

# HERMETIC COMPRESSORS

**R-134a**  
**R-404A / R-507**  
**R-290**  
**R-744**  
**R-600a**

**New Product Line**

**EK**  
**EM**  
**NB**  
**NE**  
**NT**  
**NJ**



 **Embraco®**



General Data and Performance	Page
------------------------------	------

**50Hz****LBP**

R-134a .....	04
R-404A / R-507 .....	06
R-290 .....	08
R-600a .....	08

**MBP**

R-404A / R-507 .....	10
----------------------	----

**M/HBP**

R-744 .....	10
R-290 .....	12

**HBP**

R-134a .....	14
R-600a .....	16

**60Hz****LBP**

R-134a .....	16
R-404A / R-507 .....	18
R-290 .....	20
R-600a .....	20

**MBP**

R-404A / R-507 .....	22
----------------------	----

**M/HBP**

R-744 .....	24
-------------	----

**HBP**

R-134a .....	26
--------------	----

<b>General Information</b>	<b>28</b>
----------------------------	-----------

<b>External Views</b>	<b>29</b>
-----------------------	-----------

<b>Wiring Diagrams</b>	<b>31</b>
------------------------	-----------

<b>Nomenclature</b>	<b>36</b>
---------------------	-----------

REFRIGERANT	APPLICATION	FREQUENCY
R-134a	LBP	50Hz

MODEL	Displacement		B.O.M.	Voltage / Frequency	Motor Type	LRA	Exp. Device	Lubricant			Weight		Max. Height	
	cm <sup>3</sup>	in <sup>3</sup>						Charge		Type	kg	lb	mm	in
EMT22HLP	3.00	0.18	191CA	220-240V 50Hz 1~	RSIR-RSCR	3.0	C	180	6.2	POE 10	7.1	15.7	158.0	6.2
EMT36HLP	3.97	0.24	192CA	220-240V 50Hz 1~	RSIR-RSCR	3.8	C	180	6.2	POE 10	7.5	16.5	166.0	6.5
EMT43HLP	4.85	0.30	192DA	220-240V 50Hz 1~	RSIR-RSCR	4.7	C	180	6.2	POE 10	7.5	16.5	166.0	6.5
EMT49HLP	5.56	0.34	192EA	220-240V 50Hz 1~	RSIR-RSCR	4.8	C	180	6.2	POE 10	7.7	17.0	166.0	6.5
EMT60HLP	6.76	0.41	192GA	220-240V 50Hz 1~	RSIR-RSCR	6.2	C	180	6.2	POE 10	7.7	17.0	166.0	6.5
NBT1114Z	6.20	0.38	297AA	220-240V 50Hz 1~	RSIR-RSCR	5.1	C	350	6.2	POE 10	10.2	22.5	187.0	7.4
NBT1116Z	7.40	0.45	298AA	220-240V 50Hz 1~	RSIR-RSCR	5.3	C	350	6.2	POE 10	10.8	23.8	200.0	7.9
NBT1118Z	8.40	0.51	298BA	220-240V 50Hz 1~	RSIR-RSCR	6.9	C	350	6.2	POE 10	10.8	23.8	200.0	7.9
NEK1121Z	9.27	0.57	269FA	220-240V 50Hz 1~	RSIR	23.0	C	350	12.0	POE 22	11.6	25.6	206.0	8.1
NE2121Z	9.27	0.57	262BA	220-240V 50Hz 1~	CSIR	12.6	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9
NE2121Z	9.27	0.57	263BK	200-220V 50Hz / 230V 60Hz	CSIR	15.0	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9
NE1130Z	12.12	0.74	263IK	200-220V 50Hz / 230V 60Hz	RSIR	22.0	C	350	12.0	POE 22	11.0	24.3	200.0	7.9
NE2130Z	12.12	0.74	263DK	200-220V 50Hz 1~ / 230V 60Hz 1~	CSIR	14.3	C/V	350	12.0	POE 22	11.6	25.6	200.0	7.9
NE1130Z	12.12	0.74	262CA	220-240V 50Hz 1~	RSIR	16.3	C	350	12.0	POE 22	11.0	24.3	200.0	7.9
NE2130Z	12.12	0.74	262DA	220-240V 50Hz 1~	CSIR	13.2	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9
NEK3130Z	12.12	0.74	269CA	220-240V 50Hz 1~	RSIR	16.0	C	350	12.0	POE 22	11.6	25.6	206.0	8.1
NE2134Z	14.28	0.87	263CA	220-240V 50Hz 1~	CSIR	17.0	C/V	350	12.0	POE 22	11.5	25.4	206.0	8.1
NEK2140Z	16.80	1.02	269GA	220-240V 50Hz 1~	CSIR	16.9	C/V	350	12.0	POE 22	11.6	25.6	206.0	8.1
NEK1140Z	16.80	1.02	269IA	220-240V 50Hz 1~	RSIR	23.0	C	350	12.0	POE 22	11.6	25.6	206.0	8.1

FREQUENCY				APPLICATION				REFRIGERANT			
50Hz				LBP				R-134a			

	Cooling Type	Condensing Temperature	Cooling Capacity / Evaporating Temperature °C												Drawings		MODEL
			Subcooled Conditions W														
			-30	-25	Rated Point -23.3°C						-20	-15	-10	-5	External View	Wiring Diagram	
					Cooling		W. Input	Current	EER								
W	kcal/h	W/W			kcal/hW												
		°C													ref.	ref.	
	S	54.4 45	47 54	67 73	74	64	62	0.40	1.19	1.02	91 97	121 128	156 165	196 207	DWG01	SM00	EMT22HLP
	S	54.4 45	74 79	98 105	108	93	85	0.60	1.27	1.09	130 138	169 179	215 227	269 284	DWG01	SM00	EMT36HLP
	S	54.4 45	91 98	121 129	133	114	102	0.70	1.31	1.13	159 169	206 218	262 277	326 345	DWG01	SM00	EMT43HLP
	S	54.4 45	103 111	137 145	151	130	114	0.80	1.32	1.14	180 189	232 243	293 307	362 381	DWG01	SM00	EMT49HLP
	S	54.4 45	120 134	159 176	175	151	151	1.00	1.16	1.00	209 230	272 296	346 373	431 462	DWG01	SM00	EMT60HLP
	S	54.4 45	103 117	143 156	159	137	112	0.40	1.42	1.22	193 207	253 268	323 340	403 423	DWG02	SM00	NBT1114Z
	S	54.4 45	127 142	174 189	193	166	127	0.50	1.51	1.30	233 249	303 321	384 405	477 501	DWG02	SM00	NBT1116Z
	S	54.4 45	150 165	204 220	225	194	151	0.60	1.49	1.28	271 289	352 371	446 468	554 579	DWG02	SM00	NBT1118Z
	S	54.4 45		220 238	248	213	195	1.41	1.27	1.09	296 315	388 408	495 518	618 642	DWG03	SM03	NEK1121Z
	F	54.4 45		226 242	250	215	204	1.40	1.22	1.05	301 319	391 411	496 519	618 640	DWG03	SM05	NE2121Z
	F	54.4 45		229 245	252	217	198	1.40	1.27	1.09	303 322	393 412	497 518	618 640	DWG03	SM05	NE2121Z
	F	54.4 45		293 313	322	277	245	2.47	1.32	1.14	385 408	495 520	623 650	772 800	DWG03	SM03	NE1130Z
	F	54.4 45		283 299	314	270	260	2.10	1.21	1.04	375 388	482 495	604 620	742 763	DWG03	SM05	NE2130Z
	F	54.4 45		293 313	322	277	245	1.50	1.32	1.14	385 408	495 520	623 650	772 800	DWG03	SM03	NE1130Z
	F	54.4 45		313 332	344	296	260	2.10	1.32	1.14	409 430	525 547	660 684	817 843	DWG03	SM05	NE2130Z
	OC	54.4 45		313 333	344	296	256	1.85	1.34	1.16	412 432	531 553	671 696	830 860	DWG05	SM03	NEK3130Z
	F	54.4 45		324 345	356	306	291	2.30	1.22	1.05	438 453	556 585	706 741	880 921	DWG03	SM05	NE2134Z
	F	54.4 45		394 420	436	375	340	2.35	1.28	1.10	520 552	670 710	848 896	1015 1110	DWG03	SM05	NEK2140Z
	F	54.4 45		394 426	437	376	348	2.36	1.26	1.08	526 565	683 728	864 916	1070 1132	DWG03	SM03	NEK1140Z

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		
	cm <sup>3</sup>	in <sup>3</sup>						Charge		Type	kg	lb	mm	A	
						A		cm <sup>3</sup>	oz <sup>3</sup>						
EMT2117GK	4.50	0.27	912BA	220-240V 50Hz 1~	CSIR	7.7	C/V	180	6.2	POE 22	7.8	17.2	166.0	6.5	
EMT2121GK	5.20	0.32	912CA	220-240V 50Hz 1~	CSIR	8.5	C/V	180	6.2	POE 22	7.8	17.2	166.0	6.5	
EMT2125GK	5.96	0.36	912DA	220-240V 50Hz 1~	CSIR	9.8	C/V	180	6.2	POE 22	7.8	17.2	166.0	6.5	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
NEK2168GK	14.30	0.87	959HA	220-240V 50Hz 1~	CSIR	24.0	C/V	350	12.0	POE 22	11.6	25.5	206.0	8.1	
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	
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	
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	
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	
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	
NT2178GK	17.40	1.06	922EC	220V 50Hz 1~	CSIR	25.0	C/V	450	15.7	POE 22	17.2	37.9	220.0	8.7	
NT2178GK	17.40	1.06	922EC	220V 50Hz 1~	CSR	25.0	C/V	450	15.7	POE 22	17.2	37.9	220.0	8.7	
NT2180GK	20.40	1.24	922HC	220V 50Hz 1~	CSR	26.5	C/V	450	15.7	POE 22	17.2	37.9	220.0	8.7	
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	
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	
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	
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	
NT2192GK	22.40	1.37	923EA	220-240V 50Hz 1~	CSIR	35.0	C/V	450	15.7	POE 22	17.8	40.0	234.0	9.2	
NT2192GK	22.40	1.37	923EA	220-240V 50Hz 1~	CSR	35.0	C/V	450	15.7	POE 22	17.8	40.0	234.0	9.2	
NT2212GK	27.80	1.70	925DA	220-240V 50Hz 1~	CSR	33.0	C/V	650	22.7	POE 22	18.3	40.0	250.0	9.8	
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	
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	

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

	Cooling Type	Condensing Temperature	Cooling Capacity / Evaporating Temperature °C													Drawings		MODEL
			Subcooled Conditions W													External View	Wiring Diagram	
							Rated Point -23.3°C											
							Cooling		W. Input	Current				EER				
		°C	-40	-35	-30	-25	W	kcal/h			W	A	W/W	kcal/hW	-20	-15	-10	ref.
	S	54.4 45	106	146	172 192	226 245	246	211	181	1.15	1.35	1.16	288 309	360 385	445 475	DWG01	SM05	EMT2117GK
	F	54.4 45	138	184	225 236	285 298	300	258	214	1.33	1.39	1.20	356 372	442 462	542 565	DWG01	SM05	EMT2121GK
	F	54.4 45	162	214	256 276	327 350	350	302	251	1.57	1.39	1.20	410 435	507 536	620 653	DWG01	SM05	EMT2125GK
	S	54.4 45	109	142	163 184	214 236	235	202	182	1.25	1.29	1.11	278 297	352 367	438 449	DWG02	SM05	NEK2117GK
	S	54.4 45	126	170	198 222	246 285	265	228	223	1.43	1.19	1.02	312 345	392 422	480 496	DWG03	SM03	NEK1121GK
	S	54.4 45	133	170	199 220	259 283	283	243	219	1.37	1.29	1.11	334 356	422 442	523 538	DWG03	SM05	NEK2121GK
	S	54.4 45	128	186	225 248	282 308	310	267	254	1.83	1.22	1.05	345 370	405 435	470 500	DWG03	SM03	NEK1125GK
	F	54.4 45	156	202	243 262	314 334	341	293	279	2.04	1.22	1.05	398 420	494 520	603 633	DWG03	SM05	NEK2125GK
	F	54.4 45	171	229	279 303	374 401	398	343	303	2.18	1.31	1.13	469 499	588 622	722 760	DWG03	SM05	NEK2130GK
	F	54.4 45	192	256	315 340	415 445	450	388	356	2.32	1.26	1.09	532 568	668 710	822 872	DWG03	SM03	NEK1134GK
	F	54.4 45	203	269	327 353	442 463	464	399	358	2.35	1.30	1.11	544 579	679 720	833 879	DWG03	SM05	NEK2134GK
	F	54.4 45	270	355	430 465	550 600	595	512	484	3.15	1.23	1.06	680 756	820 940	970 1148	DWG03	SM03	NEK1150GK
	F	54.4 45	286	366	445 473	570 628	616	530	497	3.10	1.24	1.07	716 763	888 947	1086 1156	DWG03	SM05	NEK2150GK
	F	54.4 45	302	402	484 528	632 682	688	592	610	4.05	1.13	0.97	807 862	1007 1070	1234 1307	DWG03	SM05	NEK2168GK
	F	54.4 45	302	406	500 538	650 695	707	608	520	2.58	1.36	1.17	828 880	1030 1095	1258 1336	DWG03	SM06	NEK2168GK
	F	54.4 45	250	355	435 488	585 648	642	552	502	3.50	1.28	1.10	762 835	968 1050	1202 1292	DWG16	SM19	NT2168GK
	F	54.4 45	250	355	435 488	585 648	642	552	462	2.38	1.39	1.20	762 835	968 1050	1202 1292	DWG16	SM23	NT2168GK
	F	54.4 45	320	464	560 625	734 814	800	688	696	4.30	1.15	0.99	934 1032	1160 1280	1370 1492	DWG16	SM19	NT2178GK
	F	54.4 45	320	464	560 625	734 814	800	688	588	3.03	1.36	1.17	934 1032	1160 1280	1370 1492	DWG16	SM23	NT2178GK
	F	54.4 45	-	-	-	-	805	692	665	4.48	1.21	1.04	-	-	-	DWG16	SM19	NT2178GK
	F	54.4 45	-	-	-	-	837	720	615	3.41	1.36	1.17	-	-	-	DWG16	SM23	NT2178GK
	F	54.4 45	395	550	668 744	895 976	980	844	732	3.73	1.34	1.15	1158 1248	1454 1560	1785 1912	DWG16	SM23	NT2180GK
	F	54.4 45	292	432	530 600	718 792	788	678	600	3.82	1.30	1.12	935 1010	1182 1258	1456 1530	DWG16	SM19	NT2178GK
	F	54.4 45	300	442	544 610	735 808	806	694	564	2.56	1.43	1.23	956 1032	1206 1285	1486 1565	DWG16	SM23	NT2178GK
	F	54.4 45	380	530	648 715	856 936	934	804	749	4.66	1.25	1.07	1100 1194	1380 1485	1690 1814	DWG16	SM19	NT2180GK
	F	54.4 45	380	530	648 715	856 936	934	804	704	3.29	1.33	1.14	1100 1194	1380 1485	1690 1814	DWG16	SM23	NT2180GK
	F	54.4 45	436	594	730 796	965 1040	1054	906	814	4.92	1.29	1.11	1238 1328	1552 1662	1906 2038	DWG16	SM19	NT2192GK
	F	54.4 45	442	606	754 814	998 1064	1088	936	744	3.46	1.46	1.26	1280 1358	1598 1698	1956 2080	DWG16	SM23	NT2192GK
	F	54.4 45	588	788	970 1042	1270 1352	1373	1180	999	5.04	1.37	1.18	1624 1718	2030 2138	2490 2618	DWG17	SM21	NT2212GK
	F	54.4 45	491	753	945 1085	1333 1486	1477	1270	1097	5.30	1.35	1.16	1775 1957	2273 2496	2825 3106	DWG14	SM16	NJ2212GK
	F	54.4 45	491	753	945 1085	1333 1486	1477	1270	1139	2.00	1.30	1.12	1775 1957	2273 2496	2825 3106	DWG14	SM18	NJ2212GS

