineral Oil Charge: 180 mls Comp Weight: 8.50 kg
	Input (w)		85	99	114	119	130	147	165	
	Amps		0.57	0.60	0.64	0.66	0.69	0.74	0.80	
	Capacity (w)	55.0	98	134	179	197	234	299	374	Suction Tube: 6.1 mm Discharge Tube: 4.9 mm Service Tube: 6.1 mm
	Input (w)		84	99	115	121	132	150	169	
	Amps		0.57	0.60	0.64	0.66	0.69	0.75	0.82	

Note: **MCC** = Maximum Continuous Current / **LRA** = Locked Rotor Amps

CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

R600a – HMBP Compressors

Airefrig Part Number	Operating Conditions *ASHRAE	Cond Temp °C	Based on *ASHRAE Conditions (+46°C Liq temp & +35°C Suct gas)									Compressor Technical Information
			Evaporating Temperature °C									
			-25	-20	-15	-10	-5	0	5	7.2	10	
HFY55MA RSIR Low start torque (capillary application) Displacement: 5.5 cm³ Nominal HP: 1/10 Comp Cooling: Static	Capacity (w)	45.0	91	121	156	197	244	295	354	380	416	Volts: 220-240v / 1Ø-50Hz MCC: 0.90 amps LRA: 4.60 amps
	Input (w)		66	72	78	84	90	96	102	105	108	
	Amps		0.64	0.65	0.66	0.68	0.7	0.71	0.73	0.74	0.75	
	Capacity (w)	50.0	80	108	142	180	224	274	330	356	391	Oil Type: ISO VG 10 Mineral Oil Charge: 150 mls Comp Weight: 7.10 kg
	Input (w)		67	74	81	88	95	102	109	112	116	
	Amps		0.64	0.65	0.67	0.69	0.71	0.73	0.75	0.76	0.77	
	Capacity (w)	55.0	71	97	128	164	206	254	306	331	365	Suction Tube: 6.1 mm Discharge Tube: 4.9 mm Service Tube: 6.1 mm
	Input (w)		68	76	84	92	100	108	116	119	123	
	Amps		0.64	0.66	0.68	0.70	0.72	0.75	0.77	0.78	0.79	
HFY70MA RSIR Low start torque (capillary application) Displacement: 6.7 cm³ Nominal HP: 1/8 Comp Cooling: Static	Capacity (w)	45.0	88	117	154	198	250	309	378	411	454	Volts: 220-240v / 1Ø-50Hz MCC: 0.90 amps LRA: 4.60 amps
	Input (w)		73	83	92	100	109	117	125	129	133	
	Amps		0.71	0.74	0.77	0.8	0.83	0.86	0.88	0.89	0.9	
	Capacity (w)	50.0	87	115	150	193	245	304	371	402	445	Oil Type: ISO VG 10 Mineral Oil Charge: 150 mls Comp Weight: 7.10 kg
	Input (w)		75	85	95	105	114	123	132	136	141	
	Amps		0.72	0.75	0.79	0.82	0.85	0.87	0.9	0.91	0.92	
	Capacity (w)	55.0	86	113	148	190	240	298	364	395	437	Suction Tube: 6.1 mm Discharge Tube: 4.9 mm Service Tube: 6.1 mm
	Input (w)		76	87	98	109	119	130	140	144	149	
	Amps		0.72	0.76	0.8	0.83	0.86	0.89	0.92	0.93	0.94	

Note: **MCC** = Maximum Continuous Current / **LRA** = Locked Rotor Amps



CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

Compressors Technical Information

R290- LBP & *LMBP Temperature Compressors

Compressor Model	Electrical Drawing	Dimensional Drawing	Winding Resistance @ 25 °C	
			Main Ω (Ohms)	Starts Ω (Ohms)
NBC35NA	WD1	DD2A	22.1	28.85
NUY45LAa	WD8	DD4	16.5	41.7
NLY60LAB	WD9	DD6	12.2	16.8
NUT70CAa	WD4	DD3	10.05	18.26
NUY80LAa	WD8	DD4	9.4	38.5
NLY90LAB	WD9	DD9	8.4	17.3
NPY12LAB	WD9	DD11	6.4	10.4
NPY14LAa	WD8	DD10	5.56	10.0
NPT16LA	WD9	DD11	5.3	8.7
NX18FBa	WD9	DD12	3.5	7.35
NX21FBa	WD9	DD12	3.04	7.1
NXK260NA (*LMBP)	WD9	DD14	1.73	2.72

R290- HMBP Temperature Compressors

Compressor Model	Electrical Drawing	Dimensional Drawing	Winding Resistance @ 25 °C	
			Main Ω (Ohms)	Starts Ω (Ohms)
NBC30RA	WD7	DD1	16.5	23.6
NUY45RAa	WD8	DD4	9.79	37.7
NUY55RAa	WD8	DD4	8.2	35.0
NUY70RAa	WD8	DD4	6.66	30.6
NUY90RAa	WD8	DD4A	6.22	12.34
NLY12RAB	WD9	DD9	5.45	8.72
NPT14RA	WD9	DD11	4.5	5.75
NPT16RA	WD9	DD11	4.5	5.75
NX18TBa	WD9	DD12	2.7	7.85
NX21TBa	WD9	DD12	2.34	7.22

R600a - LBP Temperature Compressors

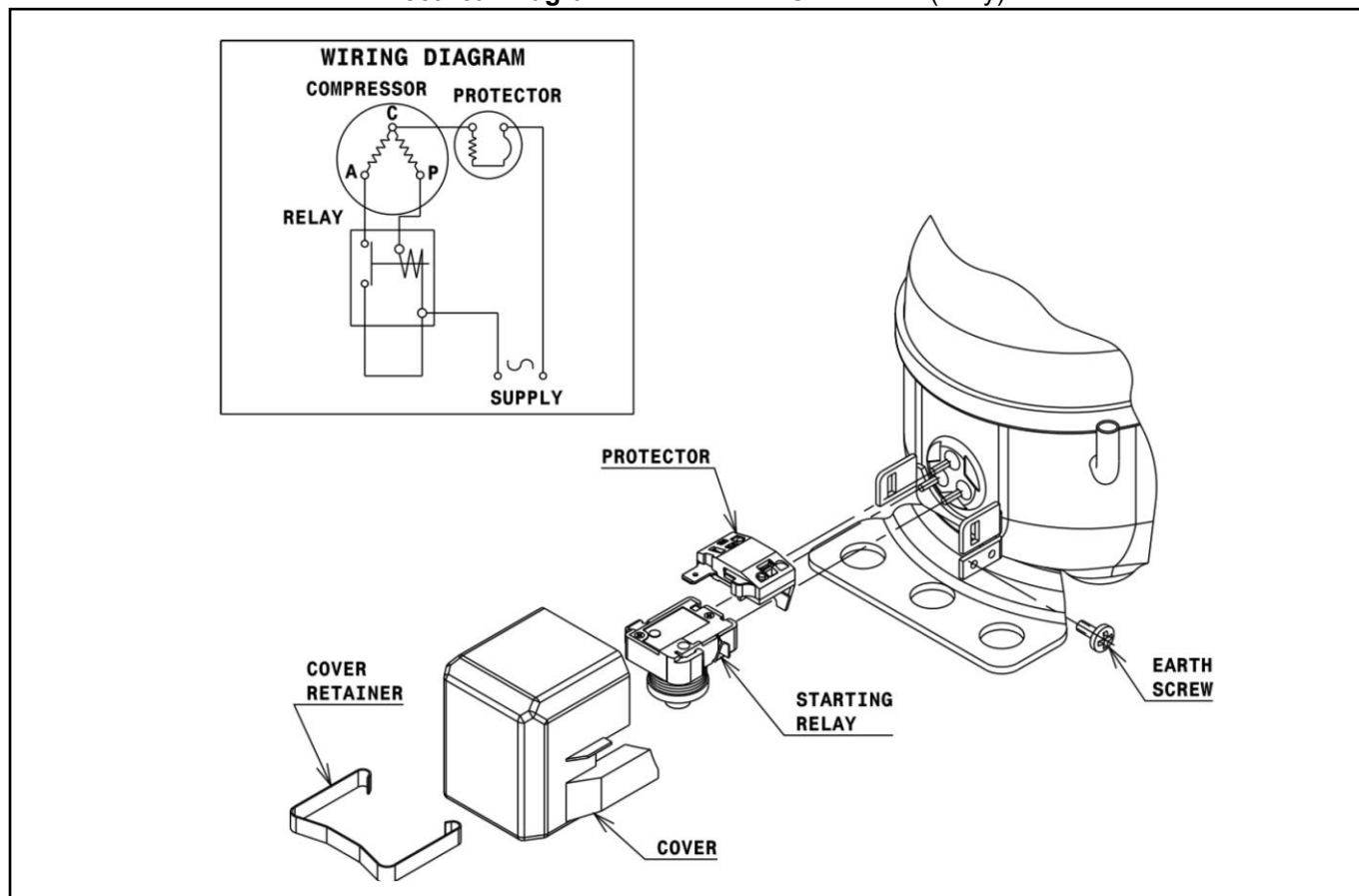
Compressor Model	Electrical Drawing	Dimensional Drawing	Winding Resistance @ 25 °C	
			Main Ω (Ohms)	Starts Ω (Ohms)
B43CB	WD2	DD2	54.2	21.6
B52CL	WD2	DD2	32.04	15.1
B65CL	WD2	DD1A	30.4	16.95
HYB60MHU	WD3	DD13	37.90	19.80
HYE81MGUa	WD6	DD8	30.9	17.50
HYE113MKUa	WD6A	DD8	18.80	15.20

