ZRU178KCE-TFD

Overall Height (in):

Mounting Length (in):

Mounting Width (in):

Mounting Height (in):

20.50

19.80

10.00

20.90

HCFC, R-22, 50 Hz, 3 - Phase, 380/420 V

Air Conditioning

Production Status: Available for sale to all U.S. customers. Please check with your local Copeland Representative for international availability.

Summary

		Performance		
Evaporator Temp. (°F)		4	15.00	35
Condensing Temp. (°F)		1	30.00	120
Return Gas Temp. (°F)		6	65.00	55
Liquid Temp. (°F)		1	15.00	105
Capacity (BTU/hr)		1	49500	129500
Power (W):		1	2850	11350
Current (Amps):		2	24	21.8
EER(BTU/Wh):		1	1.6	11.4
Mass Flow (lbs/hr):		2	2190	1835
Sound Data @				
Sound Power (dBA):		8	30 Avg	85 Max
Vibration mils(peak-peak):		2	2.5 Avg	4.0 Max
Record Date:		2	2016-06-20	
		Mechanical		
Displacement (in^3/Rev):	14.69			
Displacement (ft^3/Hr):		_		
Overall Length (in):	29.40			
Overall Width (in):	17.10			

efrigerant		tage	Phase	Frequency	Application
		A	Alternate Applic	ations	
o data availabl	e in table				
ype	Part No	Low MFD	High MFD	Volts	User Description
			Capacitors	6	
w and High ref	er to the low an	d high nominal vo	oltage ranges for	which the motor is	approved.
L File Date:				1996-09- 27	
L File No:				SA-2337	
ox IP :					
PM:				2900	
LA, MCC/1.56	(use for breake	er & wire size sel	ection)(Amps):		
LA, MCC/1.4(ເ	use for contact	or selection)(An	nps):	1.0	
lax Operating	Current (Amps	s):			
ICC (Amps):					
RA Half Windi	ng (Amps):				
RA Low*(Amp	s):				
RA High* (Am	ps):				
verali compress	or neight on oc	ревана Бтана Рт	Electrical	I mounting gromme	513.
nternal Free Vo		are aloned Dressed Dre			
et Weight (lbs		270.6			
il Type:					
il Recharge (o	z):	162			
nitial Oil Charg	e (oz):	170			
	(),),	13/83(0)			
ischarge Size	(in),Type:	13/8 Stub			

Service Parts				
Reference	Component	Quantity	Description	Comment
99	527-0177-00	1	SPACER-MOUNTING KIT	
99	918-0047-00	2	HEATER-CRANKCASE	120V 90W WRAP AROUND
99	918-0047-01	2	HEATER-CRANKCASE	240V 90W WRAP AROUND
99	918-0047-02	2	HEATER-CRANKCASE	480V 90W WRAP AROUND
99	ZR84KCE-TFD-950	1	WELD COMP	
99	ZR94KCE-TFD-950	1	WELD COMP	

Accessories

Accessories		
Category	Part Number	Description
Miscellaneous	020- 0028- 02	1 1/4" - 12 discharge valve seal
Service Valves and Adapters	510- 0330- 01	1 1/8" suction valve (solder)
Miscellaneous	020- 0028- 03	1 3/4" - 12 valve seal
Service Valves and Adapters	510- 0080- 04	3/4" discharge valve (solder)
Service Valves and Adapters	510- 0080- 07	7/8" discharge valve (solder)
Service Valves and Adapters	510- 0330- 00	Discharge Valve-Rotalock Assm
Service Valves and Adapters	998- 0510- 46	Service Valve Kit, 1 3/4"-12 Thread to 1 3/8" Sweat
Service Valves and Adapters	998- 5100-27	Service Valve Kit, 1 3/4"-12 Thread to 1 3/8" Sweat and 1 1/4"-12 Thread to 7/8" Sweat

Category	Part Number	Description
Service Valves and Adapters	998- 0510- 38	Service Valve Kit, Includes 3/4" Rotalock Service Valve and 1 1/4"-12 Valve Seal
Service Valves and Adapters	998- 5100- 24	Suction & Discharge Valve Kit, includes rotalock suction and discharge service valves and seals. 1 1/8" Suction Valve, 3/4" Discharge Valve, 1 3/4" - 12 Suction Valve Seal, 1 1/4" - 12 Discharge Valve Seal

Electrical Components

No associated data for this model.

Nomenclature

ZRU178KCE-TFD

Family Series

Z: Scroll

Application Range

R: A/C - R-22/407C/134a

Modulation

U: Uneven Tandem

U: Uneven Tandem

Capacity

178K: Capacity Multiplier-1000

Model Variation

C: Model Variation

Oil Type

E: Polyol Ester

Miscellaneous

Alternate Application	
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Refrigerant	Freq	Phase	Voltage	Application
HCFC R-22	60	3 Ø	460 V	AC

Tandem Component Compressors

ZR84KCE-TFD

ZR94KCE-TFD

Bill-of-Materials

ZRU178KCE-TFD - BILL OF MATERIALS

272 - Common U.S. OEM Bill Of Materials

Suction Connection	Stub
Suction Size	1 5/8"
Discharge Connection	Stub
Discharge Size	1 3/8"
Electrical Connection	Terminal Block
Mounting Assembly	Available
Sight Glass	
Crankcase Heater	
Schrader Valve	
Tandem Ready	
Module Voltage	
Reference Drawing	497-0537-00-01.v01.pdf

275 - Common U.S. OEM Bill Of Materials

Suction Connection	Stub
Suction Size	1 5/8"
Discharge Connection	Stub
Discharge Size	1 3/8"
Electrical Connection	Terminal Block
Mounting Assembly	Available
Sight Glass	
Crankcase Heater	
Schrader Valve	
Tandem Ready	
Module Voltage	

Reference Drawing	497-0537-04-01.v01.pdf	

975 - Common U.S. Service Bill Of Materials

Suction Connection	Stub
Suction Size	1 5/8"
Discharge Connection	Stub
Discharge Size	1 3/8"
Electrical Connection	Terminal Block
Mounting Assembly	Available
Sight Glass	
Crankcase Heater	
Schrader Valve	
Tandem Ready	
Module Voltage	
Reference Drawing	497-0537-04-01.v01.pdf