REFRIGERANT	APPLICATION	FREQUENCY
R-290	LBP	50Hz

MODEL	Displacement		B.O.M.	Voltage / Frequency	Motor Type	LRA	Exp. Device	Lubricant			Weight		Max. Height	
	cm <sup>3</sup>	in <sup>3</sup>						Charge	Type		kg	lb	mm	in
EMT2117U	3.97	0.24	872CA	220-240V 50Hz 1~	CSIR	7.7	C/V	180	6.2	POE 22	7.8	17.2	166.0	6.5
EMT2121U	5.57	0.34	872DA	220-240V 50Hz 1~	CSIR	7.7	C/V	180	6.2	POE 22	7.8	17.2	166.0	6.5
EMT1121U	5.57	0.34	872AA	220-240V 50Hz 1~	RSCR	7.7	C	180	6.2	POE 22	7.8	17.2	166.0	6.5
EMT2125U	5.96	0.36	872EA	220-240V 50Hz 1~	CSIR	9.8	C/V	180	6.2	POE 22	7.8	17.2	166.0	6.5
EMT1125U	5.96	0.36	872BA	220-240V 50Hz 1~	RSCR	9.8	C	180	6.2	POE 22	7.8	17.2	166.0	6.5
NEK2117U	4.52	0.28	861AA	220-240V 50Hz 1~	CSIR	9.6	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK2121U	6.20	0.38	861BA	220-240V 50Hz 1~	CSIR	12.4	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK1121U	6.20	0.38	862BA	220-240V 50Hz 1~	RSIR	15.5	C	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK2125U	7.28	0.44	862DA	220-240V 50Hz 1~	CSIR	12.4	C/V	350	12.0	POE 22	10.4	22.9	200.0	7.4
NEK2125U	7.28	0.44	861CA	220-240V 50Hz 1~	CSIR	12.4	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK2134U	10.00	0.61	862AA	220-240V 50Hz 1~	CSIR	13.1	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9
NEK2150U	13.54	0.81	863AA	220-240V 50Hz 1~	CSIR	19.5	C/V	350	12.0	POE 22	11.6	25.5	206.0	8.1
NEK1150U	13.54	0.81	863BA	220-240V 50Hz 1~	RSIR	24.3	C	350	12.0	POE 22	11.6	25.5	206.0	8.1
NT2160U	17.40	1.06	842AA	220-240V 50Hz 1~	CSIR	21.0	C/V	450	15.7	POE 22	18.0	39.6	220.0	8.7
NT2160U	17.40	1.06	842AA	220-240V 50Hz 1~	CSR	21.0	C/V	450	15.7	POE 22	18.0	39.6	220.0	8.7
NT2170U	20.40	1.24	842BA	220-240V 50Hz 1~	CSIR	25.0	C/V	450	15.7	POE 22	18.0	39.6	220.0	8.7
NT2170U	20.40	1.24	842BA	220-240V 50Hz 1~	CSR	25.0	C/V	450	15.7	POE 22	18.0	39.6	220.0	8.7
NT2180U	22.40	1.37	843AA	220-240V 50Hz 1~	CSIR	35.0	C/V	450	15.7	POE 22	18.2	40.0	234.0	9.3
NT2180U	22.40	1.37	843AA	220-240V 50Hz 1~	CSR	35.0	C/V	450	15.7	POE 22	18.2	40.0	234.0	9.3

REFRIGERANT	APPLICATION	FREQUENCY
R-600a	LBP	50Hz

MODEL	Displacement		B.O.M.	Voltage / Frequency	Motor Type	LRA	Exp. Device	Lubricant			Weight		Max. Height	
	cm <sup>3</sup>	in <sup>3</sup>						Charge	Type		kg	lb	mm	in
NBM1114Y	10.00	0.61	817BA	220-240V 50Hz 1~	RSIR-RSCR	6.3	C	350	12.0	MO 15	10.1	22.3	187.0	7.4
NBM1116Y	12.30	0.75	818AA	220-240V 50Hz 1~	RSIR-RSCR	7.1	C	350	12.0	MO 15	10.7	23.6	200.0	7.9
NBM1118Y	14.30	0.87	818BA	220-240V 50Hz 1~	RSIR-RSCR	8.1	C	350	12.0	MO 15	10.7	23.6	200.0	7.9



FREQUENCY				APPLICATION				REFRIGERANT			
50Hz				LBP				R-290			

	Cooling Type	Condensing Temperature	Cooling Capacity / Evaporating Temperature °C													Drawings		MODEL
			Subcooled Conditions W													External View	Wiring Diagram	
							Rated Point -23.3°C											
		Cooling					W. Input	Current	EER									
		°C	-40	-35	-30	-25			W	kcal/h	W	A	W/W	kcal/hW	-20	-15	-10	ref.
	S	54.4 45	80	108	132 142	170 182	184	158	130	0.96	1.37	1.18	216 230	270 288	331 348	DWG01	SM05	EMT2117U
	S	54.4 45	122	162	192 208	245 265	265	228	182	1.15	1.46	1.25	310 332	384 406	467 492	DWG01	SM05	EMT2121U
	S	54.4 45	122	162	194 209	250 266	270	231	174	0.87	1.55	1.33	315 332	388 406	470 490	DWG01	SM00	EMT1121U
	F	54.4 45	137	180	216 233	278 295	301	259	204	1.42	1.47	1.27	348 368	430 450	520 542	DWG01	SM05	EMT2125U
	S	54.4 45	140	182	218 235	278 297	301	259	197	1.09	1.53	1.31	350 368	430 450	522 542	DWG01	SM00	EMT1125U
	S	54.4 45	84	111	133 145	177 192	188	162	158	1.24	1.19	1.03	220 237	274 294	336 359	DWG02	SM05	NEK2117U
	F	54.4 45	106	141	168 187	225 246	247	212	207	1.63	1.20	1.02	293 317	373 400	465 495	DWG03	SM05	NEK2121U
	S	54.4 45	133	167	202 213	257 271	276	237	209	1.54	1.32	1.13	322 340	399 421	486 514	DWG03	SM03	NEK1121U
	S	54.4 45	160	195	215 252	280 325	300	258	232	1.75	1.30	1.12	358 412	445 515	545 630	DWG03	SM05	NEK2125U
	F	54.4 45	170	202	230 250	292 314	316	272	242	1.71	1.31	1.13	370 394	462 491	571 603	DWG03	SM05	NEK2125U
	F	54.4 45	230	281	331 351	414 440	449	386	330	2.04	1.36	1.17	521 551	645 683	793 828	DWG03	SM05	NEK2134U
	F	54.4 45	264	333	417 441	536 576	581	500	444	2.98	1.31	1.13	678 723	843 898	1031 1094	DWG03	SM05	NEK2150U
	F	54.4 45	277	362	437 467	557 593	601	517	460	3.19	1.30	1.12	697 740	859 908	1042 1097	DWG03	SM03	NEK1150U
	F	54.4 45	298	404	488 538	642 698	703	604	518	3.35	1.36	1.17	820 886	1024 1102	1247 1346	DWG16	SM19	NT2160U
	F	54.4 45	-	-	- -	- -	703	604	487	2.50	1.44	1.24	- -	- -	- -	DWG16	SM23	NT2160U
	F	54.4 45	372	492	582 644	754 826	816	702	625	3.98	1.30	1.12	955 1040	1185 1284	1444 1560	DWG16	SM19	NT2170U
	F	54.4 45	-	-	- -	- -	816	702	580	2.90	1.41	1.21	- -	- -	- -	DWG16	SM23	NT2170U
	F	54.4 45	424	560	665 728	860 932	932	800	697	4.60	1.34	1.15	1084 1170	1336 1440	1618 1746	DWG16	SM19	NT2180U
	F	54.4 45	-	-	- -	- -	932	800	619	3.18	1.49	1.28	- -	- -	- -	DWG16	SM23	NT2180U

FREQUENCY				APPLICATION				REFRIGERANT			
50Hz				LBP				R-600a			

	Cooling Type	Condensing Temperature	Cooling Capacity / Evaporating Temperature °C												Drawings		MODEL
			Subcooled Conditions W														
			-30	-25	Rated Point -23.3°C						-20	-15	-10	-5	External View	Wiring Diagram	
					Cooling		W. Input	Current	EER								
W	kcal/h	W			A	W/W			kcal/hW								
		°C															
	S	54.4 45	114	139 151	153	132	118	0.80	1.30	1.12	184 196	236 249	295 311	362 381	DWG02	SM00	NBM1114Y
	S	54.4 45	149	176 188	191	164	143	1.00	1.34	1.15	225 240	285 305	357 383	440 474	DWG02	SM00	NBM1116Y
	S	54.4 45	172	203 217	221	190	162	1.10	1.37	1.18	260 277	330 351	412 439	507 541	DWG02	SM00	NBM1118Y

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

MODEL	Displacement		B.O.M.	Voltage / Frequency	Motor Type	LRA	Exp. Device	Lubricant			Weight		Max. Height	
	cm³	in³						Charge	Type		kg	lb	mm	in
EMT6144GK	3.97	0.25	912EA	220-240V 50Hz 1~	CSIR	7.7	C/V	180	6.2	POE 22	7.8	17.2	166.0	6.5
EMT6152GK	4.50	0.28	912FA	220-240V 50Hz 1~	CSIR	8.5	C/V	180	6.2	POE 22	7.8	17.2	166.0	6.5
EMT6165GK	5.20	0.32	912GA	220-240V 50Hz 1~	CSIR	10.4	C/V	180	6.2	POE 22	7.8	17.2	166.0	6.5
NEK6144GK	4.52	0.28	957GA	220-240V 50Hz 1~	CSIR	9.6	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK6165GK	6.20	0.38	957IA	220-240V 50Hz 1~	CSIR	12.4	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK6181GK	7.28	0.44	957MA	220-240V 50Hz 1~	CSIR	12.0	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK6210GK	8.78	0.54	958CA	220-240V 50Hz 1~	CSIR	10.1	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9
NEK6213GK	12.12	0.74	959BA	220-240V 50Hz 1~	CSIR	19.3	C/V	350	12.0	POE 22	11.6	25.5	206.0	8.1
NEK6217GK	14.30	0.87	959GA	220-240V 50Hz 1~	CSR	21.5	C/V	350	12.0	POE 22	11.6	25.5	206.0	8.1
NT6217GK	12.60	0.77	922AN	200-240V 50Hz / 230V 60Hz 1~	CSIR	25.0	C/V	450	15.7	POE 22	16.9	37.2	220.0	8.7
NT6217GK	12.60	0.77	922AN	200-240V 50Hz / 230V 60Hz 1~	CSR	25.0	C/V	450	15.7	POE 22	16.9	37.2	220.0	8.7
NT6220GK	14.50	0.88	922BN	200-240V 50Hz / 230V 60Hz 1~	CSIR	29.5	C/V	450	15.7	POE 22	17.2	37.8	220.0	8.7
NT6220GK	14.50	0.88	922BN	200-240V 50Hz / 230V 60Hz 1~	CSR	29.5	C/V	450	15.7	POE 22	17.2	37.8	220.0	8.7
NT6222GK	17.40	1.06	922CN	200-240V 50Hz / 230V 60Hz 1~	CSIR	37.0	C/V	450	15.7	POE 22	17.2	37.8	220.0	8.7
NT6222GK	17.40	1.06	922CN	200-240V 50Hz / 230V 60Hz 1~	CSR	37.0	C/V	450	15.7	POE 22	17.2	37.8	220.0	8.7
NT6217GK	12.60	0.77	922AA	220-240V 50Hz 1~	CSIR	22.0	C/V	450	15.7	POE 22	16.7	36.8	220.0	8.7
NT6217GK	12.60	0.77	922AA	220-240V 50Hz 1~	CSR	22.0	C/V	450	15.7	POE 22	16.7	36.8	220.0	8.7
NT6222GK	17.40	1.06	922CA	220-240V 50Hz 1~	CSIR	30.0	C/V	450	15.7	POE 22	17.2	37.8	220.0	8.7
NT6222GK	17.40	1.06	922CA	220-240V 50Hz 1~	CSR	30.0	C/V	450	15.7	POE 22	17.2	37.8	220.0	8.7
NT6226GK	22.40	1.37	923BA	220-240V 50Hz 1~	CSIR	38.0	C/V	450	15.7	POE 22	18.1	39.8	234.0	9.3
NT6226GK	22.40	1.37	923BA	220-240V 50Hz 1~	CSR	38.0	C/V	450	15.7	POE 22	18.1	39.8	234.0	9.3
NJ9232GK	26.20	1.60	943NA	220-240V 50Hz 1~	CSR	43.0	C/V	750	26.0	POE 22	22.1	48.7	277.0	10.9
NJ9226GK	21.70	1.32	944LV	230V 50Hz 1~	CSR	27.5	C/V	750	26.0	POE 22	20.8	45.9	265.0	10.4
NJ9238GK	32.70	2.00	943RV	230V 50Hz 1~	CSR	43.0	C/V	750	26.0	POE 22	22.1	48.7	277.0	10.9
NJ9226GS	21.70	1.32	948LM	380-420V 50Hz / 440-480V 60Hz 3~	3PHASE	10.0	C/V	750	26.0	POE 22	19.7	43.4	265.0	10.4
NJ9232GS	26.20	1.60	947NM	380-420V 50Hz / 440-480V 60Hz 3~	3PHASE	13.0	C/V	750	26.0	POE 22	22.1	48.7	277.0	10.9
NJ9238GS	32.70	2.00	947RM	380-420V 50Hz / 440-480V 60Hz 3~	3PHASE	22.0	C/V	750	26.0	POE 22	21.7	47.8	277.0	10.9

REFRIGERANT	APPLICATION	FREQUENCY
R-744	M/HBP	50Hz

MODEL	Displacement		B.O.M.	Voltage / Frequency	Motor Type	LRA	Exp. Device	Lubricant			Weight		Max. Height	
	cm³	in³						Charge	Type		kg	lb	mm	in
EK6160CD	1.00	0.06	516400004	100V 50-60Hz	CSCR	29.0	C/V	150	5.07	POE 68	13.88	30.6	192.0	7.56
EK6175CD	1.30	0.08	516400011	100V 50-60Hz	CSCR	35.5	C/V	150	5.07	POE 68	13.88	30.6	192.0	7.56
EK6210CD	1.75	0.11	516400003	220-240V 50Hz	CSCR	13.4	C/V	150	5.07	POE 68	13.88	30.6	192.0	7.56
EK6214CD	2.45	0.15	516400009	220-240V 50Hz	CSCR	18.0	C/V	150	5.07	POE 68	13.88	30.6	192.0	7.56

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

	Cooling Type	Condensing Temperature	Cooling Capacity / Evaporating Temperature °C													Drawings		MODEL
			Subcooled Conditions W													External View	Wiring Diagram	
			-20	-15	-10	-5	0	5	Rated Point +7.2°C						10			
									Cooling		W. Input	Current	EER					
									W	kcal/h			W/W	kcal/hW				
	F	54.4 45	277	246	360 426	438 518	530 624	630 742	680	584	284	1.56	2.39	2.05	746 874	DWG01	SM05	EMT6144GK
	F	54.4 45	-	-	-	-	-	-	737	634	327	1.38	2.26	1.94	-	DWG01	SM05	EMT6152GK
	F	54.4 45	-	-	-	-	-	-	881	758	389	2.50	2.27	1.95	-	DWG01	SM05	EMT6165GK
	F	54.4 45	321	371	350 445	451 539	549 653	660 787	714	614	313	1.77	2.28	1.96	786 941	DWG03	SM05	NEK6144GK
	F	54.4 45	436	512	520 610	626 734	751 883	895 1056	965	830	471	2.54	2.04	1.76	1059 1253	DWG03	SM05	NEK6165GK
	F	54.4 45	454	553	565 677	689 826	836 1000	1006 1198	1089	936	515	2.99	2.11	1.82	1200 1422	DWG03	SM05	NEK6181GK
	F	54.4 45	566	674	669 815	821 988	999 1195	1205 1435	1303	1121	628	3.49	2.07	1.79	1436 1707	DWG03	SM05	NEK6210GK
	F	54.4 45	695	884	919 1093	1120 1333	1350 1600	1610 1894	1736	1493	982	5.52	1.77	1.52	1901 2215	DWG03	SM05	NEK6213GK
	F	54.4 45	882	1075	1120 1310	1360 1590	1630 1908	1932 2270	2074	1784	1010	4.86	2.05	1.77	2263 2674	DWG03	SM06	NEK6217GK
	F	54.4 45	700	874	890 1095	1108 1364	1358 1678	1640 2040	1820	1565	813	4.90	2.24	1.92	1955 2445	DWG16	SM19	NT6217GK
	F	54.4 45	700	874	890 1095	1108 1364	1358 1678	1640 2040	1820	1565	718	3.61	2.53	2.18	1955 2445	DWG16	SM23	NT6217GK
	F	54.4 45	794	1006	1050 1265	1305 1570	1606 1922	1952 2320	2122	1824	960	5.80	2.21	1.90	2342 2764	DWG16	SM19	NT6220GK
	F	54.4 45	856	1074	1126 1342	1395 1650	1700 2004	2044 2408	2206	1898	930	4.06	2.37	2.04	2424 2855	DWG16	SM23	NT6220GK
	F	54.4 45	955	1225	1270 1520	1580 1880	1920 2290	2298 2770	2500	2150	1200	7.10	2.08	1.79	2708 3300	DWG16	SM19	NT6222GK
	F	54.4 45	965	1235	1280 1530	1590 1890	1930 2295	2308 2775	2500	2150	1105	5.80	2.26	1.94	2728 3305	DWG16	SM23	NT6222GK
	F	54.4 45	692	862	860 1078	1072 1342	1326 1654	1626 2012	1780	1530	830	4.75	2.14	1.84	1970 2420	DWG16	SM19	NT6217GK
	F	54.4 45	712	888	915 1114	1140 1384	1404 1704	1708 2070	1848	1590	736	3.60	2.50	2.16	2050 2482	DWG16	SM23	NT6217GK
	F	54.4 45	960	1218	1248 1512	1538 1868	1890 2290	2286 2772	2482	2135	1228	6.00	2.02	1.74	2725 3315	DWG16	SM19	NT6222GK
	F	54.4 45	980	1240	1280 1548	1584 1910	1926 2310	2310 2774	2482	2135	1115	5.50	2.22	1.92	2725 3286	DWG16	SM23	NT6222GK
	F	54.4 45	1298	1625	1704 2010	2084 2462	2528 2986	3038 3590	3220	2770	1540	8.47	2.10	1.80	3620 4275	DWG17	SM22	NT6226GK
	F	54.4 45	1314	1650	1744 2058	2144 2532	2598 3068	3095 3658	3356	2886	1376	6.60	2.44	2.10	3656 4298	DWG17	SM21	NT6226GK
	F	54.4 45	1421	1841	1940 2354	2456 2959	3045 3656	3706 4444	4021	3458	1576	7.20	2.55	2.19	4441 5325	DWG14	SM17	NJ9232GK
	F	54.4 45	1165	1508	1584 1922	1998 2409	2470 2968	2998 3598	3249	2794	1325	5.80	2.45	2.11	3584 4300	DWG14	SM17	NJ9226GK
	F	54.4 45	1845	2374	2415 2990	3014 3693	3697 4481	4463 5356	4827	4151	2109	9.60	2.29	1.97	5313 6317	DWG14	SM17	NJ9238GK
	F	54.4 45	1165	1508	1584 1922	1998 2409	2470 2968	2998 3598	3249	2794	1300	2.40	2.50	2.15	3584 4300	DWG14	SM18	NJ9226GS
	F	54.4 45	1421	1841	1940 2354	2456 2959	3045 3656	3706 4444	4021	3458	1615	2.90	2.49	2.14	4441 5325	DWG14	SM18	NJ9232GS
	F	54.4 45	1845	2374	2415 2990	3014 3693	3697 4481	4463 5356	4827	4151	1900	4.00	2.54	2.18	5313 6317	DWG14	SM18	NJ9238GS