R600a - HMBP Temperature Compressors

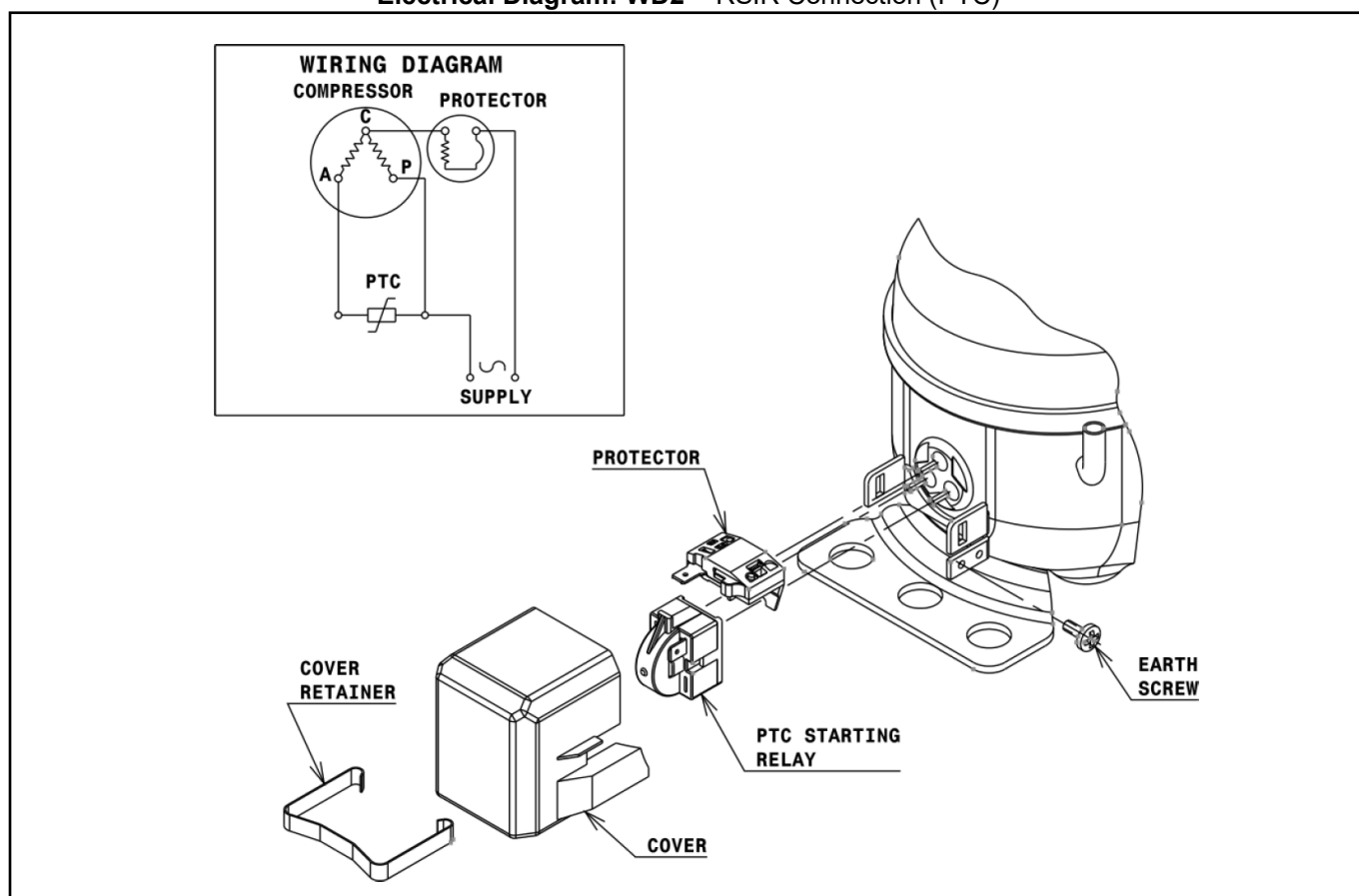
Compressor Model	Electrical Drawing	Dimensional Drawing	Winding Resistance @ 25 °C	
			Main Ω (Ohms)	Starts Ω (Ohms)
HFY55MA	WD5	DD7	26.16	15.10
HFY70MA	WD5	DD7	26.16	15.10

CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

Electrical Diagram: WD1 - RSIR Connection (relay)

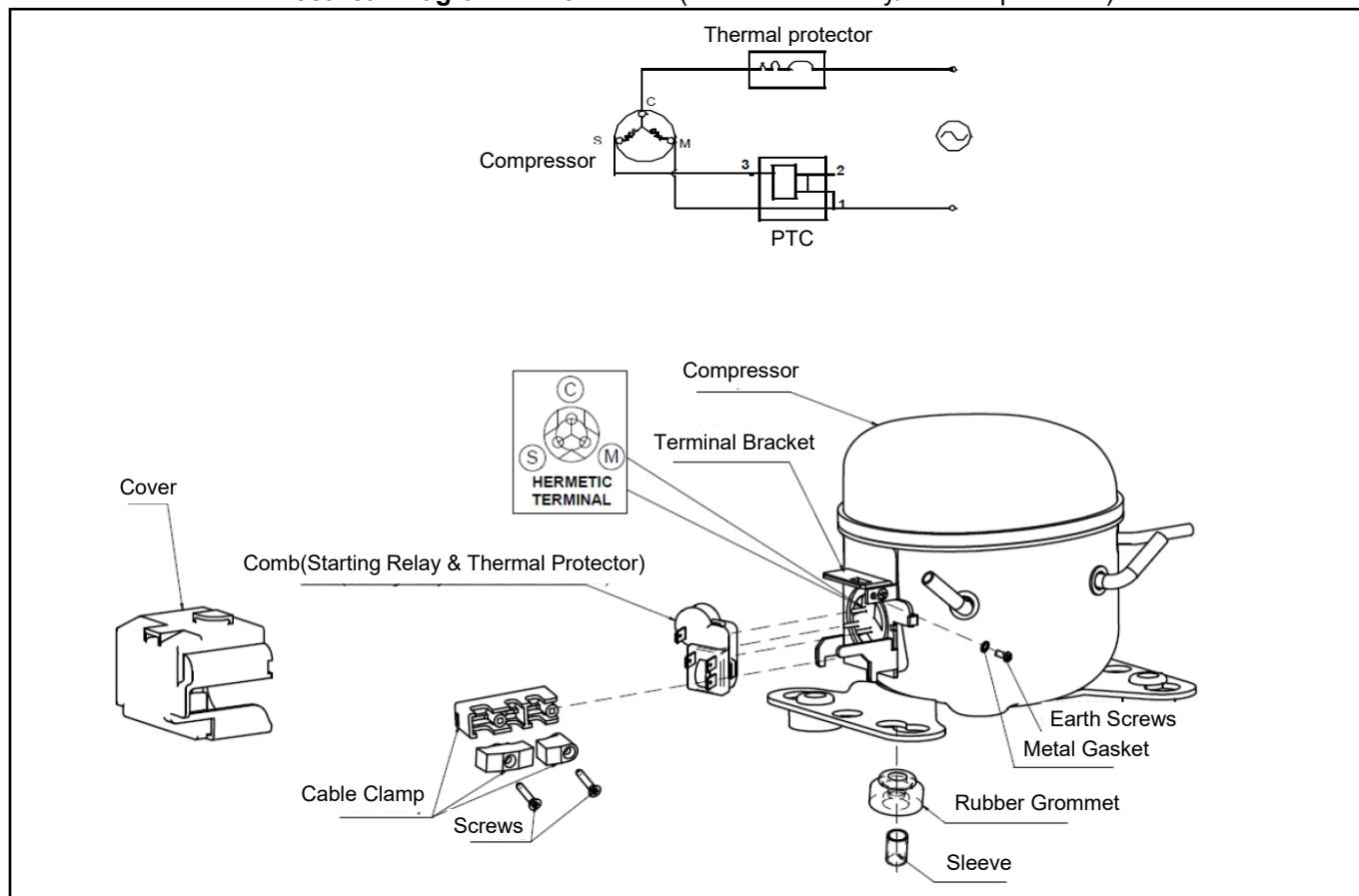


Electrical Diagram: WD2 - RSIR Connection (PTC)

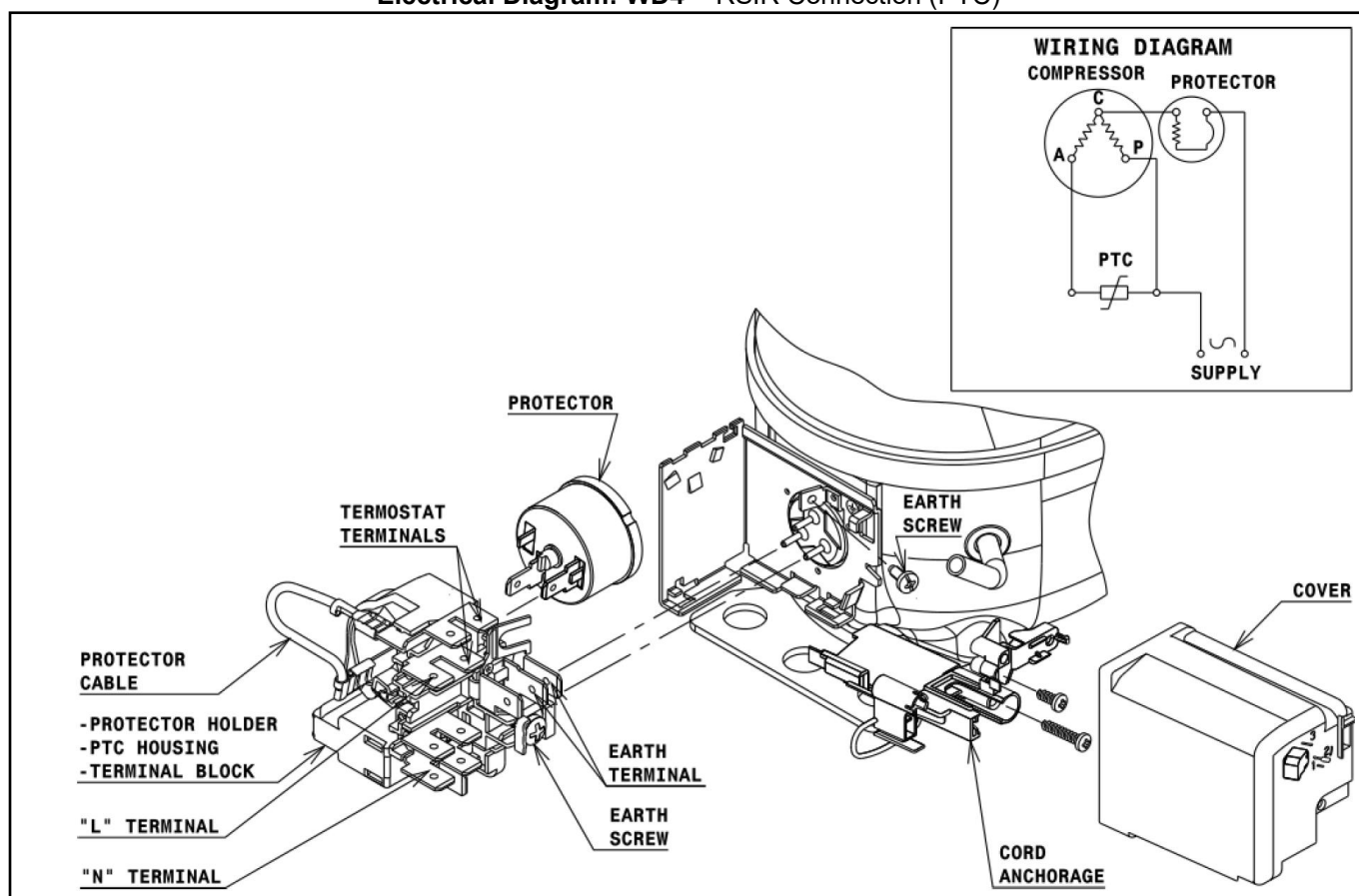


CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

Electrical Diagram: WD3 - RSIR (combination relay/thermal protector)

