



INVOTECH - Scroll Compressors  
SCROLL COMPRESSORS CROSS REFERENCE  
60Hz

*It is the outstanding engineering capability that builds the incomparable reliability*



Copeland				PANASONIC (SANYO)				DANFOSS				LG				Bitzer				INVOTECH							
Model	Displ. cm <sup>3</sup> /rev	HP	Cooling Capacity Btu/h   Kw	Model	Displ. cm <sup>3</sup> /rev	HP	Cooling Capacity kBTu/h   KW	Model	Displ. cm <sup>3</sup> /rev	HP	Cooling Capacity kBTu/h   KW	Model	Displ. cm <sup>3</sup> /rev	HP	Cooling Capacity kBTu/h   KW	Model	Displ. cm <sup>3</sup> /rev	HP	Cooling Capacity kBTu/h   KW	Model	Displ. cm <sup>3</sup> /rev	HP	Cooling Capacity kBTu/h   KW				
<b>208-230V 3Phase 60Hz R410A</b>																											
ZP39KSE-TF5	36.87	3.50	39.07   11.45	C-SBP120H36A	39.90	3.50	40.30   11.80	HRH040U2	39.60	3.30	41.49   12.16																
ZP49KSE-TF5	46.39	4.00	49.65   14.55	C-SBP140H36A	46.40	4.00	48.50   14.20	HRH049U2	47.40	4.10	48.99   14.36	ABA051RAA		4.00	51.50   15.09									YH95C7-100	38.30	3.50	39.55   11.59
ZP54KSE-TF5	51.13	4.50	54.25   15.90	C-SBP160H36A	51.80	4.60	55.00   16.10	HRH054U2	52.10	4.50	54.48   15.97													YH119C7-100	45.70	4.00	49.54   14.52
ZP61KCE-TF5	58.09	5.00	61.42   18.00	C-SBP170H36A	55.70	5.00	59.40   17.40	HLH061T2	57.80	5.10	61.58   18.05	ABA061RAA		5.00	61.50   18.03									YH128C7-100	49.10	4.50	53.28   15.62
ZP72KCE-TF5	67.12	6.00	72.34   21.20	C-SBP205H36A	66.80	6.00	70.00   20.50	HLJ072T2	68.00	6.00	72.50   21.24													YH150C7-100	58.90	5.00	62.44   18.30
ZP76KCE-TF5	70.78	6.50	77.11   22.60	C-SBP235H36A	77.40	7.00	81.90   24.00	HLJ075T2	70.80	6.30	76.19   22.30													YH175C7-100	65.70	6.00	72.02   21.11
ZP90KCE-TF5	84.15	8.00	90.42   26.50					HCJ090T2	86.90	7.50	91.50   26.81													YH183C7-100	70.90	6.50	76.19   22.33
ZP103KCE-TF5	96.34	9.00	104.07   30.50					HCJ105T2	101.60	8.80	106.39   31.17													YH230C7-100	90.30	8.00	95.75   28.06
ZP122KCE-TF5	112.30	10.00	124.20   36.40					HCJ120T2	116.90	10.00	121.60   35.62													YH266C7-100	99.40	9.00	110.73   32.45
ZP137KCE-TF5	127.13	11.00	136.49   40.00																					YH292C7-100	106.90	10.00	121.55   35.62
								SH140-3	133.00	12.00	144.33   42.30													YH325C7-100	122.30	11.00	135.29   39.65
																								YH355C7-100	130.90	12.00	144.87   42.46
<b>380V 3Phase 60Hz R410A</b>																											
ZP39KSE-TF7	36.87	3.50	39.07   11.45	C-SBP120H38A	39.90	3.50	41.70   12.20	HRH038U9	36.50	3.20	37.89   11.10													YH95C5-100	38.30	3.50	39.55   11.59
ZP49KSE-TF7	46.39	4.00	49.65   14.55	C-SBP140H38A	46.40	4.00	48.80   14.30																	YH119C5-100	45.70	4.00	49.54   14.52
ZP54KSE-TF7	51.13	4.50	54.25   15.90	C-SBP160H38A	51.80	4.60	55.30   16.20	HRH054U9	52.10	4.50	54.48   15.97													YH128C5-100	49.10	4.50	53.28   15.62
ZP61KCE-TF7	58.09	5.00	61.42   18.00	C-SBP170H38A	55.70	5.00	59.10   17.30					AR061U		5.00	61.50   18.02									YH150C5-100	58.90	5.00	62.44   18.30
ZP72KCE-TF7	67.12	6.00	72.34   21.20	C-SBP205H38A	66.80	6.00	70.30   20.60	HLJ072T9	68.00	6.00	72.50   21.24													YH175C5-100	65.70	6.00	72.02   21.11
ZP76KCE-TF7	70.78	6.50	77.11   22.60	C-SBN523H8H	77.40	7.00	80.00   23.40																	YH183C5-100	70.90	6.50	76.19   22.33
ZP90KCE-TF7	84.15	8.00	90.42   26.50	C-SCP270H38A	89.20	8.00	92.90   27.20	HCJ090T9	86.90	7.50	91.50   26.81	AG090UAA		8.00	90.00   26.38									YH230C5-100	90.30	8.00	95.75   28.06
ZP103KCE-TF7	96.34	9.00	104.07   30.50	C-SCP315H38A	104.10	10.00	107.20   31.40	HCJ105T9	101.60	8.80	106.39   31.17	AG105UAA		9.00	105.00   30.77									YH266C5-100	99.40	9.00	110.73   32.45
ZP122KCE-TF7	112.30	10.00	124.20   36.40	C-SCP360H38A	120.20	11.00	122.60   35.90	SH120-9	116.90	10.00	125.40   36.75	AG120UAA		10.00	120.00   35.17	GSD60120VA_3	113.81	10.00	123.18   36.10					YH292C5-100	106.90	10.00	121.55   35.62
ZP137KCE-TF7	127.13	11.00	136.49   40.00	C-SCP400H38A	127.80	12.00	131.80   38.60									GSD60137VA_3	127.62	11.00	137.85   40.40					YH325C5-100	122.30	11.00	135.29   39.65
								SH140-9	133.00	12.00	144.33   42.30	AG140UAA		12.00	140.00   41.03									YH355C5-100	130.90	12.00	144.87   42.46
ZP154KCE-TF7	142.91	13.00	155.25   45.50	C-SCP435H38B	148.80	13.00	152.30   44.60	SH161-9	151.70	13.00	160.88   47.15	AG161UAA		13.00	160.00   46.89	GSD60154VA_3	142.38	13.00	156.62   45.90					YSH400C5G-100	144.76	13.00	161.74   47.40
ZP182KCE-TE7	167.12	15.00	182.55   53.50	S-SCP510H38B	171.20	15.00	182.70   53.50	SH184-9	170.30	15.00	184.21   53.99	AG184UAA		15.00	184.00   53.93	GSD60182VA_3	167.62	15.00	184.94   54.20					YSH450C5G-100	166.19	15.00	182.21   53.40
<b>440-460V 3Phase 60Hz R410A</b>																											
ZP39KSE-TFD	36.87	3.50	39.07   11.45	C-SBP120H39B	39.90	3.50	41.70   12.20	HRH040U4	39.60	3.30	41.49   12.16													YH95C1-100	38.30	3.50	39.55   11.59
ZP49KSE-TFD	46.39	4.00	49.65   14.55	C-SBP140H39B	46.40	4.00	47.80   14.00	HRH049U4	47.40	4.10	48.99   14.36	ABA051WAA		4.00	51.50   15.09									YH119C1-100	45.70	4.00	49.54   14.52
ZP54KSE-TFD	51.13	4.50	54.25   15.90	C-SBP160H39B	51.80	4.60	53.90   15.80	HRH054U4	52.10	4.50	54.48   15.97	ABA054WAA		4.50	54.00   15.83									YH128C1-100	49.10	4.50	53.28   15.62
ZP61KCE-TFD	58.09	5.00	61.42   18.00	C-SBN373H9F	55.70	5.00	57.50   16.90	HLH061T4	57.80	5.10	61.58   18.05													YH150C1-100	58.90	5.00	62.44   18.30
ZP72KCE-TFD	67.12	6.00	72.34   21.20	C-SBP205H39B	66.80	6.00	67.90   19.90	HLJ072T4	68.00	6.00	72.50   21.24													YH175C1-100	65.70	6.00	72.02   21.11
ZP76KCE-TFD	70.78	6.50	77.11   22.60	C-SBP235H39B	77.40	7.00	81.60   23.90	HLJ075T4	70.80	6.30	76.19   22.30	ARA073WAA		6.50	75.50   22.13									YH183C1-100	70.90	6.50	76.19   22.33
ZP90KCE-TFD	84.15	8.00	90.42   26.50					HCJ090T4	86.90	7.50	91.50   26.81													YH230C1-100	90.30	8.00	95.75   28.06
ZP103KCE-TFD	96.34	9.00	104.07   30.50					HCJ105T4	101.60	8.80	106.39   31.17													YH266C1-100	99.40	9.00	110.73   32.45
ZP122KCE-TFD	112.30	10.00	124.20   36.40					HCJ120T4	116.90	10.00	121.60   35.62	AG120WAA		10.00	120.00   35.17	GSD60120VA_4	113.81	10.00	123.18   36.10					YH292C1-100	106.90	10.00	121.55   35.62
ZP137KCE-TFD	127.13	11.00	136.49   40.00													GSD60137VA_4	127.62	11.00	137.85   40.40					YH325C1-100	122.30	11.00	135.29   39.65
								SH140-4	133.00	12.00	144.33   42.30													YH355C1-100	130.90	12.00	144.87   42.46
ZP154KCE-TFD	142.91	13.00	155.25   45.50					SH161-4	151.70	13.00	160.88   47.15	AG160WAA		13.00	159.60   46.78	GSD60154VA_4	142.38	13.00	156.62   45.90					YSH400C1G-100	144.76	13.00	161.74   47.40
ZP182KCE-TFD	167.12	15.00	182.55   53.50					SH184-4	170.30	15.00	184.21   53.99	AG184WAA		15.00	182.00   53.34	GSD60182VA_4	167.62	15.00	184.94   54.20					YSH450C1G-100	166.19	15.00	182.21   53.40