FREQUENCY		APPLICATION		REFRIGERANT	
50Hz		M/HBP		R-744	

	Cooling Type	Discharge Pressure	Cooling Capacity / Evaporating Temperature °C													Drawings		MODEL	
			Subcooled Conditions W																
										Rated Point +7.2°C							External View		Wiring Diagram
										Cooling		W. Input	Current	EER					
										W	kcal/h			W/W	kcal/hW				
		bar	-20	-15	-10	-5	0	5	W	kcal/h	W	A	W/W	kcal/hW	10	ref.	ref.		
	F	85	262	317	379	449	527	615	662	569	248	3.46	2.67	2.30	713	DWG18	SM25	EK6160CD	
	F	85	371	442	523	615	719	837	898	772	346	5.30	2.60	2.24	968	DWG18	SM25	EK6175CD	
	F	85	535	630	739	864	1007	1169	1211	1041	420	1.92	2.88	2.48	1351	DWG18	SM25	EK6210CD	
	F	85	688	831	991	1170	1365	1578	1653	1422	655	3.14	2.53	2.17	1807	DWG18	SM24	EK6214CD	

REFRIGERANT	APPLICATION	FREQUENCY
R-290	M/HBP	50Hz

MODEL	Displacement		B.O.M.	Voltage / Frequency	Motor Type	LRA	Exp. Device	Lubricant			Weight		Max. Height		
	cm <sup>3</sup>	in <sup>3</sup>						Charge		Type	kg	lb	mm	in	
EMT6144U	4.50	0.28	872HA	220-240V 50Hz 1~	CSIR	7.7	C/V	180	6.2	POE 22	7.8	17.2	166.0	6.5	
EMT6152U	5.20	0.32	872FA	220-240V 50Hz 1~	CSIR	8.5	C/V	180	6.2	POE 22	7.8	17.2	166.0	6.5	
EMT6165U	5.96	0.36	872GA	220-240V 50Hz 1~	CSIR	10.4	C/V	180	6.2	POE 22	7.8	17.2	166.0	6.5	
NEK6152U	5.45	0.33	861DA	220-240V 50Hz 1~	CSIR	9.6	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4	
NEK6165U	6.20	0.38	861EA	220-240V 50Hz 1~	CSIR	12.0	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4	
NEK6181U	7.28	0.44	861FA	220-240V 50Hz 1~	CSIR	12.0	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4	
NEK6210U	8.78	0.54	862CA	220-240V 50Hz 1~	CSIR	16.1	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9	
NEK6213U	12.12	0.74	863CA	220-240V 50Hz 1~	CSIR	19.3	C/V	350	12.0	POE 22	11.6	25.5	206.0	8.1	
NT6217U	14.50	0.88	842FA	220-240V 50Hz 1~	CSIR	25.0	C/V	450	15.7	POE 22	16.9	39.6	220.0	8.7	
NT6224U	22.40	1.37	842CA	220-240V 50Hz 1~	CSR	26.0	C/V	450	15.7	POE 22	17.2	39.6	220.0	8.7	

\*Under Development

FREQUENCY	APPLICATION	REFRIGERANT
50Hz	M/HBP	R-290

	Cooling Type	Condensing Temperature	Cooling Capacity / Evaporating Temperature °C													Drawings		MODEL
			Subcooled Conditions W													External View	Wiring Diagram	
										Rated Point +7.2°C								
		Cooling								W. Input	Current	EER						
		°C	-20	-15	-10	-5	0	5	W			kcal/h	W	A	W/W	kcal/hW		ref.
	S	54.4 45	248	308	326 375	394 452	472 544	568 650	616	530	235	1.34	2.62	2.25	680 777	DWG01	SM05	EMT6144U
	F	54.4 45	-	-	-	-	-	-	742	638	277	1.18	2.68	2.30	-	DWG01	SM05	EMT6152U
	F	54.4 45	350	432	462 522	552 625	658 745	782 888	840	722	327	2.00	2.57	2.21	932 1058	DWG01	SM05	EMT6165U
	F	54.4 45	299	361	388 439	473 534	570 644	679 771	720	620	284	1.72	2.53	2.18	799 914	DWG03	SM05	NEK6152U
	F	54.4 45	344	416	443 507	539 615	650 739	777 881	839	721	344	2.32	2.44	2.09	920 949	DWG03	SM05	NEK6165U
	F	54.4 45	386	471	500 574	611 697	737 840	885 1011	949	816	386	2.44	2.46	2.12	1040 1183	DWG03	SM05	NEK6181U
	F	54.4 45	465	574	611 700	747 850	905 1025	1083 1225	1168	1005	459	2.75	2.55	2.19	1281 1450	DWG03	SM05	NEK6210U
	F	54.4 45	654	792	847 962	1042 1178	1234 1394	1485 1675	1586	1364	692	4.24	2.29	1.97	1740 1955	DWG03	SM05	NEK6213U
	F	54.4 45	552	826	882 1040	1100 1294	1355 1586	1646 1920	1786	1536	693	4.23	2.58	2.22	1974 2292	DWG16	SM19	NT6217U
	F	54.4 45	1055	1355	1435 1704	1785 2100	2184 2542	2635 3025	2843	2445	1040	4.85	2.73	2.35	3130 3546	DWG16	SM23	NT6224U

REFRIGERANT	APPLICATION	FREQUENCY
R-134a	HBP	50Hz

MODEL	Displacement		B.O.M.	Voltage / Frequency	Motor Type	LRA	Exp. Device	Lubricant			Weight		Max. Height		
	cm <sup>3</sup>	in <sup>3</sup>						Charge		Type	kg	lb	mm	in	
EMT37HDP	3.40	0.21	194IB	200-230V 50Hz / 208-230V 60Hz 1~	RSIR	5.4	C	180	6.2	POE 22	7.7	17.0	166.0	6.5	
EMT50HDP	4.50	0.27	194NB	200-230V 50Hz / 208-230V 60Hz 1~	RSIR	9.1	C	180	6.2	POE 22	7.7	17.0	166.0	6.5	
EMT37HDP	3.40	0.21	193EA	220-240V 50Hz 1~	RSIR	4.3	C	180	6.2	POE 22	7.2	16.0	158.0	6.2	
EMT45HDR	3.97	0.24	194LA	220-240V 50Hz 1~	CSIR	5.4	C/V	180	6.2	POE 10	7.7	17.0	166.0	6.5	
EMT50HDP	4.50	0.27	194MA	220-240V 50Hz 1~	RSIR	6.4	C	180	6.2	POE 22	7.7	17.0	166.0	6.5	
EMT6144Z	5.20	0.31	194PA	220-240V 50Hz 1~	CSIR	8.5	C/V	180	6.2	POE 22	7.7	17.2	166.0	6.5	
EMT6160Z	6.76	0.41	194QA	220-240V 50Hz 1~	CSIR	9.8	C/V	180	6.2	POE 22	7.8	17.2	166.0	6.5	
EMT6170Z	7.69	0.46	194RA	220-240V 50Hz 1~	CSIR	10.4	C/V	180	6.2	POE 22	7.8	17.2	166.0	6.5	
NEK6160Z	7.28	0.44	267BB	200-230V 50Hz / 208-230V 60Hz 1~	CSIR	13.5	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4	
NEK6170Z	8.40	0.51	268DB	200-230V 50Hz / 208-230V 60Hz 1~	CSIR	16.5	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9	
NEK6187Z	10.00	0.61	269BB	200-230V 50Hz / 208-230V 60Hz 1~	CSIR	19.3	C/V	350	12.0	POE 22	11.6	25.5	206.0	8.1	
NEK6210Z	12.12	0.74	269EB	200-230V 50Hz / 208-230V 60Hz 1~	CSIR	20.0	C/V	350	12.0	POE 22	11.6	25.5	206.0	8.1	
NEK6212Z	14.30	0.87	269AB	200-230V 50Hz / 208-230V 60Hz 1~	CSR	22.5	C/V	350	12.0	POE 22	11.6	25.5	206.0	8.1	
NEK5144Z	5.46	0.33	267EA	220-240V 50Hz 1~	RSIR	10.0	C	350	12.0	POE 22	9.8	21.6	187.0	7.4	
NEK6160Z	7.28	0.44	267BA	220-240V 50Hz 1~	CSIR	11.5	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4	
NEK5170Z	8.40	0.51	267CA	220-240V 50Hz 1~	RSIR	14.0	C	350	12.0	POE 22	10.4	22.9	187.0	7.4	
NEK6170Z	8.40	0.51	267DA	220-240V 50Hz 1~	CSIR	12.4	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4	
NEK6187Z	10.00	0.61	268AA	220-240V 50Hz 1~	CSIR	16.1	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9	
NEK6210Z	12.12	0.74	268BA	220-240V 50Hz 1~	CSIR	16.1	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9	
NEK6212Z	14.30	0.87	269AA	220-240V 50Hz 1~	CSIR	19.5	C/V	350	12.0	POE 22	11.6	25.5	206.0	8.1	
NEK6214Z	16.80	1.02	269HA	220-240V 50Hz 1~	CSIR	21.2	C/V	350	12.0	POE 22	11.6	25.5	206.0	8.1	
NT6215Z	17.40	1.06	212AN	200-240V 50Hz / 230V 60Hz 1~	CSIR	21.0	C/V	450	16.0	POE 22	16.5	36.3	220.0	8.7	
NT6217Z	20.40	1.24	212BN	200-240V 50Hz / 230V 60Hz 1~	CSIR	25.0	C/V	450	16.0	POE 22	16.5	36.3	220.0	8.7	
NT6220Z	22.40	1.24	212CN	200-240V 50Hz / 230V 60Hz 1~	CSIR	28.0	C/V	450	16.0	POE 22	16.5	36.3	220.0	8.7	
NT6215Z	17.40	1.06	211AC	220V 50Hz 1~	CSIR	20.7	C/V	450	16.0	POE 22	16.0	36.3	207.0	8.1	
NT6217Z	20.40	1.24	212BA	220-240V 50Hz 1~	CSIR	25.0	C/V	450	16.0	POE 22	16.5	36.3	220.0	8.7	
NJ6220Z	26.20	1.60	144HA	220-240V 50Hz 1~	CSIR	35.0	C/V	750	26.0	POE 22	20.3	44.8	265.0	10.4	
NJ6226Z	34.37	2.10	142HA	220-240V 50Hz 1~	CSR	31.0	C/V	750	26.0	POE 22	20.1	44.3	253.0	10.0	
NJ6220ZX	26.20	1.60	148HM	380-420V 50Hz / 440-480V 60Hz 3 ~	3PHASE	10.0	C/V	750	26.0	POE 22	19.6	43.2	265.0	10.4	
NJ6226ZX	34.37	2.10	148IM	380-420V 50Hz / 440-480V 60Hz 3 ~	3PHASE	13.0	C/V	750	26.0	POE 22	20.2	44.5	265.0	10.4	

FREQUENCY										APPLICATION	REFRIGERANT
50Hz										HBP	R-134a

	Cooling Type	Condensing Temperature	Cooling Capacity / Evaporating Temperature °C												Drawings		MODEL
			Subcooled Conditions W														
			-15	-10			5	Rated Point +7.2°C						10			
		Cooling						W. Input	Current	EER							
°C	W	kcal/h	W	A	W/W	kcal/hW											
	S	54.4 45	155	196	213 246	266 305	327 374	356	306	139	0.85	2.56	2.21	396 450	DWG01	SM00	EMT37HDP
	S	54.4 45	206	260	288 330	358 410	440 502	474	408	182	1.10	2.58	2.23	532 606	DWG01	SM00	EMT50HDP
	S	54.4 45	155	196	213 246	266 305	327 374	351	302	137	0.80	2.55	2.20	396 450	DWG01	SM00	EMT37HDP
	S	54.4 45	186	238	258 294	315 360	388 440	421	362	158	0.95	2.66	2.29	470 532	DWG01	SM05	EMT45HDR
	S	54.4 45	206	260	288 330	358 410	440 502	474	408	184	1.05	2.57	2.22	532 606	DWG01	SM00	EMT50HDP
	F	54.4 45	254	322	352 400	435 494	532 602	577	496	222	1.38	2.60	2.23	645 724	DWG01	SM05	EMT6144Z
	F	54.4 45	326	412	448 512	552 630	670 762	720	620	300	1.74	2.39	2.07	800 912	DWG01	SM05	EMT6160Z
	F	54.4 45	364	458	500 568	614 698	740 844	806	694	356	2.03	2.27	1.95	878 1007	DWG01	SM05	EMT6170Z
	F	54.4 45	302	382	413 483	523 605	653 749	717	616	297	2.20	2.41	2.07	803 913	DWG03	SM05	NEK6160Z
	F	54.4 45	366	459	502 575	627 715	772 878	841	723	344	2.41	2.44	2.10	938 1064	DWG03	SM05	NEK6170Z
	F	54.4 45	408	524	592 664	730 828	887 1016	965	830	404	2.90	2.39	2.05	1068 1229	DWG03	SM05	NEK6187Z
	F	54.4 45	520	590	620 720	780 920	995 1148	1122	965	527	3.86	2.13	1.83	1260 1444	DWG03	SM05	NEK6210Z
	F	54.4 45	562	725	790 912	980 1128	1198 1368	1302	1120	613	4.05	2.12	1.83	1444 1635	DWG03	SM06	NEK6212Z
	F	54.4 45	227	291	316 367	395 456	488 557	533	459	241	1.42	2.21	1.90	594 671	DWG03	SM03	NEK5144Z
	F	54.4 45	306	388	418 491	526 612	653 753	716	615	297	1.90	2.41	2.07	799 913	DWG03	SM05	NEK6160Z
	F	54.4 45	343	451	491 573	613 712	756 866	827	711	347	2.07	2.38	2.05	922 1036	DWG03	SM03	NEK5170Z
	F	54.4 45	366	460	503 577	626 714	767 874	837	720	347	2.10	2.41	2.08	929 1056	DWG03	SM05	NEK6170Z
	F	54.4 45	414	521	576 656	715 817	884 1006	967	832	410	2.61	2.35	2.03	1077 1221	DWG03	SM05	NEK6187Z
	F	54.4 45	518	631	690 793	862 983	1051 1200	1140	980	497	2.86	2.29	1.97	1257 1448	DWG03	SM05	NEK6210Z
	F	54.4 45	558	705	767 885	960 1101	1186 1353	1292	1111	602	3.53	2.15	1.85	1437 1635	DWG03	SM05	NEK6212Z
	F	54.4 45	648	824	910 1032	1126 1275	1375 1550	1486	1278	775	4.75	1.92	1.65	1650 1860	DWG03	SM05	NEK6214Z
	F	54.4 45	664	854	938 1092	1188 1375	1472 1696	1608	1382	638	3.92	2.52	2.17	1786 2052	DWG15	SM19	NT6215Z
	F	54.4 45	857	1040	1125 1287	1385 1592	1698 1954	1863	1602	773	4.68	2.41	2.07	2060 2368	DWG15	SM19	NT6217Z
	F	54.4 45	896	1104	1212 1375	1498 1712	1844 2112	2016	1734	862	5.24	2.34	2.01	2248 2578	DWG16	SM19	NT6220Z
	F	54.4 45	677	870	948 1112	1194 1398	1484 1718	1620	1393	707	4.40	2.29	1.97	1804 2082	DWG15	SM19	NT6215Z
	F	54.4 45	826	1026	1112 1282	1386 1595	1712 1965	1863	1602	806	4.73	2.31	1.99	2086 2392	DWG15	SM19	NT6217Z
	F	54.4 45	962	1263	1471 1638	1881 2087	2330 2610	2541	2185	978	5.70	2.60	2.24	2819 3206	DWG14	SM14	NJ6220Z
	F	54.4 45	1421	1791	1764 2229	2226 2734	2732 3306	2969	2553	1232	6.00	2.41	2.07	3282 3945	DWG14	SM17	NJ6226Z
	F	54.4 45	962	1263	1471 1638	1881 2087	2330 2610	2541	2185	875	1.60	2.90	2.49	2819 3206	DWG14	SM18	NJ6220ZX
	F	54.4 45	1421	1791	1764 2229	2226 2734	2732 3306	2969	2553	1190	2.30	2.49	2.14	3282 3945	DWG14	SM18	NJ6226ZX

