Embraco NEU2178GK, compressor

Category: Refrigeration
written by www.mbsm.pro | 2 January 2026



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The Embraco NEU2178GK is the definitive choice for 1 HP commercial freezing applications. Featuring a robust CSR motor and 16.8cc displacement, this R404A compressor delivers high starting torque for demanding environments. This guide details the electrical requirements, installation tips, and how it compares to

Secop and Tecumseh alternatives.

Copeland ZB50KCE Scroll Compressor

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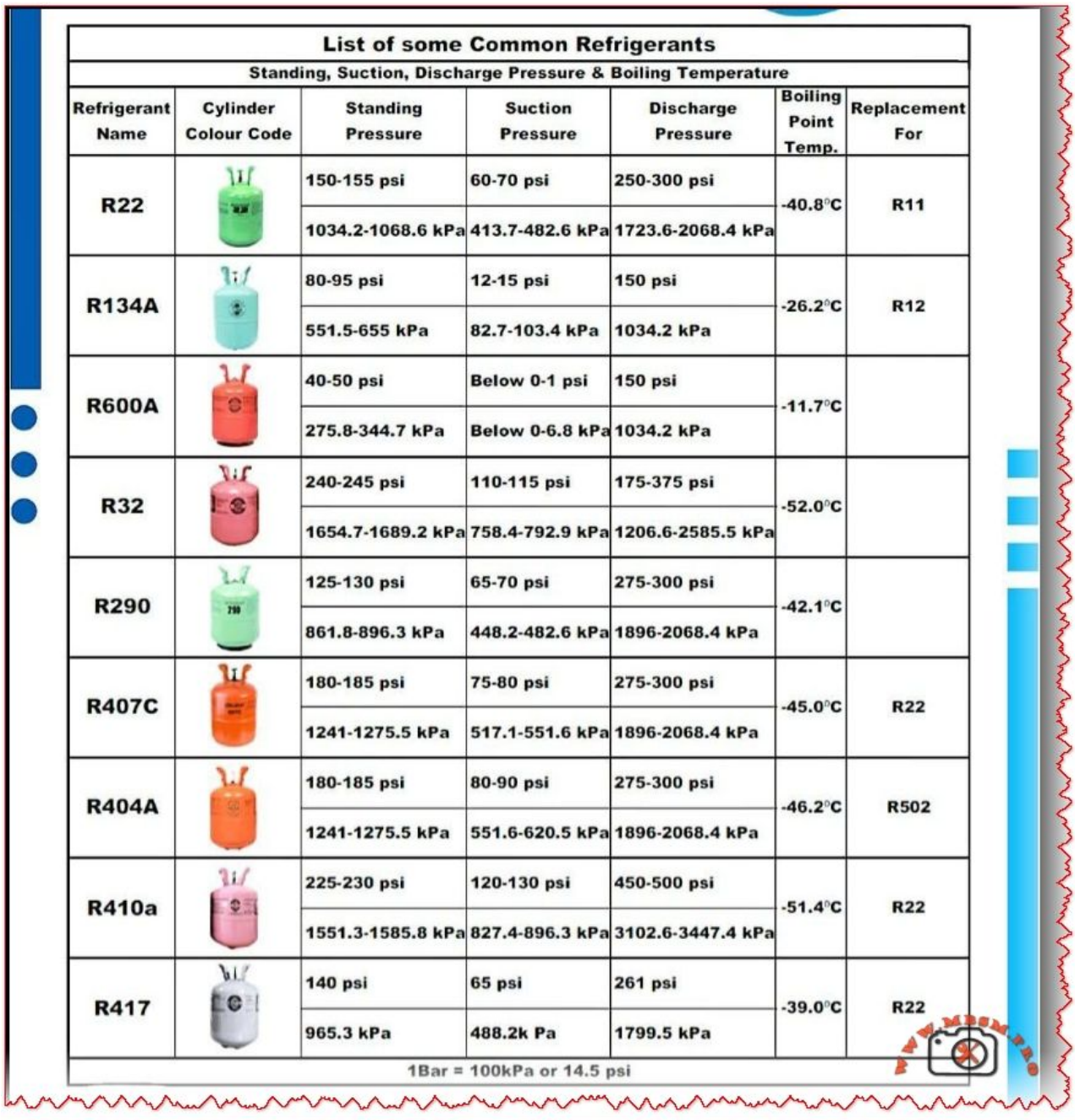