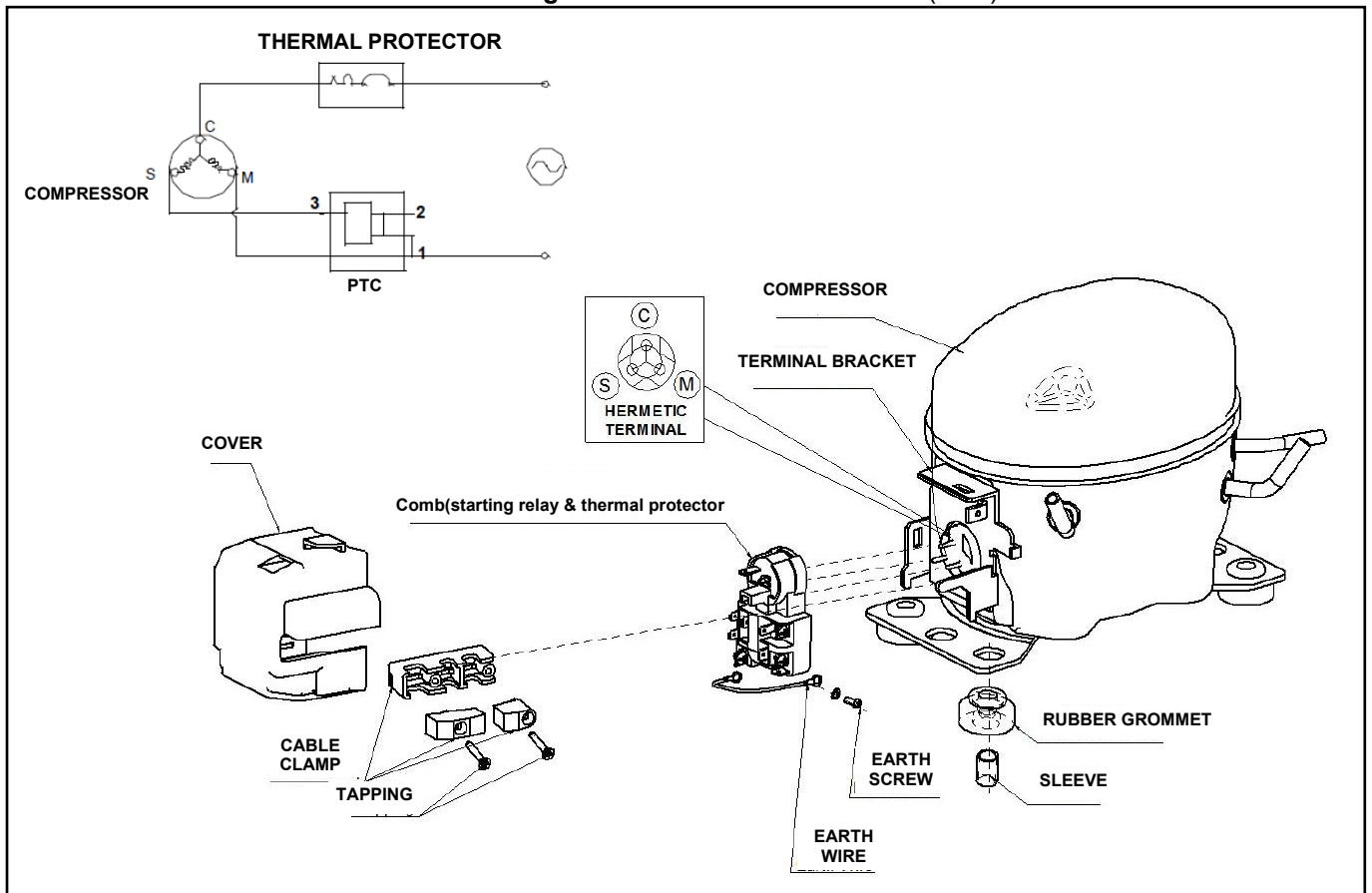


Electrical Diagram: WD4 - RSIR Connection (PTC)

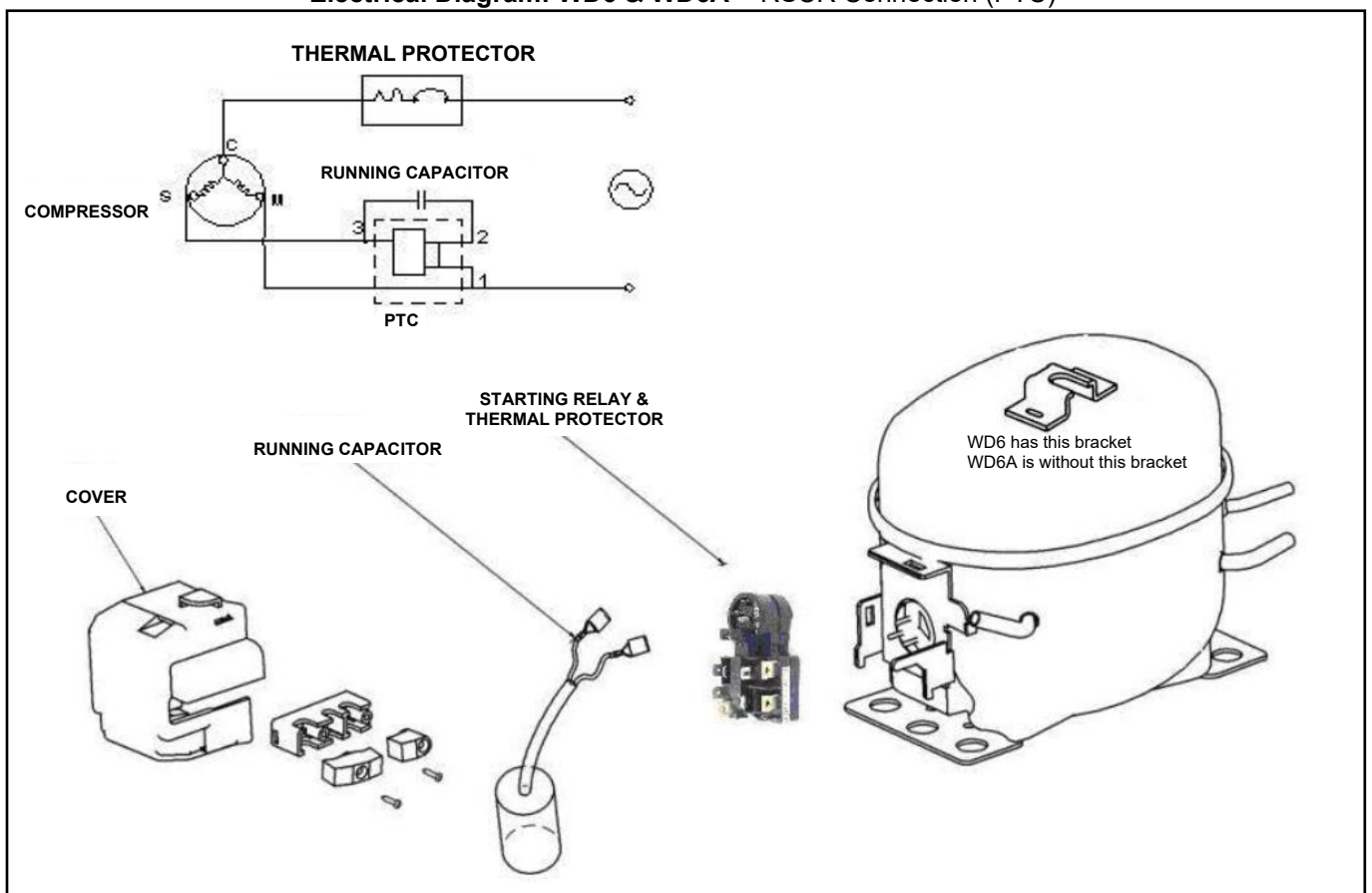


CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

Electrical Diagram: WD5 - RSIR Connection (PTC)

