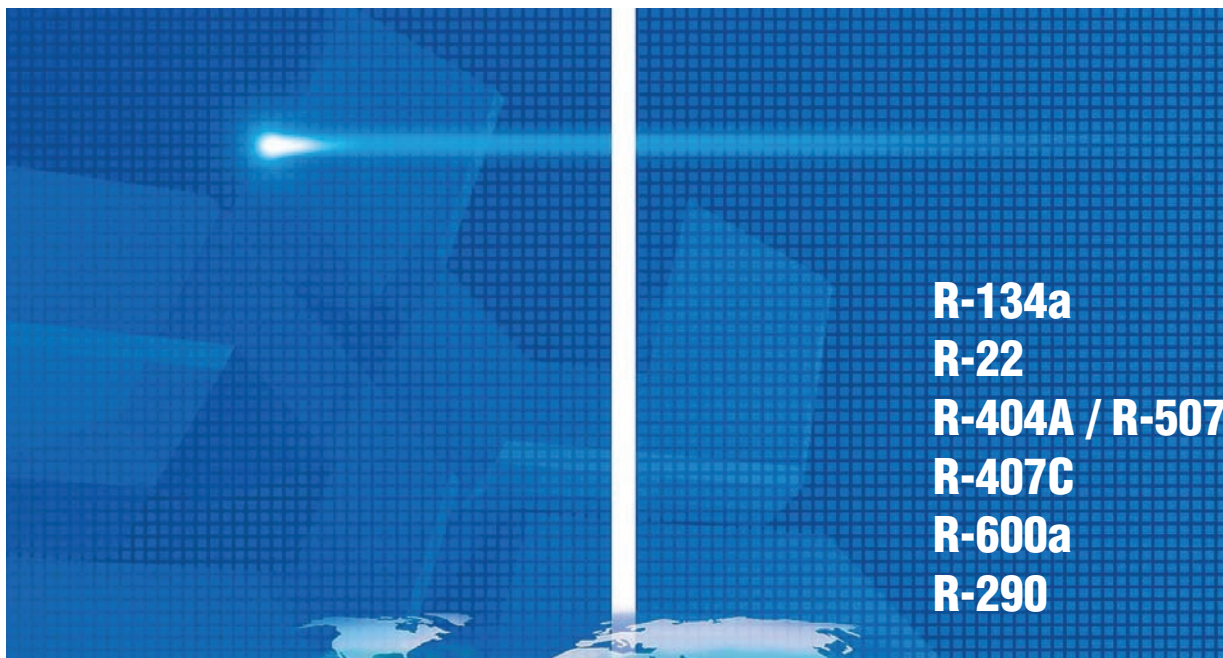


HERMETIC COMPRESSORS



R-134a
R-22
R-404A / R-507
R-407C
R-600a
R-290



Product Line

EM
NB
NE
T/NT
NJ



embraco

REFRIGERANT APPLICATION FREQUENCY
R-404A / R-507 LBP 50Hz

MODEL	Displacement		B.O.M.	Voltage / Frequency	Motor Type	LRA	Exp. Device	Lubricant			Weight		Max. Height A		Cooling Type
	cm ³	in ³						Charge cm ³	oz ³	Type	kg	lb	mm	in	
NE2125GK	8.78	0.54	951IA	220-240V 50Hz 1~	CSIR	13.8	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4	F
NE2134GK	12.12	0.74	953AA	220-240V 50Hz 1~	CSIR	16.4	C/V	350	12.0	POE 22	11.7	25.8	206.0	8.1	F
NEK2117GK	4.52	0.28	957BA	220-240V 50Hz 1~	CSIR	9.6	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4	S
NEK1121GK	5.45	0.33	957CA	220-240V 50Hz 1~	RSIR	15.4	C	350	12.0	POE 22	10.4	22.9	187.0	7.4	S
NEK2121GK	5.45	0.33	957DA	220-240V 50Hz 1~	CSIR	9.6	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4	S
NEK1125GK	6.20	0.38	958EA	220-240V 50Hz 1~	RSIR	20.2	C	350	12.0	POE 22	11.0	24.3	200.0	7.9	S
NEK2125GK	6.20	0.38	957EA	220-240V 50Hz 1~	CSIR	12.4	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4	F
NEK2130GK	7.40	0.45	958BA	220-240V 50Hz 1~	CSIR	16.0	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9	F
NEK1134GK	8.78	0.54	958DA	220-240V 50Hz 1~	RSIR	21.7	C	350	12.0	POE 22	11.0	24.3	200.0	7.9	F
NEK2134GK	8.78	0.54	958AA	220-240V 50Hz 1~	CSIR	16.1	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9	F
NEK1150GK	12.12	0.74	959EA	220-240V 50Hz 1~	RSIR	20.5	C	350	12.0	POE 22	11.6	25.5	206.0	8.1	F
NEK2150GK	12.12	0.74	959AA	220-240V 50Hz 1~	CSIR	19.5	C/V	350	12.0	POE 22	11.6	25.5	206.0	8.1	F
NEK2168GK	14.30	0.87	959FA	220-240V 50Hz 1~	CSIR	18.5	C/V	350	12.0	POE 22	11.6	25.5	206.0	8.1	F
NEK2168GK	14.30	0.87	959FA	220-240V 50Hz 1~	CSR	18.5	C/V	350	12.0	POE 22	11.6	25.5	206.0	8.1	F
T2155GK	14.50	0.88	936AA	220-240V 50Hz 1~	CSR	20.0	C/V	550	20.0	POE 22	16.3	35.9	221.0	8.7	F
T2155GK-	14.50	0.88	936BA	220-240V 50Hz 1~	CSIR	22.0	C/V	550	20.0	POE 22	16.6	36.6	221.0	8.7	F
