

# ZS09KAE-TF5

HFC, R-404A, 60 Hz, 3 -Phase, 200/230 V  
Medium Temperature



**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. (°F)	20	45
Condensing Temp. (°F)	120	130
Return Gas Temp. (°F)	65	65
Liquid Temp. (°F)	120	130
Capacity (Btu/hr)	9340	13150
Power (W):	1430	1575
Current (Amps):	4.70	5.20
EER (Btu/Wh):	6.55	8.35
Mass Flow (lbs/hr):	197	322
<u>Sound Data @</u>		
Sound Power (dBA):	70 Avg	75 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-01-17	

## Mechanical

Displacment(in <sup>3</sup> /Rev):	1.31
Displacment(ft <sup>3</sup> /hr):	158.84
Overall Length (in):	9.69
Overall Width (in):	9.69
Overall Height (in):	15.72
Mounting Length (in):	7.50
Mounting Width (in):	7.50
Mounting Height (in):	16.00 *
Suction Size (in),Type:	3/4 Stub
Discharge Size (in),Type:	1/2 Stub
Initial Oil Charge (oz):	25
Oil Recharge (oz):	19
Net Weight (lbs):	49.0
Internal Free Volume (in <sup>3</sup> ):	128.0
Horse Power:	1.30

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

## Electrical

LRA-High*(Amp):	55.4
LRA Low* (Amp):	
LRA-Half Winding (Amp):	
MCC (Amps):	11.2
Max Operating Current(Amp):	6.7
RLA, MCC/1.4;use for contactor selection (Amp):	8.0
RLA, MCC/1.56;use for breaker & wire size selection (Amp):	7.2
RPM:	3500
UL File No:	SA-2337
UL File Date:	2005-12-16

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

## Capacitors

## Alternate Applications

<u>Refrigerant</u>	<u>Voltage</u>	<u>Phase</u>	<u>Freq (Hz)</u>	<u>Application</u>
R-134a HFC	200/230	3	60	High Temp
R-134a HFC	200/220	3	50	High Temp
R-404A HFC	200/230	3	60	Extended Medium Temp
R-404A HFC	200/220	3	50	Medium Temperature
R-404A HFC	200/220	3	50	Extended Medium Temp
R-507 HFC	200/230	3	60	Medium Temperature
R-507 HFC	200/230	3	60	Extended Medium Temp
R-507 HFC	200/220	3	50	Extended Medium Temp
R-507 HFC	200/220	3	50	Medium Temperature
R-22 HCFC	200/230	3	60	High Temp

## Alternate Applications

<u>Refrigerant</u>	<u>Voltage</u>	<u>Phase</u>	<u>Freq (Hz)</u>	<u>Application</u>
R-22 HCFC	200/220	3	50	High Temp
R-407C HFC	200/230	3	60	High Temp
R-407C HFC	200/220	3	50	High Temp
R-407A HFC	200/230	3	60	Extended Medium Temp
R-407A HFC	200/220	3	50	Extended Medium Temp
R-448A HFO	200/230	3	60	Medium Temperature
R-448A HFO	200/220	3	50	Extended Medium Temp
R-448A HFO	200/230	3	60	Extended Medium Temp
R-448A HFO	200/220	3	50	Medium Temperature
R-449A HFO	200/230	3	60	Extended Medium Temp
R-449A HFO	200/220	3	50	Extended Medium Temp
R-449A HFO	200/220	3	50	Medium Temperature
R-449A HFO	200/230	3	60	Medium Temperature