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copeland zb50kce scroll compressor 7 hp 11.9 kw polyester oil nameplate data Mbsmgroup mbsmpro.com

Refrigerants, Standing, Suction and Discharge Pressures for Modern HVAC Systems

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List of some Common Refrigerants

Standing, Suction, Discharge Pressure & Boiling Temperature

Refrigerant Name	Cylinder Colour Code	Standing Pressure	Suction Pressure	Discharge Pressure	Boiling Point Temp.	Replacement For
R22		150-155 psi	60-70 psi	250-300 psi	-40.8°C	R11
		1034.2-1068.6 kPa	413.7-482.6 kPa	1723.6-2068.4 kPa		
R134A		80-95 psi	12-15 psi	150 psi	-26.2°C	R12
		551.5-655 kPa	82.7-103.4 kPa	1034.2 kPa		
R600A		40-50 psi	Below 0-1 psi	150 psi	-11.7°C	
		275.8-344.7 kPa	Below 0-6.8 kPa	1034.2 kPa		
R32		240-245 psi	110-115 psi	175-375 psi	-52.0°C	
		1654.7-1689.2 kPa	758.4-792.9 kPa	1206.6-2585.5 kPa		
R290		125-130 psi	65-70 psi	275-300 psi	-42.1°C	
		861.8-896.3 kPa	448.2-482.6 kPa	1896-2068.4 kPa		
R407C		180-185 psi	75-80 psi	275-300 psi	-45.0°C	R22
		1241-1275.5 kPa	517.1-551.6 kPa	1896-2068.4 kPa		
R404A		180-185 psi	80-90 psi	275-300 psi	-46.2°C	R502
		1241-1275.5 kPa	551.6-620.5 kPa	1896-2068.4 kPa		
R410a		225-230 psi	120-130 psi	450-500 psi	-51.4°C	R22
		1551.3-1585.8 kPa	827.4-896.3 kPa	3102.6-3447.4 kPa		
R417		140 psi	65 psi	261 psi	-39.0°C	R22
		965.3 kPa	488.2k Pa	1799.5 kPa		

1Bar = 100kPa or 14.5 psi

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Explore a practical refrigerant pressure chart with typical standing, suction and discharge pressures plus boiling points for R22, R134a, R32, R404A, R407C, R410A, R290, R600a and R417A.

Mbsm.pro, ACC , Electrolux, Compressors, R404a, CML45FB3N, CML60FB3N, CML80FB3N, CML90FB3N, CMP12FB3N, CMP14FB3N, CMX18FB3N, CMR22FB3N, CMS26FB3N, CMS30FB3N, CML40TB3N, CML45TB3N, CML60TB3N, CML80TB3N, CML90TB3N, CMP12TB3N, CMP14TB3N, CMX16TB3N, CMX18TB3N, CMR22TB3N, CMS26TB3N, CGL40TB3NR, CGL45TB3NR, CGL60TB3NR, CGL90TB3NR, CGP10RB3N, CGP12TB3NR, CGP14TB3NR, CGX18TB3N, CGX21TB3N, CGS26TB3N, CGS30TB3N, CGS34TB3N