REFRIGERANT	APPLICATION	FREQUENCY
R-600a	HBP	50Hz

MODEL	Displacement		B.O.M.	Voltage / Frequency	Motor Type	LRA	Exp. Device	Lubricant			Weight		Max. Height	
	cm <sup>3</sup>	in <sup>3</sup>						Charge	Type		kg	lb	mm	in
EMT30CDP	4.50	0.27	895FA	220-240V 50Hz 1~	RSIR	3.7	C	180	6.2	MO 7	7.1	15.7	158	6.2
EMT45CDP	6.78	0.41	896DA	220-240V 50Hz 1~	RSIR	5.8	C	180	6.2	MO 7	7.5	16.5	166	6.5
NEK6144Y	10.00	0.61	861HA	220-240V 50Hz 1~	CSIR	12.4	C/V	350	12.0	MO 32	10.4	22.9	187	7.4
NEK6160Y	12.12	0.74	861IA	220-240V 50Hz 1~	CSIR	12.4	C/V	350	12.0	MO 32	10.4	22.9	187	7.4
NEK6170Y	14.30	0.87	861LA	220-240V 50Hz 1~	CSIR	12.4	C/V	350	12.0	MO 32	10.4	22.9	187	7.4
NEK6187Y*	16.80	1.02	U.D.*	220-240V 50Hz 1~	CSIR	16.1	C/V	350	12.0	MO 32	11.0	24.3	200	7.9

\*Under Development

REFRIGERANT	APPLICATION	FREQUENCY
R-134a	LBP	60Hz

MODEL	Displacement		B.O.M.	Voltage / Frequency	Motor Type	LRA	Exp. Device	Lubricant			Weight		Max. Height	
	cm <sup>3</sup>	in <sup>3</sup>						Charge	Type		kg	lb	mm	in
NB1116Z	8.40	0.51	294SG	115V 60Hz / 100V 50Hz 1~	RSIR RSCR	27.5	C	350	12.0	POE 22	9.8	21.6	187.0	7.4
NB2116Z	8.40	0.51	294TG	115V 60Hz / 100V 50Hz 1~	CSIR	26.5	C/V	350	12.0	POE 22	9.8	21.6	187.0	7.4
NB1118Z	8.07	0.49	294UG	115V 60Hz / 100V 50Hz 1~	RSIR RSCR	28.0	C	350	12.0	POE 22	10.4	22.9	187.0	7.4
NE2121Z	9.27	0.57	262BG	115V 60Hz / 100V 50Hz 1~	CSIR	29.0	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9
NE2130Z	12.12	0.74	262DG	115V 60Hz / 100V 50Hz 1~	CSIR	38.0	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9
NE2134Z	14.30	0.87	262JG	115V 60Hz / 100V 50Hz 1~	CSIR	33.0	C/V	350	12.0	POE 22	11.5	25.4	200.0	7.9
NE2134Z	14.30	0.87	263CD	208-230V 60Hz / 200V 50Hz 1~	CSIR	20.4	C/V	350	12.0	POE 22	11.5	25.4	206.0	8.1
NT2140Z	20.40	1.24	211CG	115V 60Hz / 100V 50Hz 1~	CSIR	37.0	C/V	450	15.7	POE 22	15.7	34.5	207.0	8.1
NT2140Z	20.40	1.24	212GD	208-230V 60Hz / 200V 50Hz 1~	CSIR	24.5	C/V	450	15.7	POE 22	16.5	36.3	220.0	8.7
NJ2152Z	27.12	1.65	144LG	115V 60Hz / 100V 50Hz 1~	CSIR	59.0	C/V	750	26.0	POE 22	20.0	44.1	265.0	10.4



FREQUENCY		APPLICATION	REFRIGERANT
50Hz		HBP	R-600a

	Cooling Type	Condensing Temperature	Cooling Capacity / Evaporating Temperature °C												Drawings		MODEL
			Subcooled Conditions W														
			-15	-10	-5	0	5	Rated Point +7.2°C						10	External View	Wiring Diagram	
								Cooling		W. Input	Current	EER					
								W	kcal/h			W/W	kcal/hW				
	S	54.4 45	112 142	162 180	200 222	242 268	256	220	101	0.66	2.52	2.18	290 320	DWG01	SM00	EMT30CDP	
	S	54.4 45	164 209	236 262	290 322	354 392	390	335	152	0.92	2.56	2.20	430 477	DWG01	SM00	EMT45CDP	
	F	54.4 45	234 298	330 373	412 460	505 563	550	473	229	1.74	2.40	2.07	609 676	DWG03	SM05	NEK6144Y	
	F	54.4 45	291 370	412 464	510 572	622 694	678	583	268	1.84	2.53	2.17	750 833	DWG03	SM05	NEK6160Y	
	F	54.4 45	354 448	496 558	612 686	744 831	808	696	327	2.06	2.47	2.13	892 994	DWG03	SM05	NEK6170Y	
	F	54.4 45	- -	- -	- -	- -	938	806	386	2.46	2.43	2.09	- -	DWG03	SM05	NEK6187Y	

FREQUENCY		APPLICATION	REFRIGERANT
60Hz		LBP	R-134a

	Cooling Type	Condensing Temperature	Cooling Capacity / Evaporating Temperature °C												Drawings		MODEL
			Subcooled Conditions W														
					Rated Point -23.3°C								External View	Wiring Diagram			
		Cooling			W. Input	Current	EER										
		°C	-30	-25	W	kcal/h	W	A	W/W	kcal/hW	-20	-15	-10	-5	ref.	ref.	
	S	54.4 45	157	183 209	203	175	194	2.90	1.05	0.90	247 274	326 352	418 444	523 548	DWG04	SM02	NB1116Z
	S	54.4 45	157	183 209	203	175	198	2.90	1.03	0.89	247 274	326 352	418 444	523 548	DWG04	SM04	NB2116Z
	S	54.4 45	171	210 230	234	201	194	1.20	1.20	1.03	284 305	372 395	472 500	586 620	DWG04	SM02	NB1118Z
	F	54.4 45	202	252 268	278	239	255	4.40	1.09	0.94	335 352	435 453	552 571	685 706	DWG04	SM04	NE2121Z
	F	54.4 45	267	332 350	367	315	309	4.90	1.18	1.01	440 455	565 580	709 727	871 895	DWG04	SM04	NE2130Z
	F	54.4 45	295	369 389	425	365	346	5.30	1.23	1.05	485 507	626 649	791 815	980 1006	DWG04	SM04	NE2134Z
	F	54.4 45	300	370 394	418	360	340	2.52	1,23	1,06	487 512	626 654	788 818	972 1006	DWG04	SM04	NE2134Z
	F	54.4 45	403	506 556	562	483	454	6.12	1.23	1.06	688 733	914 933	1185 1157	1500 1404	DWG16	SM20	NT2140Z
	F	54.4 45	403	512 583	575	495	452	3.17	1.28	1.10	711 791	947 1027	1222 1291	1534 1583	DWG16	SM20	NT2140Z
	F	54.4 45	422	610 645	704	605	512	7.00	1.37	1.18	899 910	1223 1215	1581 1562	1974 1949	DWG14	SM14	NJ2152Z

REFRIGERANT	APPLICATION	FREQUENCY
R-404A / R-507	LBP	60Hz

MODEL	Displacement		B.O.M.	Voltage / Frequency	Motor Type	LRA	Exp. Device	Lubricant			Weight		Max. Height	
	cm <sup>3</sup>	in <sup>3</sup>						Charge	Type		kg	lb	mm	A
						A		cm <sup>3</sup>	oz <sup>3</sup>				in	
NEK2117GK	4.51	0.27	957BG	115V 60Hz / 100V 50Hz 1~	CSIR	28.5	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK2121GK	5.45	0.33	957DG	115V 60Hz / 100V 50Hz 1~	CSIR	26.5	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK2125GK	6.20	0.38	957EG	115V 60Hz / 100V 50Hz 1~	CSIR	26.5	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK2134GK	8.78	0.54	958AG	115V 60Hz / 100V 50Hz 1~	CSIR	37.5	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9
NEK2150GK	12.12	0.74	959AG	115V 60Hz / 100V 50Hz 1~	CSIR	41.5	C/V	350	12.0	POE 22	11.6	25.6	206.0	8.1
NEK2150GK	12.12	0.74	959AG	115V 60Hz / 100V 50Hz 1~	CSR	41.5	C/V	350	12.0	POE 22	11.6	25.6	206.0	8.1
NEK2134GK	8.78	0.54	959DD	208-230V 60Hz / 200V 50Hz 1~	CSIR	20.0	C/V	350	12.0	POE 22	11.6	25.6	206.0	8.1
NEK2150GK	12.12	0.74	959AD	208-230V 60Hz / 200V 50Hz 1~	CSIR	20.0	C/V	350	12.0	POE 22	11.6	25.6	206.0	8.1
NT2168GK	14.50	0.88	922DG	115V 60Hz / 100V 50Hz 1~	CSIR	54.5	C/V	450	15.7	POE 22	16.7	36.8	220.0	8.7
NT2168GK	14.50	0.88	922DG	115V 60Hz / 100V 50Hz 1~	CSR	54.5	C/V	450	15.7	POE 22	16.7	36.8	220.0	8.7
NT2178GK	17.40	1.06	922EG	115V 60Hz / 100V 50Hz 1~	CSIR	66.0	C/V	450	15.7	POE 22	17.2	37.8	220.0	8.7
NT2178GK	17.40	1.06	922EG	115V 60Hz / 100V 50Hz 1~	CSR	66.0	C/V	450	15.7	POE 22	17.2	37.8	220.0	8.7
NT2180GK	20.40	1.24	922HG	115V 60Hz / 100V 50Hz 1~	CSIR	66.0	C/V	450	15.7	POE 22	18.0	39.6	220.0	8.7
NT2180GK	20.40	1.24	922HG	115V 60Hz / 100V 50Hz 1~	CSR	66.0	C/V	450	15.7	POE 22	18.0	39.6	220.0	8.7
NT2192GK	22.40	1.37	923EG	115V 60Hz / 100V 50Hz 1~	CSIR	56.0	C/V	450	15.7	POE 22	18.0	39.6	234.0	9.2
NT2192GK	22.40	1.37	923EG	115V 60Hz / 100V 50Hz 1~	CSR	56.0	C/V	450	15.7	POE 22	18.0	39.6	234.0	9.2
NT2168GK	14.50	0.88	922DD	208-230V 60Hz / 200V 50Hz 1~	CSIR	29.0	C/V	450	15.7	POE 22	16.7	36.8	220.0	8.7
NT2168GK	14.50	0.88	922DD	208-230V 60Hz / 200V 50Hz 1~	CSR	29.0	C/V	450	15.7	POE 22	16.7	36.8	220.0	8.7
NT2178GK	17.40	1.06	922ED	208-230V 60Hz / 200V 50Hz 1~	CSIR	35.5	C/V	450	15.7	POE 22	17.2	37.8	220.0	8.7
NT2180GK	20.40	1.24	923HD	208-230V 60Hz / 200V 50Hz 1~	CSR	40.0	C/V	450	15.7	POE 22	18.0	39.6	234.0	9.2
NT2192GK	22.40	1.37	923ED	208-230V 60Hz / 200V 50Hz 1~	CSR	40.0	C/V	450	15.7	POE 22	18.0	39.6	220.0	8.7
NT2212GK	27.80	1.70	925CD	208-230V 60Hz / 200V 50Hz 1~	CSR	45.0	C/V	650	22.7	POE 22	18.3	40.0	250.0	9.8
NJ2192GK	26.20	1.60	943AG	115V 60Hz / 100V 50Hz 1~	CSR	98.0	C/V	750	26.0	POE 22	21.7	47.8	277.0	10.9
NJ2212GK	34.37	2.10	943BG	115V 60Hz / 100V 50Hz 1~	CSR	86.5	C/V	750	26.0	POE 22	21.8	48.1	277.0	10.9
NJ2192GK	26.20	1.60	943AD	208-230V 60Hz / 200V 50Hz 1~	CSR	40.0	C/V	750	26.0	POE 22	21.7	47.8	277.0	10.9
NJ2212GK	34.37	2.10	943BD	208-230V 60Hz / 200V 50Hz 1~	CSR	46.0	C/V	750	26.0	POE 22	21.8	48.1	277.0	10.9
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
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

\*Under Development

FREQUENCY				APPLICATION				REFRIGERANT			
60Hz				LBP				R-404A / R-507			

	Cooling Type	Condensing Temperature	Cooling Capacity / Evaporating Temperature °C													Drawings		MODEL
			Subcooled Conditions W													External View	Wiring Diagram	
							Rated Point -23.3°C											
							Cooling		W. Input	Current				EER				
		°C	-40	-35	-30	-25	W	kcal/h			W	A	W/W	kcal/hW	-20	-15	-10	ref.
	F	54.4 45	130	165	202 215	263 281	287	247	242	3.90	1.19	1.02	337 359	423 450	520 550	DWG04	SM04	NEK2117GK
	F	54.4 45	169	213	255 272	326 349	355	305	286	4.04	1.24	1.07	414 437	515 542	629 662	DWG04	SM04	NEK2121GK
	F	54.4 45	195	248	312 316	395 403	427	367	323	4.28	1.32	1.14	494 508	608 630	737 771	DWG04	SM04	NEK2125GK
	F	54.4 45	251	326	402 423	526 540	571	491	433	5.50	1.32	1.13	667 688	828 857	1007 1048	DWG04	SM04	NEK2134GK
	F	54.4 45	326	425	508 552	660 707	717	617	588	7.35	1.22	1.05	838 891	1042 1103	1273 1344	DWG04	SM04	NEK2150GK
	F	54.4 45	328	427	515 557	671 716	730	628	546	5.57	1.34	1.15	856 904	1069 1123	1311 1371	DWG04	SM06	NEK2150GK
	F	54.4 45	230	312	380 415	500 535	544	468	420	2.80	1.29	1.11	640 678	798 840	975 1025	DWG04	SM04	NEK2134GK
	F	54.4 45	336	420	492 536	636 683	692	595	586	3.87	1.18	1.02	809 862	1009 1072	1237 1314	DWG04	SM04	NEK2150GK
	F	54.4 45	302	428	525 592	704 792	770	662	640	8.00	1.21	1.04	910 1034	1150 1315	1420 1638	DWG17	SM22	NT2168GK
	F	54.4 45	302	428	525 592	704 792	780	670	602	5.72	1.30	1.11	910 1034	1150 1315	1420 1638	DWG17	SM21	NT2168GK
	F	54.4 45	389	567	695 783	925 1035	1002	862	830	10.20	1.21	1.04	1194 1325	1496 1650	1838 2015	DWG17	SM22	NT2178GK
	F	54.4 45	389	567	695 783	925 1035	1002	862	763	7.50	1.32	1.13	1194 1325	1496 1650	1838 2015	DWG17	SM21	NT2178GK
	F	54.4 45	416	626	750 865	1020 1134	1120	963	948	11.20	1.18	1.02	1326 1432	1664 1760	2032 2118	DWG17	SM22	NT2180GK
	F	54.4 45	416	626	750 865	1020 1134	1140	980	862	8.47	1.32	1.14	1326 1432	1664 1760	2032 2118	DWG17	SM21	NT2180GK
	F	54.4 45	530	704	880 935	1136 1224	1230	1058	1034	11.80	1.19	1.02	1420 1570	1726 1970	2060 2430	DWG17	SM22	NT2192GK
	F	54.4 45	530	704	880 935	1136 1224	1230	1058	924	8.75	1.33	1.15	1420 1570	1726 1970	2060 2430	DWG17	SM21	NT2192GK
	F	54.4 45	302	442	528 612	718 812	790	679	619	4.00	1.28	1.10	940 1042	1190 1300	1474 1590	DWG16	SM20	NT2168GK
	F	54.4 45	302	442	528 612	718 812	790	679	575	2.95	1.37	1.18	940 1042	1190 1300	1474 1590	DWG16	SM23	NT2168GK
	F	54.4 45	398	572	704 784	942 1036	1020	878	798	5.25	1.28	1.10	1220 1328	1540 1658	1900 2030	DWG16	SM20	NT2178GK
	F	54.4 45	418	622	780 866	1048 1156	1160	998	880	4.50	1.31	1.13	1354 1485	1700 1870	2090 2310	DWG16	SM23	NT2180GK
	F	54.4 45	530	706	880 944	1148 1236	1262	1085	880	4.40	1.43	1.23	1471 1580	1836 1980	2242 2440	DWG16	SM23	NT2192GK
	F	54.4 45	665	942	1178 1268	1546 1648	1673	1439	1176	5.80	1.42	1.22	1967 2078	2440 2558	2966 3090	DWG17	SM21	NT2212GK
	F	54.4 45	430	685	880 989	1194 1342	1316	1132	1011	12.40	1.30	1.12	1574 1745	2019 2196	2019 2196	DWG14	SM16	NJ2192GK
	F	54.4 45	573	880	1105 1269	1559 1738	1728	1486	1154	10.80	1.50	1.29	2077 2289	2659 2921	2659 2921	DWG14	SM16	NJ2212GK
	F	54.4 45	430	685	880 989	1194 1342	1316	1132	1011	4.90	1.30	1.12	1574 1745	2019 2196	2019 2196	DWG14	SM16	NJ2192GK
	F	54.4 45	573	880	1105 1269	1559 1738	1728	1486	1154	5.40	1.50	1.29	2077 2289	2659 2921	2659 2921	DWG14	SM16	NJ2212GK
	F	54.4 45	430	685	880 989	1194 1342	1316	1132	1068	1.90	1.23	1.06	1574 1745	2019 2196	2019 2196	DWG14	SM18	NJ2192GS
	F	54.4 45	573	880	1105 1269	1559 1738	1728	1486	1332	2.00	1.30	1.12	2077 2289	2659 2921	2659 2921	DWG14	SM18	NJ2212GS

