

ZP182KQE-TFD

HFC, R-410A, 60 Hz, 3 - Phase, 460 V , [Also Available with Variable Frequency Drives](#)

Air Conditioning

Production Status: Non U.S. model with restricted sales - Contact your Copeland Representative.

Summary

Performance		
Evaporator Temp. (°F)	45.00	45
Condensing Temp. (°F)	130.00	100
Return Gas Temp. (°F)	65.00	65
Liquid Temp. (°F)	115.00	85
Capacity (BTU/hr)	183000	223000
Power (W):	16300	12000
Current (Amps):	26.2	21.3
EER(BTU/Wh):	11.2	18.5
Mass Flow (lbs/hr):	2690	2750
Sound Data @		
Sound Power (dBA):	80 Avg	85 Max
Vibration mils(peak-peak):	3.0 Avg	4.5 Max
Record Date:	2009-04-14	
Mechanical		
Displacement (in^3/Rev):	10.20	
Displacement (ft^3/Hr):		
Overall Length (in):	10.40	
Overall Width (in):	11.20	
Overall Height (in):	21.70	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	
Mounting Height (in):	23.00	

Suction Size (in),Type:	1 3 / 8 Stub
Discharge Size (in),Type:	7 / 8 Stub
Initial Oil Charge (oz):	114
Oil Recharge (oz):	110
Oil Type:	3MA
Net Weight (lbs):	146.0

Internal Free Volume (in^3):

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

Electrical

LRA High* (Amps):	179
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	41
Max Operating Current (Amps):	34.00
RLA, MCC/1.4(use for contactor selection)(Amps):	29.3
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	26.3
RPM:	3500
Box IP :	21
UL File No:	SA2337-19960927
UL File Date:	1996-09-27
European Pressure Equipment Directive (PED):	
Fluid Group**:	FG 2
PS Low / High Side (BAR):	29.5 / 45.0
TS Min (°C):	-35 / -35
TS Max (°C):	50 / 150
Volume (L) :	1.5 / 12.9

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

**Fluid Group 1 comprises dangerous fluids defined as: Explosive, extremely flammable, high flammable, very toxic, toxic, oxidizing.

Fluid Group 2 is for non-dangerous fluids defined as: non-explosive, non-toxic, non-flammable.

Capacitors

Type	Part No	Low MFD	High MFD	Volts	User Description
No data available in table					
Alternate Applications					
Refrigerant	Voltage	Phase	Frequency	Application	
R-410A HFC	380/420	3	50	Air Conditioning	

Service Parts

Service Parts				
Reference	Component	Quantity	Description	Comment
No data available in table				

Accessories

Accessories		
Category	Part Number	Description
(1) Variable Frequency Drive	EVH-322031-R21BEN	Copeland EVH VFD , 10 HP, 230 VAC, 3Ø, 31A, With DC link Choke & Add on EMI filter, Removeable LCD Display, IP21, BACnet/Modbus
(1) Variable Frequency Drive	EVH-322031-R54BEN	Copeland EVH VFD , 10 HP, 230 VAC, 3Ø, 31A, With DC link Choke & Add on EMI filter, Removeable LCD Display, IP54, BACnet/Modbus
(1) Variable Frequency Drive	EVH-322031-R21BDN	Copeland EVH VFD , 10 HP, 230 VAC, 3Ø, 31A, With DC link Choke (Standard EVH), Removeable LCD Display, IP21, BACnet/Modbus
(1) Variable Frequency Drive	EVH-322031-R54BDN	Copeland EVH VFD , 10 HP, 230 VAC, 3Ø, 31A, With DC link Choke (Standard EVH), Removeable LCD Display, IP54, BACnet/Modbus
(1) Variable Frequency Drive	EVH-322031-R54BDB	Copeland EVH VFD , 10 HP, 230 VAC, 3Ø, 31A, With DC link Choke (Standard EVH), Removeable LCD Display, IP54, BACnet/Modbus
(1) Variable Frequency Drive	EVH-322031-R21BDB	Copeland EVH VFD , 10.0 HP, 230 VAC, 3Ø, 31A, With DC link Choke (Standard EVH), Removeable LCD Display, IP21, BACnet/Modbus

Category	Part Number	Description
(1) Variable Frequency Drive	EVH-344031-R21BEN	Copeland EVH VFD , 20 HP, 400 VAC, 3Ø, 31A, With DC link Choke & Add on EMI filter, Removeable LCD Display, IP21, BACnet/Modbus
(1) Variable Frequency Drive	EVH-344031-R54BEN	Copeland EVH VFD , 20 HP, 400 VAC, 3Ø, 31A, With DC link Choke & Add on EMI filter, Removeable LCD Display, IP54, BACnet/Modbus
(1) Variable Frequency Drive	EVH-344031-R54BDB	Copeland EVH VFD , 20 HP, 400 VAC, 3Ø, 31A, With DC link Choke (Standard EVH), Removeable LCD Display, IP54, BACnet/Modbus
(1) Variable Frequency Drive	EVH-344031-R54BDN	Copeland EVH VFD , 20 HP, 400 VAC, 3Ø, 31A, With DC link Choke (Standard EVH), Removeable LCD Display, IP54, BACnet/Modbus

Electrical Components

Electrical Components

Nomenclature

ZP182KQE-TFD
Family Series Z: Scroll
Application Range P: A/C - R-410A/B
Capacity 182K: Capacity Multiplier-1000
Model Variation Q: Model Variation
Oil Type E: Polyol Ester
Motor Type T: 3 Phase
Motor Protection F: Internal Inherent Protection
Voltage D: 60Hz (460-3) 50Hz (380/420-3)

Miscellaneous

Alternate Application				
Refrigerant	Freq	Phase	Voltage	Application
HFC R-410A	50	3 Ø	380/420 V	R1 AC
Nomenclature				
ZP182KQE-TFD				

Bill-of-Materials

ZP182KQE-TFD - BILL OF MATERIALS

405 - Common U.S. OEM Bill Of Materials

Suction Connection	Stub
Suction Size	1 3/8"
Discharge Connection	Stub
Discharge Size	7/8"
Electrical Connection	Terminal Block
Mounting Assembly	Not Available
Sight Glass	
Crankcase Heater	
Schrader Valve	
Tandem Ready	Yes
Module Voltage	
Reference Drawing	497-1901-05_004.pdf

425 - Common U.S. OEM Bill Of Materials

Suction Connection	Stub
Suction Size	1 3/8"
Discharge Connection	Stub
Discharge Size	7/8"
Electrical Connection	
Mounting Assembly	Not Available
Sight Glass	

Crankcase Heater	
Schrader Valve	Available
Tandem Ready	Yes
Module Voltage	
Reference Drawing	497-0878-02-01.v01.pdf

455 - Common U.S. OEM Bill Of Materials

Suction Connection	Stub
Suction Size	1 3/8"
Discharge Connection	Stub
Discharge Size	7/8"
Electrical Connection	
Mounting Assembly	Not Available
Sight Glass	
Crankcase Heater	
Schrader Valve	Available
Tandem Ready	Yes
Module Voltage	
Reference Drawing	497-1652-02_005.pdf

477 - Common U.S. OEM Bill Of Materials

Suction Connection	Stub
Suction Size	1 3/8"
Discharge Connection	Stub
Discharge Size	7/8"
Electrical Connection	
Mounting Assembly	Not Available
Sight Glass	
Crankcase Heater	
Schrader Valve	Available
Tandem Ready	Yes
Module Voltage	