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Model	Compressor					Amb. Temp	R404a Capacity [watts] Evaporating temp. [°C]								Suction liquid	Dimensions [mm]			Weight kg
	Displ. cm3/rev	HP	Motor Type	Input [Watts]	FLA [A]		-25	-20	-15	-10	-5	0	5	10		L	W	H	
CML40TB3N	4.0	1/5	CSIR	348	2.0	32	205	253	309	372	440	516	597	687	3/8" : 1/4"	425	325	235	14.6
						38	189	234	285	343	406	476	551	634					
						43	178	220	268	322	381	447	518	596					
CML45TB3N	4.5	1/4	CSIR	385	2.2	32	221	277	338	405	477	555	640	724	3/8" : 1/4"	425	325	235	14.7
						38	204	256	312	373	440	512	590	668					
						43	192	240	293	351	413	481	555	628					
CML60TB3N	5.7	1/3	CSIR	477	2.8	32	274	345	421	506	596	693	797	907	3/8" : 1/4"	425	330	245	22.7
						38	253	318	389	466	550	639	735	837					
						43	238	299	365	438	517	601	691	787					
CML80TB3N	7.6	3/8	CSIR	570	3.3	32	420	493	584	692	818	961	1122	1300	3/8" : 3/8"	450	355	270	23.5
						38	388	455	539	638	754	886	1035	1199					
						43	364	428	506	600	709	833	972	1127					
CML90TB3N	8.9	1/2	CSIR	700	4.0	32	434	545	665	798	940	1094	1258	1433	3/8" : 3/8"	425	355	270	23.9
						38	400	503	614	736	867	1009	1160	1321					
						43	376	472	577	692	815	948	1090	1242					
CMP12TB3N	12.0	1/2	CSR	860	4.1	32	598	755	926	1113	1317	1537	1772	2023	3/8" : 3/8"	480	425	350	29.8
						38	552	696	854	1027	1215	1417	1634	1866					
						43	519	655	803	965	1142	1332	1536	1754					
CMP14TB3N	14.0	5/8	CSR	1000	4.9	32	631	810	1002	1208	1429	1662	1911	2172	3/8" : 3/8"	500	425	350	29.9
						38	582	747	924	1114	1318	1533	1762	2004					
						43	547	702	869	1047	1239	1441	1657	1883					
CMX16TB3N	16.0	1	CSR	1163	5.8	32	751	973	1198	1428	1661	1899	2140	2385	3/8" : 3/8"	495	430	350	30.0
						38	708	916	1129	1345	1564	1788	2015	2246					
						43	671	869	1070	1276	1483	1696	1911	2130					
CMX18TB3N	18.4	11/8	CSR	1370	7.0	32	812	1024	1242	1466	1697	1933	2176	2425	3/8" : 3/8"	500	430	350	33.0
						38	765	965	1169	1381	1598	1820	2049	2283					
						43	725	915	1109	1310	1516	1726	1944	2165					
CMR22TB3N	21.2	11/4	CSR	1228	6.3	32	885	1126	1397	1698	2031	2396	2787	3213	1/2" : 3/8"	525	455	440	41.2
						38	816	1038	1288	1567	1873	2210	2571	2963					
						43	767	976	1211	1473	1761	2077	2416	2785					
CMS26TB3N	25.9	11/2	CSR	1772	9.0	32	1218	1553	1911	2289	2690	3113	3557	4023	1/2" : 3/8"	515	455	440	43.2
						38	1124	1433	1762	2111	2481	2871	3280	3711					
						43	1056	1347	1657	1984	2333	2699	3084	3488					

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CML45FB3N, CML60FB3N, CML80FB3N, CML90FB3N, CMP12FB3N, CMP14FB3N, CMX18FB3N, CMR22FB3N, CMS26FB3N, CMS30FB3N, CML40TB3N, CML45TB3N, CML60TB3N, CML80TB3N, CML90TB3N, CMP12TB3N, CMP14TB3N, CMX16TB3N, CMX18TB3N, CMR22TB3N, CMS26TB3N, CGL40TB3NR, CGL45TB3NR, CGL60TB3NR, CGL90TB3NR, CGP10RB3N, CGP12TB3NR, CGP14TB3NR, CGX18TB3N, CGX21TB3N, CGS26TB3N, CGS30TB3N, CGS34TB3N

