

# Copeland Scroll™

## Air-cooled refrigeration condensing units



## FFAP multi-refrigerant models; low, medium and high temperature; R-404A, R-134a, R-407C and R-22

### Unmatched reliability and efficiency

- Improved efficiency from 10%-15% annually
- Optimized for multiple applications

### Diagnostic protection

Equipped with electronic unit controller:

- Troubleshooting diagnostics
- System protection
- Reduces potential service costs

### Application flexibility

- Operating range of -30°F to 45°F evap (R-404A)
- Designed for up to 110° ambient
- Designed to work with multiple refrigerants
- Optional hood available

### Fully featured

- Integrated electronic controls
- Advanced system protection
- Part of the industry's broadest line of integral horsepower condensing units for refrigeration applications

## Physical and electrical data

Model	Voltages *	Comp	Overall dimensions (In)			Connecting lines		Minimum circuit ampacity - Max fuse size				R-404A Pump down capacity (lbs)	Ship weight (lbs)
			L	W	H	Suction	Liquid	208/230-1	230-3	460-3	575-3		
FFAP-015Z	CFV, TFC, TFD	ZS09KAE	24.1	18.3	16.6	7/8 S	3/8 S	13.9 - 20	11.4 - 15	6.4 - 15		6.4	121
FFAP-017Z	CFV, TFC, TFD	ZS11KAE	24.1	18.3	16.6	7/8 S	3/8 S	17.2 - 25	14.4 - 20	7.1 - 15		6.4	130
FFAP-020Z	CFV, TFC, TFD	ZS13KAE	25.2	34	19	7/8 S	3/8 S	16.8 - 25	13.9 - 20	7.1 - 15		11.2	191
FFAP-022Z	CFV, TFC, TFD	ZS15KAE	25.2	34	19	7/8 S	3/8 S	22.4 - 35	16.1 - 20	10 - 15		11.2	191
FFAP-030Z	CFV, TFC, TFD	ZS19KAE	25.2	34.1	19	7/8 S	3/8 S	25.3 - 40	19.9 - 30	11.3 - 15		11.2	209
FFAP-032Z	CFV, TFC, TFD	ZS21KAE	25.2	34.1	19	7/8 S	3/8 S	31.8 - 50	21.8 - 30	11.8 - 15		11.2	209
FFAP-040Z	CFV, TFC, TFD	ZS26KAE	28.2	44.1	26.8	1 1/8 S	1/2 S	33.1 - 50	23 - 35	11 - 15		18.7	290
FFAP-042Z	CFV, TFC, TFD	ZS33KAE	28.2	44.1	26.8	1 1/8 S	1/2 S	38.9 - 60	31.5 - 50	14.9 - 20		18.7	296
FFAP-050Z	CFV, TFC, TFD, TFE	ZS38K4E	28.2	44.1	26.8	1 1/8 S	1/2 S	43.4 - 70	30.4 - 45	14.4 - 20	11.9 - 15	18.7	297

\*CFV = single phase, 208/230 volt TFC = three phase, 208/230 volt TFD = three phase, 460 volt TFE = three phase, 575 volt. All models available for use with R-22, R-134a, R-404A, R-407C. See OPI for current list of approved refrigerants.

## Features

BOM	F-line		
	-071	-072	-075
Fan motor	Fixed speed	Fixed speed	Fixed speed
Head pressure control	Fan cycle		Head Pressure Control Valve
Refrigerants	404A, 134a, 407C, 22	404A, 134a, 407C, 22	404A, 134a, 407C, 22
Service valves	Steel	Steel	Steel
Receiver	✓	✓	✓
Liquid shut off	✓	✓	✓
Moisture indicator	✓	✓	✓
Filter drier	✓	✓	✓
Fixed HP	✓	✓	✓
Adjustable LP	✓	✓	✓
CCH	✓		✓
Accumulator	✓		Specific models
Optional features		Specific models	
Hood		015Z-017Z	505-7066-01
		020Z-032Z	505-7066-02
		040Z-050Z	505-7066-03

## Capacity data

Model	Capacity (BTU/Hr) 90° Amb, 25° Evap				90° Amb, -20° evap R-404A
	R-404A	R-134a	R-407C	R-22	
FFAP-015Z	11,500	7,540	10,400	11,400	4,000
FFAP-017Z	13,100	8,900	12,500	13,100	5,200
FFAP-020Z	15,300	10,200	14,000	15,200	6,280
FFAP-022Z	18,900	12,300	17,300	18,300	7,360
FFAP-030Z	21,600	14,100	19,700	20,800	8,330
FFAP-032Z	27,300	18,500	25,400	27,400	11,200
FFAP-040Z	34,200	21,300	30,700	31,700	12,900
FFAP-042Z	40,800	26,100	36,300	38,700	15,800
FFAP-050Z	45,400	29,400	41,600	43,100	16,900

25°F capacities are at 60 Hertz with 65° return gas and 5°F subcooling.

-20°F capacities are at 60 Hertz with 40° return gas and 5°F subcooling.

## Emerson™ Electronic Unit Controller

Key functions	Key benefits
- Controls unit based on suction pressure	- Quick & easy set-up
- Fan cycling with mid coil temperature	- Improved set-point accuracy
- Discharge line protection	- Enables multi-refrigerant product
	- Trouble shooting diagnostics
	- Added system safeguards

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