Cooling capacity @ ARI540 HT standard rating conditions: Evaporating temperature: 7.2°C (45°F), Condensing temperature: 54.4°C (130°F), Superheat 11.1K, sub-cooling 8.3K.

Copeland					PANASONIC (SANYO)					DANFOSS					LG					Bitzer					INVOTECH					
Model	Displ. cm³/rev	HP	Cooling Capacity Btu/h   Kw		Model	Displ. cm³/rev	HP	Cooling Capacity kBTu/h   KW		Model	Displ. cm³/rev	HP	Cooling Capacity kBTu/h   KW		Model	Displ. cm³/rev	HP	Cooling Capacity kBTu/h   KW		Model	Displ. cm³/rev	HP	Cooling Capacity kBTu/h   KW							
<b>208-230V 3Phase 60Hz R407C</b>																														
ZR28K3E-TF5	39.25	2.00	27.30	8.00																					YH69T7-100	38.10	2.00	26.75	7.84	
ZR36K3E-TF5	49.49	3.00	34.97	10.25	C-SBN263H6C	51.80	3.50	37.90	11.10																YH89T7-100	49.00	3.00	34.97	10.25	
ZR42K3E-TF5	57.16	3.50	40.26	11.80	C-SBN263H6B	55.70	3.50	41.00	12.00																YH104T7-100	59.00	3.50	41.66	12.21	
ZR48K3E-TF5	65.50	4.00	47.09	13.80																					YH119T7-100	65.70	4.00	46.75	13.70	
ZR52K3E-TF5	70.06	4.30	49.82	14.60	C-SBN303H6A	66.80	4.00	49.20	14.40	HRP051T2	68.80	4.30	49.08	14.38											YH128T7-100	71.00	4.30	50.33	14.75	
ZR54K3E-TF5	73.22	4.50	52.04	15.25																					YH133T7-100	73.80	4.50	52.27	15.32	
ZR57K3E-TF5	77.18	4.60	54.94	16.10	C-SBN353H6B	77.40	4.50	57.40	16.80																YH140T7-100	77.10	4.60	55.04	16.13	
ZR61KCE-TF5	82.59	5.00	60.05	17.60	C-SBN373H6A	83.20	5.00	61.50	18.00	HRP060T2	81.00	5.00	56.50	16.56											YH150T7-100	82.90	5.00	58.96	17.28	
ZR72KCE-TF5	98.04	6.00	72.34	21.20	C-SBN453H6A	100.00	6.00	73.40	21.50	HLP072T2	98.70	6.00	68.04	19.94											YH175T7-100	96.70	6.00	67.59	19.81	
ZR81KCE-TF5	107.78	7.00	78.48	23.00						HLP081T2	110.90	6.80	80.96	23.73											YH200T7-100	106.70	7.00	79.93	23.42	
ZR94KCE-TF5	127.13	8.00	93.83	27.50						SZ100-3	127.20	8.00	90.46	26.51											YH230T7-100	122.30	8.00	92.33	27.06	
ZR108KCE-TF5	142.91	9.00	106.12	31.10						SZ110-3	144.20	9.00	102.71	30.10							ESH725Y-20S	143.81	9.00	103.39	30.30	YH266T7-100	141.10	9.00	106.28	31.15
ZR125KCE-TF5	167.12	10.00	124.88	36.60						SZ120-3	166.60	10.00	118.86	34.84							ESH730Y-20S	172.38	10.00	120.11	35.20	YH307T7-100	166.30	10.00	122.68	35.95
ZR144KCE-TF5	190.83	12.00	142.29	41.70						SZ148-3	199.00	12.00	145.36	42.60							ESH736Y-20S	206.67	12.00	143.99	42.20	YH355T7-100	188.00	12.00	141.87	41.58
<b>380V 3Phase 60Hz R407C</b>																														
ZR28K3E-TF7	39.25	2.00	27.30	8.00																						YH69T5-100	38.10	2.00	26.75	7.84
ZR36K3E-TF7	49.49	3.00	34.97	10.25	C-SBN263H9C	51.80	3.50	37.60	11.00																	YH89T5-100	49.00	3.00	34.97	10.25
ZR42K3E-TF7	57.16	3.50	40.26	11.80	C-SBN263H9A	55.70	3.50	41.00	12.00																	YH104T5-100	59.00	3.50	41.66	12.21
ZR48K3E-TF7	65.50	4.00	47.09	13.80																						YH119T5-100	65.70	4.00	46.75	13.70
ZR52K3E-TF7	70.06	4.30	49.82	14.60	C-SBN303H9A	66.80	4.00	48.50	14.20																	YH128T5-100	71.00	4.30	50.33	14.75
ZR54K3E-TF7	73.22	4.50	52.04	15.25																						YH133T5-100	73.80	4.50	52.27	15.32
ZR57K3E-TF7	77.18	4.60	54.94	16.10	C-SBN353H9A	77.40	4.50	56.30	16.50																	YH140T5-100	77.10	4.60	55.04	16.13
ZR61KCE-TF7	82.59	5.00	60.05	17.60	C-SBN373H9A	83.20	5.00	61.50	18.00																	YH150T5-100	82.90	5.00	58.96	17.28
ZR72KCE-TF7	98.04	6.00	72.34	21.20	C-SBN453H9A	100.00	6.00	71.70	21.00																	YH175T5-100	96.70	6.00	67.59	19.81
ZR81KCE-TF7	107.78	7.00	78.48	23.00						SZ084-9	114.50	7.00	76.90	22.54												YH200T5-100	106.70	7.00	79.93	23.42
ZR94KCE-TF7	127.13	8.00	93.83	27.50						SZ100-9	127.20	8.00	90.46	26.51												YH230T5-100	122.30	8.00	92.33	27.06
ZR108KCE-TF7	142.91	9.00	106.12	31.10						SZ110-9	144.20	9.00	102.71	30.10							ESH725Y-35S	143.81	9.00	103.39	30.30	YH266T5-100	141.10	9.00	106.28	31.15
ZR125KCE-TF7	167.12	10.00	124.88	36.60						SZ120-9	166.60	10.00	118.86	34.84							ESH730Y-35S	172.38	10.00	120.11	35.20	YH307T5-100	166.30	10.00	122.68	35.95
ZR144KCE-TF7	190.83	12.00	142.29	41.70						SZ148-9	199.00	12.00	145.36	42.60							ESH736Y-35S	206.67	12.00	143.99	42.20	YH355T5-100	188.00	12.00	141.87	41.58
ZR160KCE-TF7	209.10	13.00	153.89	45.10						SZ161-9	216.60	13.00	156.82	45.96												YSH400T5G-100	215.24	13.00	155.18	45.48
ZR190KCE-TE7	249.12	15.00	180.84	53.00						SZ185-9	249.90	15.00	176.69	51.78							ESH743Y-35S	246.67	15.00	179.48	52.60	YSH450T5G-100	242.86	15.00	171.38	50.23
<b>440-460V 3Phase 60Hz R407C</b>																														
ZR28K3E-TFD	39.25	2.00	27.30	8.00																						YH69T1-100	38.10	2.00	26.75	7.84
ZR36K3E-TFD	49.49	3.00	34.97	10.25						HRP034T4	46.20	2.80	32.37	9.49												YH89T1-100	49.00	3.00	34.97	10.25
ZR42K3E-TFD	57.16	3.50	40.26	11.80	C-SBN263H8A	55.70	3.50	40.30	11.80	HRP042T4	57.20	3.50	39.36	11.54												YH104T1-100	59.00	3.50	41.66	12.21
ZR48K3E-TFD	65.50	4.00	47.09	13.80						HRP047T4	64.10	4.00	43.29	12.69												YH119T1-100	65.70	4.00	46.75	13.70
ZR52K3E-TFD	70.06	4.30	49.82	14.60	C-SBN303H8A	66.80	4.00	49.80	14.60	HRP051T4	68.80	4.30	49.06	14.38												YH128T1-100	71.00	4.30	50.33	14.75
ZR54K3E-TFD	73.22	4.50	52.04	15.25																						YH133T1-100	73.80	4.50	52.27	15.32
ZR57K3E-TFD	77.18	4.60	54.94	16.10	C-SBN353H8A	77.40	4.50	56.30	16.50																	YH140T1-100	77.10	4.60	55.04	16.13
ZR61KCE-TFD	82.59	5.00	60.05	17.60	C-SBN373H8A	83.20	5.00	60.80	17.80	HRP060T4	81.00	5.00	56.55	16.57												YH150T1-100	82.90	5.00	58.96	17.28
ZR72KCE-TFD	98.04	6.00	72.34	21.20	C-SBN453H8A	100.00	6.00	72.70	21.30	HLP072T4	98.70	6.00	68.04	19.94												YH175T1-100	96.70	6.00	67.59	19.81
ZR81KCE-TFD	107.78	7.00	78.48	23.00	C-SBS235H38A	110.20	7.00	79.90	23.40	HLP081T4	110.90	6.80	79.73	23.37												YH200T1-100	106.70	7.00	79.93	23.42
ZR94KCE-TFD	127.13	8.00	93.83	27.50	C-SCN583H8H	131.90	8.00	95.60	28.00	SZ100-4	127.20	8.00	90.46	26.51												YH230T1-100	122.30	8.00	92.33	27.06
ZR108KCE-TFD	142.91	9.00	106.12	31.10	C-SCN673H8H	148.80	9.00	109.30	32.00	SZ110-4	144.20	9.00	102.71	30.10							ESH725Y-40S	143.81	9.00	103.39	30.30	YH266T1-100	141.10	9.00	106.28	31.15
ZR125KCE-TFD	167.12	10.00	124.88	36.60	C-SCN753H8H	171.20	10.00	122.60	35.90	SZ120-4	166.60	10.00	118.86	34.84							ESH730Y-40S	172.38	10.00	120.11	35.20	YH307T1-100	166.30	10.00	122.68	35.95
ZR144KCE-TFD	190.83	12.00	142.29	41.70						SZ148-4	199.00	12.00	145.36	42.60							ESH736Y-40S	206.67	12.00	143.99	42.20	YH355T1-100	188.00	12.00	141.87	41.58
ZR160KCE-TFD	209.10	13.00	153.89	45.10						SZ161-4	216.60	13.00	156.82	45.96												YSH400T1G-100	215.24	13.00	155.18	45.48
ZR190KCE-TF7	249.12	15.00	180.84	53.00						SZ185-4	249.90	15.00	176.69	51.78							ESH743Y-40S	246.67	15.00	179.48	52.60	YSH450T1G-100	242.86	15.00	171.38	50.23