REFRIGERANT	APPLICATION	FREQUENCY
R-290	LBP	60Hz

MODEL	Displacement		B.O.M.	Voltage / Frequency	Motor Type	LRA	Exp. Device	Lubricant			Weight		Max. Height		
	cm <sup>3</sup>	in <sup>3</sup>						Charge		Type	kg	lb	mm	in	
NT2160U	17.40	1.06	842AD	208-230V 60Hz / 200V 50Hz 1~	CSIR	27.0	C/V	450	15.7	POE 22	18.0	39.6	220.0	8.7	
NT2170U	20.40	1.24	842BD	208-230V 60Hz / 200V 50Hz 1~	CSIR	27.0	C/V	450	15.7	POE 22	18.0	39.6	220.0	8.7	

REFRIGERANT	APPLICATION	FREQUENCY
R-600a	LBP	60Hz

MODEL	Displacement		B.O.M.	Voltage / Frequency	Motor Type	LRA	Exp. Device	Lubricant			Weight		Max. Height		
	cm <sup>3</sup>	in <sup>3</sup>						Charge		Type	kg	lb	mm	in	
NBM1112Y	8.40	0.51	817AD	208-230V 60Hz / 200V 50Hz 1~	RSIR-RSCR	8.4	C	350	12.0	MO 15	10.1	22.3	187.0	7.4	
NBM1116Y	12.30	0.75	818AU	220V 60Hz 1~	RSIR-RSCR	7.1	C	350	12.0	MO 15	10.7	23.6	187.0	7.9	

FREQUENCY																APPLICATION		REFRIGERANT	
60Hz																LBP		R-290	
	Cooling Type	Condensing Temperature	Cooling Capacity / Evaporating Temperature °C													Drawings		MODEL	
			Subcooled Conditions W																
			-40	-35	-30	-25	Rated Point -23.3°C						-20	-15	-10	External View	Wiring Diagram		
		Cooling					W. Input	Current	EER										
		W							kcal/h	W	A	W/W							kcal/hW
	F	54.4 45	-	-	-	-	830	714	622	3.98	1.32	1.14	-	-	-	DWG16	SM20	NT2160U	
	F	54.4 45	-	-	-	-	901	775	684	4.45	1.31	1.13	-	-	-	DWG16	SM20	NT2170U	

FREQUENCY											APPLICATION				REFRIGERANT			
60Hz											LBP				R-600a			
	Cooling Type	Condensing Temperature	Cooling Capacity / Evaporating Temperature °C												Drawings		MODEL	
			Subcooled Conditions W															
					Rated Point -23.3°C													External View
		Cooling			W. Input	Current	EER											
	W	kcal/h					W/W	kcal/hW										
		°C	-30	-25	W	kcal/h	W	A	W/W	kcal/hW	-20	-15	-10	-5	ref.	ref.		
	S	54.4 45	113	137 147	150	129	124	1.00	1.22	1.05	179 189	228 239	283 299	345 367	DWG02	SM00	NBM1112Y	
	S	54.4 45	175	206 220	224	193	168	1.00	1.34	1.15	263 281	334 357	418 448	515 555	DWG02	SM00	NBM1116Y	

REFRIGERANT	APPLICATION	FREQUENCY
R-404A / R-507	MBP	60Hz

MODEL	Displacement		B.O.M.	Voltage / Frequency	Motor Type	LRA	Exp. Device	Lubricant			Weight		Max. Height	
	cm <sup>3</sup>	in <sup>3</sup>						Charge	Type		kg	lb	mm	in
NEK6165GK	6.20	0.38	957IG	115V 60Hz / 100V 50Hz 1~	CSIR	26.5	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK6181GK	7.28	0.44	957MG	115V 60Hz / 100V 50Hz 1~	CSIR	26.5	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK6181GK	7.28	0.44	957MG	115V 60Hz / 100V 50Hz 1~	CSR	26.5	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK6210GK	8.78	0.54	958CG	115V 60Hz / 100V 50Hz 1~	CSIR	38.0	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9
NEK6210GK	8.78	0.54	958CG	115V 60Hz / 100V 50Hz 1~	CSR	38.0	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9
NEK6213GK	12.12	0.74	959BG	115V 60Hz / 100V 50Hz 1~	CSIR	51.0	C/V	350	12.0	POE 22	11.6	25.6	206.0	8.1
NEK6213GK	12.12	0.74	959BG	115V 60Hz / 100V 50Hz 1~	CSR	51.0	C/V	350	12.0	POE 22	11.6	25.6	206.0	8.1
NEK6144GK	4.52	0.28	957GD	208-230V 60Hz / 200V 50Hz 1~	CSIR	26.5	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK6181GK	7.28	0.44	957MD	208-230V 60Hz / 200V 50Hz 1~	CSIR	17.5	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK6210GK	8.78	0.54	959ID	208-230V 60Hz 1~ / 200V 50Hz 1~	CSIR	23.0	C/V	350	12.0	POE 22	11.5	25.6	206.0	8.1
NEK6213GK	12.12	0.74	959JD	208-230V 60Hz 1~ / 200V 50Hz 1~	CSIR	30.0	C/V	350	12.0	POE 22	11.6	25.6	206.0	8.1
NT6217GK	12.60	0.77	922AG	115V 60Hz / 100V 50Hz 1~	CSIR	50.0	C/V	450	15.7	POE 22	16.7	36.8	220.0	8.7
NT6217GK	12.60	0.77	922AG	115V 60Hz / 100V 50Hz 1~	CSR	50.0	C/V	450	15.7	POE 22	16.7	36.8	220.0	8.7
NT6220GK	14.50	0.89	922BG	115V 60Hz / 100V 50Hz 1~	CSIR	54.5	C/V	450	15.7	POE 22	16.7	36.8	220.0	8.7
NT6220GK	14.50	0.89	922BG	115V 60Hz / 100V 50Hz 1~	CSR	54.5	C/V	450	15.7	POE 22	16.7	36.8	220.0	8.7
NT6222GK	17.40	1.06	922CG	115V 60Hz / 100V 50Hz 1~	CSIR	70.0	C/V	450	15.7	POE 22	17.2	37.8	220.0	8.7
NT6222GK	17.40	1.06	922CG	115V 60Hz / 100V 50Hz 1~	CSR	70.0	C/V	450	15.7	POE 22	17.2	37.8	220.0	8.7
NT6226GK	22.40	1.37	923BG	115V 60Hz / 100V 50Hz 1~	CSR	77.0	C/V	450	15.7	POE 22	18.0	39.6	234.0	9.2
NT6217GK	12.60	0.77	922AD	208-230V 60Hz / 200V 50Hz 1~	CSIR	27.0	C/V	450	15.7	POE 22	16.7	36.8	220.0	8.7
NT6217GK	12.60	0.77	922AD	208-230V 60Hz / 200V 50Hz 1~	CSR	27.0	C/V	450	15.7	POE 22	16.7	36.8	220.0	8.7
NT6220GK	14.50	0.89	922BD	208-230V 60Hz / 200V 50Hz 1~	CSIR	26.5	C/V	450	15.7	POE 22	16.9	36.8	220.0	8.7
NT6220GK	14.50	0.89	922BD	208-230V 60Hz / 200V 50Hz 1~	CSR	26.5	C/V	450	15.7	POE 22	16.9	36.8	220.0	8.7
NT6222GK	17.40	1.06	922CD	208-230V 60Hz / 200V 50Hz 1~	CSIR	33.7	C/V	450	15.7	POE 22	17.2	37.8	220.0	8.7
NT6222GK	17.40	1.06	922CD	208-230V 60Hz / 200V 50Hz 1~	CSR	33.7	C/V	450	15.7	POE 22	17.2	37.8	220.0	8.7
NT6224GK	20.40	1.24	922GD	208-230V 60Hz / 200V 50Hz 1~	CSR	36.0	C/V	450	15.7	POE 22	16.9	36.8	220.0	8.7
NT6226GK	22.40	1.37	923BD	208-230V 60Hz / 200V 50Hz 1~	CSIR	43.0	C/V	450	15.7	POE 22	18.0	39.6	234.0	9.2
NT6226GK	22.40	1.37	923BD	208-230V 60Hz / 200V 50Hz 1~	CSR	43.0	C/V	450	15.7	POE 22	18.0	39.6	234.0	9.2
NJ9226GK	21.70	1.32	944LD	208-230V 60Hz / 200V 50Hz 1~	CSR	34.0	C/V	750	26.0	POE 22	22.1	48.7	265.0	10.4
NJ9232GK	26.20	1.60	943ND	208-230V 60Hz / 200V 50Hz 1~	CSR	40.0	C/V	750	26.0	POE 22	21.8	48.1	277.0	10.9
NJ9238GK	32.70	2.00	943RJ	230V 60Hz / 200V 50Hz 1~	CSR	59.0	C/V	750	26.0	POE 22	22.1	48.7	277.0	10.9
NJ9226GS	21.70	1.32	948LM	380-420V 50Hz / 440-480V 60Hz 3~	3PHASE	10.0	C/V	750	26.0	POE 22	19.7	43.4	265.0	10.4
NJ9232GS	26.20	1.60	947NM	380-420V 50Hz / 440-480V 60Hz 3~	3PHASE	13.0	C/V	750	26.0	POE 22	22.1	48.7	277.0	10.9
NJ9238GS	32.70	2.00	947RM	380-420V 50Hz / 440-480V 60Hz 3~	3PHASE	22.0	C/V	750	26.0	POE 22	21.7	47.8	277.0	10.9

FREQUENCY										APPLICATION		REFRIGERANT	
60Hz										MBP		R-404A / R-507	

	Cooling Type	Condensing Temperature	Cooling Capacity / Evaporating Temperature °C													Drawings		MODEL	
			Subcooled Conditions W													External View	Wiring Diagram		
										Rated Point +7.2°C									10
										Cooling		W. Input	Current	EER					
		°C	-20	-15	-10	-5	0	5	W	kcal/h	W			A	W/W	kcal/hW		ref.	ref.
	F	54.4 45	481	586	614 714	743 866	894 1043	1066 1245	1150	990	584	6.14	1.97	1.69	1260 1472	DWG04	SM04	NEK6165GK	
	F	54.4 45	441	588	667 762	790 956	949 1173	1147 1410	1247	1072	619	6.70	2.01	1.73	1383 1671	DWG04	SM04	NEK6181GK	
	F	54.4 45	528	658	684 814	840 998	1022 1210	1225 1448	1320	1136	568	5.28	2.32	2.00	1450 1715	DWG04	SM06	NEK6181GK	
	F	54.4 45	647	793	823 972	998 1185	1207 1431	1451 1713	1569	1349	756	8.18	2.07	1.78	1728 2023	DWG04	SM04	NEK6210GK	
	F	54.4 45	645	790	820 982	1010 1206	1234 1462	1488 1752	1612	1386	700	6.70	2.30	1.98	1772 2072	DWG04	SM06	NEK6210GK	
	F	54.4 45	816	1005	1064 1231	1289 1495	1541 1797	1870 2136	1951	1678	1151	12.82	1.69	1.46	2124 2514	DWG04	SM04	NEK6213GK	
	F	54.4 45	829	1028	1089 1268	1329 1547	1605 1866	1917 2225	2067	1777	1055	10.55	1.96	1.68	2265 2624	DWG04	SM06	NEK6213GK	
	F	54.4 45	328	408	430 505	525 620	628 754	744 905	800	688	389	2.25	2.07	1.77	872 1075	DWG04	SM04	NEK6144GK	
	F	54.4 45	516	643	674 796	812 977	985 1185	1190 1420	1290	1110	624	3.60	2.07	1.78	1430 1682	DWG04	SM04	NEK6181GK	
	F	54.4 45	626	775	804 955	984 1166	1192 1408	1432 1680	1540	1324	735	4.50	2.10	1.80	1700 1984	DWG04	SM04	NEK6210GK	
	F	54.4 45	834	1040	1095 1280	1332 1554	1598 1860	1896 2200	2035	1750	1104	6.63	1.84	1.59	2222 2572	DWG04	SM04	NEK6213GK	
	F	54.4 45	940	1105	1094 1332	1356 1620	1658 1970	2000 2380	2164	1860	984	10.46	2.20	1.89	2380 2850	DWG16	SM20	NT6217GK	
	F	54.4 45	-	-	-	-	-	-	2164	1860	871	7.98	2.48	2.14	-	DWG16	SM23	NT6217GK	
	F	54.4 45	952	1224	1270 1542	1578 1908	1920 2320	2300 2780	2480	2132	1160	12.20	2.14	1.84	2720 3288	DWG17	SM22	NT6220GK	
	F	54.4 45	-	-	-	-	-	-	2480	2132	1042	9.64	2.38	2.05	-	DWG17	SM21	NT6220GK	
	F	54.4 45	1265	1548	1585 1896	1950 2312	2360 2794	2820 3344	3040	2615	1428	15.00	2.13	1.83	3340 3960	DWG17	SM22	NT6222GK	
	F	54.4 45	-	-	-	-	-	-	3040	2615	1274	11.92	2.39	2.05	-	DWG17	SM21	NT6222GK	
	F	54.4 45	1604	1992	2076 2445	2532 2966	3043 3554	3613 4208	3884	3340	1830	17.10	2.12	1.82	4240 4930	DWG17		NT6226GK	
	F	54.4 45	880	1090	1108 1330	1362 1635	1655 1988	1988 2390	2148	1848	1007	5.80	2.13	1.83	2360 2840	DWG16	SM20	NT6217GK	
	F	54.4 45	-	-	-	-	-	-	2148	1848	891	4.29	2.41	2.07	-	DWG16	SM23	NT6217GK	
	F	54.4 45	972	1240	1266 1567	1554 1888	1882 2274	2248 2720	2424	2084	1212	6.84	2.00	1.72	2654 3208	DWG16	SM20	NT6220GK	
	F	54.4 45	-	-	-	-	-	-	2424	2084	1058	5.20	2.29	1.97	-	DWG16	SM23	NT6220GK	
	F	54.4 45	1210	1514	1570 1876	1920 2294	2312 2762	2736 3275	2928	2518	1556	8.78	1.88	1.62	3190 3830	DWG16	SM20	NT6222GK	
	F	54.4 45	-	-	-	-	-	-	2928	2518	1295	6.44	2.26	1.94	-	DWG16	SM23	NT6222GK	
	F	54.4 45	1461	1821	1865 2243	2280 2726	2747 3271	3266 3879	3553	3056	1550	7.57	2.29	1.97	3838 4548	DWG17	SM21	NT6224GK	
	F	54.4 45	1582	1928	1986 2348	2410 2840	2892 3405	3432 4044	3689	3173	2089	11.83	1.77	1.52	4028 4755	DWG17	SM22	NT6226GK	
	F	54.4 45	-	-	-	-	-	-	3689	3173	1751	8.65	2.11	1.81	-	DWG17	SM21	NT6226GK	
	F	54.4 45	1363	1764	1853 2249	2338 2819	2890 3472	3508 4210	3801	3269	1675	8.40	2.27	1.95	4194 5032	DWG14	SM17	NJ9226GK	
	F	54.4 45	1662	2154	2270 2754	2873 3462	3562 4277	4336 5200	4704	4045	1960	9.70	2.40	2.06	5196 6230	DWG14	SM17	NJ9232GK	
	F	54.4 45	2016	2640	2692 3315	3335 4045	4044 4830	4820 5668	5184	4458	2545	11.80	2.04	1.75	5660 6560	DWG14	SM17	NJ9238GK	
	F	54.4 45	1363	1764	1853 2249	2338 2819	2890 3472	3508 4210	3801	3269	1521	2.40	2.50	2.15	4194 5032	DWG14	SM18	NJ9226GS	
	F	54.4 45	1662	2154	2270 2754	2873 3462	3562 4277	4336 5200	4704	4045	1887	3.00	2.49	2.14	5196 6230	DWG14	SM18	NJ9232GS	
	F	54.4 45	2158	2778	2825 3499	3527 4320	4326 5243	5222 6267	5647	4856	2223	4.10	2.54	2.18	6216 7391	DWG14	SM18	NJ9238GS	

REFRIGERANT	APPLICATION	FREQUENCY
R-744	M/HBP	60Hz

MODEL	Displacement		B.O.M.	Voltage / Frequency	Motor Type	LRA	Exp. Device	Lubricant			Weight		Max. Height		
	cm <sup>3</sup>	in <sup>3</sup>						Charge	Type		kg	lb	mm	in	
EK6160CD	1.00	0.06	516400004	100V 50-60Hz	CSCR	32.0	C/V	150	5.07	POE 68	13.88	30.6	192.0	7.56	
EK6175CD	1.30	0.08	516400011	100V 50-60Hz	CSCR	32.6	C/V	150	5.07	POE 68	13.88	30.6	192.0	7.56	
EK6210CD	1.75	0.11	516400005	115-127V 60Hz	CSCR	33.5	C/V	150	5.07	POE 68	13.88	30.6	192.0	7.56	
EK6210CD	1.75	0.11	516400010	220V 60Hz	CSCR	18.0	C/V	150	5.07	POE 68	13.88	30.6	192.0	7.56	



FREQUENCY	APPLICATION	REFRIGERANT
60Hz	M/HBP	R-744

	Cooling Type	Discharge Pressure	Cooling Capacity / Evaporating Temperature °C													Drawings		MODEL		
			Subcooled Conditions W																	
			-20	-15	-10	-5	0	5	Rated Point +7.2°C								10		External View	Wiring Diagram
									Cooling		W. Input	Current	EER							
									W	kcal/h			W	A	W/W	kcal/hW				
	F	85	399	465	540	625	722	831	802	690	285	3.21	2.81	2.42	954	ref.	ref.			
	F	85	461	550	651	764	891	1030	1070	920	394	4.68	2.71	2.33	1182	DWG18	SM25	EK6175CD		
	F	85	554	677	817	972	1143	1327	1434	1233	536	5.31	2.68	2.30	1524	DWG18	SM25	EK6210CD		
	F	85	555	678	818	973	1144	1328	1434	1233	529	2.73	2.70	2.32	1525	DWG18	SM25	EK6210CD		