T2168GK	17.40	1.06	936CA	220-240V 50Hz 1~	CSR	18.0	C/V	550	20.0	POE 22	16.8	37.0	221.0	8.7	F
T2168GK-	17.40	1.06	936DA	220-240V 50Hz 1~	CSIR	24.5	C/V	550	20.0	POE 22	17.2	37.9	221.0	8.7	F
T2178GK	20.40	1.24	936EA	220-240V 50Hz 1~	CSR	22.8	C/V	550	20.0	POE 22	17.2	37.9	221.0	8.7	F
T2178GK-	20.40	1.24	936FA	220-240V 50Hz 1~	CSIR	30.0	C/V	550	20.0	POE 22	17.3	38.1	221.0	8.7	F
T2180GK	22.40	1.37	936HA	220-240V 50Hz 1~	CSR	28.0	C/V	550	20.0	POE 22	17.3	38.1	221.0	8.7	F
T2180GJ	22.40	1.37	936IA	220-240V 50Hz 1~	CSR	30.0	C/V	550	20.0	POE 22	17.3	38.1	221.0	8.7	F
NT2168GK	14.50	0.88	922DN	200-240V 50Hz / 230V 60Hz 1~	CSIR	25.0	C/V	450	15.7	POE 22	16.8	37.0	220.0	8.7	F
NT2168GK*	14.50	0.88	922DN	200-240V 50Hz / 230V 60Hz 1~	CSR	25.0	C/V	450	15.7	POE 22	16.8	37.0	220.0	8.7	F
NT2178GK	17.40	1.06	922EA	220-240V 50Hz 1~	CSIR	25.0	C/V	450	15.7	POE 22	17.2	37.9	220.0	8.7	F
NT2178GK	17.40	1.06	922EA	220-240V 50Hz 1~	CSR	25.0	C/V	450	15.7	POE 22	17.2	37.9	220.0	8.7	F
NT2178GK	17.40	1.06	922EN	200-240V 50Hz / 230V 60Hz 1~	CSIR	26.0	C/V	450	15.7	POE 22	17.2	37.9	220.0	8.7	F
NT2178GK*	17.40	1.06	922EN	200-240V 50Hz / 230V 60Hz 1~	CSR	26.0	C/V	450	15.7	POE 22	17.2	37.9	220.0	8.7	F
NT2180GK	20.40	1.24	923HA	220-240V 50Hz 1~	CSIR	35.0	C/V	450	15.7	POE 22	18.0	39.6	234.0	9.2	F
NT2180GK*	20.40	1.24	923HA	220-240V 50Hz 1~	CSR	35.0	C/V	450	15.7	POE 22	18.0	39.6	234.0	9.2	F
NT2192GK	22.40	1.37	923EA	220-240V 50Hz 1~	CSIR	35.0	C/V	450	15.7	POE 22	18.2	40.0	234.0	9.2	F
NT2192GK	22.40	1.37	923EA	220-240V 50Hz 1~	CSR	35.0	C/V	450	15.7	POE 22	18.2	40.0	234.0	9.2	F
NJ2192GK	26.20	1.60	944AA	220-240V 50Hz 1~	CSR	26.0	C/V	750	26.0	POE 22	20.4	45.0	265.0	10.4	F
NJ2192GS	26.20	1.60	948AM	380-420V 50Hz / 440-480V 60Hz 3~	3PHASE	13.0	C/V	750	26.0	POE 22	22.8	50.3	265.0	10.4	F
NJ2212GK	34.37	2.10	943BA	220-240V 50Hz 1~	CSR	36.0	C/V	750	26.0	POE 22	21.5	47.4	277.0	10.9	F
NJ2212GS	34.37	2.10	947AM	380-420V 50Hz / 440-480V 60Hz 3~	3PHASE	13.0	C/V	750	26.0	POE 22	20.4	45.0	277.0	10.9	F