Cooling capacity @ ARI540 HT standard rating conditions: Evaporating temperature: 7.2°C (45°F), Condensing temperature: 54.4°C (130°F), Superheat 11.1K, sub-cooling 8.3K.

Copeland					PANASONIC (SANYO)					DANFOSS					LG / Bitzer					TECUMSEH					INVOTECH					
Model	Displ. cm³/rev	HP	Cooling Capacity Btu/h   Kw		Model	Displ. cm³/rev	HP	Cooling Capacity kBTu/h   KW		Model	Displ. cm³/rev	HP	Cooling Capacity kBTu/h   KW		Model	Displ. cm³/rev	HP	Cooling Capacity kBTu/h   KW		Model	Displ. cm³/rev	HP	Cooling Capacity kBTu/h   KW							
<b>208-230V 3Phase 60Hz R22</b>																														
															<b>LG</b>															
ZR28K3-TF5	39.25	2.00	29.00	8.50																						YH69A7-100	38.10	2.00	27.84	8.16
ZR36K3-TF5	49.49	3.00	36.85	10.80	C-SB263H6C	51.80	3.50	37.90	11.10	HRM034U2	46.20	2.80	33.48	9.81	SQ036RAA		3.00	35.50	10.40							YH89A7-100	49.00	3.00	36.44	10.68
ZR42K3-TF5	57.16	3.50	42.82	12.55	C-SB263H6B	55.70	3.50	40.60	11.90	HRM042U2	57.20	3.50	41.97	12.30	SQ042RAA		3.50	40.50	11.87							YH104A7-100	59.00	3.50	43.40	12.72
ZR48K3-TF5	65.50	4.00	49.13	14.40						HRM047U2	64.10	3.90	47.47	13.91	SR049RAA		4.00	49.50	14.51							YH119A7-100	65.70	4.00	48.73	14.28
ZR52K3-TF5	70.06	4.30	51.86	15.20	C-SB303H6A	66.80	4.00	49.20	14.40	HRM051U2	68.80	4.30	49.08	15.03	SR053RAA		4.30	53.00	15.53							YH128A7-100	71.00	4.30	52.41	15.36
ZR54K3-TF5	73.22	4.50	54.25	15.90						HRM054U2	72.90	4.50	53.66	15.73						SFA5554EXT			54.00	15.83		YH133A7-100	73.80	4.50	54.46	15.96
ZR57K3-TF5	77.18	4.60	58.69	17.20	C-SB353H6B	77.40	4.50	57.40	16.80	HRM058U2	78.20	4.80	57.76	16.93	SR057RAA		4.60	58.00	17.00	SFA5558EXT			58.00	17.00		YH140A7-100	77.10	4.60	57.32	16.80
ZR61KC-TF5	82.59	5.00	62.10	18.20	C-SB373H6A	83.20	5.00	61.80	18.10	HRM060U2	81.00	5.00	59.66	17.49	SR061RBA		5.00	62.00	18.17	SFA5560EXT			60.00	17.58		YH150A7-100	82.90	5.00	61.42	18.00
ZR72KC-TF5	98.04	6.00	73.36	21.50	C-SB453H6A	100.00	6.00	72.70	21.30	HLM072T2	98.70	6.00	72.75	21.32	SR071RAC		6.00	71.00	20.81	SFA5572EXT			72.00	21.10		YH175A7-100	96.70	6.00	70.43	20.64
ZR81KC-TF5	107.78	7.00	81.89	24.00	C-SBR235H36A	110.20	7.00	79.60	23.30	HLM081T2	110.90	6.80	81.45	23.87	SR081RAA		7.00	78.00	22.86	SFA5581EXT			81.00	23.74		YH200A7-100	106.70	7.00	83.26	24.40
ZR94KC-TF5	127.13	8.00	96.56	28.30	C-SC583H6H	131.90	8.00	95.30	27.90	SM100-3	127.20	8.00	94.40	27.67	<b>Bitzer</b>					SFA5594EXT			93.00	27.26		YH230A7-100	122.30	8.00	96.16	28.18
ZR108KC-TF5	142.91	9.00	109.19	32.00	C-SC673H6H	148.80	9.00	110.30	32.30	SM110-3	144.20	9.00	107.75	31.58	ESH725-20S	143.81	9.00	103.39	30.30	SFA5611EXT			107.00	31.36		YH266A7-100	141.10	9.00	110.73	32.45
ZR125KC-TF5	167.12	10.00	127.96	37.50	C-SC753H6H	171.20	10.00	126.30	37.00	SM120-3	166.60	10.00	125.26	36.71	ESH730-20S	172.38	10.00	124.20	36.40	SFA5612EXT			127.00	37.22		YH307A7-100	166.30	10.00	127.80	37.45
ZR144KC-TF5	190.83	12.00	145.02	42.50	C-SC903H6H	205.40	12.00	147.50	43.20	SM148-3	199.00	12.00	149.51	43.82	ESH736-20S	206.67	12.00	148.77	43.60	SFA5615EXT			150.00	43.96		YH355A7-100	188.00	12.00	147.78	43.31
															<b>LG</b>															
<b>380V 3Phase 60Hz R22</b>																														
ZR28K3-TF7	39.25	2.00	29.00	8.50											SQ028UAC		2.00	28.50	8.35							YH69A5-100	38.10	2.00	27.84	8.16
ZR36K3-TF7	49.49	3.00	36.85	10.80	C-SB263H9B	51.80	3.50	37.20	10.90	HRM034T9	46.20	2.80	33.68	9.87	SQ036UAC		3.00	36.00	10.55							YH89A5-100	49.00	3.00	36.44	10.68
ZR42K3-TF7	57.16	3.50	42.82	12.55	C-SB263H9A	55.70	3.50	40.60	11.80	HRM042T9	57.20	3.50	41.68	12.21	SQ042UAB		3.50	41.00	12.02							YH104A5-100	59.00	3.50	43.40	12.72