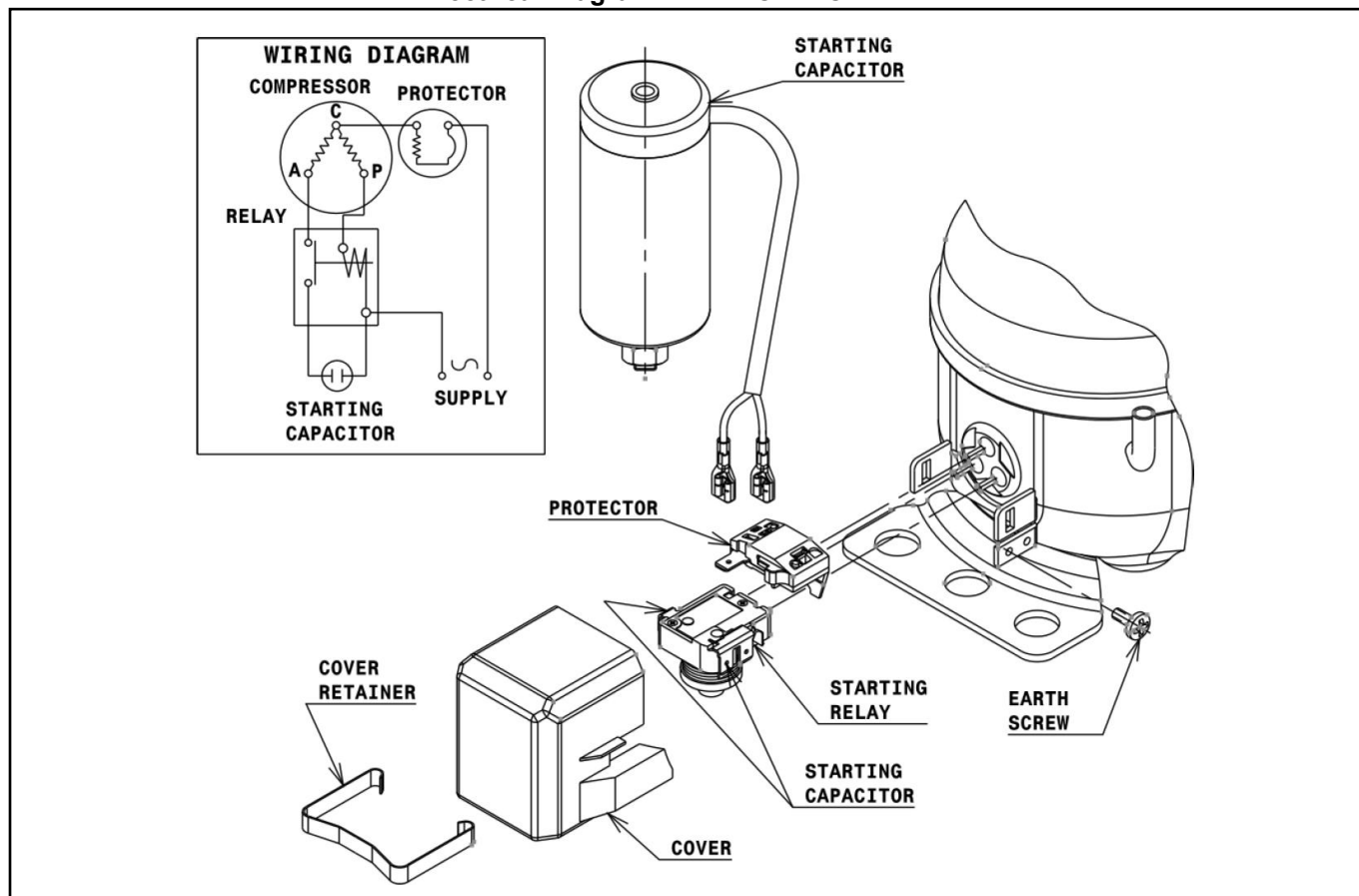


Electrical Diagram: WD6 & WD6A - RSCR Connection (PTC)

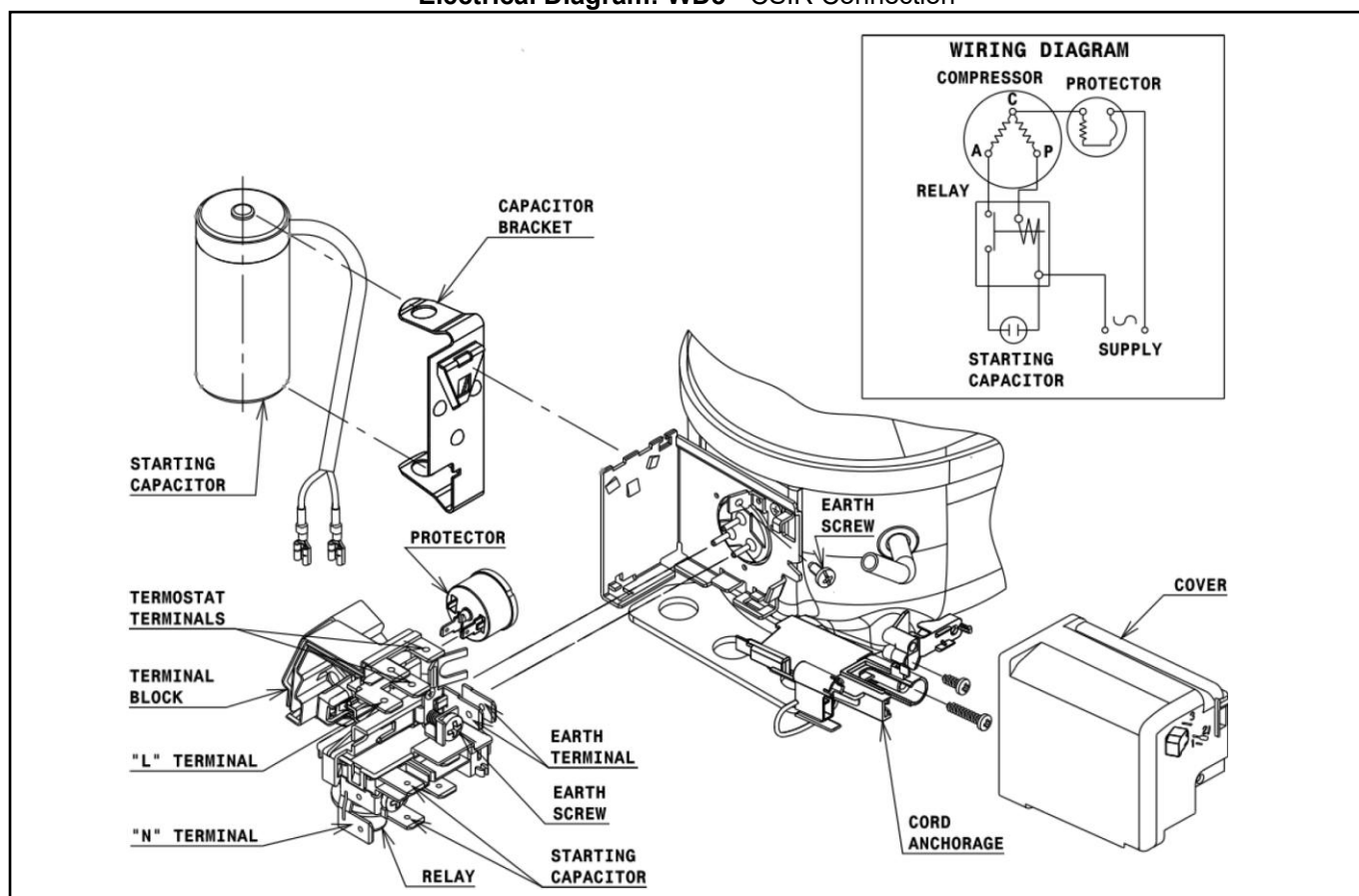


CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

Electrical Diagram: WD7 - CSIR Connection

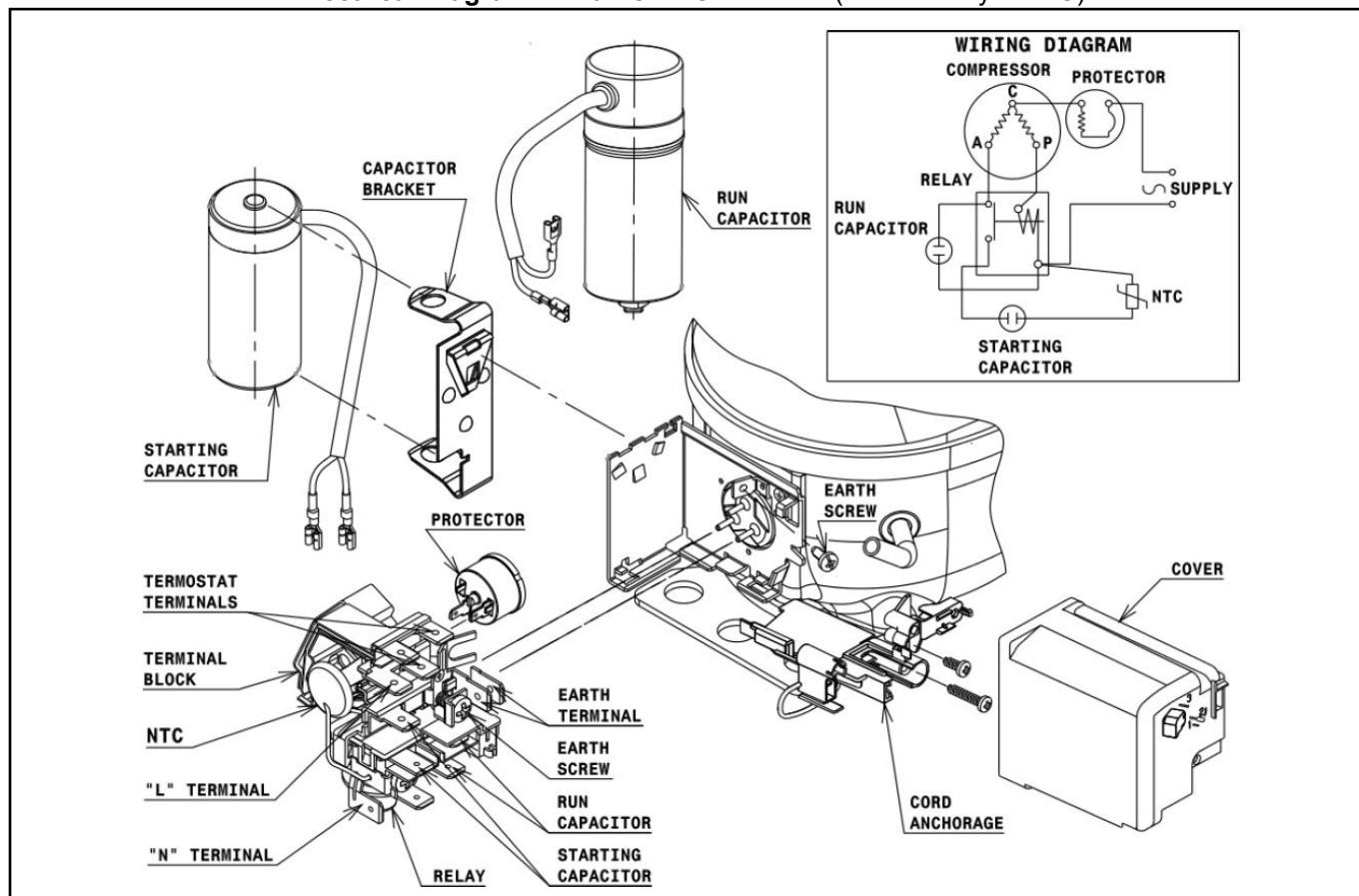


Electrical Diagram: WD8 - CSIR Connection



CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

Electrical Diagram: WD9 - CSR Connection (current relay + NTC)

