ZP67KCE-TFD

HFC, R-410A, 50 Hz, 3 - Phase, 380/420 V , Also Available with Variable Frequency Drives

Air Conditioning

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

Performance

Evaporator Temp. (°C)	7	7
Condensing Temp. (°C)	54	38
Return Gas Temp. (°C)	18	18
Liquid Temp. (°C)	46	29
Capacity (Watts)	16119	19929
Power (W):	5200	3570
Current (Amps):	9.1	6.8
EER(BTU/Wh):	18.01	32.28
Mass Flow (lbs/hr):	102.06	105.84
Sound Data @		
Sound Power (dBA):	72 Avg	77 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2004-03-02	

Mechanical

Displacement (cm^3/Rev):	62.93
Displacement (m^3/Hr):	
Overall Length (mm):	246.13
Overall Width (mm):	246.13
Overall Height (mm):	454.91
Mounting Length (mm):	190.50
Mounting Width (mm):	190.50
Mounting Height (mm):	461.26
Suction Size (mm),Type:	177.80 / 203.20 Stub
Discharge Size (mm),Type:	25.40 / 50.80 Stub
Initial Oil Charge (ml):	1774.44
Oil Recharge (ml):	1656.14
Net Weight (kg):	39.92
Internal Free Volume (cm^3):	4334.36
Horse Power:	

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

Electrical

LRA High* (Amps):	74.0
LRA Low*(Amps):	67.0
LRA Half Winding (Amps):	
MCC (Amps):	16.5
Max Operating Current (Amps):	13.0
RLA, MCC/1.4(use for contactor selection)(Amps):	11.8
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	10.6
RPM:	2900
Box IP :	21
UL File No:	
UL File Date:	1993-07-26

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

Capacitors

Type	Part No	Low MFD	High MFD	Volts	User Description

No data available in table

Alternate Applications

Rating Conditions

11.1 K Superheat

8.3 K Subcooling

35 °C Ambient Air Over

50 Hz Operation

AIR CONDITIONING

ZP67KCE-TFD

HFC-410A

COPELAND SCROLL®

TFD 380/420-3-50

Condensing Temperature °C (Sat. Dew Pt. Pressure, bar)		Evaporating Temperature °C (Sat. Dew Pt. Pressure, bar)											
		-28.9 (2.8)	**-23.3** (3.5)	**-17.8** (4.3)	**-12.2** (5.3)	**-6.7** (6.4)	**-1.1** (7.7)	**4.4** (9.2)	**10.0** (10.8)	**15.6** (12.8)	**21.1** (14.9)	**23.9** (16)	**26.7** (17.3)
65.6 (43.3)	C							11,650	14,550	17,800			
	P							6,700	6,700	6,700			
	A							11.4	11.4	11.4			
	M							87	108	130			
	E							1.7	2.2	2.7			
	%							60.1	65.3	68.7			
60.0 (38.3)	C						10,450	13,150	16,200	19,600	23,400	25,400	27,500
	P						5,950	5,900	5,900	5,900	5,900	5,900	5,900
	A						10.2	10.2	10.2	10.2	10.2	10.3	10.3
	M						73	90	110	131	155	168	181
	E						1.8	2.2	2.7	3.3	4.0	4.3	4.7
	%						59.1	64.7	68.7	70.8	70.7	69.8	68.3
54.4 (33.9)	C					9,150	11,700	14,550	17,800	21,400	25,300	27,500	29,800
	P					5,200	5,200	5,200	5,200	5,200	5,200	5,200	5,250
	A					9.1	9.1	9.1	9.1	9.1	9.2	9.3	9.3
	M					60	76	93	112	133	156	169	182
	E					1.8	2.3	2.8	3.4	4.1	4.9	5.3	5.7
	%					57.8	64.1	68.6	71.3	71.8	69.9	68.0	65.4
48.9 (29.9)	C				7,900	10,200	12,850	15,800	19,200	23,000	27,100	29,400	32,000
	P				4,590	4,590	4,590	4,590	4,590	4,600	4,620	4,630	4,660
	A				8.2	8.2	8.2	8.2	8.2	8.3	8.3	8.4	8.5
	M				49	62	78	94	113	134	157	170	183
	E				1.7	2.2	2.8	3.4	4.2	5.0	5.9	6.4	6.8
	%				56.2	62.9	68.1	71.4	72.6	71.3	67.2	64.0	60.0
43.3 (26.2)	C			6,750	8,800	11,150	13,900	17,000	20,500	24,500	28,900	31,500	
	P			4,020	4,030	4,040	4,040	4,040	4,040	4,060	4,090	4,120	
	A			7.4	7.4	7.4	7.4	7.4	7.4	7.5	7.6	7.7	
	M			40	51	64	79	96	114	135	158	171	
	E			1.7	2.2	2.8	3.5	4.2	5.1	6.0	7.1	7.6	
	%			54.5	61.5	67.1	71.0	72.8	72.2	68.5	61.7	57.0	
37.8 (22.9)	C		5,750	7,500	9,600	12,050	14,900	18,100	21,800	26,000			
	P		3,520	3,540	3,550	3,560	3,560	3,560	3,580	3,610			
	A		6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.9			
	M		33	42	53	66	80	96	115	136			
	E		1.6	2.1	2.7	3.4	4.2	5.1	6.1	7.2			
	%		53.1	59.9	65.7	70.0	72.5	72.4	69.5	63.0			
26.7 (17.3)	C	5,550	7,000	8,800	11,000	13,600	16,700	20,200	24,300				
	P	2,700	2,720	2,740	2,750	2,760	2,780	2,800	2,840				
	A	5.6	5.7	5.7	5.7	5.7	5.7	5.8	5.8				
	M	29	36	45	55	67	82	98	117				
	E	2.1	2.6	3.2	4.0	4.9	6.0	7.2	8.6				
	%	59.3	63.5	67.4	70.3	71.1	69.3	64.1	54.7				
21.1 (14.9)	C	6,100	7,550	9,400	11,650	14,300	17,500	21,200					
	P	2,360	2,390	2,410	2,420	2,440	2,460	2,500					
	A	5.2	5.3	5.3	5.3	5.3	5.4	5.4					
	M	31	37	46	56	68	82	98					
	E	2.6	3.2	3.9	4.8	5.9	7.1	8.5					
	%	64.7	67.1	69.2	70.0	68.5	63.7	54.9					
10.0 (10.8)	C	7,150	8,600	10,450	12,850	15,700							
	P	1,810	1,840	1,860	1,890	1,920							
	A	4.7	4.7	4.7	4.7	4.8							
	M	33	39	47	57	69							
	E	4.0	4.7	5.6	6.8	8.2							
	%	72.3	70.1	67.4	62.5	54.3							

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

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