ZR48K3-TF7	65.50	4.00	49.13	14.40						HRM047T9	64.10	3.90	46.97	13.77	SR049UCA		4.00	49.50	14.51							YH119A5-100	65.70	4.00	48.73	14.28
ZR52K3-TF7	70.06	4.30	51.86	15.20	C-SB303H9A	66.80	4.00	48.50	14.20	HRM051T9	68.80	4.30	49.08	14.99	SR053UAA		4.30	53.00	15.53							YH128A5-100	71.00	4.30	52.41	15.36
ZR54K3-TF7	73.22	4.50	54.25	15.90						HRM054T9	72.90	4.50	53.66	15.79												YH133A5-100	73.80	4.50	54.46	15.96
ZR57K3-TF7	77.18	4.60	58.69	17.20	C-SB353H9A	77.40	4.50	56.70	16.60	HRM058T9	78.20	4.80	57.76	17.00	SR057UAA		4.60	58.00	17.00							YH140A5-100	77.10	4.60	57.32	16.80
ZR61KC-TF7	82.59	5.00	62.10	18.20	C-SB373H9A	83.20	5.00	60.80	17.80	HRM060T9	81.00	5.00	59.66	17.48	SR061UAA		5.00	61.50	18.03							YH150A5-100	82.90	5.00	61.42	18.00
ZR72KC-TF7	98.04	6.00	73.36	21.50	C-SB453H9A	100.00	6.00	72.40	21.20	HLM072T9	98.70	6.00	72.75	21.64	SR071UAB		6.00	71.00	20.81							YH175A5-100	96.70	6.00	70.43	20.64
ZR81KC-TF7	107.78	7.00	81.89	24.00	C-SBR235H39A	110.20	7.00	79.90	23.40	HLM081T9	110.90	6.80	81.45	23.90	SR081UAB		7.00	77.50	22.71							YH200A5-100	106.70	7.00	83.26	24.40
ZR94KC-TF7	127.13	8.00	96.56	28.30	C-SC603H9H	137.00	8.00	101.10	29.60	SM100-9	127.20	8.00	94.40	27.54	<b>Bitzer</b>					SFA5594EXT			93.00	27.26		YH230A5-100	122.30	8.00	96.16	28.18
ZR108KC-TF7	142.91	9.00	109.19	32.00						SM110-9	144.20	9.00	107.75	31.58	ESH725-35S	143.81	9.00	103.39	30.30							YH266A5-100	141.10	9.00	110.73	32.45
ZR125KC-TF7	167.12	10.00	127.96	37.50	C-SC753H9H	171.20	10.00	127.30	37.30	SM120-9	166.60	10.00	125.26	36.71	ESH730-35S	172.38	10.00	124.20	36.40							YH307A5-100	166.30	10.00	127.80	37.45
ZR144KC-TF7	190.83	12.00	145.02	42.50	C-SC903H9H	205.40	12.00	151.60	44.40	SM148-9	199.00	12.00	149.51	43.82	ESH736-35S	206.67	12.00	148.77	43.60							YH355A5-100	188.00	12.00	147.78	43.31
ZR160KC-TF7	209.10	13.00	160.37	47.00						SM161-9	216.60	13.00	162.50	47.63												YSH400A5G-100	215.24	13.00	161.74	47.40
ZR190KC-TF7	249.12	15.00	191.08	56.00						SM185-9	249.90	15.00	185.32	54.31	ESH743-35S	246.67	15.00	188.35	55.20							YSH450A5G-100	242.86	15.00	178.52	52.32
															<b>LG</b>															
<b>440-460V 3Phase 60Hz R22</b>																														
ZR28K3-TFD	39.25	2.00	29.00	8.50																						YH69A1-100	38.10	2.00	27.84	8.16
ZR36K3-TFD	49.49	3.00	36.85	10.80	C-SB263H8B	51.80	3.50	38.20	11.20	HRM034T4	46.20	2.80	33.98	9.96												YH89A1-100	49.00	3.00	36.44	10.68
ZR42K3-TFD	57.16	3.50	42.82	12.55	C-SB263H8A	55.70	3.50	40.30	11.80	HRM042T4	57.20	3.50	41.47	12.16												YH104A1-100	59.00	3.50	43.40	12.72
ZR48K3-TFD	65.50	4.00	49.13	14.40						HRM047T4	64.10	3.90	47.47	13.91	SR049SAA		4.00	49.50	14.51							YH119A1-100	65.70	4.00	48.73	14.28
ZR52K3-TFD	70.06	4.30	51.86	15.20	C-SB303H8A	66.80	4.00	49.20	14.40	HRM051T4	68.80	4.30	49.08	15.02												YH128A1-100	71.00	4.30	52.41	15.36
ZR54K3-TFD	73.22	4.50	54.25	15.90						HRM054T4	72.90	4.50	53.66	15.81						SFA5554EXG			54.00	15.83		YH133A1-100	73.80	4.50	54.46	15.96
ZR57K3-TFD	77.18	4.60	58.69	17.20	C-SB353H8A	77.40	4.50	57.00	16.70	HRM058U4	78.20	4.80	57.76	16.93						SFA5558EXG			58.00	17.00		YH140A1-100	77.10	4.60	57.32	16.80
ZR61KC-TFD	82.59	5.00	62.10	18.20	C-SB373H8A	83.20	5.00	61.10	17.90	HRM060T4	81.00	5.00	59.66	17.48	SR061SAA		5.00	61.50	18.03	SFA5560EXG			60.00	17.58		YH150A1-100	82.90	5.00	61.42	18.00
ZR72KC-TFD	98.04	6.00	73.36	21.50	C-SB453H8A	100.00	6.00	73.40	21.50	HLM072T4	98.70	6.00	72.75	21.32																