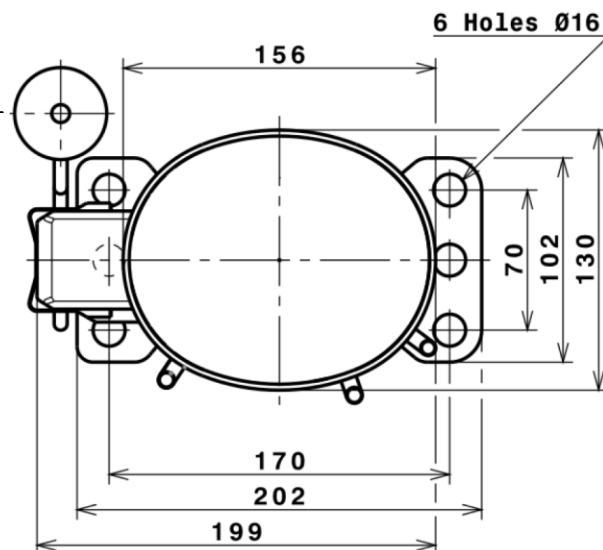
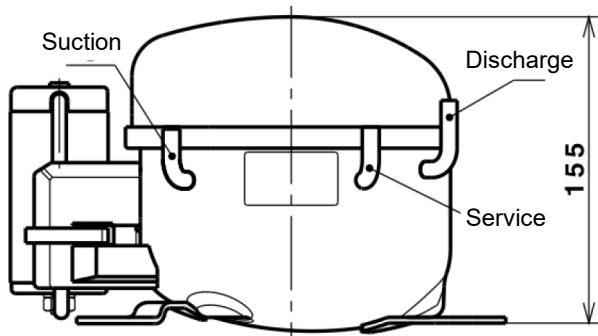


CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

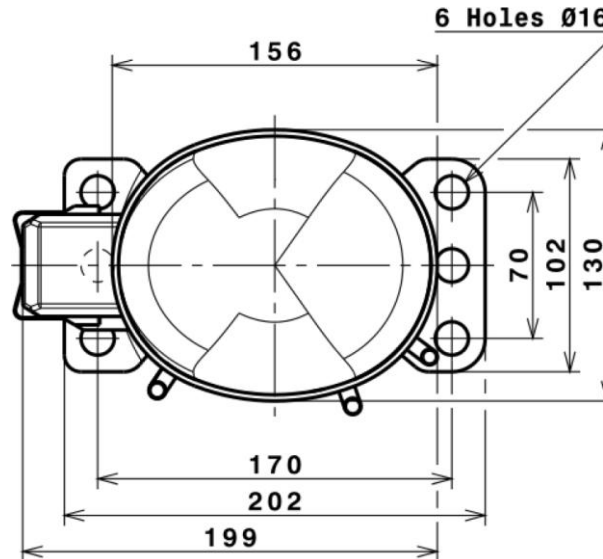
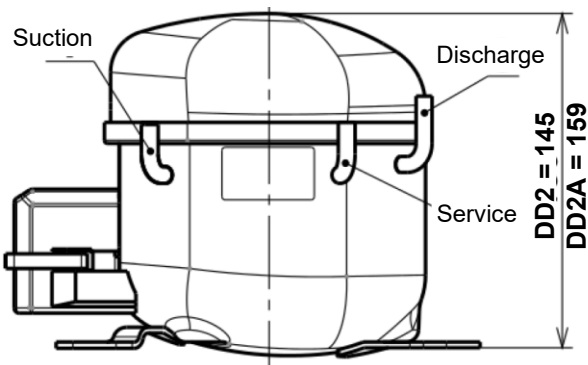
Compressor Dimensions

Dimensional Diagram
Number: DD1 & DD1A

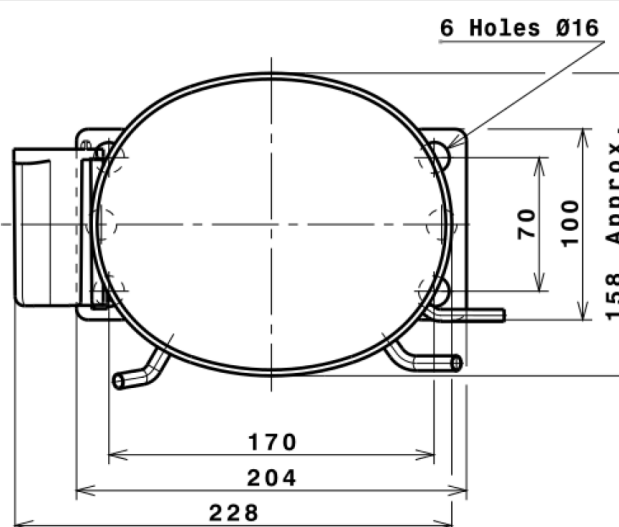
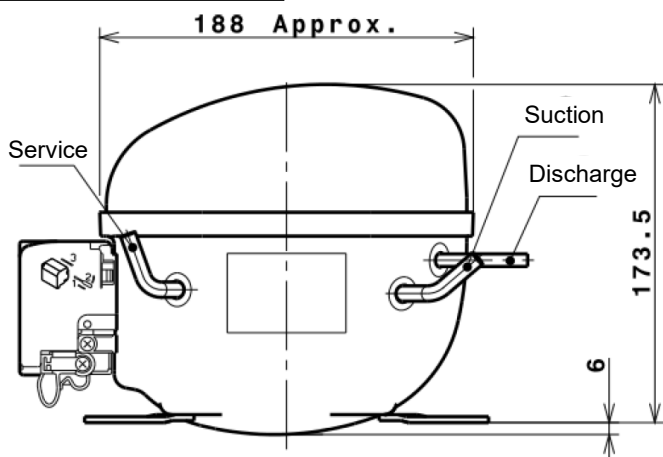
DD1 (CSIR) has start capacitor
DD1A (RSIR) no start capacitor



Dimensional Diagram
Number: DD2 & DD2A



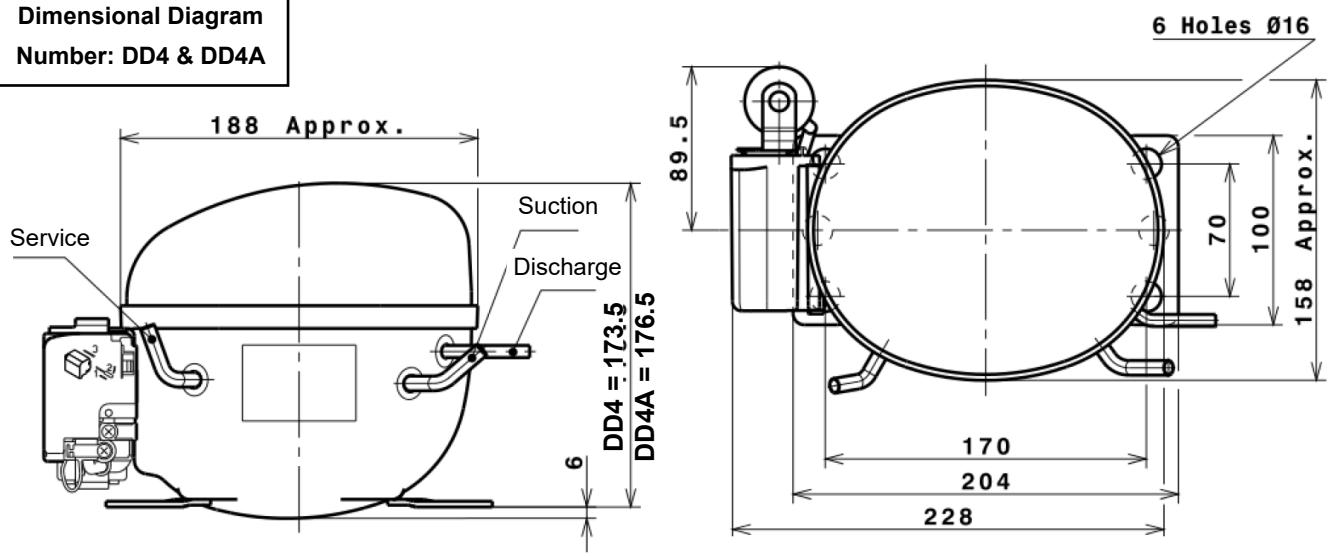
Dimensional Diagram
Number: DD3



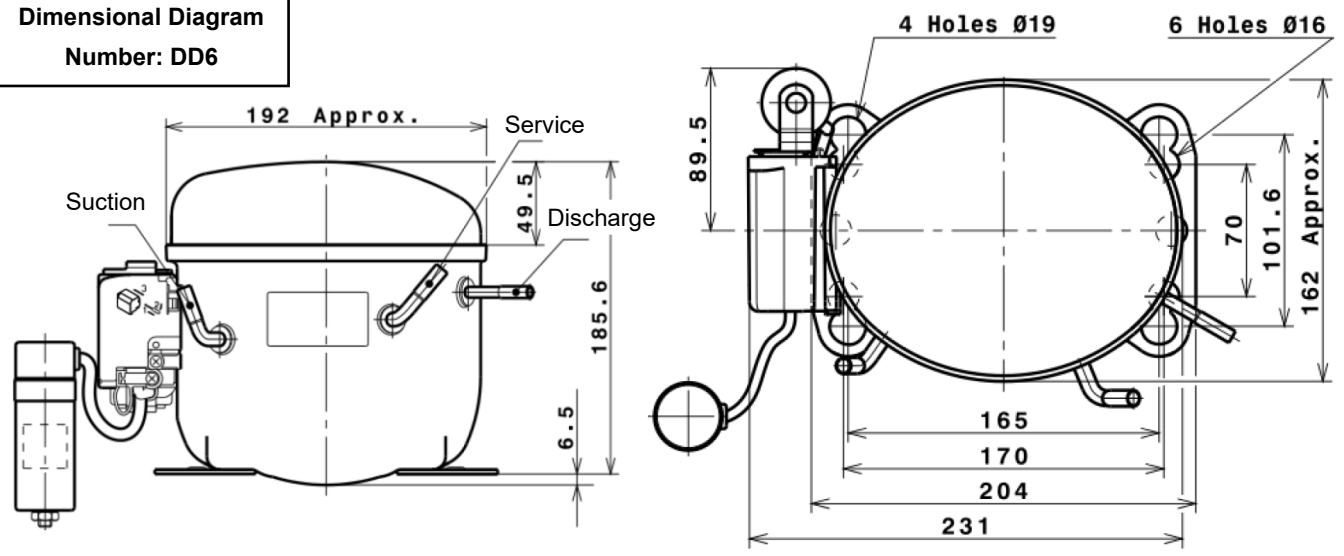
CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

Compressor Dimensions (cont'd)