Note: Please check Test Conditions on page 30.

* Under development

	Condensing Temperature °C	Cooling Capacity / Evaporating Temperature °C													Drawings		MODEL
		Subcooled condition W													External View ref.	Wiring Diagram ref.	
		Rated Point -23.3°C															
		-40	-35	-30	-25	Cooling W	kcal/h	W. input W	Current A	W/W	EER	kcal/hW	-20	-15	-10		
	54.4			204	303	339	292	314	2.50	1.08	0.93	416	544	687	DWG03	SM05	NE2125GK
	45	107	170	252	351							469	605	760			
	54.4			283	424	476	409	388	2.60	1.23	1.06	585	765	965	DWG03	SM05	NE2134GK
	45	125	236	363	508							671	850	1047			
	54.4			163	214	235	202	182	1.25	1.29	1.11	278	352	438	DWG02	SM05	NEK2117GK
	45	109	142	184	236							297	367	449			
	54.4			198	246	265	228	223	1.43	1.19	1.02	312	392	480	DWG03	SM03	NEK1121GK
	45	126	170	222	285							345	422	496			
	54.4			199	259	283	243	219	1.37	1.29	1.11	334	422	523	DWG03	SM05	NEK2121GK
	45	133	170	220	283							356	442	538			
	54.4			225	282	310	267	254	1.83	1.22	1.05	345	405	470	DWG03	SM03	NEK1125GK
	45	128	186	248	308							370	435	500			
	54.4			243	314	341	293	279	2.04	1.22	1.05	398	494	603	DWG03	SM05	NEK2125GK
	45	156	202	262	334							420	520	633			
	54.4			279	374	398	343	303	2.18	1.31	1.13	469	588	722	DWG03	SM05	NEK2130GK
	45	171	229	303	401							499	622	760			
	54.4			315	415	450	388	356	2.32	1.26	1.09	532	668	822	DWG03	SM03	NEK1134GK
	45	192	256	340	445							568	710	872			
	54.4			327	442	464	399	358	2.35	1.30	1.11	544	679	833	DWG03	SM05	NEK2134GK
	45	203	269	353	463							579	720	879			
	54.4			430	550	595	512	484	3.15	1.23	1.06	680	820	970	DWG03	SM03	NEK1150GK
	45	270	355	465	600							756	940	1148			
	54.4			445	570	616	530	497	3.10	1.24	1.07	716	888	1086	DWG03	SM05	NEK2150GK
	45	286	366	473	628							763	947	1156			
	54.4			494	640	704	605	604	3.75	1.17	1.00	807	995	1205	DWG03	SM05	NEK2168GK
	45	304	407	535	687							860	1058	1280			
	54.4			500	650	707	608	520	2.58	1.36	1.17	828	1030	1258	DWG03	SM06	NEK2168GK
	45	302	406	538	695							880	1095	1336			
	54.4			368	524	586	504	458	2.00	1.28	1.10	717	948	1215	DWG12	SM13	T2155GK
	45	220	299	420	583							789	1037	1327			
	54.4			368	524	586	504	495	3.60	1.18	1.01	717	948	1215	DWG08	SM09	T2155GK-
	45	220	299	420	583							789	1037	1327			