Copeland					TECUMSEH					DANFOSS					Bitzer				INVOTECH					
Model	Displ. cm³/rev	HP	Cooling Capacity Btu/h   Kw		Model	Displ. cm³/rev	HP	Cooling Capacity Btu/h   Kw		Model	Displ. cm³/rev	HP	Cooling Capacity Btu/h   Kw		Model	Displ. cm³/rev	HP	Cooling Capacity Btu/h   Kw		Model	Displ. cm³/rev	HP	Cooling Capacity Btu/h   Kw	
<b>208-230V 3Phase 60Hz R404A</b>																								
ZB15KCE-TF5	34.02	2.00	14.50	4.25						MLZ015T2	33.77	2.00	14.33	4.20	2GES-2Y	43.57	2.00	15.25	4.47	YM34E7G-100	33.33	2.00	14.82	4.34
ZB19KCE-TF5	39.25	2.50	18.43	5.40						MLZ019T2	43.51	2.50	19.45	5.70	2FES-3Y	54.81	3.00	18.66	5.47	YM43E7G-100	41.90	2.50	17.69	5.19
ZB21KCE-TF5	51.13	3.00	22.18	6.50	SFA7525ZXT			25.00	7.33	MLZ021T2	46.21	3.00	20.81	6.10						YM49E7G-100	46.19	3.00	20.15	5.90
ZB29KCE-TF5	65.50	4.00	29.00	8.50	SFA7530ZXT			30.00	8.79	MLZ030T2	68.79	4.00	30.37	8.90	2DES-3Y	77.14	3.00	29.07	8.52	YM70E7G-100	67.62	4.00	28.81	8.44
ZB38KCE-TF5	82.59	5.00	36.85	10.80	SFA7536ZXT			36.00	10.55	MLZ038T2	80.95	5.00	36.51	10.70	2CES-4Y	93.33	4.00	36.03	10.56	YM86E7G-100	82.86	5.00	35.38	10.37
ZB45KCE-TF5	98.04	6.00	43.85	12.85						MLZ045T2	98.57	6.00	44.02	12.90	4FES-5Y	103.71	5.00	38.93	11.41	YM102E7G-100	97.62	6.00	42.04	12.32
ZB50KCE-TF5	113.56	7.50	52.04	15.25											4EES-6Y	130.57	6.00	48.96	14.35	YM125E7G-100	114.86	7.50	50.95	14.93
ZB58KCE-TF5	127.11	8.00	57.49	16.85						MLZ058T2	125.95	8.00	55.62	16.30						YM132E7G-100	122.29	8.00	53.67	15.73
ZB66KCE-TF5	142.91	9.00	65.17	19.10						MLZ066T2	148.80	9.00	65.51	19.20						YM158E7G-100	144.57	9.00	65.95	19.33
ZB76KCE-TF5	167.12	10.00	78.14	22.90						MLZ076T2	162.43	10.00	74.04	21.70	4VES-10Y	199.62	10.00	74.38	21.80	YM182E7G-100	166.29	10.00	74.33	21.78
																				YM200E7G-100	188.00	12.00	81.32	23.83
ZB95KCE-TE5	209.10	13.00	94.52	27.70						SZ148-3	199.00	12.00	85.47	25.05	4TES-12Y	237.52	12.00	90.42	26.50	YM210E7G-100	196.00	12.50	85.52	25.06
<b>380V 3Phase 60Hz R404A</b>																								
ZB15KQE-TF7	34.02	2.00	14.09	4.13										2GES-2Y	87.14	2.00	15.25	4.47	YM34E5G-100	33.33	2.00	14.82	4.34	
ZB19KQE-TF7	39.25	2.50	16.38	4.80						MLZ019T9	43.51	2.50	19.45	5.70	2FES-3Y	109.62	3.00	18.66	5.47	YM43E5G-100	41.90	2.50	17.69	5.19
ZB21KQE-TF7	49.49	3.00	21.12	6.19						MLZ021T9	46.21	3.00	20.81	6.10						YM49E5G-100	46.19	3.00	20.15	5.90
ZB29KCE-TF7	65.50	4.00	29.00	8.50						MLZ030T9	68.79	4.00	30.37	8.90	2DES-3Y	154.29	3.00	29.07	8.52	YM70E5G-100	67.62	4.00	28.81	8.44
ZB38KCE-TF7	82.59	5.00	36.85	10.80						MLZ038T9	80.95	5.00	36.51	10.70	2CES-4Y	186.67	4.00	36.03	10.56	YM86E5G-100	82.86	5.00	35.38	10.37
ZB45KCE-TF7	98.04	6.00	43.85	12.85						MLZ045T9	98.57	6.00	44.02	12.90	4FES-5Y	207.43	5.00	38.93	11.41	YM102E5G-100	97.62	6.00	42.04	12.32
ZB50KCE-TF7	113.56	7.50	52.04	15.25											4EES-6Y	261.14	6.00	48.96	14.35	YM125E5G-100	114.86	7.50	50.95	14.93
ZB58KCE-TF7	127.11	8.00	57.49	16.85						MLZ058T9	125.95	8.00	55.62	16.30						YM132E5G-100	122.29	8.00	53.67	15.73
ZB66KCE-TF7	142.91	9.00	65.17	19.10						MLZ066T9	148.80	9.00	65.51	19.20						YM158E5G-100	144.57	9.00	65.95	19.33
ZB76KCE-TF7	167.12	10.00	78.14	22.90						MLZ076T9	162.43	10.00	74.04	21.70	4VES-10Y	399.24	10.00	74.38	21.80	YM182E5G-100	166.29	10.00	74.33	21.78
																				YM200E5G-100	188.00	12.00	81.32	23.83
ZB95KCE-TE7	209.10	13.00	94.52	27.70											4TES-12Y	475.05	12.00	90.42	26.50	YM210E5G-100	196.00	12.50	85.52	25.06
ZB114KCE-TE7	249.12	15.00	112.94	33.10											4PES-15Y	557.43	15.00	102.36	30.00	YSM235E5G-100	215.24	13.00	95.07	27.86
																				YSM260E5G-100	242.86	15.00	105.18	30.83
<b>440-460V 3Phase 60Hz R404A</b>																								
ZB15KCE-TFD	34.02	2.00	14.50	4.25						MLZ015T4	33.77	2.00	14.33	4.20	2GES-2Y	43.57	2.00	15.25	4.47	YM34E1G-100	33.33	2.00	14.82	4.34
ZB19KCE-TFD	39.25	2.50	18.43	5.40						MLZ019T4	43.51	2.50	19.45	5.70	2FES-3Y	54.81	3.00	18.66	5.47	YM43E1G-100	41.90	2.50	17.69	5.19
ZB21KCE-TFD	49.49	3.00	22.18	6.50	SFA7525ZXG			25.00	7.33	MLZ021T4	46.21	3.00	20.81	6.10						YM49E1G-100	46.19	3.00	20.15	5.90
ZB29KCE-TFD	65.50	4.00	29.00	8.50	SFA7530ZXG			30.00	8.79	MLZ030T4	68.79	4.00	30.37	8.90	2DES-3Y	77.14	3.00	29.07	8.52	YM70E1G-100	67.62	4.00	28.81	8.44
ZB38KCE-TFD	82.59	5.00	36.85	10.80	SFA7536ZXG			36.00	10.55	MLZ038T4	80.95	5.00	36.51	10.70	2CES-4Y	93.33	4.00	36.03	10.56	YM86E1G-100	82.86	5.00	35.38	10.37
ZB45KCE-TFD	98.04	6.00	43.85	12.85						MLZ045T4	98.57	6.00	44.02	12.90	4FES-5Y	103.71	5.00	38.93	11.41	YM102E1G-100	97.62	6.00	42.04	12.32
ZB50KCE-TFD	113.56	7.50	52.04	15.25											4EES-6Y	130.57	6.00	48.96	14.35	YM125E1G-100	114.86	7.50	50.95	14.93
ZB58KCE-TFD	127.11	8.00	57.49	16.85						MLZ058T4	125.95	8.00	55.62	16.30						YM132E1G-100	122.29	8.00	53.67	15.73
ZB66KCE-TFD	142.91	9.00	65.17	19.10						MLZ066T4	148.80	9.00	65.51	19.20						YM158E1G-100	144.57	9.00	65.95	19.33
ZB76KCE-TFD	167.12	10.00	78.14	22.90						MLZ076T4	162.43	10.00	74.04	21.70	4VES-10Y	199.62	10.00	74.38	21.80	YM182E1G-100	166.29	10.00	74.33	21.78
																				YM200E1G-100	188.00	12.00	81.32	23.83
ZB95KQE-TFD	209.10	13.00	94.52	27.70						SZ148-4	199.00	12.00	85.47	25.05	4TES-12Y	237.52	12.00	90.42	26.50	YM210E1G-100	196.00	12.50	85.52	25.06
ZB114KQE-TFD	249.12	15.00	112.94	33.10						SZ161-4	216.60	13.00	92.03	26.97						YSM235E1G-100	215.24	13.00	95.07	27.86
										SZ185-4	249.90	15.00	107.34	31.46	4PES-15Y	278.71	15.00	102.36	30.00	YSM260E1G-100	242.86	15.00	105.18	30.83

Cooling capacity @ ARI540 MT standard rating conditions: Evaporating temperature: -6.7°C (20°F), Condensing temperature: 48.9°C (120°F), Superheat 25K, no sub-cooling.