REFRIGERANT	APPLICATION	FREQUENCY
R-134a	HBP	60Hz

MODEL	Displacement		B.O.M.	Voltage / Frequency	Motor Type	LRA	Exp. Device	Lubricant			Weight		Max. Height	
	cm <sup>3</sup>	in <sup>3</sup>						Charge		Type	kg	lb	mm	in
EMT37HDP	3.40	0.21	194IB	200-230V 50Hz / 208-230V 60Hz 1~	RSIR	5.4	C	180	6.2	POE 22	7.7	17.0	166.0	6.5
EMT50HDP	4.50	0.27	194NB	200-230V 50Hz / 208-230V 60Hz 1~	RSIR	9.1	C	180	6.2	POE 22	7.7	17.0	166.0	6.5
EMT6170Z	7.69	0.47	U.D.*	115V 60Hz 1~	CSIR	24.5	C/V	180	6.0	POE 22	7.8	17.2	166.0	6.5
NEK6160Z	7.28	0.44	267BG	115V 60Hz / 100V 50Hz 1~	CSIR	28.5	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK6170Z	8.40	0.51	267DG	115V 60Hz / 100V 50Hz 1~	CSIR	26.5	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK6187Z	10.0	0.61	268AG	115V 60Hz / 100V 50Hz 1~	CSIR	37.0	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9
NEK6210Z	12.12	0.74	268BG	115V 60Hz / 100V 50Hz 1~	CSIR	37.0	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9
NEK6212Z	14.30	0.87	269AG	115V 60Hz / 100V 50Hz 1~	CSIR	40.0	C/V	350	12.0	POE 22	11.0	24.3	206.0	8.1
NEK6212Z*	14.30	0.87	269AG	115V 60Hz / 100V 50Hz 1~	CSR	40.0	C/V	350	12.0	POE 22	11.0	24.3	206.0	8.1
NEK6214Z	16.80	1.02	269HG	115V 60Hz / 100V 50Hz 1~	CSR	48.0	C/V	350	12.0	POE 22	11.0	24.3	206.0	8.1
NEK6160Z	7.28	0.44	267BB	200-230V 50Hz / 208-230V 60Hz 1~	CSIR	13.5	C/V	350	12.0	POE 22	10.4	22.9	187.0	7.4
NEK6170Z	8.40	0.51	268DB	200-230V 50Hz / 208-230V 60Hz 1~	CSIR	16.5	C/V	350	12.0	POE 22	11.0	24.3	200.0	7.9
NEK6187Z	10.00	0.61	269BB	200-230V 50Hz / 208-230V 60Hz 1~	CSIR	19.3	C/V	350	12.0	POE 22	11.0	24.3	206.0	8.1
NEK6210Z	12.12	0.74	269EB	200-230V 50Hz / 208-230V 60Hz 1~	CSIR	20.0	C/V	350	12.0	POE 22	11.0	24.3	206.0	8.1
NEK6212Z	14.30	0.87	269AB	200-230V 50Hz / 208-230V 60Hz 1~	CSR	22.5	C/V	350	12.0	POE 22	11.0	24.3	206.0	8.1
NT6215Z	17.40	1.06	211AG	115V 60Hz / 100V 50Hz 1~	CSIR	44.0	C/V	450	16.0	POE 22	15.7	34.5	207.0	8.1
NT6215Z	17.40	1.06	211AG	115V 60Hz / 100V 50Hz 1~	CSR	44.0	C/V	450	16.0	POE 22	15.7	34.5	207.0	8.1
NT6217Z	20.40	1.24	212BG	115V 60Hz / 100V 50Hz 1~	CSIR	45.0	C/V	450	16.0	POE 22	16.5	36.3	220.0	8.7
NT6217Z	20.40	1.24	212BG	115V 60Hz / 100V 50Hz 1~	CSR	45.0	C/V	450	16.0	POE 22	16.5	36.3	220.0	8.7
NT6220Z	22.40	1.36	212CG	115V 60Hz / 100V 50Hz 1~	CSR	54.5	C/V	450	16.0	POE 22	16.5	36.3	220.0	8.7
NT6215Z	17.40	1.06	211AD	208-230V 60Hz / 200V 50Hz 1~	CSIR	20.8	C/V	450	16.0	POE 22	15.7	34.5	207.0	8.1
NT6217Z	20.40	1.24	212BD	208-230V 60Hz / 200V 50Hz 1~	CSIR	31.0	C/V	450	16.0	POE 22	16.5	36.3	220.0	8.7
NT6217Z	20.40	1.24	212BD	208-230V 60Hz / 200V 50Hz 1~	CSR	31.0	C/V	450	16.0	POE 22	16.5	36.3	220.0	8.7
NT6220Z	22.40	1.36	212CD	208-230V 60Hz / 200V 50Hz 1~	CSIR	33.7	C/V	450	16.0	POE 22	16.5	36.3	220.0	8.7
NT6220Z	22.40	1.36	212CD	208-230V 60Hz / 200V 50Hz 1~	CSR	33.7	C/V	450	16.0	POE 22	16.5	36.3	220.0	8.7
NJ6220Z	26.20	1.60	144HG	115V 60Hz / 100V 50Hz 1~	CSIR	72.0	C/V	750	26.0	POE 22	19.7	43.4	265.0	10.4
NJ6220Z	26.20	1.60	144HD	208-230V 60Hz / 200V 50Hz 1~	CSIR	42.0	C/V	750	26.0	POE 22	20.3	44.8	265.0	10.4
NJ6226Z	34.37	2.10	142HD	208-230V 60Hz / 200V 50Hz 1~	CSR	40.0	C/V	750	26.0	POE 22	20.1	44.3	253.0	10.0
NJ6220ZX	26.20	1.60	148HM	380-420V 50Hz / 440-480V 60Hz 3~	3PHASE	10.0	C/V	750	26.0	POE 22	19.6	43.2	265.0	10.4
NJ6226ZX	34.37	2.10	148IM	380-420V 50Hz / 440-480V 60Hz 3~	3PHASE	13.0	C/V	750	26.0	POE 22	20.2	44.5	265.0	10.4

\*Under Development

FREQUENCY										APPLICATION	REFRIGERANT
60Hz										HBP	R-134a

	Cooling Type	Condensing Temperature	Cooling Capacity / Evaporating Temperature °C												Drawings		MODEL
			Subcooled Conditions W														
			-15	-10	-5	0	5	Rated Point +7.2°C								10	
								Cooling		W. Input	Current	EER					
W	kcal/h	W/W						kcal/hW									
	S	54.4 45	192	238	258 295	320 365	392 446	422	363	170	0.95	2.47	2.13	473 540	DWG01	SM00	EMT37HDP
	S	54.4 45	258	320	350 398	430 490	526 598	562	484	221	1.20	2.54	2.19	634 718	DWG01	SM00	EMT50HDP
	F	54.4 45	440	548	600 674	732 818	880 980	950	816	442	4.75	2.15	1.85	1041 1156	DWG01		EMT6170Z
	F	54.4 45	359	455	498 574	625 715	773 880	845	727	360	4.66	2.35	2.02	942 1066	DWG04	SM04	NEK6160Z
	F	54.4 45	427	537	583 673	724 835	892 1022	978	841	418	4.95	2.34	2.01	1090 1236	DWG04	SM04	NEK6170Z
	F	54.4 45	485	603	662 757	828 947	1026 1170	1122	965	486	5.82	2.30	1.99	1253 1428	DWG04	SM04	NEK6187Z
	F	54.4 45	573	726	801 912	995 1133	1219 1387	1326	1140	608	6.83	2.18	1.88	1469 1678	DWG04	SM04	NEK6210Z
	F	54.4 45	652	837	920 1055	1143 1304	1396 1585	1518	1305	766	8.95	1.98	1.70	1680 1900	DWG04	SM04	NEK6212Z
	F	54.4 45	-	-	-	-	-	1568	1350	718	7.22	2.18	1.88	-	DWG04	SM06	NEK6212Z
	F	54.4 45	750	954	1050 1198	1310 1484	1605 1810	1746	1502	853	8.70	2.05	1.76	1938 2178	DWG04	SM06	NEK6214Z
	F	54.4 45	358	452	497 570	624 711	771 875	842	724	349	2.40	2.41	2.07	936 1063	DWG03	SM04	NEK6160Z
	F	54.4 45	431	539	590 674	730 837	894 1027	974	838	414	2.42	2.35	2.02	1082 1244	DWG03	SM04	NEK6170Z
	F	54.4 45	512	630	668 778	833 958	1023 1170	1115	959	485	2.97	2.30	1.98	1238 1412	DWG03	SM04	NEK6187Z
	F	54.4 45	520	680	720 840	910 1060	-15 1320	1270	1090	605	3.75	2.10	1.80	1450 1658	DWG03	SM04	NEK6210Z
	F	54.4 45	665	850	915 1060	1125 1302	1358 1576	1475	1268	747	4.30	1.98	1.70	1620 1890	DWG03	SM06	NEK6212Z
	F	54.4 45	846	1074	1174 1346	1460 1660	1790 2025	1942	1670	810	8.95	2.39	2.06	2160 2438	DWG15	SM20	NT6215Z
	F	54.4 45	846	1074	1174 1346	1460 1660	1790 2025	1942	1670	763	7.08	2.55	2.19	2160 2438	DWG15	SM23	NT6215Z
	F	54.4 45	1002	1280	1338 1594	1660 1942	2016 2325	2180	1874	987	10.47	2.21	1.90	2410 2745	DWG15	SM20	NT6217Z
	F	54.4 45	1002	1280	1338 1594	1660 1942	2016 2325	2180	1874	899	8.19	2.43	2.09	2410 2745	DWG15	SM23	NT6217Z
	F	54.4 45	1138	1254	1308 1506	1684 1892	2195 2414	2466	2121	996	9.20	2.48	2.13	2844 3070	DWG17	SM21	NT6220Z
	F	54.4 45	804	1034	1142 1308	1412 1622	1722 1980	1878	1614	835	4.94	2.25	1.94	2074 2380	DWG15	SM20	NT6215Z
	F	54.4 45	976	1240	1341 1556	1657 1922	2027 2340	2208	1899	982	5.78	2.24	1.93	2453 2810	DWG15	SM20	NT6217Z
	F	54.4 45	976	1240	1341 1556	1657 1922	2027 2340	2287	1967	884	4.28	2.58	2.23	2453 2810	DWG15	SM23	NT6217Z
	F	54.4 45	1088	1380	1500 1725	1852 2120	2253 2570	2448	2105	1080	6.47	2.27	1.95	2704 3070	DWG16	SM20	NT6220Z
	F	54.4 45	1088	1380	1500 1725	1852 2120	2253 2570	2448	2105	1002	4.62	2.44	2.10	2704 3070	DWG16	SM23	NT6220Z
	F	54.4 45	1125	1478	1721 1916	2201 2442	2727 3053	2973	2557	1250	13.30	2.38	2.05	3299 3751	DWG14	SM14	NJ6220Z
	F	54.4 45	1125	1478	1721 1916	2201 2442	2727 3053	2973	2557	1220	7.40	2.44	2.10	3299 3751	DWG14	SM14	NJ6220Z
	F	54.4 45	1662	2096	2064 2608	2604 3199	3196 3868	3473	2987	1525	7.30	2.28	1.96	3840 4616	DWG14	SM17	NJ6226Z
	F	54.4 45	1125	1478	1721 1916	2201 2442	2727 3053	2973	2557	1021	1.60	2.91	2.50	3299 3751	DWG14	SM18	NJ6220ZX
	F	54.4 45	1662	2096	2064 2608	2604 3199	3196 3868	3473	2987	1390	2.40	2.50	2.15	3840 4616	DWG14	SM18	NJ6226ZX

## 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

Type	Description
AB	alkylbenzene
MO	mineral
POE	polyolester

### Test Conditions

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

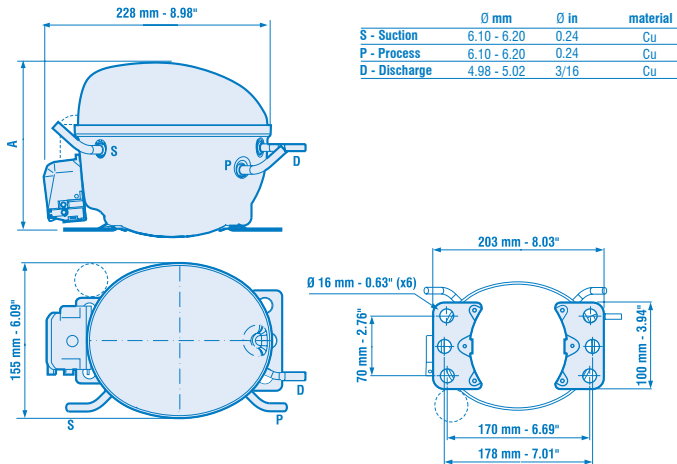
### Test Conditions - R-744

	Evaporating Temperature °C (°F)	Discharge Pressure bar	Return Gas Temperature °C (°F)	Ambient Temperature °C (°F)	Approach Temperature °C (°F)
MBP	-10.0 (14.0)	85.0	32.0 (89.6)	32.0 (89.6)	32.0 (89.6)
HBP	7.2 (45.0)	85.0	32.0 (89.6)	32.0 (89.6)	32.0 (89.6)

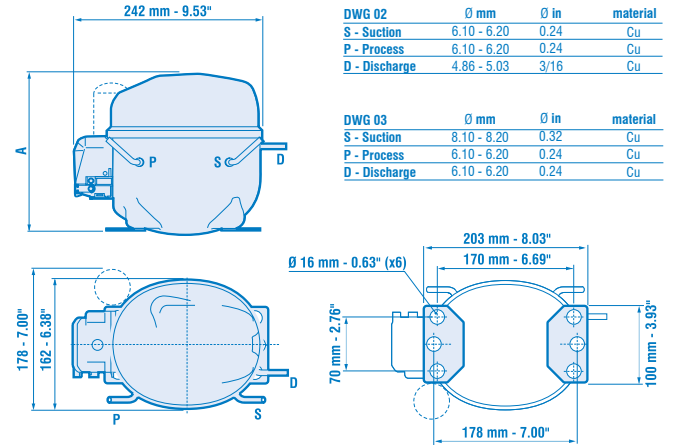
**Notice:** After replacement, the compressor and its accessories must have proper processing, and the components must be recycled according to the material group (ferrous, non-ferrous, polymers, oils, ...) directives. These recommendations are intended to minimize the adverse impacts that may be caused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

# EXTERNAL VIEWS

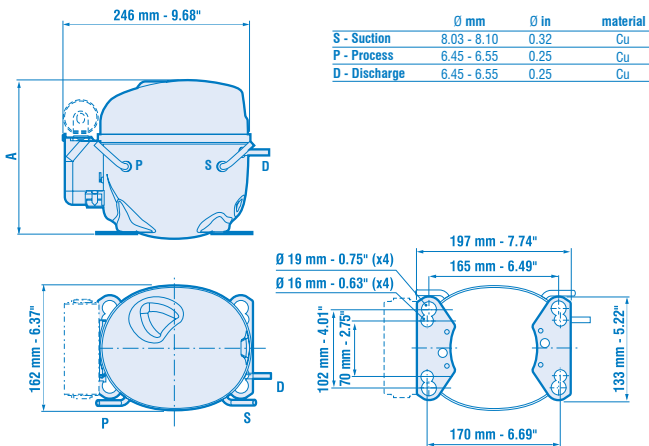
DWG 01 **EM SERIES** European Base Plate



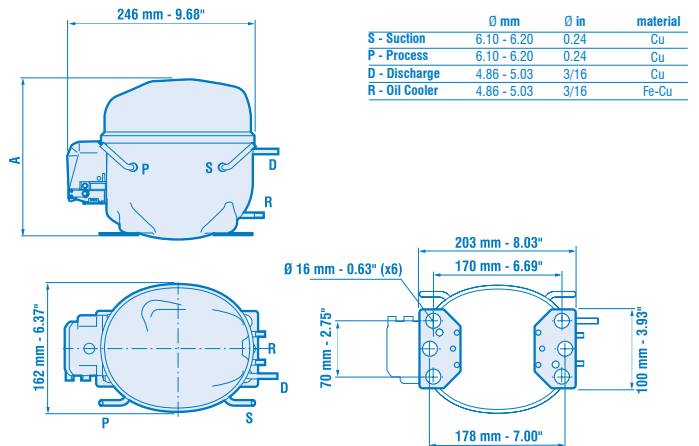
DWG 02 / DWG 03 **NB/NE SERIES** European Base Plate



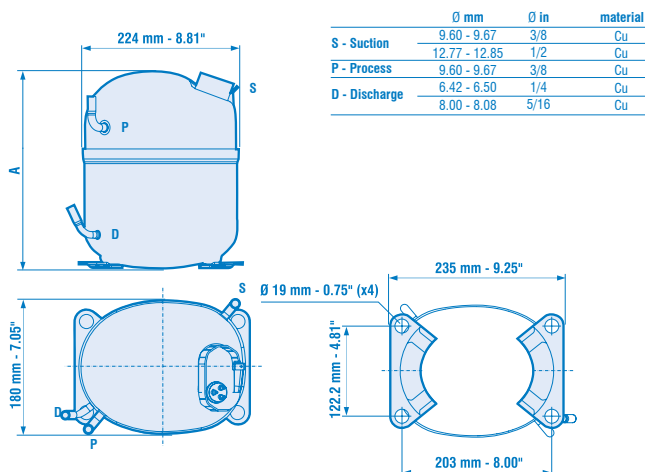
DWG 04 **NB/NE SERIES** Universal Base Plate