	54.4			487	678	752	647	547	2.50	1.38	1.19	906	1169	1467	DWG10	SM13	T2168GK
	45	293	405	558	753							988	1264	1582			
	54.4			487	678	752	647	617	3.90	1.22	1.05	906	1169	1467	DWG09	SM09	T2168GK-
	45	293	405	558	753							988	1264	1582			
	54.4			606	827	910	783	678	3.20	1.34	1.15	1081	1368	1688	DWG11	SM13	T2178GK
	45	351	496	678	897							1155	1450	1782			
	54.4			606	827	910	783	758	4.90	1.20	1.03	1081	1368	1688	DWG09	SM09	T2178GK-
	45	351	496	678	897							1155	1450	1782			
	54.4			639	873	994	855	790	3.90	1.26	1.08	1147	1460	1813	DWG11	SM13	T2180GK
	45	389	540	733	969							1246	1565	1927			
	54.4			639	873	994	855	810	4.00	1.23	1.06	1147	1460	1813	DWG11	SM13	T2180GJ
	45	389	540	733	969							1246	1565	1927			
	54.4			435	585	642	552	502	3.50	1.28	1.10	762	968	1202	DWG16	SM19	NT2168GK
	45	250	355	488	648							835	1050	1292			
	54.4			-	-	642	552	-	-	-	-	-	-	-	DWG16	SM23	NT2168GK*
	45	-	-	-	-							-	-	-			
	54.4			530	718	788	678	600	3.82	1.30	1.12	935	1182	1456	DWG16	SM19	NT2178GK
	45	292	432	600	792							1010	1258	1530			
	54.4			544	735	806	694	564	2.56	1.43	1.23	956	1206	1486	DWG16	SM23	NT2178GK
	45	300	442	610	808							1032	1285	1565			
	54.4			560	734	800	688	696	4.30	1.15	0.99	934	1160	1370	DWG16	SM19	NT2178GK
	45	320	464	625	814							1032	1280	1492			
	54.4			-	-	800	688	-	-	-	-	-	-	-	DWG16	SM23	NT2178GK*
	45	-	-	-	-							-	-	-			
	54.4			648	856	934	804	749	4.66	1.25	1.07	1100	1380	1690	DWG16	SM19	NT2180GK
	45	380	530	715	936							1194	1485	1814			
	54.4			-	-	934	804	-	-	-	-	-	-	-	DWG16	SM23	NT2180GK*
	45	-	-	-	-							-	-	-			
	54.4			730	965	1054	906	814	4.92	1.29	1.11	1238	1552	1906	DWG16	SM19	NT2192GK
	45	436	594	796	1040							1328	1662	2038			
	54.4			754	998	1088	936	744	3.46	1.46	1.26	1280	1598	1956	DWG16	SM23	NT2192GK
	45	442	606	814	1064							1358	1698	2080			
	54.4			752	1021	1125	968	854	4.00	1.32	1.14	1345	1725	2161	DWG14	SM16	NJ2192GK
	45	418	629	880	1172							1503	1875	2287			
	54.4			752	1021	1125	968	913	1.90	1.23	1.06	1345	1725	2161	DWG14	SM18	NJ2192GS
	45	418	629	880	1172							1503	1875	2287			
	54.4			945	1333	1477	1270	1097	5.30	1.35	1.16	1775	2273	2825	DWG14	SM16	NJ2212GK
	45	491	753	1085	1486							1957	2496	3106			
	54.4			945	1333	1477	1270	1139	2.00	1.30	1.12	1775	2273	2825	DWG14	SM18	NJ2212GS
	45	491	753	1085	1486							1957	2496	3106			