Middle Temperature Refrigeration Application

Copeland					TECUMSEH					DANFOSS					Bitzer				INVOTECH					
Model	Displ. cm³/rev	HP	Cooling Capacity Btu/h   Kw		Model	Displ. cm³/rev	HP	Cooling Capacity Btu/h   Kw		Model	Displ. cm³/rev	HP	Cooling Capacity Btu/h   Kw		Model	Displ. cm³/rev	HP	Cooling Capacity Btu/h   Kw		Model	Displ. cm³/rev	HP	Cooling Capacity Btu/h   Kw	
<b>208-230V 3Phase 60Hz R22</b>																								
ZB15KC-TF5	34.02	2.00	15.18	4.45	TFH4531F-K	56.50		17.87	5.24						2GES-2	43.57	2.00	15.87	4.65	YM34A7G-100	33.33	2.00	14.82	4.32
ZB19KC-TF5	39.25	2.50	17.06	5.00						MLM019T2	43.51	2.50	19.40	5.69	2FES-3	54.81	3.00	19.42	5.69	YM43A7G-100	41.90	2.50	17.69	5.20
ZB21KC-TF5	49.49	3.00	22.18	6.50	TFH4540F-K	74.20		22.52	6.60	MLM021T2	46.21	3.00	20.60	6.04					YM49A7G-100	46.19	3.00	20.15	5.93	
ZB29KQ-TF5	65.50	4.00	29.86	8.75	TAG4561T-K	112.50		31.69	9.29	MLM030T2	68.79	4.00	30.30	8.88	2DES-3	77.14	3.00	29.17	8.55	YM70A7G-100	67.62	4.00	28.81	8.47
ZB38KC-TF5	82.59	5.00	36.85	10.80	TAG4573T-K	135.00		38.68	11.34	MLM038T2	80.95	5.00	36.30	10.64	2CES-4	93.33	4.00	36.00	10.55	YM86A7G-100	82.86	5.00	35.38	10.32
ZB45KC-TF5	98.04	6.00	43.85	12.85						MLM045T2	98.57	6.00	44.10	12.92	4FES-5	103.71	5.00	38.08	11.16	YM102A7G-100	97.62	6.00	42.04	12.34
ZB50KC-TF5	113.56	7.50	49.13	14.40										4EES-6	130.57	6.00	48.52	14.22	YM125A7G-100	114.86	7.50	50.95	15.25	
ZB58KC-TF5	127.11	8.00	55.96	16.40						MLM058T2	125.95	8.00	57.00	16.71					YM132A7G-100	122.29	8.00	53.67	16.10	
ZB66KC-TF5	142.91	9.00	64.83	19.00						MLM066T2	148.80	9.00	65.50	19.20					YM158A7G-100	144.57	9.00	65.95	19.28	
ZB76KC-TF5	167.12	10.00	77.11	22.60						MLM076T2	162.43	10.00	75.50	22.13	4VES-10	199.62	10.00	77.11	22.60	YM182A7G-100	166.29	10.00	74.33	22.20
ZB88KC-TF5	190.91	12.00	84.96	24.90															YM200A7G-100	188.00	12.00	81.32	24.40	
ZB95KC-TE5	209.10	13.00	94.52	26.40						SM148-2	199.00	12.00	87.86	25.75	4TES-12Y	237.52	12.00	93.49	27.40	YM210A7G-100	196.00	12.50	85.52	25.62
<b>380V 3Phase 60Hz R22</b>																								
ZB15KQ-TF7	34.02	2.00	13.82	4.05											2GES-2	43.57	2.00	15.87	4.65	YM34A5G-100	33.33	2.00	14.82	4.32
ZB19KQ-TF7	39.25	2.50	17.06	4.65											2FES-3	54.81	3.00	19.42	5.69	YM43A5G-100	41.90	2.50	17.69	5.20
ZB21KQ-TF7	49.49	3.00	22.18	6.07															YM49A5G-100	46.19	3.00	20.15	5.93	
ZB29KC-TF7	65.50	4.00	29.86	8.80											2DES-3	77.14	3.00	29.17	8.55	YM70A5G-100	67.62	4.00	28.81	8.47
ZB38KC-TF7	82.59	5.00	36.85	10.80											2CES-4	93.33	4.00	36.00	10.55	YM86A5G-100	82.86	5.00	35.38	10.32
ZB45KQ-TF7	98.04	6.00	43.85	12.85											4FES-5	103.71	5.00	38.08	11.16	YM102A5G-100	97.62	6.00	42.04	12.34
ZB50KC-TF7	113.56	7.50	49.13	14.40											4EES-6	130.57	6.00	48.52	14.22	YM125A5G-100	114.86	7.50	50.95	15.25
ZB58KC-TF7	127.11	8.00	55.96	16.40															YM132A5G-100	122.29	8.00	53.67	16.10	
ZB66KC-TF7	142.91	9.00	64.83	19.00															YM158A5G-100	144.57	9.00	65.95	19.28	
ZB76KC-TF7	167.12	10.00	77.11	22.60											4VES-10	199.62	10.00	77.11	22.60	YM182A5G-100	166.29	10.00	74.33	22.20
ZB88KC-TF7	190.91	12.00	84.96	24.90															YM200A5G-100	188.00	12.00	81.32	24.40	
															4TES-12Y	237.52	12.00	93.49	27.40	YM210A5G-100	196.00	12.50	85.52	25.62
ZB95KQ-TE7	209.10	13.00	94.52	27.50															YSM235A5G-100	215.24	13.00	96.22	28.20	
ZB114KC-TE7	249.12	15.00	109.19	32.00											4PES-15Y	278.71	15.00	102.36	30.00	YSM260A5G-100	242.86	15.00	106.46	31.20
<b>440-460V 3Phase 60Hz R22</b>																								
ZB15KC-TFD	34.02	2.00	15.18	4.45											2GES-2	43.57	2.00	15.87	4.65	YM34A1G-100	33.33	2.00	14.82	4.32
ZB19KC-TFD	39.25	2.50	17.06	5.00						MLM019T4	43.51	2.50	19.40	5.69	2FES-3	54.81	3.00	19.42	5.69	YM43A1G-100	41.90	2.50	17.69	5.20
ZB21KC-TFD	49.49	3.00	22.18	6.50						MLM021T4	46.21	3.00	20.60	6.04					YM49A1G-100	46.19	3.00	20.15	5.93	
ZB29KC-TFD	65.50	4.00	29.86	8.80						MLM030T4	68.79	4.00	30.30	8.88	2DES-3	77.14	3.00	29.17	8.55	YM70A1G-100	67.62	4.00	28.81	8.47
ZB38KC-TFD	82.59	5.00	36.85	10.80						MLM038T4	80.95	5.00	36.30	10.64	2CES-4	93.33	4.00	36.00	10.55	YM86A1G-100	82.86	5.00	35.38	10.32
ZB45KC-TFD	98.04	6.00	43.85	12.85						MLM045T4	98.57	6.00	44.10	12.92	4FES-5	103.71	5.00	38.08	11.16	YM102A1G-100	97.62	6.00	42.04	12.34
ZB50KC-TFD	113.56	7.50	49.13	14.40											4EES-6	130.57	6.00	48.52	14.22	YM125A1G-100	114.86	7.50	50.95	15.25
ZB58KC-TFD	127.11	8.00	55.96	16.40						MLM058T4	125.95	8.00	57.00	16.71					YM132A1G-100	122.29	8.00	53.67	16.10	
ZB66KC-TFD	142.91	9.00	64.83	19.00						MLM066T4	148.80	9.00	65.50	19.20					YM158A1G-100	144.57	9.00	65.95	19.28	
ZB76KC-TFD	167.12	10.00	77.11	22.60						MLM076T4	162.43	10.00	75.50	22.13	4VES-10	199.62	10.00	77.11	22.60	YM182A1G-100	166.29	10.00	74.33	22.20
ZB88KC-TFD	190.91	12.00	84.96	24.90															YM200A1G-100	188.00	12.00	81.32	24.40	
										SM148-4	199.00	12.00	87.86	25.75	4TES-12Y	237.52	12.00	93.49	27.40	YM210A1G-100	196.00	12.50	85.52	25.62
ZB95KQ-TFD	209.10	13.00	94.52	27.50						SM161-4	216.60	13.00	95.51	27.99					YSM235A1G-100	215.24	13.00	96.22	28.20	
ZB114KQ-TFD	249.12	15.00	109.19	32.00						SM185-4	249.90	15.00	109.14	31.99	4PES-15Y	278.71	15.00	102.36	30.00	YSM260A1G-100	242.86	15.00	106.46	31.20

