

# F-SERIES

Outdoor, Free-Cooling Economizer  
5-90 Ton Single Units | Expandable



## Add-On Energy Savings

Uses natural cold air to cool process fluid as conditions warrant, allowing the chiller system to operate less often in colder months. This leads to energy savings and extended chiller component life.

### PRODUCT SUMMARY

- Energy Savings
- Closed Loop/Low Maintenance
- Modular and Expandable
- Integrated Intelligent Controls
- Retrofit Configurations Available
- Full and Partial Economization
- Ambient temp range 50° to 95°F
- 18-month parts and labor warranty
- 24/7 service and support

### BASE CONFIGURATION

Outdoor, Non-Ferrous Construction  
Ambient -20°F to 120°F  
Flow Design 3 GPM/Ton of Cooling  
Max Pressure Drop of 10PSI  
10°F ΔT Between Air and Water  
Power 460/3/60  
NEMA 4/12 Electrical Enclosure  
Modbus Communication (Chiller/Economizer)  
ANSI Non-Ferrous Flange  
Water/Glycol (Max 50% Glycol)  
24 VDC Control Voltage  
Motorized Control Valve

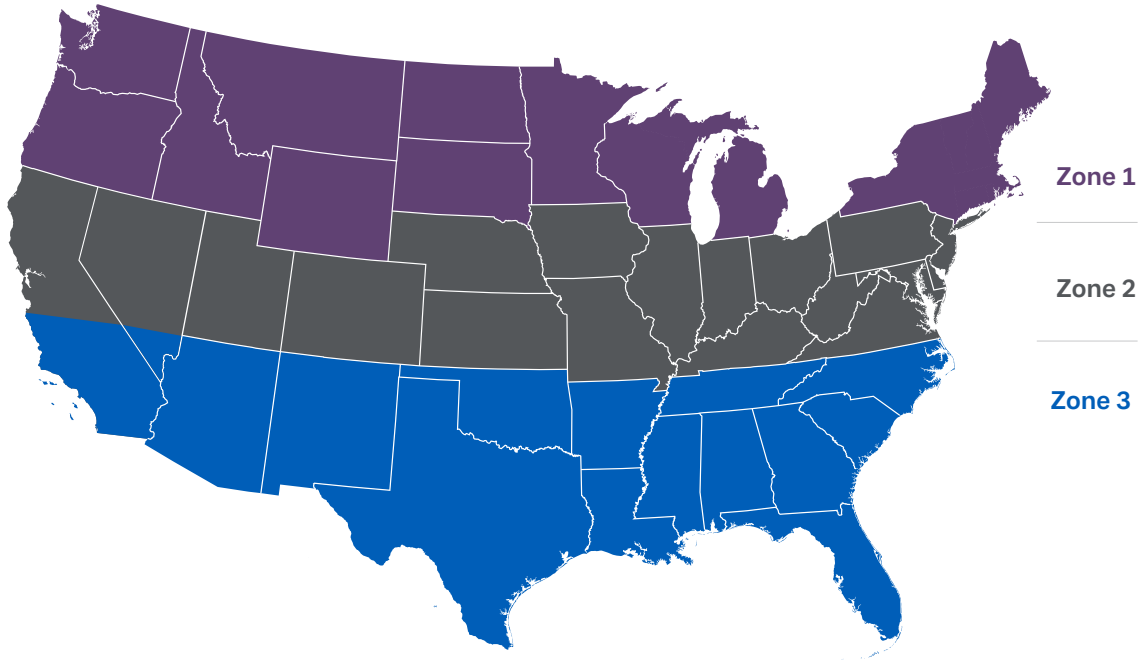
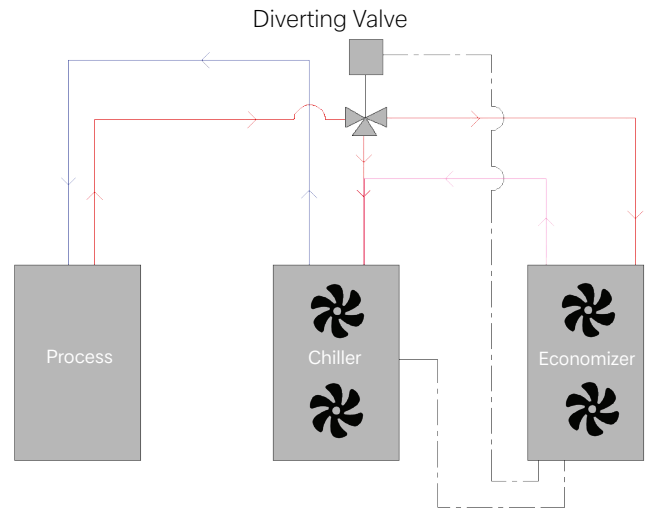
### OPTIONS

230/3/60  
575/3/60  
Coated Coils for Corrosion Protection

# Return On Investment

ROI varies with ambient temperature and fluid temp. Chiller setpoints control the diverting valve to route process fluid automatically to the economizer when external temperatures warrant.

Contact us for ROI based upon your specific application.



**Percent of Annual Operating Hours for Which Ambient Temperatures Will Support Economization**  
 These numbers are estimates based on ASHRAE provided weather station data. Actual results will vary.

FLUID TEMP	Zone 1		Zone 2		Zone 3	
	100% Economization	>50% Economization	100% Economization	>50% Economization	100% Economization	>50% Economization
80°LFT	83%	88%	71%	78%	53%	61%
75°LFT	72%	82%	59%	70%	40%	52%
65°LFT	53%	66%	40%	52%	20%	32%
60°LFT	42%	57%	31%	45%	13%	55%

\*Percent economization is defined as the number of hours of economizer operation divided by the total number of operating hours in a year.