Mbsm.pro, Compressor, Tecumseh, 1/2 hp, CAE9470Z, (POE), HBP, R404A, 220-240V/1/50Hz , replaced by AE4470Z

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Mbsm.pro, Compressor, Tecumseh, 1/2 hp, CAE9470Z, (POE), HBP, R404A, 220-240V/1/50Hz , replaced by AE4470Z

Mbsm.pro, Compressor, hermetic, piston, Embraco, NT2178GK, 3/4 hp, Lbp, 17.40 cm3, R404A, R452A, R507A

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Mbsm.pro, Compressor, hermetic, piston, Embraco, NT2178GK, 3/4 hp, Lbp, 17.40 cm3, R404A, R452A, R507A

Hermetic, compressor, Embraco, Aspera, NEK2134GK-A, CSIR, R404A, R507, 1/2 Hp, 8.7 cm3, NEK2134GK, lbp, NEK 2134 U

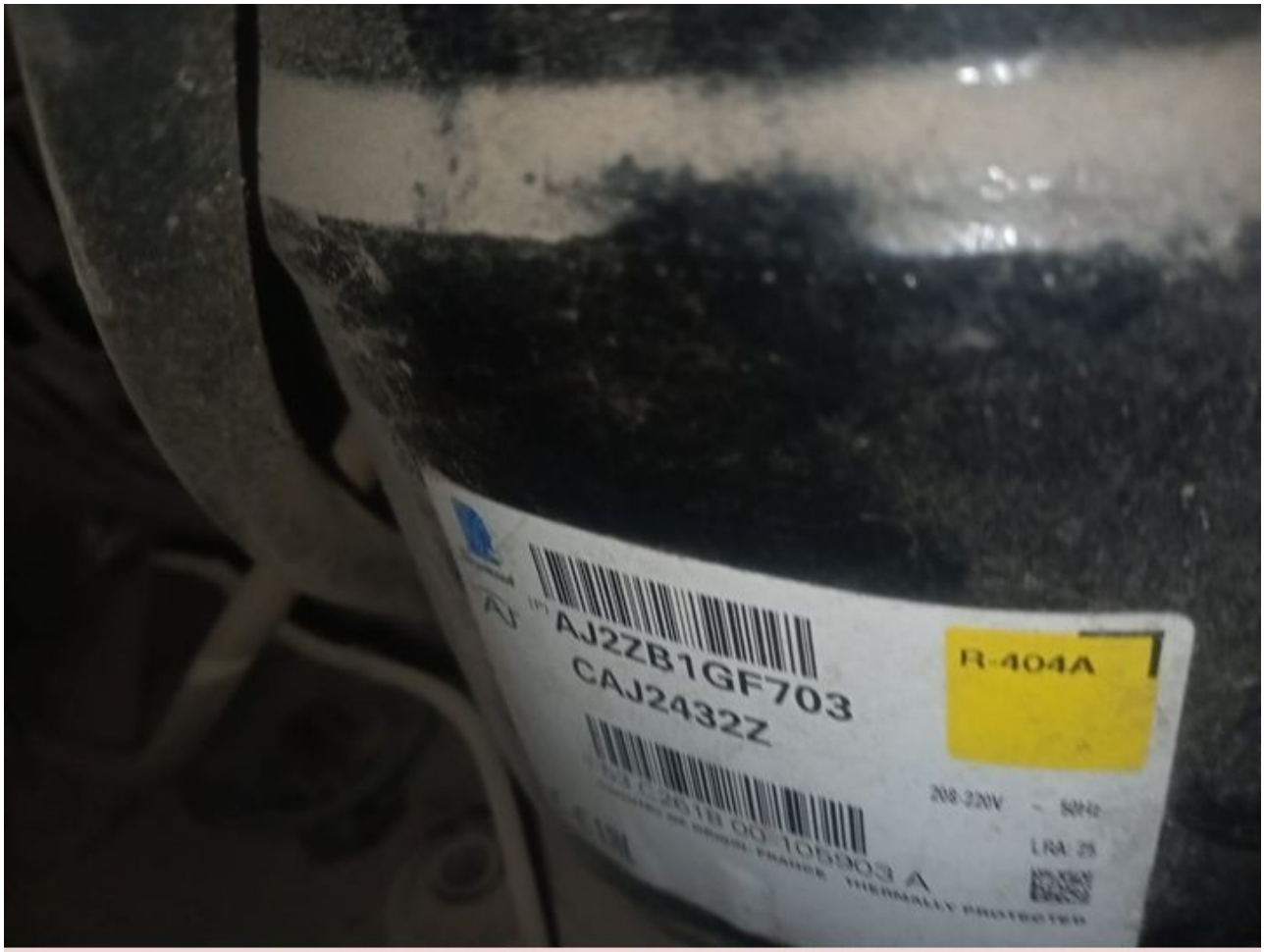
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Hermetic, compressor, Embraco, Aspera, NEK2134GK-A, CSIR, R404A, R507, 1/2 Hp, 8.7 cm3, NEK2134GK, lbp, NEK 2134 U