Cooling capacity @ ARI540 MT standard rating conditions: Evaporating temperature: -6.7°C (20°F), Condensing temperature: 48.9°C (120°F), Superheat 25K, no sub-cooling.

Copeland					DANFOSS					Bitzer					INVOTECH				
Model	Displ. cm <sup>3</sup> /rev	HP	Cooling Capacity Btu/h   Kw		Model	Displ. cm <sup>3</sup> /rev	HP	Cooling Capacity Btu/h   Kw		Model	Displ. cm <sup>3</sup> /rev	HP	Cooling Capacity Btu/h   Kw		Model	Displ. cm <sup>3</sup> /rev	HP	Cooling Capacity Btu/h   Kw	
<b>208-230V 3Phase 60Hz R404A</b>																			
ZF06K4E-TF5	34.02	2.00	6.55	1.92						2FES-2Y	109.62	2.00	6.76	1.98	YF13E7G-Q100	33.30	2.00	6.41	1.88
ZF08K4E-TF5	42.00	2.50	8.29	2.43						2EES-2Y	130.57	2.00	8.80	2.58	YF17E7G-Q100	41.90	2.50	8.20	2.40
ZF09K4E-TF5	46.21	3.00	9.25	2.71	LLZ013T2	67.40	4.00	11.94	3.50	2DES-2Y	154.29	2.00	10.75	3.15	YF20E7G-Q100	46.20	3.00	9.70	2.84
ZF13K4E-TF5	67.12	4.00	12.97	3.80	LLZ015T2	83.50	5.00	14.67	4.30	4FES-3Y	207.43	3.00	14.71	4.31	YF29E7G-Q100	67.60	4.00	14.61	4.28
ZF15K4E-TF5	82.59	5.00	16.21	4.75	LLZ018T2	97.60	6.00	17.40	5.10	4EES-4Y	261.14	4.00	17.11	5.01	YF35E7G-Q100	82.90	5.00	17.11	5.01
ZF18K4E-TF5	98.04	6.00	19.62	5.75	LLZ024T2	120.20	7.00	21.50	6.30	4DES-5Y	308.48	5.00	22.25	6.52	YF41E7G-Q100	97.60	6.00	20.65	6.05
ZF18KVE-TF5 EVI	98.04	6.00	29.17	8.55						4CES-6Y	399.24	6.00	26.38	7.73	YSF60E7G-V100	115.50	7.00	28.77	8.43
										4TES-9Y	475.05	9.00	31.97	9.37	YSF65E7G-V100	123.00	8.00	30.64	8.98
ZF25K5E-TF5 EVI	122.90	8.00	36.00	10.55						4PES-12Y	557.43	12.00	34.84	10.21	YSF75E7G-V100	145.40	9.00	36.23	10.62
										4NES-14Y	646.57	14.00	43.50	12.75	YSF85E7G-V100	167.20	10.00	41.67	12.21
															YSF90E7G-V100	189.10	12.00	47.12	13.81
										4JE-15Y	729.90	15.00	52.44	15.37	YSF100E7G-V100	197.10	13.00	49.12	14.40
<b>380V 3Phase 60Hz R404A</b>																			
										2FES-2Y	109.62	2.00	6.76	1.98	YF13E5G-Q100	33.30	2.00	6.41	1.88
										2EES-2Y	130.57	2.00	8.80	2.58	YF17E5G-Q100	41.90	2.50	8.20	2.40
										2DES-2Y	154.29	2.00	10.75	3.15	YF20E5G-Q100	46.20	3.00	9.70	2.84
ZF13K4E-TF7	67.12	4.00	12.97	3.80						4FES-3Y	207.43	3.00	14.71	4.31	YF29E5G-Q100	67.60	4.00	14.61	4.28
ZF15K4E-TF7	82.59	5.00	16.21	4.75						4EES-4Y	261.14	4.00	17.11	5.01	YF35E5G-Q100	82.90	5.00	17.11	5.01
ZF18K4E-TF7	98.04	6.00	19.62	5.75						4DES-5Y	308.48	5.00	22.25	6.52	YF41E5G-Q100	97.60	6.00	20.65	6.05
ZF18KVE-TF7 EVI	98.04	6.00	29.17	8.55						4CES-6Y	399.24	6.00	26.38	7.73	YSF60E5G-V100	115.50	7.00	28.77	8.43
										4TES-9Y	475.05	9.00	31.97	9.37	YSF65E5G-V100	123.00	8.00	30.64	8.98
ZF25KVE-TF7 EVI	122.90	8.00	36.00	10.55						4PES-12Y	557.43	12.00	34.84	10.21	YSF75E5G-V100	145.40	9.00	36.23	10.62
ZF28KVE-TF7 EVI	144.37	9.00	41.63	12.20						4NES-14Y	646.57	14.00	43.50	12.75	YSF85E5G-V100	167.20	10.00	41.67	12.21
ZF33KVE-TW7 EVI	165.43	10.00	47.94	14.05											YSF90E5G-V100	189.10	12.00	47.12	13.81
										4JE-15Y	729.90	15.00	52.44	15.37	YSF100E5G-V100	197.10	13.00	49.12	14.40
ZF40KVE-TW7 EVI	204.31	15.00	62.44	18.30						4HE-18Y	846.00	18.00	62.89	18.43	YSF125E5G-V100	243.90	15.00	59.71	17.50
<b>440-460V 3Phase 60Hz R404A</b>																			
ZF06K4E-TFD	34.02	2.00	6.55	1.92						2FES-2Y	109.62	2.00	6.76	1.98	YF13E1G-Q100	33.30	2.00	6.41	1.88
ZF08K4E-TFD	42.00	2.50	8.29	2.43						2EES-2Y	130.57	2.00	8.80	2.58	YF17E1G-Q100	41.90	2.50	8.20	2.40
ZF09K4E-TFD	46.21	3.00	9.25	2.71	LLZ013T4	67.40	4.00	11.94	3.50	2DES-2Y	154.29	2.00	10.75	3.15	YF20E1G-Q100	46.20	3.00	9.70	2.84
ZF13K4E-TFD	67.12	4.00	12.97	3.80	LLZ015T4	83.50	5.00	14.67	4.30	4FES-3Y	207.43	3.00	14.71	4.31	YF29E1G-Q100	67.60	4.00	14.61	4.28
ZF15K4E-TFD	82.59	5.00	16.21	4.75	LLZ018T4	97.60	6.00	17.40	5.10	4EES-4Y	261.14	4.00	17.11	5.01	YF35E1G-Q100	82.90	5.00	17.11	5.01
ZF18K4E-TFD	98.04	6.00	19.62	5.75	LLZ024T4	120.20	7.00	21.50	6.30	4DES-5Y	308.48	5.00	22.25	6.52	YF41E1G-Q100	97.60	6.00	20.65	6.05
ZF18KVE-TFD EVI	98.04	6.00	29.17	8.55						4CES-6Y	399.24	6.00	26.38	7.73	YSF60E1G-V100	115.50	7.00	28.77	8.43
										4TES-9Y	475.05	9.00	31.97	9.37	YSF65E1G-V100	123.00	8.00	30.64	8.98
ZF25KVE-TFD EVI	122.90	8.00	36.00	10.55						4PES-12Y	557.43	12.00	34.84	10.21	YSF75E1G-V100	145.40	9.00	36.23	10.62
ZF28KVE-TFD EVI	144.37	9.00	41.63	12.20						4NES-14Y	646.57	14.00	43.50	12.75	YSF85E1G-V100	167.20	10.00	41.67	12.21
ZF33KVE-TWD EVI	165.43	10.00	47.94	14.05											YSF90E1G-V100	189.10	12.00	47.12	13.81
										4JE-15Y	729.90	15.00	52.44	15.37	YSF100E1G-V100	197.10	13.00	49.12	14.40
ZF40KVE-TW7 EVI	204.31	15.00	62.44	18.30						4HE-18Y	846.00	18.00	62.89	18.43	YSF125E1G-V100	243.90	15.00	59.71	17.50