GENERAL INFORMATION

Motor Type

Type	Description
RSIR	Resistive Start Inductive Run
RSCR	Resistive Start Capacitive Run
CSIR	Capacitive Start Inductive Run
CSR	Capacitive Start and Run
PSC	Permanent Split Capacitor
THREE PHASE	Star Connection

Cooling Types

Type	Description
S	(Static cooling) - the compressor doesn't need forced cooling, but it must be installed in order to guarantee natural air circulation by convection, to avoid overheating.
F	(Fan cooling) - the compressor needs forced cooling by the use of a motor fan.
OC	(Oil Cooling) - coil positioned in the lower internal part of the housing, immersed in the lubricant. where the gas coming from the first part of the heat exchanger circuit cools the lubricant.

Conversion

1 watt	3.41 Btu/h
1 watt	0.86 kcal/h
1 kcal/h	3.97 Btu/h

Expansion Devices

Type	Description
C	Capillary
V	Expansion valve

Lubricant Used

Code	Type
AB	alkylbenzene
MO	mineral
POE	polyolester

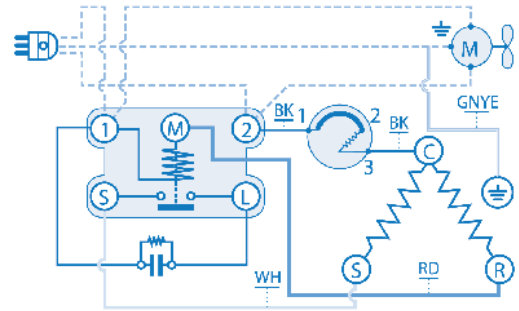
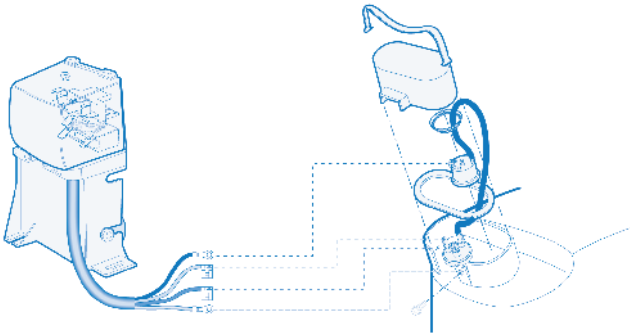
Test Conditions

Temperature	Subcooled Liquid Conditions					
	LBP		MBP-HBP		AC	
	°C	°F	°C	°F	°C	°F
Evaporating	-23.3	-10.0	7.2	45.0	7.2	45.0
Condensing	54.4	130.0	54.4	130.0	54.4	130.0
Gas & Ambient	32.2	90.0	35.0	95.0	35.0	95.0
Liquid	32.2	90.0	-	-	-	-
Liquid Subcooling	-	-	8.3	15.0	8.3	15.0

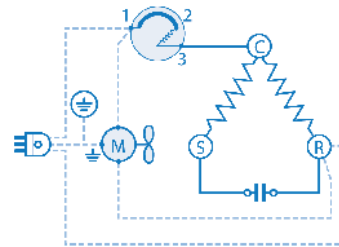
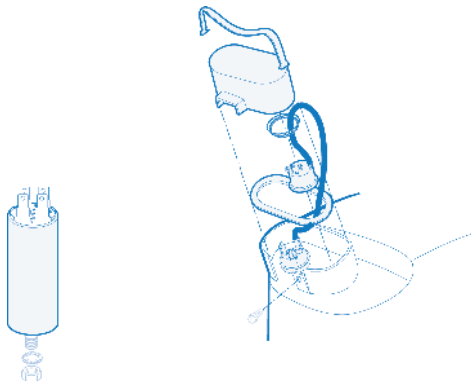
Note: After replacement, the compressor and its accessories must have proper processing, and the components must be recycled according to the material group (ferrous, non-ferrous, polymers, oils, ...) directives. These recommendations are intended to minimize the adverse impacts that may be caused to the environment.