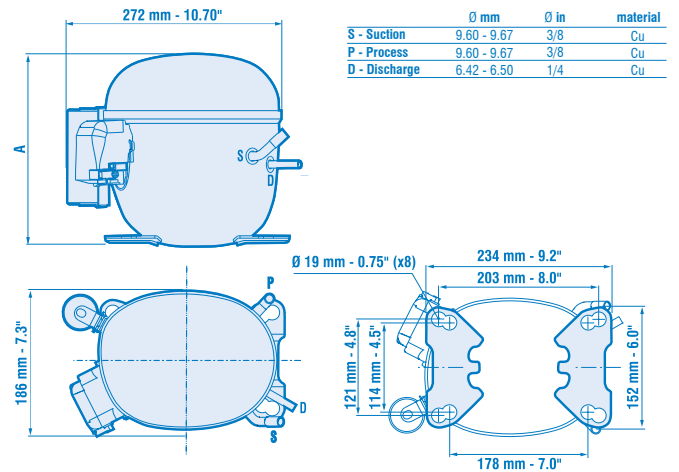
DWG 05 **NB/NE SERIES** Oil Cooler



DWG 14 **NJ SERIES**

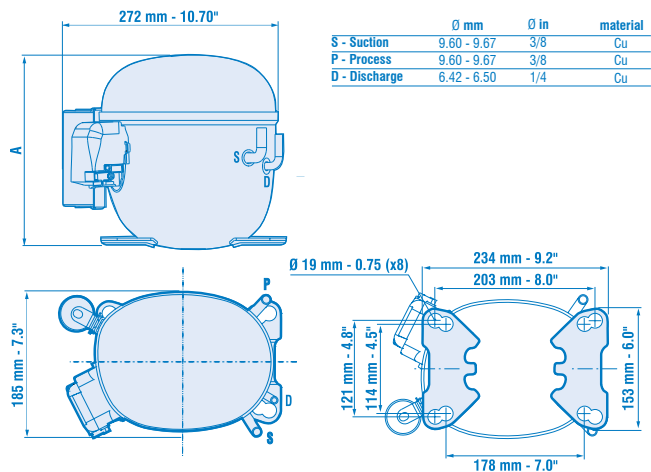


DWG 15 **NT SERIES**

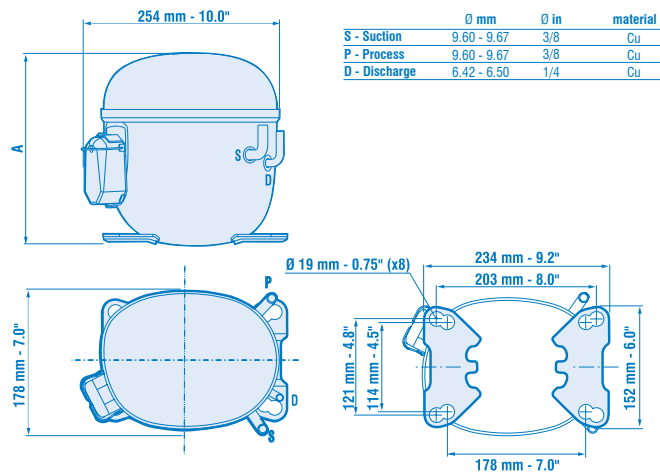


# EXTERNAL VIEWS

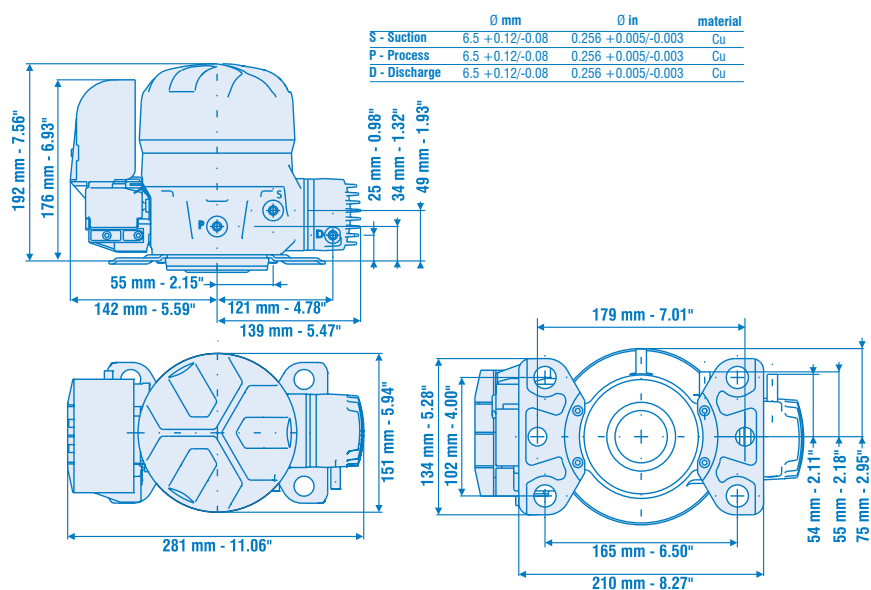
## DWG 16 NT SERIES



## DWG 17 NT SERIES

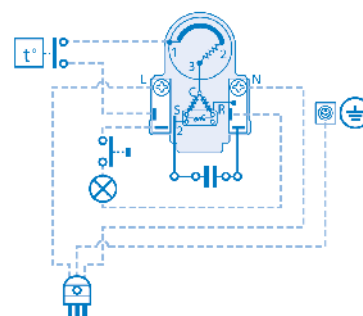
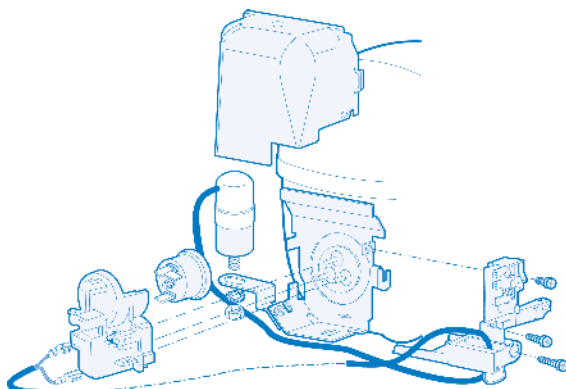


## DWG 18 EK SERIES

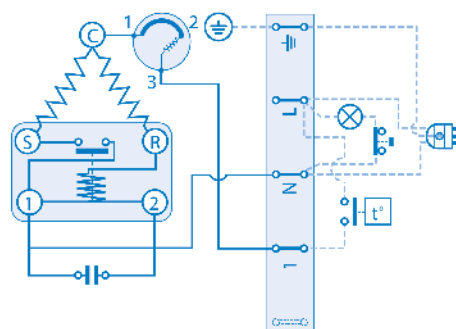
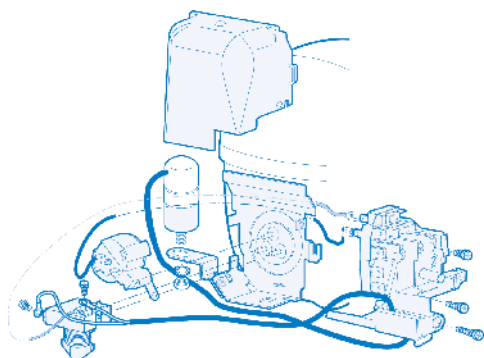


# WIRING DIAGRAMS

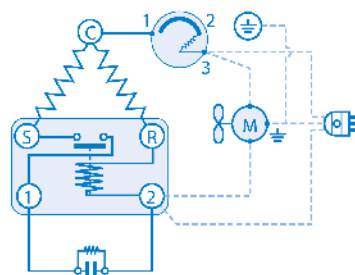
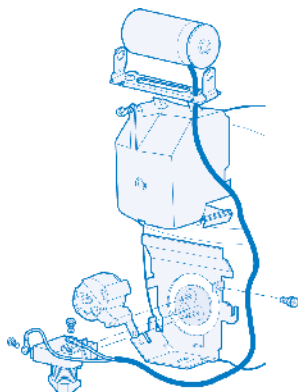
## SM 00 **EM - NB/NE SERIES** RSIR - RSCR PTC Integrated Start Device - European Version



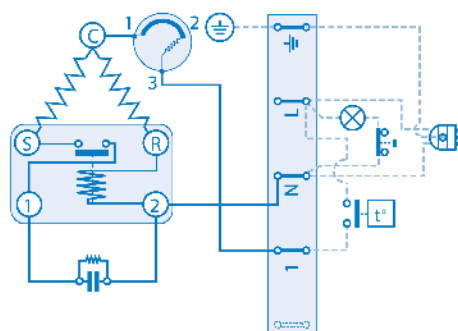
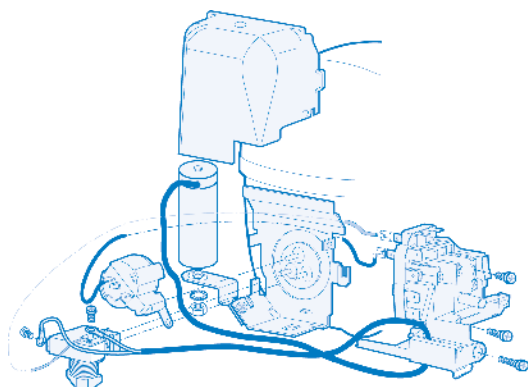
## SM 03 **EM/NB/NE SERIES** RSIR Terminal Board & Start Device



## SM 04 **NB/NE SERIES** CSIR Cord Anchorage & Start Device - American Version

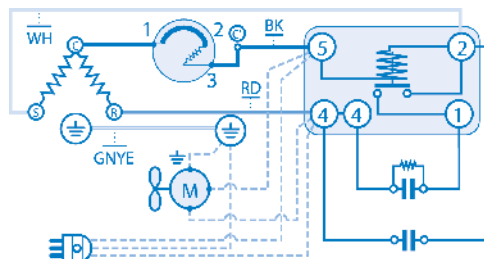
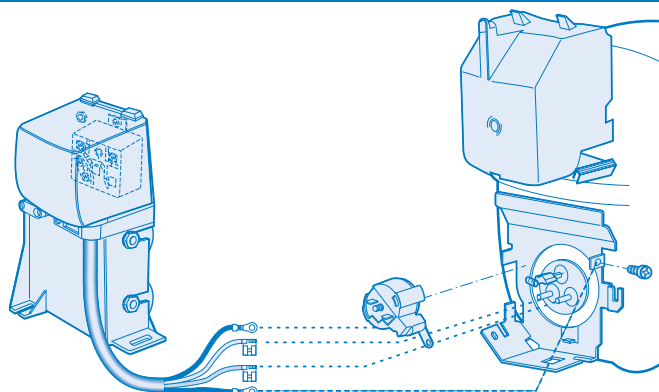


## SM 05 **EM/NB/NE SERIES** CSIR Terminal Board & Start Device

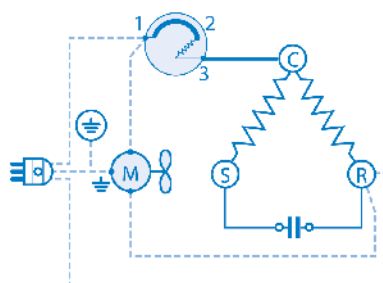
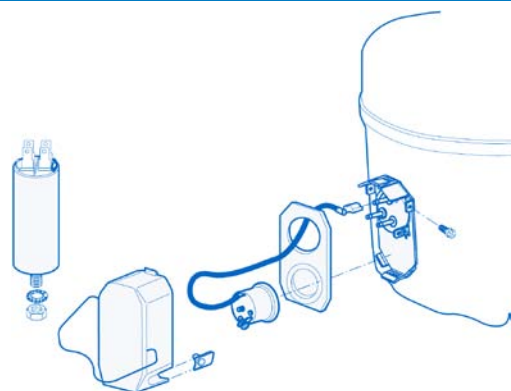


## WIRING DIAGRAMS

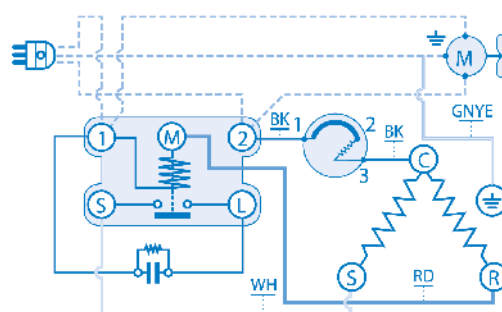
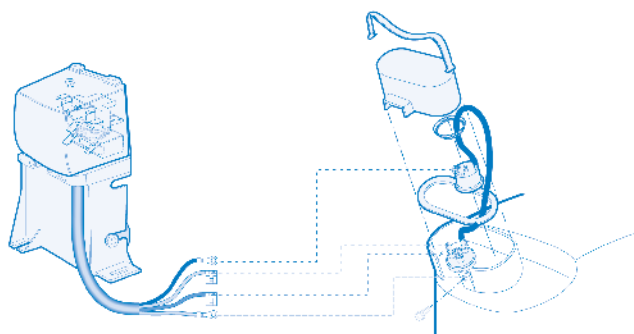
### SM 06 EM/NB/NE SERIES CSR Box



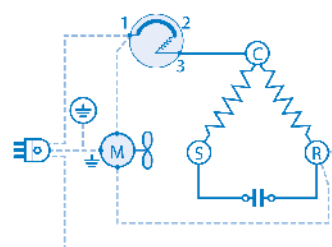
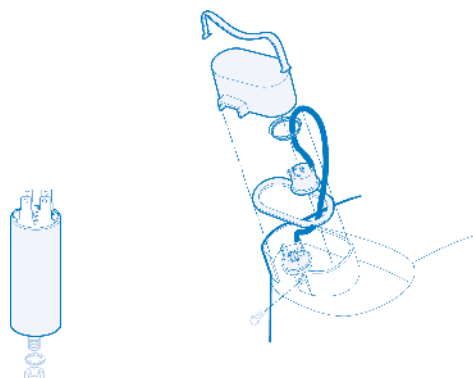
### SM 07 NE SERIES PSC



### SM 14 NJ SERIES CSIR Box

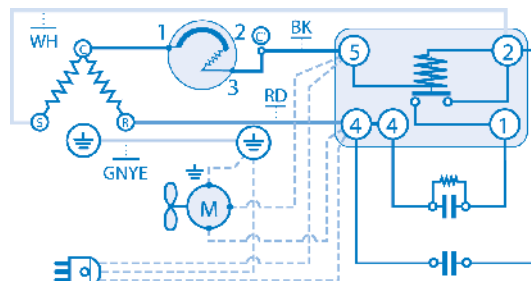
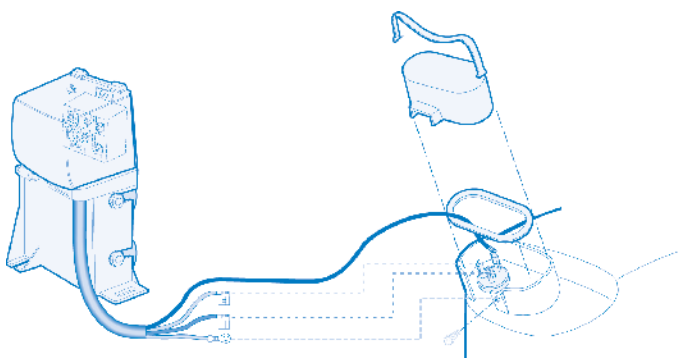


### SM 15 NJ SERIES PSC

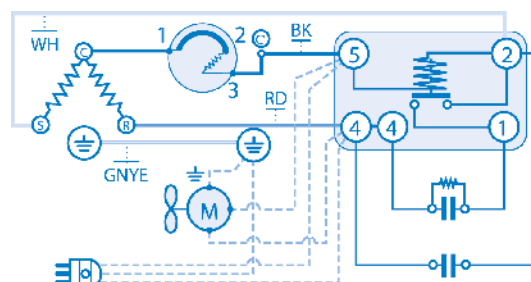
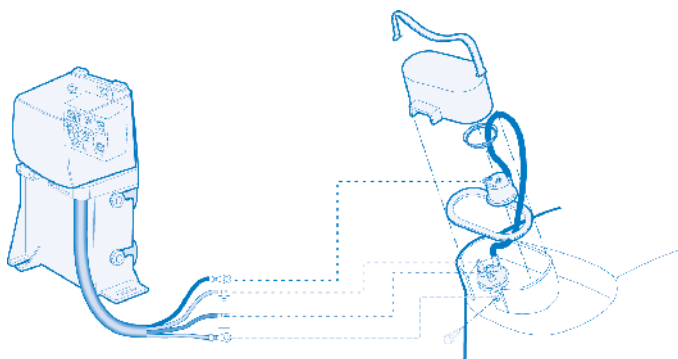




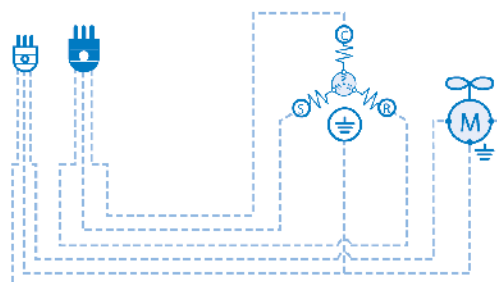
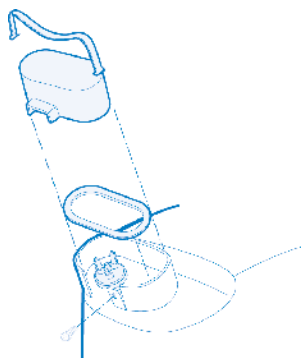
## SM 16 **NJ SERIES** CSR Box (Internal Overload Protector)