Copeland					DANFOSS					Bitzer					INVOTECH				
Model	Displ. cm³/rev	HP	Cooling Capacity Btu/h   Kw		Model	Displ. cm³/rev	HP	Cooling Capacity Btu/h   Kw		Model	Displ. cm³/rev	HP	Cooling Capacity Btu/h   Kw		Model	Displ. cm³/rev	HP	Cooling Capacity Btu/h   Kw	
<b>208-230V 3Phase 60Hz R22</b>																			
ZF06K4-TF5	34.02	2.00	6.12	1.80						2FES-2	109.62	2.00	6.86	2.01	YF13A7G-Q100	33.30	2.00	5.41	1.59
ZF08K4-TF5	42.00	2.50	7.78	2.28						2EES-2	130.57	2.00	7.88	2.31	YF17A7G-Q100	41.90	2.50	6.91	2.03
ZF09K4-TF5	46.21	3.00	8.80	2.58						2DES-2	154.29	2.00	9.59	2.81	YF20A7G-Q100	46.20	3.00	8.12	2.38
ZF13K4-TF5	67.12	4.00	12.62	3.70						4FES-3	207.43	3.00	12.22	3.58	YF29A7G-Q100	67.60	4.00	12.28	3.60
ZF15K4-TF5	82.59	5.00	15.53	4.55						4EES-4	261.14	4.00	15.80	4.63	YF35A7G-Q100	82.90	5.00	14.57	4.27
ZF18K4-TF5	98.04	6.00	18.25	5.35						4DES-5	308.48	5.00	19.24	5.64	YF41A7G-Q100	97.60	6.00	17.07	5.00
	119.94	6.00	21.84	6.40						4CES-6	399.24	6.00	24.36	7.14	YSF60A7G-V100	115.50	7.00	24.98	7.32
										4TES-9	475.05	9.00	29.92	8.77	YSF65A7G-V100	123.00	8.00	26.64	7.81
	165.43	10.00	31.05	9.10						4PES-12	557.43	12.00	34.67	10.16	YSF75A7G-V100	145.40	9.00	30.80	9.03
	204.31	9.00	37.36	10.95						4NES-14	646.57	14.00	40.33	11.82	YSF85A7G-V100	167.20	10.00	35.30	10.35
															YSF90A7G-V100	189.10	12.00	39.55	11.59
	245.74	15.00	42.82	12.55						4JE-15	729.90	15.00	43.33	12.70	YSF100A7G-V100	197.10	13.00	41.63	12.20
<b>380V 3Phase 60Hz R22</b>																			
	34.02	2.00	6.12	1.80						2FES-2	109.62	2.00	6.86	2.01	YF13A5G-Q100	33.30	2.00	5.41	1.59
	42.00	2.50	7.78	2.28						2EES-2	130.57	2.00	7.88	2.31	YF17A5G-Q100	41.90	2.50	6.91	2.03
	46.21	3.00	8.80	2.58						2DES-2	154.29	2.00	9.59	2.81	YF20A5G-Q100	46.20	3.00	8.12	2.38
ZF13K4-TF7	67.12	4.00	12.62	3.70						4FES-3	207.43	3.00	12.22	3.58	YF29A5G-Q100	67.60	4.00	12.28	3.60
ZF15K4-TF7	82.59	5.00	15.53	4.55						4EES-4	261.14	4.00	15.80	4.63	YF35A5G-Q100	82.90	5.00	14.57	4.27
ZF18K4-TF7	98.04	6.00	18.25	5.35						4DES-5	308.48	5.00	19.24	5.64	YF41A5G-Q100	97.60	6.00	17.07	5.00
ZF24K4-TW7	119.94	6.00	21.84	6.40						4CES-6	399.24	6.00	24.36	7.14	YSF60A5G-V100	115.50	7.00	24.98	7.32
										4TES-9	475.05	9.00	29.92	8.77	YSF65A5G-V100	123.00	8.00	26.64	7.81
ZF33K4-TW7	165.43	10.00	31.05	9.10						4PES-12	557.43	12.00	34.67	10.16	YSF75A5G-V100	145.40	9.00	30.80	9.03
ZF40K4-TW7	204.31	9.00	37.36	10.95						4NES-14	646.57	14.00	40.33	11.82	YSF85A5G-V100	167.20	10.00	35.30	10.35
															YSF90A5G-V100	189.10	12.00	39.55	11.59
ZF48K4-TW7	245.74	15.00	42.82	12.55						4JE-15	729.90	15.00	43.33	12.70	YSF100A5G-V100	197.10	13.00	41.63	12.20
										4HE-18	846.00	18.00	50.29	14.74	YSF125A5G-V100	243.90	15.00	52.04	15.25
<b>440-460V 3Phase 60Hz R22</b>																			
ZF06K4-TFD	34.02	2.00	6.12	1.80						2FES-2	109.62	2.00	6.86	2.01	YF13A1G-Q100	33.30	2.00	5.41	1.59
ZF08K4-TFD	42.00	2.50	7.78	2.28						2EES-2	130.57	2.00	7.88	2.31	YF17A1G-Q100	41.90	2.50	6.91	2.03
ZF09K4-TFD	46.21	3.00	8.80	2.58						2DES-2	154.29	2.00	9.59	2.81	YF20A1G-Q100	46.20	3.00	8.12	2.38
ZF13K4-TFD	67.12	4.00	12.62	3.70						4FES-3	207.43	3.00	12.22	3.58	YF29A1G-Q100	67.60	4.00	12.28	3.60
ZF15K4-TFD	82.59	5.00	15.53	4.55						4EES-4	261.14	4.00	15.80	4.63	YF35A1G-Q100	82.90	5.00	14.57	4.27
ZF18K4-TFD	98.04	6.00	18.25	5.35						4DES-5	308.48	5.00	19.24	5.64	YF41A1G-Q100	97.60	6.00	17.07	5.00
ZF24K4-TWD	119.94	6.00	21.84	6.40						4CES-6	399.24	6.00	24.36	7.14	YSF60A1G-V100	115.50	7.00	24.98	7.32
										4TES-9	475.05	9.00	29.92	8.77	YSF65A1G-V100	123.00	8.00	26.64	7.81
ZF33K4-TWD	165.43	10.00	31.05	9.10						4PES-12	557.43	12.00	34.67	10.16	YSF75A1G-V100	145.40	9.00	30.80	9.03
ZF40K4-TWD	204.31	9.00	37.36	10.95						4NES-14	646.57	14.00	40.33	11.82	YSF85A1G-V100	167.20	10.00	35.30	10.35
															YSF90A1G-V100	189.10	12.00	39.55	11.59
ZF48K4-TWD	245.74	15.00	42.82	12.55						4JE-15	729.90	15.00	43.33	12.70	YSF100A1G-V100	197.10	13.00	41.63	12.20
										4HE-18	846.00	18.00	50.29	14.74	YSF125A1G-V100	243.90	15.00	52.04	15.25



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