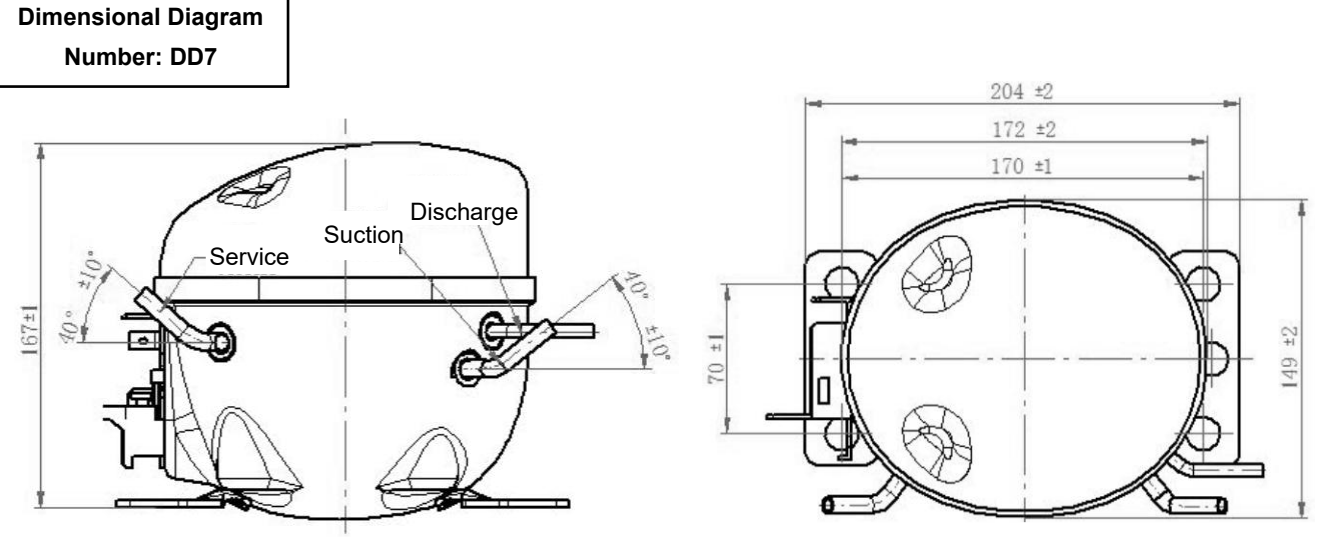
Dimensional Diagram
Number: DD4 & DD4A



Dimensional Diagram
Number: DD6



Dimensional Diagram
Number: DD7

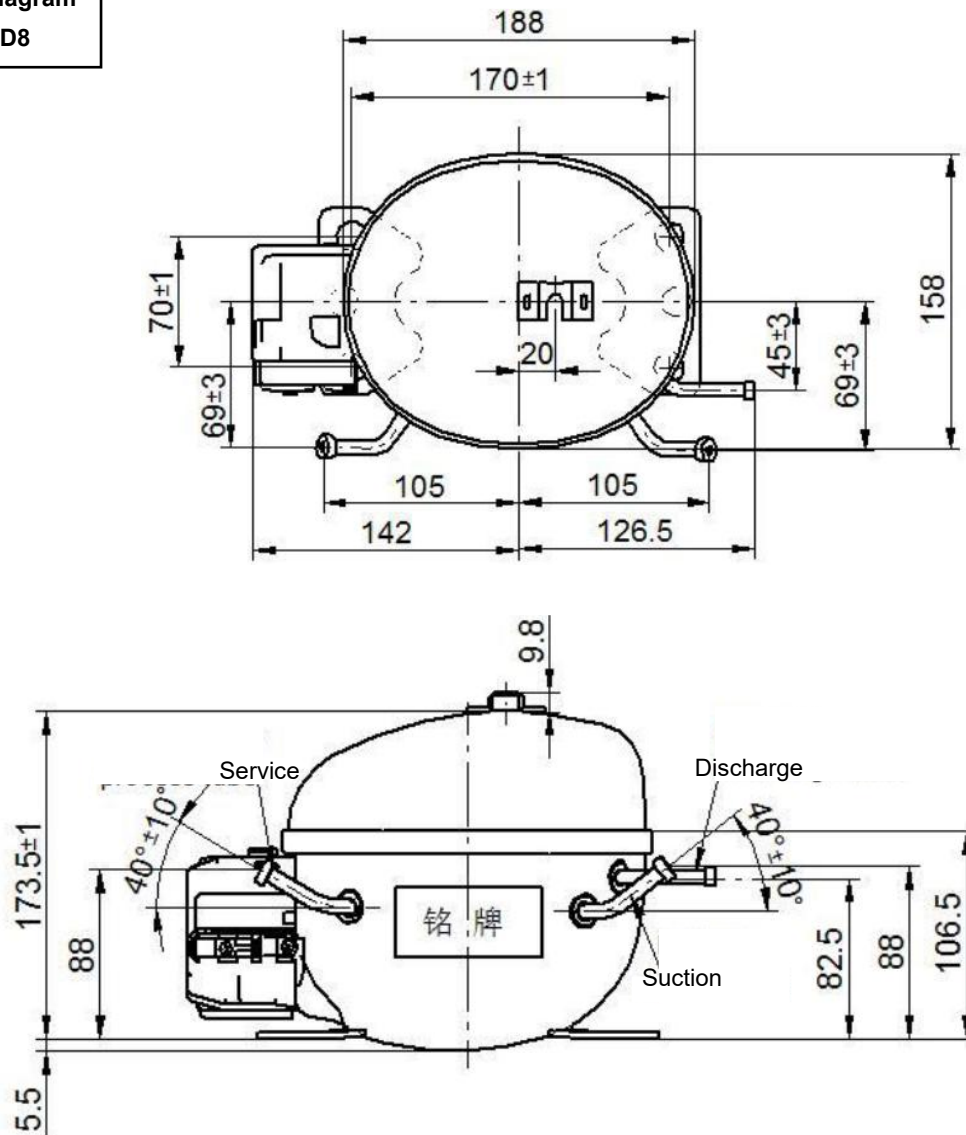


CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

Compressor Dimensions (cont'd)

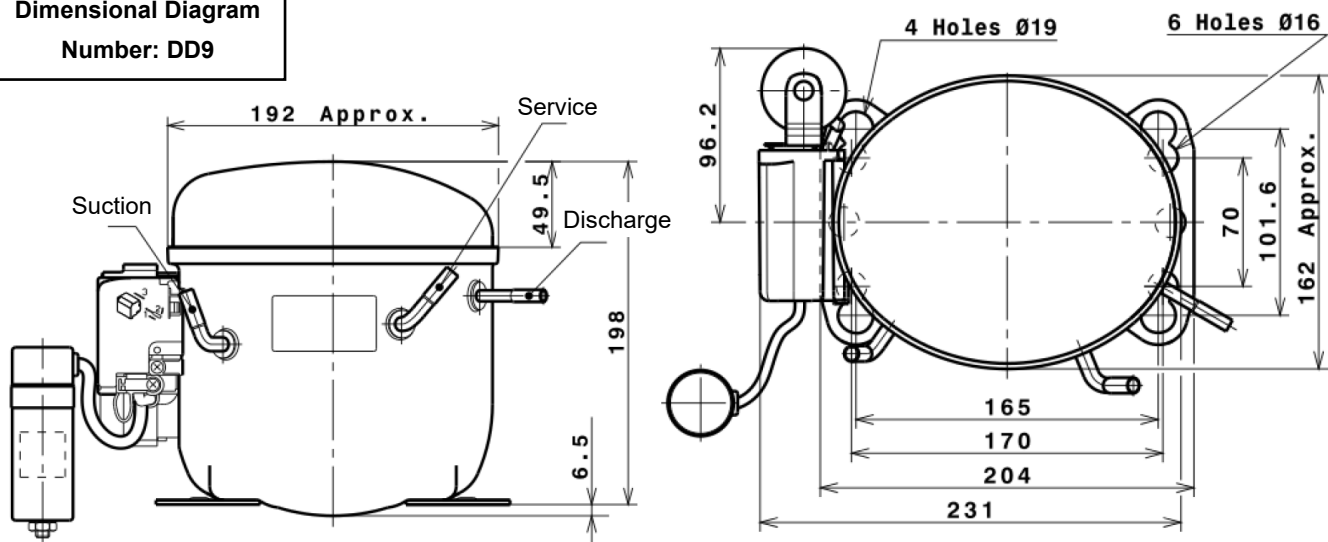
Dimensional Diagram

Number: DD8



Dimensional Diagram

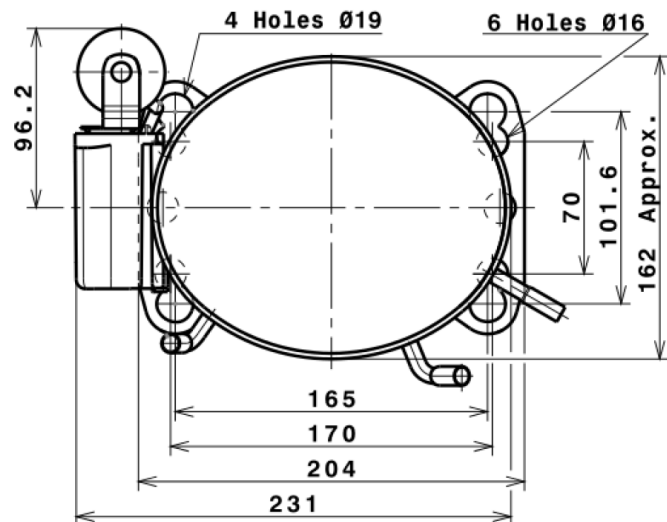
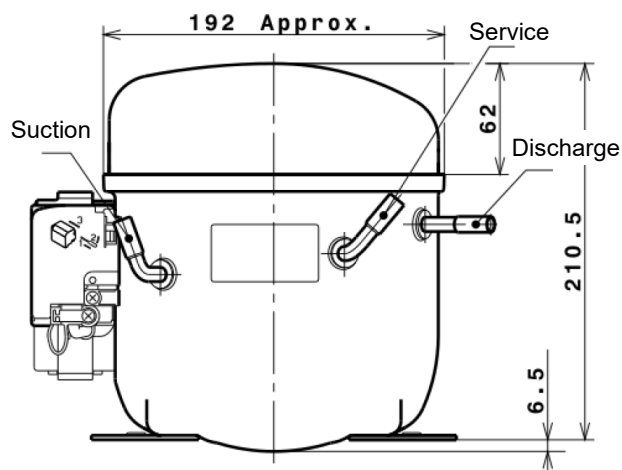
Number: DD9



