

YA29K1E-TF5

HFO, R-454B, 60 Hz, 3 - Phase, 200/230 V , [Also Available with Variable Frequency Drives](#)

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)	45.00	50
Condensing Temp. (°F)	130.00	100
Return Gas Temp. (°F)	65.00	70
Liquid Temp. (°F)	115.00	85
Capacity (BTU/hr)	29700	39500
Power (W):	2750	1770
Current (Amps):	10.4	6.75
EER(BTU/Wh):	10.8	22.35
Mass Flow (lbs/hr):	351	401
Sound Data @ 50 / 115		
Sound Power (dBA):	71 Avg	76 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2026-01-30	
Mechanical		
Displacement (in ³ /Rev):	1.78	
Displacement (ft ³ /Hr):		
Overall Length (in):	9.00	
Overall Width (in):	9.00	
Overall Height (in):	15.50	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	
Mounting Height (in):	16.30	
Suction Size (in),Type:	3 / 4 Stub	
Discharge Size (in),Type:	1 / 2 Stub	
Initial Oil Charge (oz):	25	
Oil Recharge (oz):	21	
Oil Type:	3MA	
Net Weight (lbs):	50.8	
Internal Free Volume (in ³):		

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

Electrical

LRA High* (Amps):	97.5
LRA Low*(Amps):	97.5
LRA Half Winding (Amps):	
MCC (Amps):	20
Max Operating Current (Amps):	13.0
RLA, MCC/1.4(use for contactor selection)(Amps):	14.3
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	12.8
RPM:	3500
Box IP :	21
UL File No:	SA2337- 20200323
UL File Date:	2020-03-23

*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

Refrigerant	Voltage	Phase	Frequency	Application
R-454B HFO	200/220	3	50	Air Conditioning

Nomenclature

YA29K1E-TF5

Family Series

Y: Scroll A2L/A3

Application Range/Envelope

A: AC (High Pressure) R454B/R452B

Nominal Capacity at Rating Condition

29K: Capacity Multiplier-1,000

Model Variation

1: Model Variation

Oil Type

E: POE Oil – 3MAF

Motor Type

T: 3 Phase

Motor Protection

F: Internal Inherent Protection

Voltage

5: 60Hz (200/230-3) 50Hz (200/220-3)