Mbsm.pro, CAJ2432Z, AJE2422ZHZ, 3/4 hp, Tecumseh, Compressor, R404a, Lbp, 480 w, 18.3CM³

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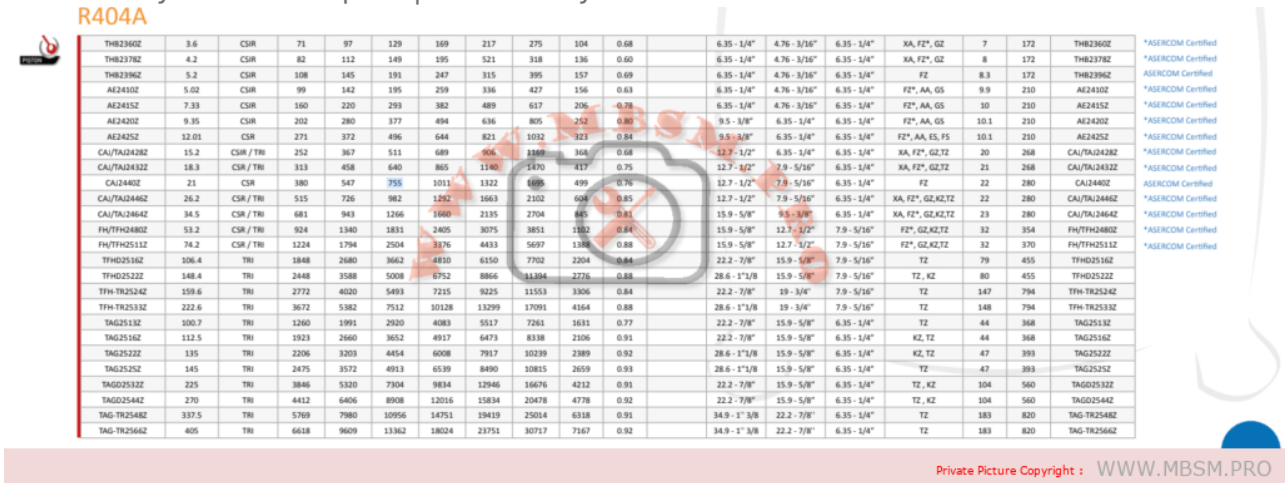


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Mbsm.pro, CAJ2432Z, AJE2422ZHZ, 3/4 hp, Tecumseh, Compressor, R404a, Lbp, 480 w, 18.3CM³

Mbsm.pro, Compressor, 1HP, 1 PH, R404A, CAJ2446Z, AJ27MIGF704, 26,2cm³, LBP, 230V

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Mbsm.pro, Compressor, 1HP, 1 PH, R404A, CAJ2446Z, AJ27MIGF704, 26,2cm³, LBP, 230V

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Mbsm.pro, ALL, Compressor Hitachi, R134a, R404a, R600a, Inverter