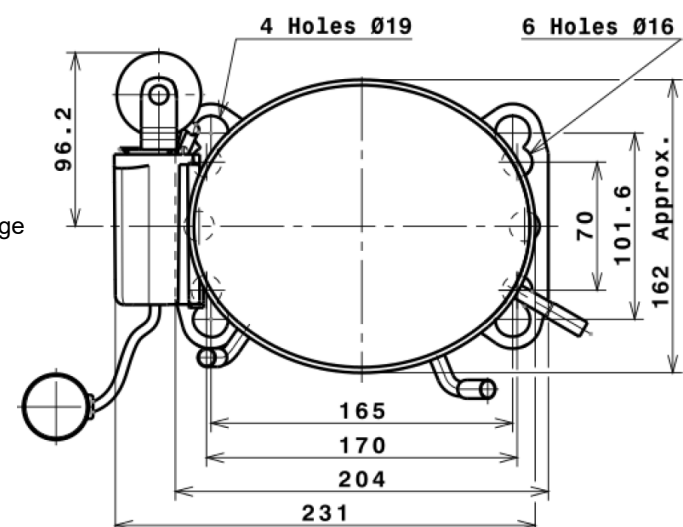
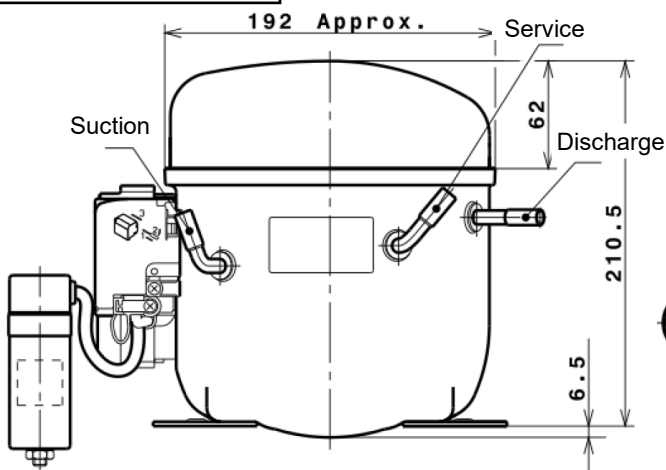
CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

Compressor Dimensions (cont'd)

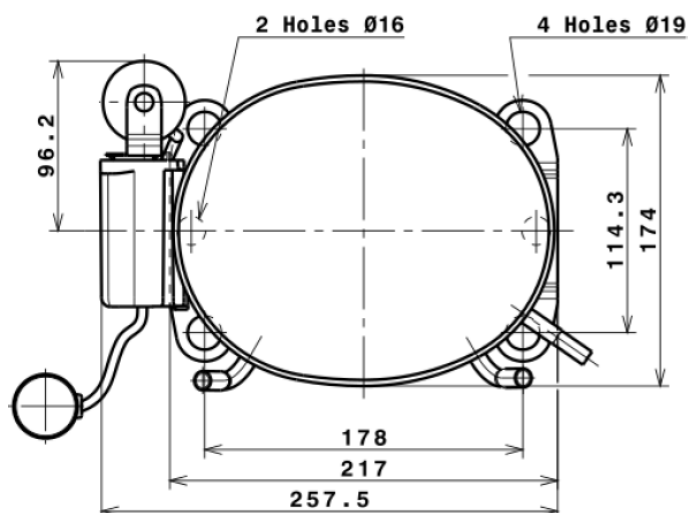
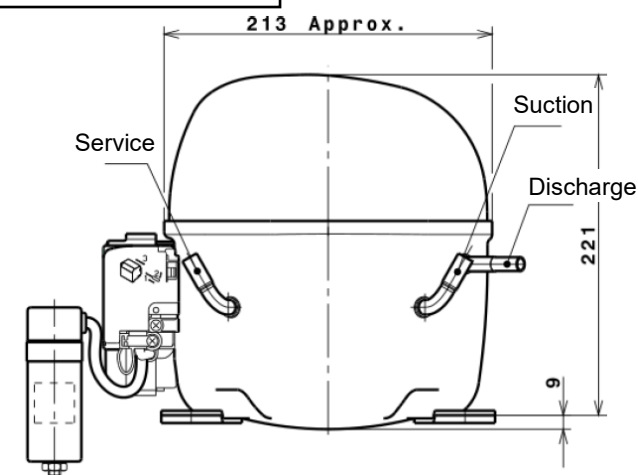
Dimensional Diagram
Number: DD10



Dimensional Diagram
Number: DD11



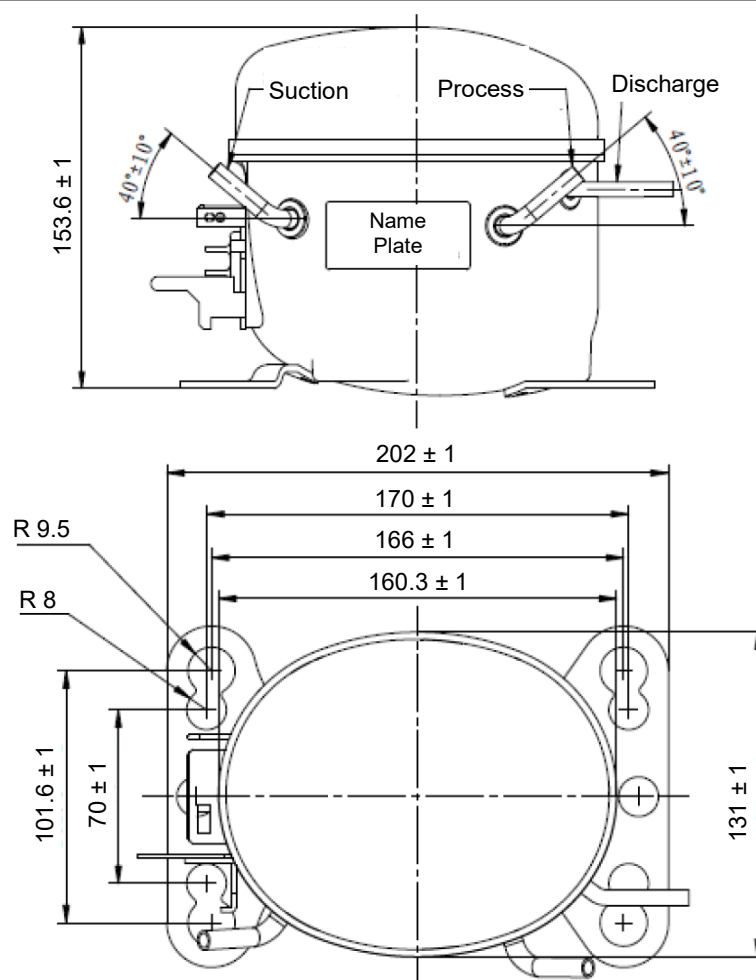
Dimensional Diagram
Number: DD12



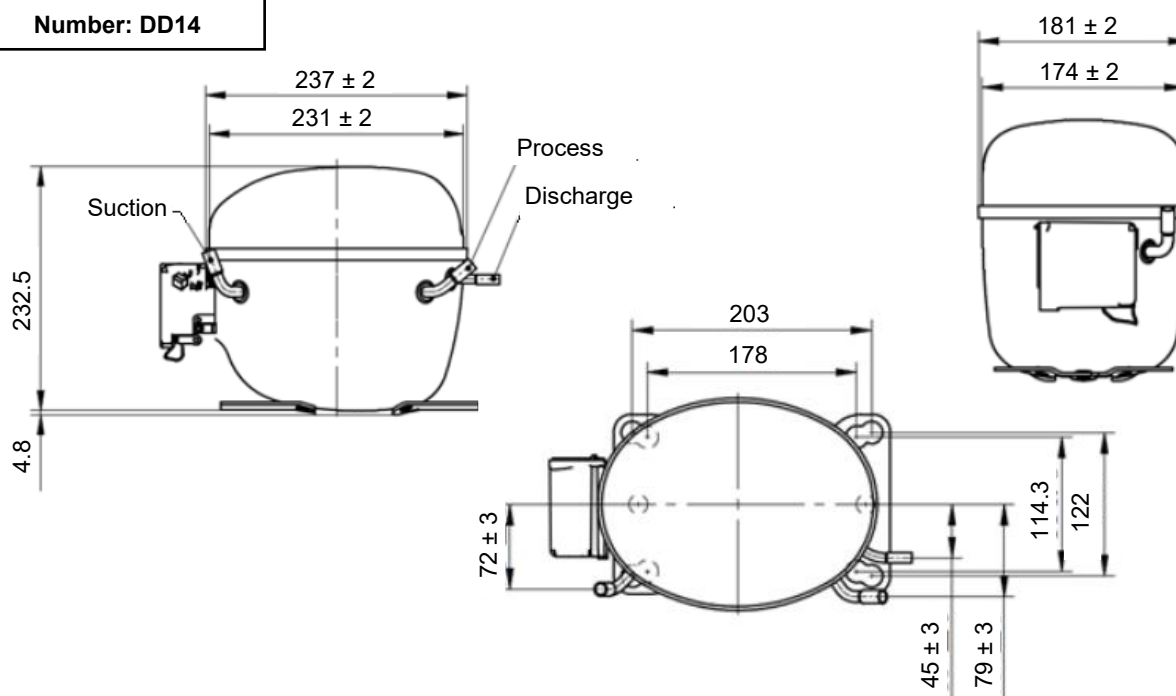
CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

Compressor Dimensions (cont'd)

