

Rating Conditions

-17.8 °C Return Gas
 0 K Subcooling
 -17.8 °C Ambient Air Over

50 Hz Operation

MEDIUM TEMPERATURE

Blue Area Restrictions: 11°C Max
 Superheat

ZB15KQE-PFJ

HFC-404A
 COPELAND SCROLL®
 PFJ 220/240-1-50

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

	-23.0 (2.7)	-20.0 (3)	-15.0 (3.6)	-10.0 (4.3)	-5.0 (4.3)	0.0 (4.3)	5.0 (4.3)	7.0 (4.3)
60.0 (28.7) C P A M E %								
55.0 (25.7) C P A M E %								
50.0 (23) C P A M E %								
45.0 (20.4) C P A M E %	2,020 1,930 9.3 22 1.1 49.0	2,295 1,930 9.3 26 1.2 51.7	2,295 1,930 9.3 26 1.2 51.7	2,295 1,930 9.3 26 1.2 51.7	2,295 1,930 9.3 26 1.2 51.7	2,295 1,930 9.3 26 1.2 51.7	2,295 1,930 9.3 26 1.2 51.7	2,295 1,930 9.3 26 1.2 51.7
40.0 (18.1) C P A M E %	2,210 1,720 8.5 22 1.3 51.6	2,500 1,720 8.5 26 1.5 54.2	2,500 1,720 8.5 26 1.5 54.2	2,500 1,720 8.5 26 1.5 54.2	2,500 1,720 8.5 26 1.5 54.2	2,500 1,720 8.5 26 1.5 54.2	2,500 1,720 8.5 26 1.5 54.2	2,500 1,720 8.5 26 1.5 54.2
35.0 (16.1) C P A M E %	2,385 1,530 7.9 22 1.6 54.0	2,700 1,540 7.9 26 1.8 56.4	2,700 1,540 7.9 26 1.8 56.4	2,700 1,540 7.9 26 1.8 56.4	2,700 1,540 7.9 26 1.8 56.4	2,700 1,540 7.9 26 1.8 56.4	2,700 1,540 7.9 26 1.8 56.4	2,700 1,540 7.9 26 1.8 56.4
25.0 (12.4) C P A M E %	2,715 1,220 6.8 22 2.2 57.7	3,050 1,220 6.9 25 2.5 59.5	3,050 1,220 6.9 25 2.5 59.5	3,050 1,220 6.9 25 2.5 59.5	3,050 1,220 6.9 25 2.5 59.5	3,050 1,220 6.9 25 2.5 59.5	3,050 1,220 6.9 25 2.5 59.5	3,050 1,220 6.9 25 2.5 59.5
15.0 (9.4) C P A M E %	3,050 972 6.2 22 3.1 58.8	3,400 976 6.2 25 3.5 59.5	3,400 976 6.2 25 3.5 59.5	3,400 976 6.2 25 3.5 59.5	3,400 976 6.2 25 3.5 59.5			
10.0 (8.2) C P A M E %	3,200 870 5.9 22 3.7 57.9	3,600 874 6.0 25 4.1 57.9	3,600 874 6.0 25 4.1 57.9	3,600 874 6.0 25 4.1 57.9				

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 @ 220 V

ZB15KQE-PFJ

HFC, R-404A, 50 Hz, 1 - Phase, 220/240 V

Medium Temperature

Production Status: Asia Use Only

Performance			Mechanical	
Evaporator Temp. (°C)	-7	7	Displacement (cm ³ /Rev):	34.09
Condensing Temp. (°C)	49	54	Displacement (m ³ /Hr):	
Return Gas Temp. (°C)	18	18	Overall Length (mm):	241.30
Liquid Temp. (°C)	49	54	Overall Width (mm):	241.30
Capacity (Watts)	3575	5129	Overall Height (mm):	382.02
Power (W):	2120	2380	Mounting Length (mm):	190.50
Current (Amps):	9.9	10.9	Mounting Width (mm):	190.50
EER(BTU/Wh):	9.68	12.40	Mounting Height (mm):	387.86
Mass Flow (lbs/hr):	32.13	53.93	Suction Size (mm),Type:	76.20 / 101.60 Stub
Sound Data @			Discharge Size (mm),Type:	25.40 / 50.80 Stub
Sound Power (dBA):	66 Avg	71 Max	Initial Oil Charge (ml):	1301.26
Vibration mils(peak-peak):	2.0 Avg	3.0 Max	Oil Recharge (ml):	1182.96
Record Date:	2020-04-26		Net Weight (kg):	28.12
			Internal Free Volume (cm ³):	2834.95
			Horse Power:	2.0

*Overall compressor height on Copeland Brand Product's specified mounting grommets.

Electrical		Capacitors					
		Type	Part No	Low MFD	High MFD	Volt s	User Description
LRA High* (Amps):	58.0						
LRA Low*(Amps):	53.0	Run Capacitor	014-0064-08	40.0	0.0	370	
LRA Half Winding (Amps):							
MCC (Amps):	18.5	Run Capacitor	014-0064-14	40.0	0.0	440	
Max Operating Current (Amps):	12.8	Start Capacitor	014-0061-27	88.0	106.0	330	OPTIONAL
RLA, MCC/1.4(use for contactor selection)(Amps):	13.2						
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	11.9						
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	220/240	1	50	High Temp
R-134a HFC	265	1	60	High Temp
R-404A HFC	265	1	60	Medium Temperature
R-448A HFO	220/240	1	50	Medium Temperature
R-448A HFO	265	1	60	Medium Temperature