WIRING DIAGRAMS

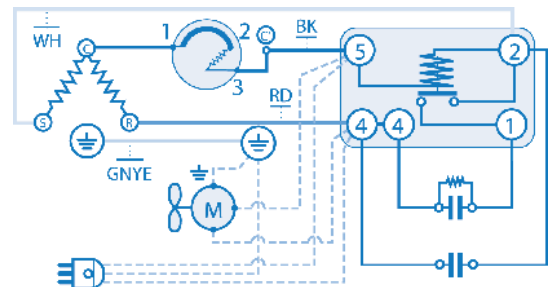
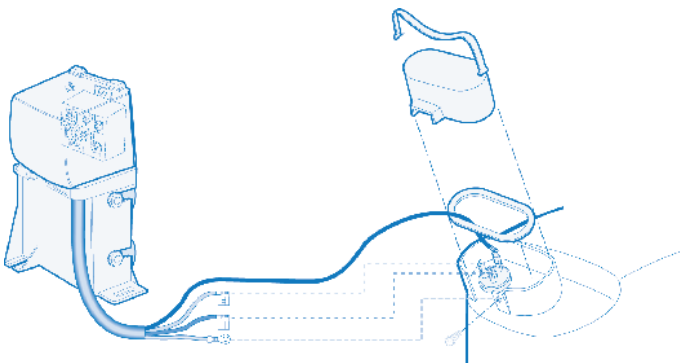
SM 14 NJ SERIES CSIR Box



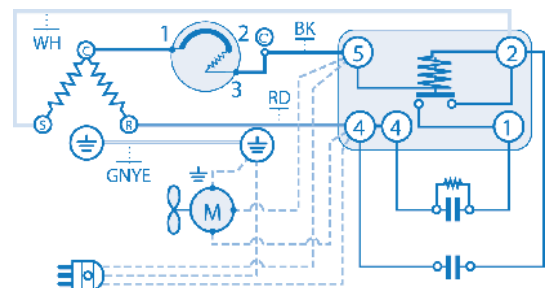
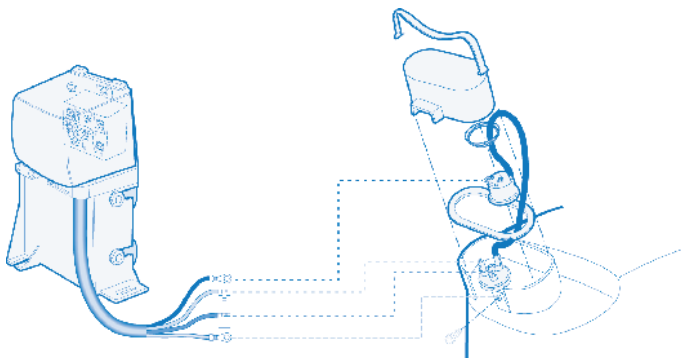
SM 15 NJ SERIES PSC



