

Rating Conditions

18.3 °C Return Gas
 0 K Subcooling
 35 °C Ambient Air Over
 50 Hz Operation

MEDIUM TEMPERATURE

Blue Area Restrictions: 8.3°C Min Superheat

ZB95KQE-TFD

HFC-404A
 COPELAND SCROLL®
 TFD 380/420-3-50

Condensing Temperature °C (Sat. Dew Pt. Pressure, bar) Evaporating Temperature °C (Sat. Dew Pt. Pressure, bar)

	-30.0 (2)	-25.0 (2.5)	-20.0 (3)	-15.0 (3.6)	-10.0 (4.3)	-5.0 (5.1)	-2.0 (5.6)
60.0 (28.7)						17,850	20,200
C						15,000	14,950
P						25.9	25.9
A						201	230
M						1.2	1.4
E						52.4	55.7
%							
50.0 (23)				15,500	19,500	23,700	26,400
C				11,950	11,900	11,950	11,950
P				21.2	21.3	21.3	21.4
A				139	177	219	246
M				1.3	1.6	2.0	2.2
E				51.8	58.1	62.5	64.4
%							
40.0 (18.1)			15,600	19,550	23,800	28,500	31,700
C			9,400	9,430	9,500	9,590	9,650
P			17.6	17.7	17.8	17.9	18.0
A			120	152	187	227	253
M			1.7	2.1	2.5	3.0	3.3
E			56.4	62.4	66.2	68.2	68.7
%							
30.0 (14.1)	11,200	14,750	18,550	22,700	27,400	32,700	36,300
C	7,400	7,390	7,440	7,540	7,670	7,810	7,890
P	15.0	15.0	15.0	15.2	15.3	15.5	15.6
A	76	101	127	157	191	230	257
M	1.5	2.0	2.5	3.0	3.6	4.2	4.6
E	50.9	59.3	64.7	67.8	69.0	68.4	67.3
%							
20.0 (10.8)	13,450	16,900	20,800	25,300	30,500		
C	5,800	5,860	5,970	6,120	6,290		
P	13.0	13.1	13.2	13.4	13.6		
A	83	104	129	158	192		
M	2.3	2.9	3.5	4.1	4.9		
E	60.6	65.2	67.4	67.5	65.6		
%							
10.0 (8.2)	15,100	18,550	22,700	27,700			
C	4,610	4,720	4,880	5,050			
P	11.8	11.9	12.1	12.2			
A	85	105	129	158			
M	3.3	3.9	4.7	5.5			
E	64.7	65.4	64.1	60.6			
%							
0.0 (6)	16,550	20,200					
C	3,700	3,840					
P	11.0	11.1					
A	86	106					
M	4.5	5.3					
E	63.3	59.8					
%							
(5.0) (5.1)	17,350						
C	3,300						
P	10.6						
A	87						
M	5.3						
E	60.6						
%							
(9.0) (4.5)	18,050						
C	3,000						
P	10.4						
A	88						
M	6.0						
E	57.5						
%							

C: Capacity (W), P: Power (W), A: Current (Amps), M: Mass Flow (gm/s), E: COP, %: Isentropic Efficiency (%)

Nominal Performance Values (±5%) based on 72 hours run-in. Subject to change without notice. Current @ 380 V

ZB95KQE-TFD

HFC, R-404A, 50 Hz, 3 - Phase, 380/420 V . [Also Available with Variable Frequency Drives](#)

Medium Temp, Low Condensing

Production Status: Preliminary data only - Contact your Emerson Climate Technologies Representative.

Performance			Mechanical	
Evaporator Temp. (°C)	-7	7	Displacement (cm ³ /Rev):	209.10
Condensing Temp. (°C)	49	54	Displacement (m ³ /Hr):	
Return Gas Temp. (°C)	18	18	Overall Length (mm):	263.65
Liquid Temp. (°C)	49	21	Overall Width (mm):	285.24
Capacity (Watts)	22830	32677	Overall Height (mm):	564.13
Power (W):	11650	13200	Mounting Length (mm):	190.50
Current (Amps):	20.85	23.25	Mounting Width (mm):	190.50
EER(BTU/Wh):	11.38	14.36	Mounting Height (mm):	584.71
Mass Flow (lbs/hr):	207.27	341.45	Suction Size (mm),Type:	330.20 / 203.20 Stub
Sound Data @			Discharge Size (mm),Type:	177.80 / 203.20 Stub
Sound Power (dBA):	79 Avg	84 Max	Initial Oil Charge (ml):	3371.44
Vibration mils(peak-peak):	3.0 Avg	4.5 Max	Oil Recharge (ml):	3134.84
Record Date:	2013-10-09		Net Weight (kg):	64.86
			Internal Free Volume (cm ³):	14027.27
			Horse Power:	13.0
*Overall compressor height on Copeland Brand Product's specified mounting grommets.				

Electrical		Capacitors					
LRA High* (Amps):		Type	Part No	Low MFD	High MFD	Volts	User Description
	140.0	No data available in table					
LRA Low*(Amps):	133.0						
LRA Half Winding (Amps):							
MCC (Amps):	35						
Max Operating Current (Amps):	31.0						
RLA, MCC/1.4(use for contactor selection)(Amps):	25.0						
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	22.4						
RPM:	2900						
Box IP :	21						
UL File No:							
UL File Date:							

*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.

Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
R-134a HFC	380/420	3	50	High Temp
R-134a HFC	460	3	60	High Temp
R-404A HFC	460	3	60	Medium Temp, Low Condensing
R-507 HFC	460	3	60	Medium Temp, Low Condensing
R-507 HFC	380/420	3	50	Medium Temp, Low Condensing