

50 HERTZ

PERFORMANCE NOMINALS

R22

THREE PHASE					220-3-50 (TF5/TW5) 380-3-50 (TFD/TWD)		TEST VOLTAGE		
MODEL	RATING CONDITION	CAPACITY			MOTOR WATTS	AMPERES*	ENERGY EFFICIENCY RATING		
		BTU HOUR	KCAL HOUR	WATTS			BTUH MOTOR WATTS	KCALH MOTOR WATTS	WATTS MOTOR WATTS
ZR84KC-TF5/D	A	71600	18000	21000	5990	19.7/11.4/-	12.0	3.0	3.5
	B	71000	17900	20800	6000	19.7/11.4/-	11.8	3.0	3.5
	C	83000	20900	24300	4210	16.2/9.4/-	19.7	5.0	5.8
ZR94KC-TF5/D	A	80100	20200	23500	6740	21.6/12.5/-	11.9	3.0	3.5
	B	79500	20000	23300	6750	21.6/12.5/-	11.8	3.0	3.5
	C	94000	23700	27500	4780	16.5/9.6/-	19.7	5.0	5.8
ZR108KC-TF5/D	A	90700	22900	26600	7530	23.7/13.7/-	12.0	3.0	3.5
	B	90000	22700	26400	7550	23.7/13.7/-	11.9	3.0	3.5
	C	106000	26700	31100	5350	18.5/10.7/-	19.8	5.0	5.8
ZR125KC-TF5/D	A	106800	26900	31300	8980	27.3/15.8/-	11.9	3.0	3.5
	B	106000	26700	31100	9000	27.3/15.8/-	11.8	3.0	3.5
	C	124000	31200	36300	6300	21.2/12.3/-	19.7	5.0	5.8
ZR144KC-TF5/D	A	121000	30500	35500	10080	30.4/17.6/-	12.0	3.0	3.5
	B	120000	30200	35200	10100	30.4/17.6/-	11.9	3.0	3.5
	C	142000	35800	41600	7150	23.1/13.4/-	19.9	5.0	5.8
ZR160KC-TW5/TFD/TWD	A	131000	33000	38400	11300	43.1/20.2/20.2	11.6	2.9	3.4
	B	130000	32800	38100	11300	43.1/20.2/20.2	11.5	2.9	3.4
	C	154000	38800	45100	8050	33.5/15.7/15.7	19.1	4.8	5.6
ZR190KC-TW5/TFD/TWD	A	156200	39400	45800	13600	53.4/25.6/25.6	11.5	2.9	3.4
	B	155000	39100	45400	13600	53.4/25.6/25.6	11.4	2.9	3.3
	C	184000	46400	53900	9750	42.8/20.5/20.5	18.9	4.8	5.5

* Ampere values shown are at 220 volts/380 volts/380 volts.

RATING CONDITION	RATING STANDARD	EVAPORATING TEMPERATURE °F/°C	CONDENSING TEMPERATURE °F/°C	AMBIENT TEMPERATURE °F/°C	LIQUID TEMPERATURE °F/°C	RETURN GAS TEMPERATURE °F/°C
A	ASRE/T	45	130	95	115	95
		7.2	54.4	35.0	46.1	35.0
B	ARI	45	130	95	115	65
		7.2	54.4	35.0	46.1	18.3
C	CHEER ★	45	100	95	85	65
		7.2	37.8	35.0	29.4	18.3

See expanded performance data on pages 22 to 32.

See full operating range on page 44.

Production compressors to meet above nominal performance values within ±5%.