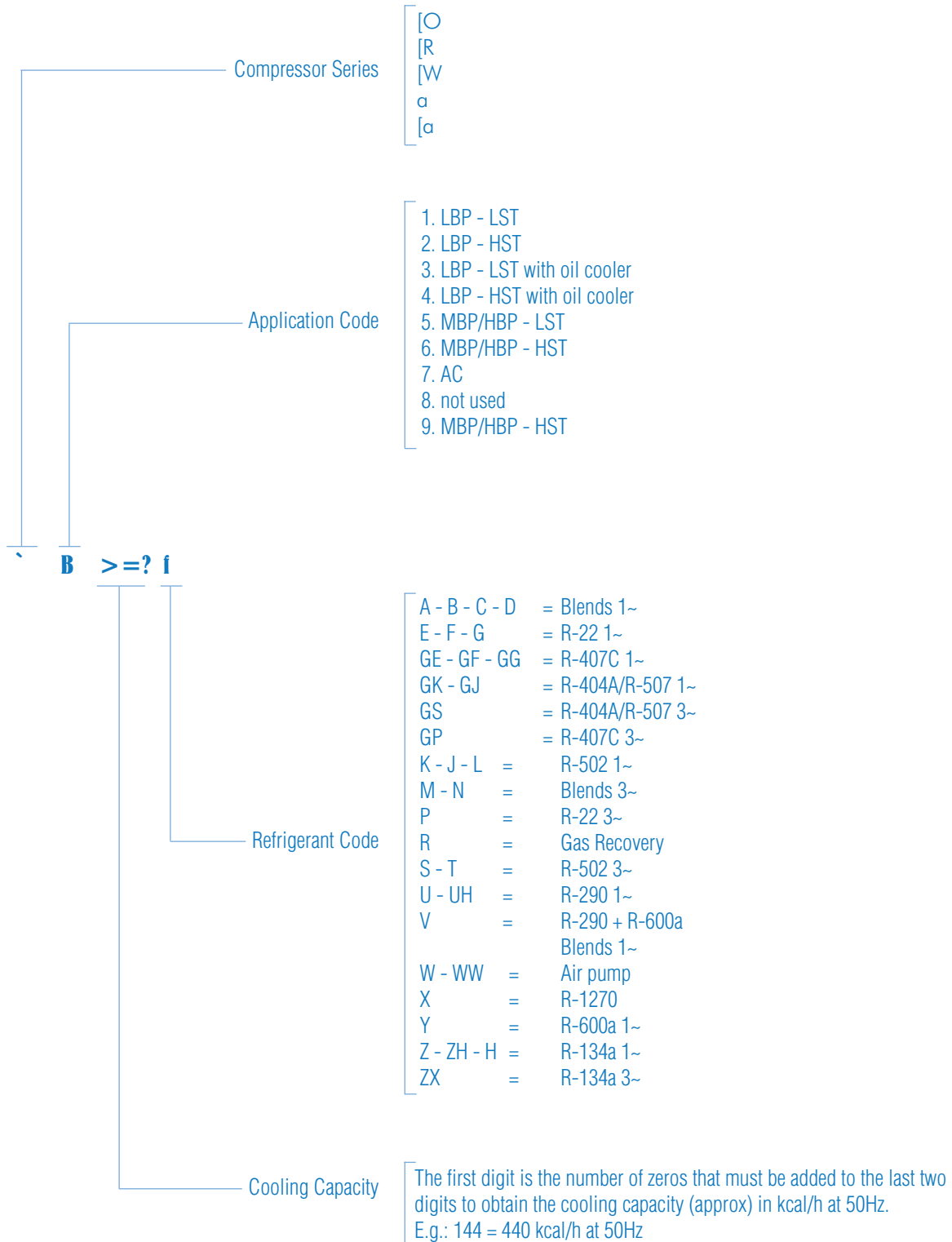
SM 16 NJ SERIES CSR Box (Internal Overload Protector)