Dimensional Diagram
Number: DD13

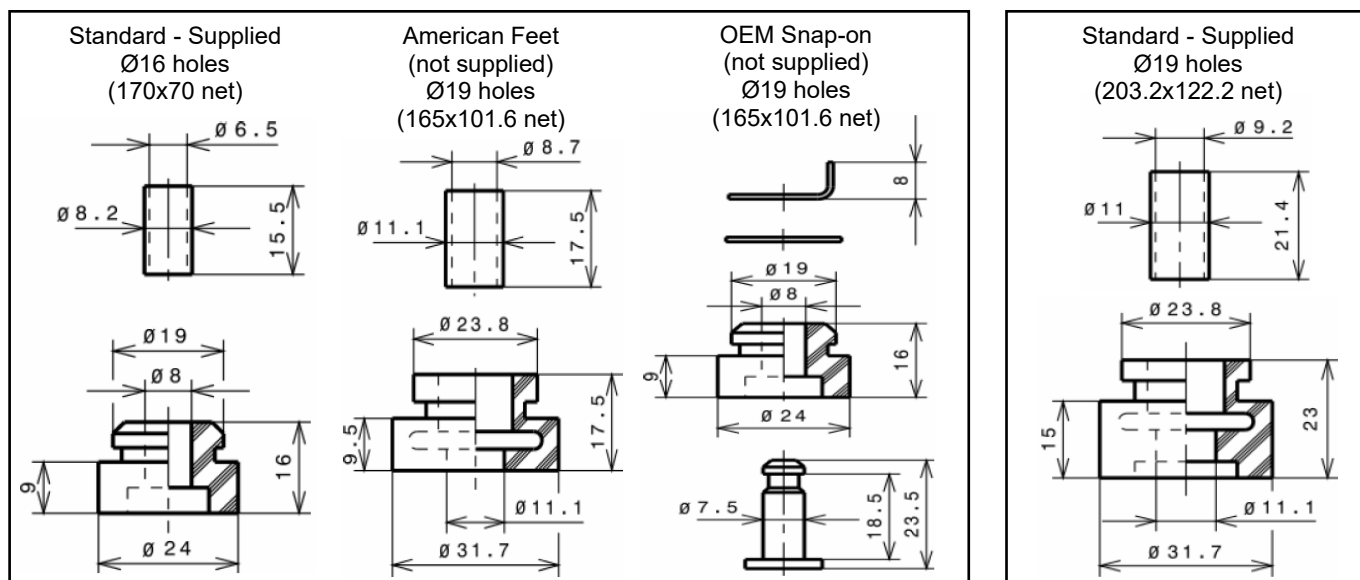


Dimensional Diagram
Number: DD14



CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

Compressor Information

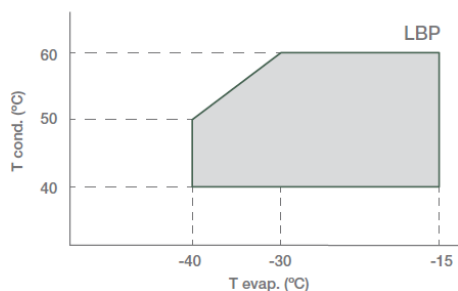


SOA - Safe Operating Area

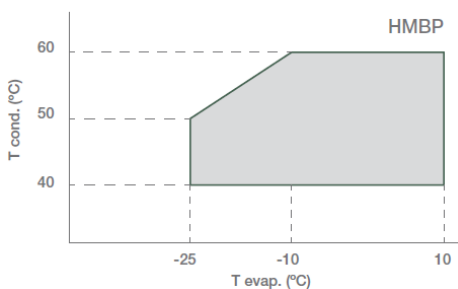
In order to grant the compressor reliability it is recommended that the point representing the operating conditions (suction and discharge pressures) falls within the shadowed area of the corresponding graph.

For Small L and B ranges:

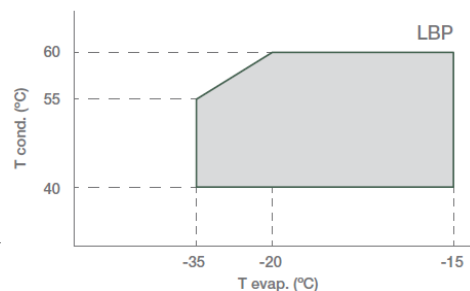
SOA R290 LBP



SOA R290 HMBP

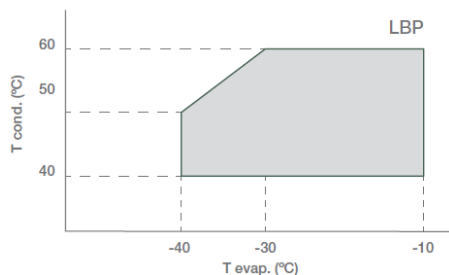


SOA R600a LBP

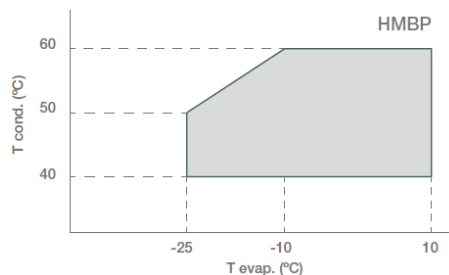


For U, L, P, X and S ranges:

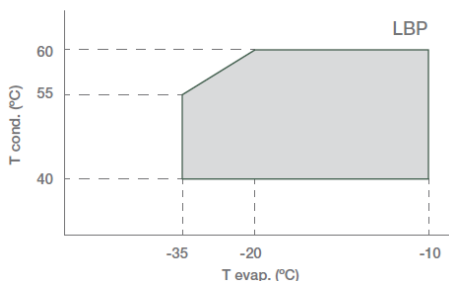
SOA R290 LBP



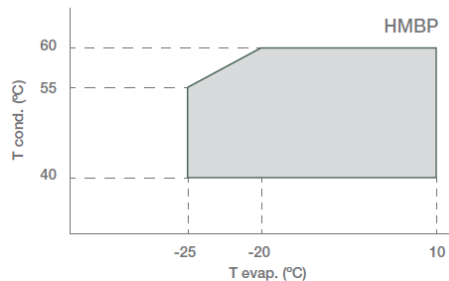
SOA R290 HMBP



SOA R600a LBP



SOA R600a HMBP



CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

Compressor Spare Parts

R290- LBP & *LMBP Compressors

Compressor Model	Relay Information		Overload Information		Start Capacitor		Run Capacitor	
	Part No.	Description	Part No.	Description	Part No.	uF / Volts	Part No.	uF / Volts
NBC35NA	104669	QL2-2.0	104663	BT37-120A61D3 (128)	-	-	-	-
NUY45LAa	405957 104086	2014 108. + NTC15Ω or QLZ 2.7A + NTC15Ω	102166	T0066	102660	47-56μF 330V	-	-
NUT70CAa	102243	PTC K100	100889 104131	AE18FU or B65-135	-	-	-	-
NUY80LAa	405174	2014 135	102186 102314	T0057 or AE39FHY	102660	47- 56μF 330V	-	-
NPY12LAb	405149 409661	2014 149. + NTC15Ω or QLZ 7.8A + NTC15Ω	104136 102199	B96-105 or T0269	104933	47- 56μF 330V	102655	10μF 420V
NPY14LAa	405178 104076	2014 158 or QLZ-9.05A	102205 104135	T0266 or B113-105	104620	64- 77μF 330V	-	-
NPT16LA	405150 409662	2014 158. + NTC15Ω or QLZ-9.05A + NTC15Ω	102199	T0269	102665	72-88μF 330V	103005	12μF 420V
NX18FBa	405151 104095	2014 166. + NTC15Ω or QLZ-11.0A+NTC15	102200	T0268	104620	64- 77μF 330V	102654	16μF 420V
NX21FBa	104096	2014 170. + NTC15Ω or QLZ-12.1A+NTC15Ω	102197	T0348	102665	72-88μF 330V	102654	16μF 420V
NXK260NA (*LMBP)	104096	2014 170. + NTC15Ω or QLZ-12.1A+NTC15Ω	104140	Protector 716, TIANYIN B170-105	103300	88-108μF 330VR.215	105840	16μF 450V R.311

R290- HMBP Compressors

Compressor Model	Relay Information		Overload Information		Start Capacitor		Run Capacitor	
	Part No.	Description	Part No.	Description	Part No.	uF / Volts	Part No.	uF / Volts
NBC30RA	103803	QL2-3.3 B3 (012)	103802	DRB20S61A2 (070)	103692	50μF 330V	-	-
NUY45RAa	405171 105212	2014 125 or QLZ-4.55A	102167	T0068	102660	47- 56μF 330V	-	-
NUY55RAa	405170 105211	2014 118 or QLZ-3.75A	102199 104136	T0269 or B96-105	104933	47- 56μF 330V	-	-
NUY70RAa	405175 105217	2014 138. + NTC15Ω or QLZ 6.1A + NTC15Ω	102199	T0269	104933	47- 56μF 330V	-	-
NUY90RAa	405149 409661	2014 149. + NTC15Ω or QLZ 7.8A + NTC15Ω	104422	B110-105	104339	60 - 61μF 330V	-	-
NLY12RAb	405150 409662	2014 158. + NTC15Ω or QLZ-9.05A + NTC15Ω	102195	T0188	102665	72-88μF 330V	103005	12μF 420V
NPT14RA	405151 104095	2014 166. + NTC15Ω or QLZ-11.0A+NTC15	102197 104134	T0348 or B154-105	104620 103692	64- 77μF 330V or 50μF 330V	102654 103713	16μF 420V or 20μF 450V
NPT16RA	405151 104095	2014 166. + NTC15Ω or QLZ-11.0A+NTC15	102197	T0348	102665	72-88μF 330V	103220	25μF 420V
NX18TBa	104097	2014 180. + NTC15Ω or QLZ-16.7A+NTC15Ω	102202	T0253	103300	88-108μF 330V	102654	16μF 420V
NX21TBa	104097	2014 180. + NTC15Ω or QLZ-16.7A+NTC15Ω	102209	T0260	103300	88-108μF 330V	102654	16μF 420V

CUBIGEL HERMETIC COMPRESSORS - R290 & R600a

Compressor Spare Parts (cont'd)

R600a - LBP Compressors

Compressor Model	Relay Information		Overload Information		Start Capacitor		Run Capacitor	
	Part No.	Description	Part No.	Description	Part No.	uF / Volts	Part No.	uF / Volts
B43CB	104854 103821	JPQII-15 A (003) or QP2-15 A (003)	103830 103830	BT20-120 (045) or BT20-120A61D3 (045)	-	-	-	-
B52CL	104854 103822	JPQII-15 (019) or QP2-15 (019)	104633 104633	BT37-120 (126) or BT37-120A61D3 (126)	-	-	-	-
B65CL	104854	JPQII-15	104659	BT30-125	-	-	-	-
HYB60MHU	104798	QP2-12/B3	105835	PTC ZHB38-135P15				
HYE81MGUa	105765	Relay & Overload Combination			-	-	105642	4µF 450V
HYE113MKUa	105767	Relay & Overload Combination			-	-	105642	4µF 450V

R600a - HMBP Compressors

Compressor Model	Relay Information		Overload Information		Start Capacitor		Run Capacitor	
	Part No.	Description	Part No.	Description	Part No.	uF / Volts	Part No.	uF / Volts
HFY55MA	104822	Relay & Overload Combination			-	-	-	-
HFY70MA	104822	Relay & Overload Combination			-	-	-	-