MECHANICAL SPECIFICATIONS

MODEL	NOMINAL HP KW	IN ³ CM ³ CUBIC INCHES PER REVOLUTION CUBIC CENTIMETERS PER REVOLUTION	CFH M ³ /HR CUBIC FEET PER HOUR CUBIC METERS PER HOUR		COMPRESSOR NET WEIGHT WITH OIL POUNDS KILOGRAMS
			50 HERTZ 2900 RPM	60 HERTZ 3500 RPM	THREE PHASE
ZR84KC/KCE	7.0 5.22	6.931 113.6	697.9 19.8	842.3 23.8	126.0 57.2
ZR94KC/KCE	8.0 6.00	7.758 127.1	781.2 22.1	942.8 26.7	126.0 57.2
ZR108KC/KCE	9.0 6.71	8.721 142.9	878.2 24.9	1059.8 30.0	133.0 60.4
ZR125KC/KCE	10.0 7.50	10.198 167.1	1026.9 29.1	1239.3 35.1	135.0 60.4
ZR144KC/KCE	12.0 9.00	11.645 190.8	1172.6 33.2	1415.2 40.1	135.0 61.3
ZR160KC/KCE	14.0 10.44	12.760 209.1	1284.9 36.4	1550.7 43.9	139.0 63.1
ZR190KC/KCE	16.0 11.94	15.202 249.1	1530.8 43.3	1847.5 52.3	143.0 64.9

ELECTRICAL SPECIFICATIONS

VOLTAGE CODE	TF5		TF7		TFD		TFE	
NOMINAL VOLTAGE- PHASE-HERTZ	200/220-3-50 200/230-3-60		380-3-60		380/420-3-50 460-3-60		575-3-60	
VOLTAGE RANGE								
50 HERTZ	180-242		-		342-462		-	
60 HERTZ	180-253		342-418		414-506		518-633	
MODEL	TF5		TF7		TFD		TFE	
	RATED LOAD AMPS RLA	LOCKED ROTOR AMPS LRA	RATED LOAD AMPS RLA	LOCKED ROTOR AMPS LRA	RATED LOAD AMPS RLA	LOCKED ROTOR AMPS LRA	RATED LOAD AMPS RLA	LOCKED ROTOR AMPS LRA
ZR84KC/KCE	28.6	196	15.7	135	14.2	100	9.7	90
ZR94KC/KCE	32.1	203	16.7	123	16.4	95	12.0	80
ZR108KC/KCE	33.6	231	18.6	140	17.3	114	13.5	80
ZR125KC/KCE	42.0	239	23.5	145	19.2	125	13.8	80
ZR144KC/KCE	47.1	273	24.4	145	19.6	125	15.8	100
ZR160KC/KCE	53.6	300	28.6	139	25.0	150	20.7	109
ZR190KC/KCE	58.6	340	35.7	196	30.0	179	23.6	132

NOTES:

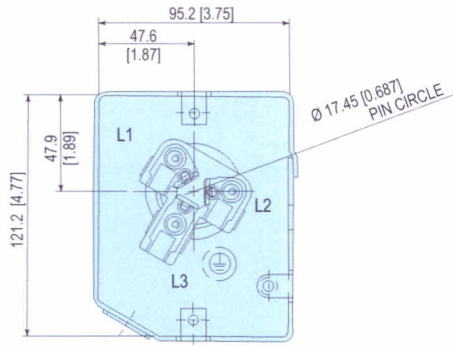
1. NOMINAL DIMENSIONS ARE SHOWN. ALL TOLERANCES ARE ± 1.50 [0.060] UNLESS OTHERWISE SPECIFIED.
2. DUE TO THE ACCUMULATED ASSEMBLY TOLERANCES, THE SUCTION AND DISCHARGE FITTINGS VARY FROM THE MOUNTING HOLES BY ± 3.0 [0.12].
3. STUB TUBE AND ROTALOCK FITTINGS ARE SHOWN. BILLS OF MATERIAL PAGE 13 SHOWS B/M NUMBERS FOR EACH TYPE OF FITTING.
4. OIL EQUALIZATION FITTING INCLUDED ON TANDEM-READY BILLS OF MATERIAL ONLY.
5. LINEAR MEASUREMENTS IN [] ARE INCH CONVERSIONS.