SM 17 NJ SERIES CSR Box

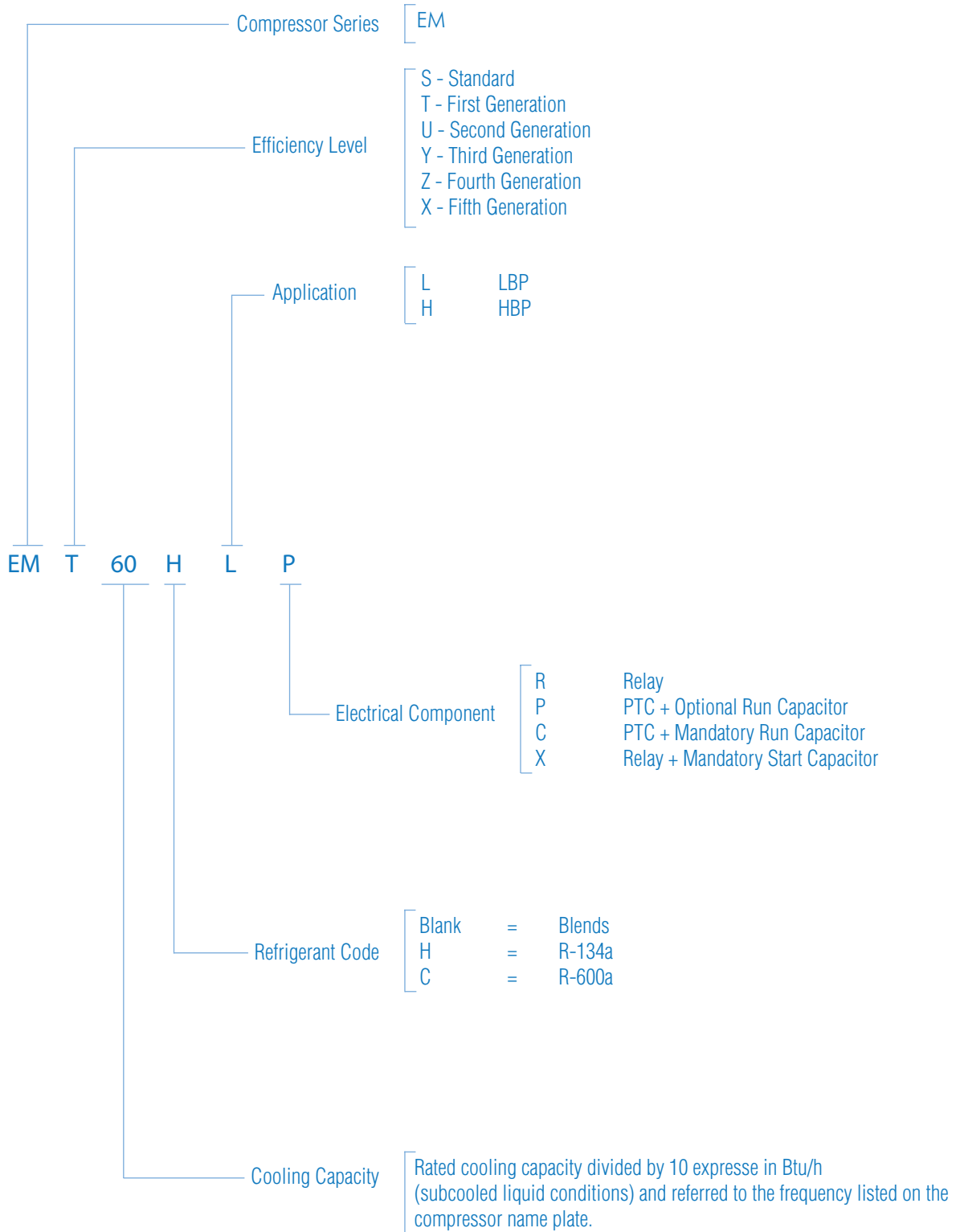


COMPRESSOR MODEL



NOMENCLATURE

COMPRESSOR MODEL



BILL OF MATERIAL

Model Code

>@CM

M

External Execution Code

<>

Supply Code

A	=	220-240V 50Hz 1~
B	=	200-230V 50Hz / 208-230V 60Hz 1~
C	=	220V 50Hz 1~
D	=	208-230V 60Hz / 200V 50Hz 1~
G	=	115V 60Hz / 100V 50Hz 1~
H	=	265-277V 60Hz 1~
I	=	200-220V 60Hz 1~
J	=	230V 60Hz / 200V 50Hz 1~
K	=	200-220V 50Hz / 230V 60Hz 1~
L	=	200-240V 50Hz / 230V 60Hz 3~
M	=	380-420V 50Hz / 440-480V 60Hz 3~
N	=	200-240V 50Hz / 230V 60Hz 1~
Q	=	100V 50/60Hz 1~
T	=	220-230V 50Hz 1~
U	=	220V 60Hz 1~
V	=	230V 50Hz 1~
W	=	220V 50/60Hz 1~
Z	=	200 - 230V ~ 60Hz 1~



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