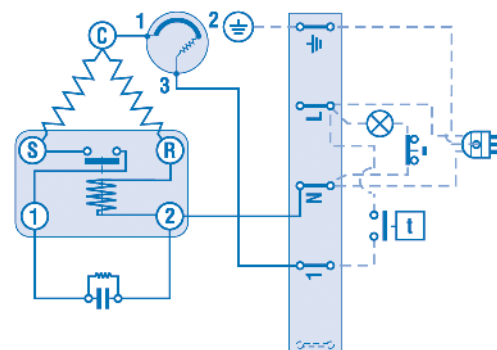
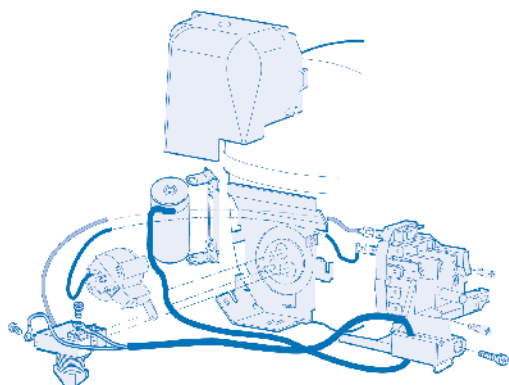
## SM 17 **NJ SERIES** CSR Box



## SM 18 **NJ SERIES** 3-Phase

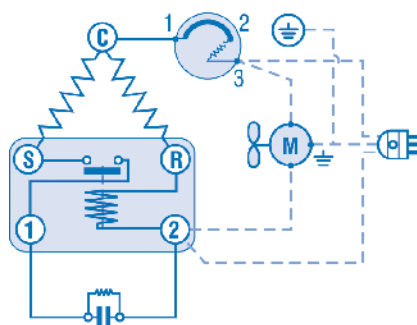
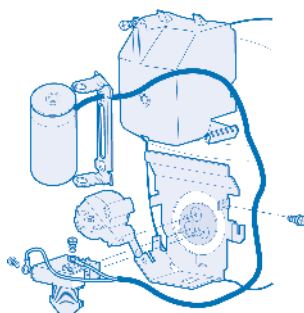


## SM 19 **NT SERIES** CSIR Terminal Board

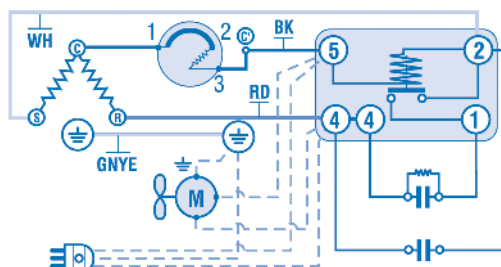
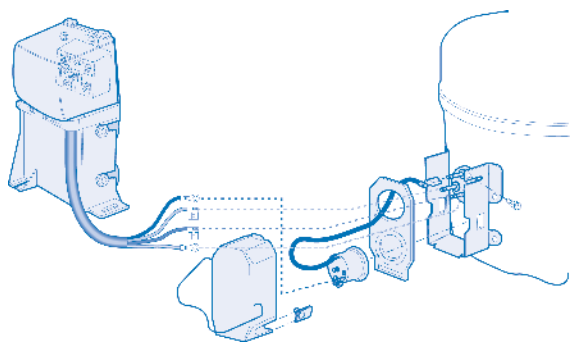


## WIRING DIAGRAMS

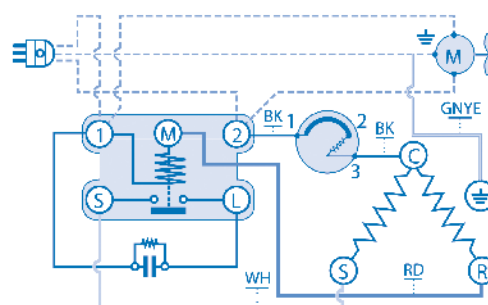
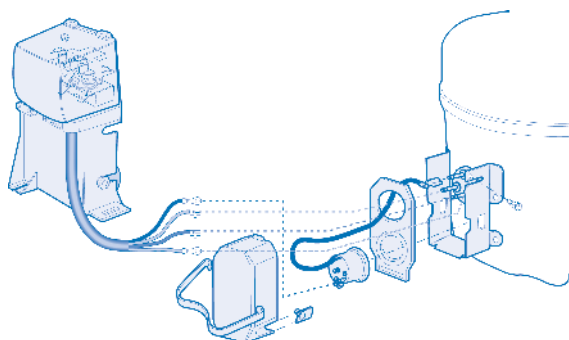
### SM 20 NT SERIES CSIR Simple Cover



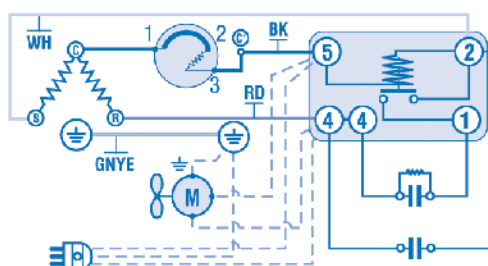
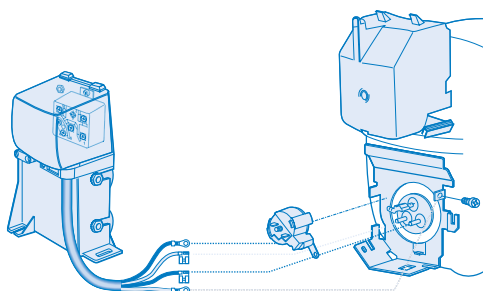
### SM 21 NT SERIES CSR Box



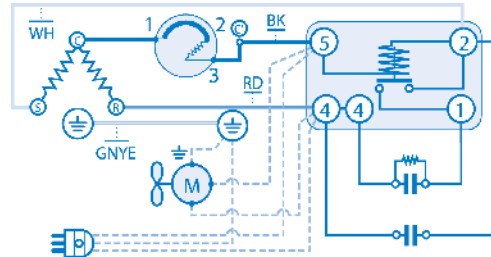
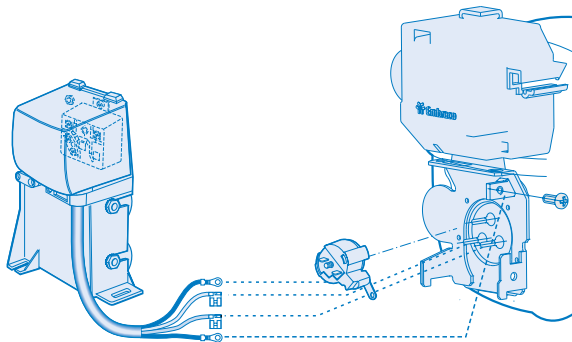
### SM 22 NT SERIES CSIR Box



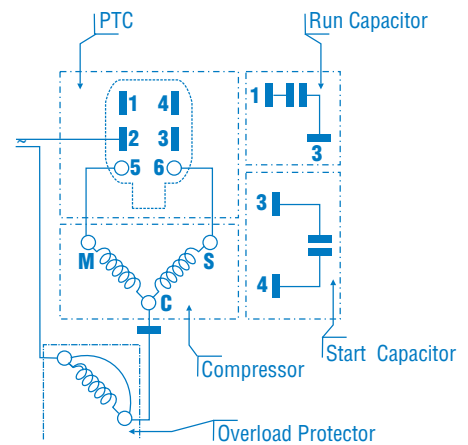
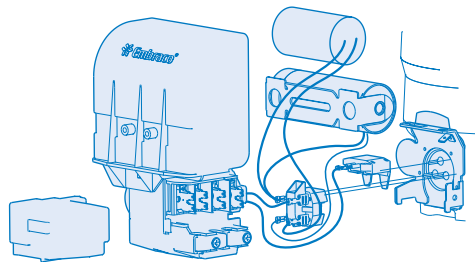
### SM 23 NT SERIES CSR Box



## SM 24 EK SERIES CSR Box



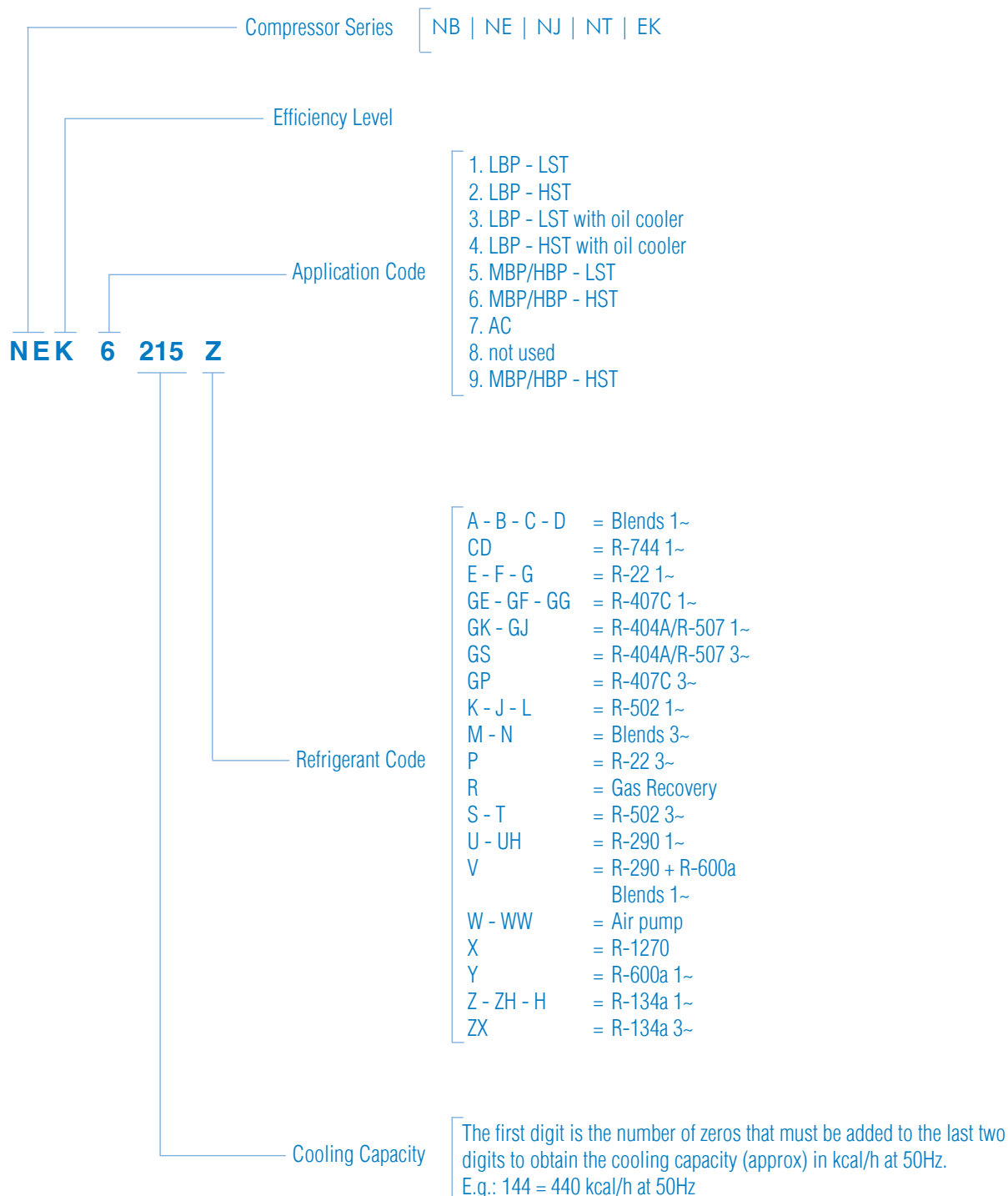
## SM 25 EK SERIES PTC CSR



**Notice:** In order to increase the safety of our product, Embraco proposes the connection of the overload protector to the phase wire (Power Supply). The neutral wire must be connected at the starting relay.

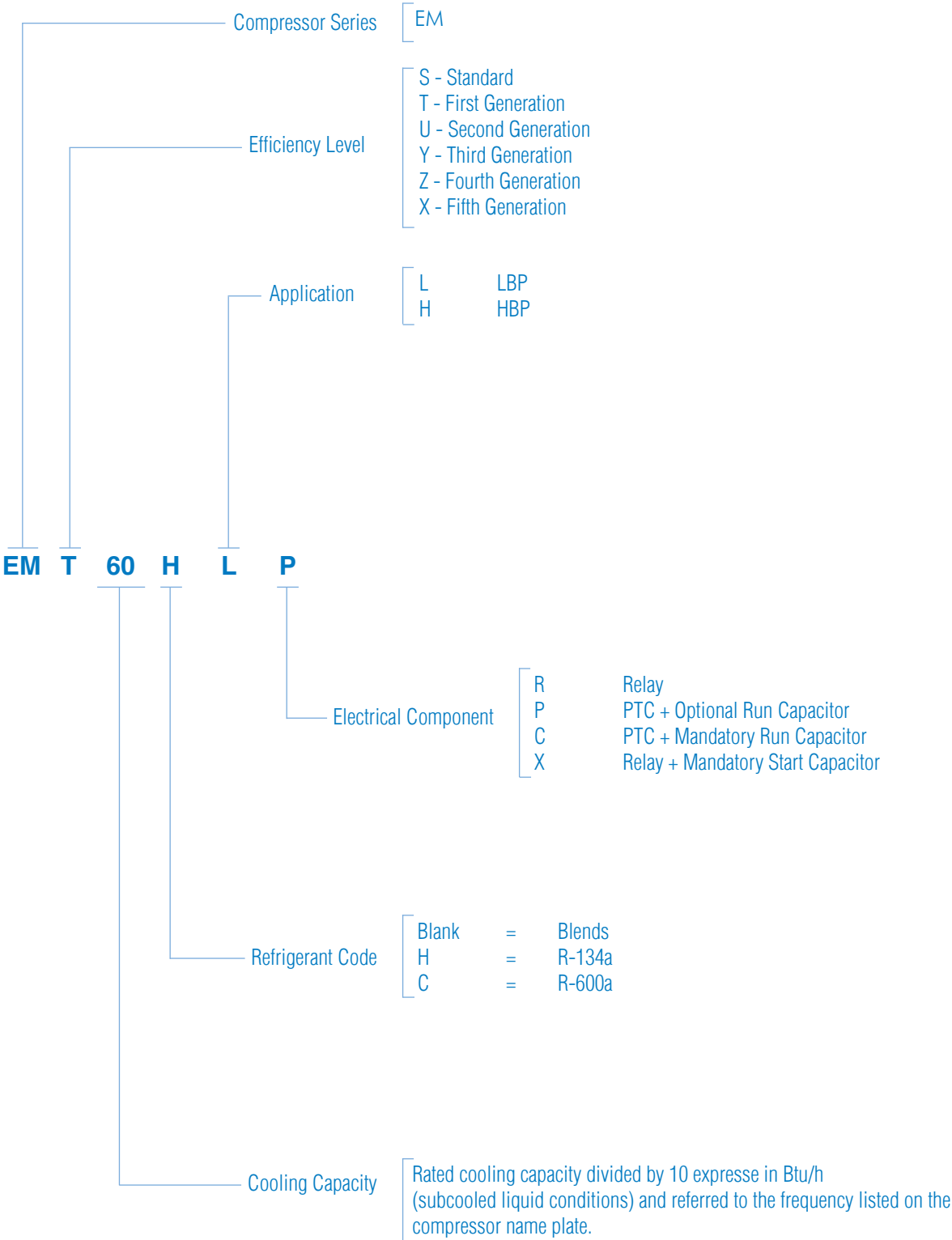
# NOMENCLATURE

## COMPRESSOR MODEL



# NOMENCLATURE

## COMPRESSOR MODEL



**BILL OF MATERIAL**

Model Code

247A

External Execution Code

02

Supply Code

A

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~





Brazil

Rui Barbosa, 1020 - P.O. BOX 91  
89219-901 - Joinville - SC - Brazil  
Phone: +55 47 3441-2121  
Fax: +55 47 3441-2780



Italy

Via Buttiglieria 6  
10020 - Riva Presso Chieri (Torino) - Italy  
P.O. BOX 151 - 10023 Chieri (TO)  
Phone: +39 011 943-7111  
Fax: +39 011 946-8377  
+39 011 946-9950



Slovakia

Odorinska Cesta, 2 - 052-01  
Spišská Nová Ves - Slovakia  
Phone: +42 153 417-2291  
+42 153 417-2293  
Fax: +42 153 417-2299

Europe - Sales Office  
Zona Industriale D1 - Via Fratelli Gambino, 7  
10023 - Chieri (Torino) - Italy  
Phone: +39 011 940-5611  
Fax: +39 011 940-5656



U.S.A.

2800 Vista Ridge Drive NE  
Suwanee, GA 30024-3510  
Phone: +1 678 804-1337  
Fax: +1 678 804-1338

Mexico - Sales Office  
Av. Lazaro Cardenas 2321 - Piso 3  
Residencial San Agustin  
P.O. BOX 66260 - San Pedro Garza Garcia  
Nuevo Leon - Mexico  
Phone: +52 81 1001-7102  
Fax: +52 81 1001-7142



China

29 Yuhua Road  
Area B of Beijing Tianzhu Airport Industrial Zone  
101312 - Beijing - China  
Phone: +86 10 8048-2255  
Fax: +86 10 6725-6825

[www.embraco.com](http://www.embraco.com)



Embraco is participating in the United Nations Global Compact.