THIRD ANGLE PROJECTION

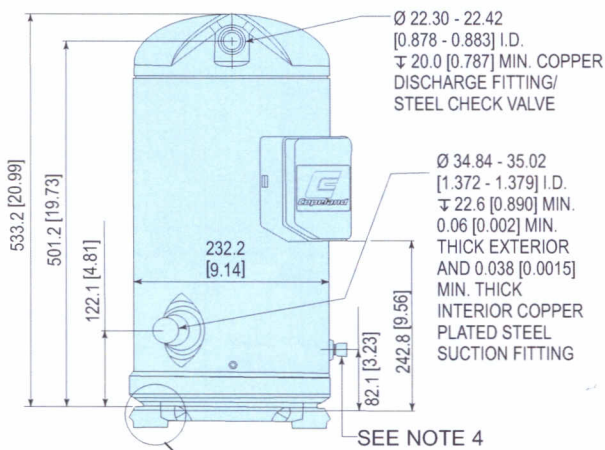
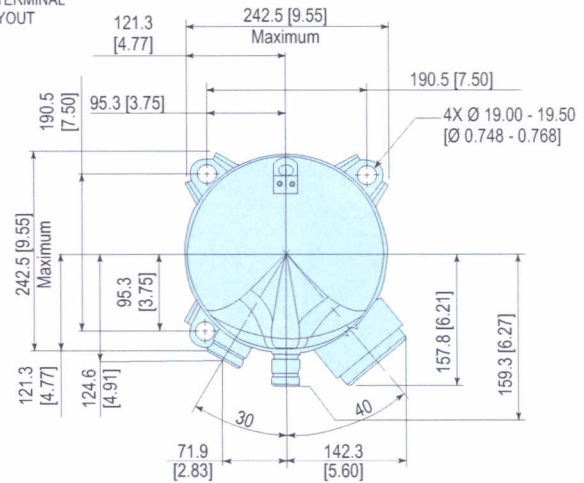
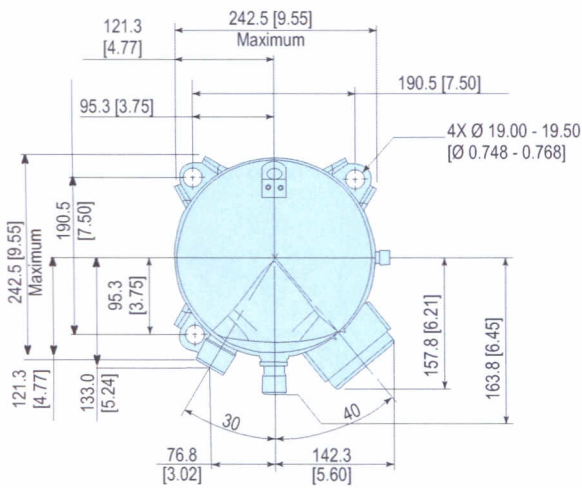


DIMENSIONAL INFORMATION

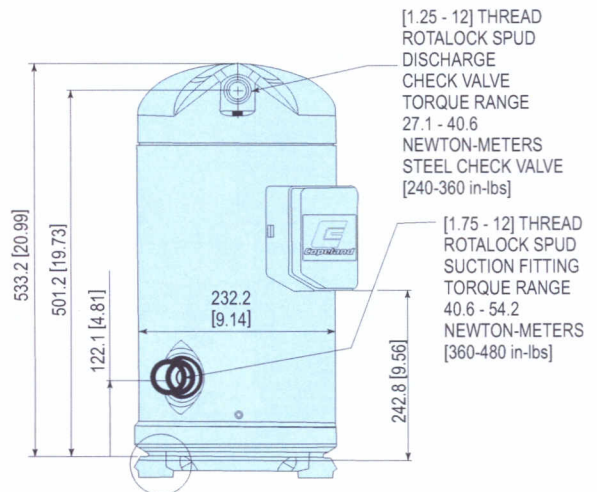
MODEL NUMBER	INTERNAL FREE VOLUME CM ³ [IN. ³] EXCLUDING OIL CHARGE
ZR108	13257 [809]
ZR125	13257 [809]
ZR144	13257 [809]



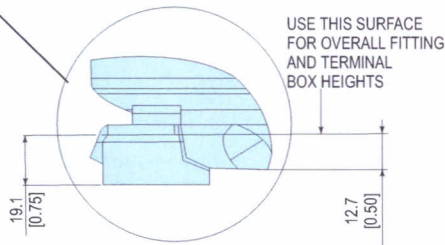
STANDARD TERMINAL BOX LAYOUT



SEE NOTE 4



Available
Optional
Fittings



FOR THE INTERNATIONAL MARKET
ZR108 TO ZR144
HEAT PUMP AND
AIR CONDITIONING MODELS