



**FZ** Series



## FLUID COOLERS



### Features:

- Fluid coolers with capacities from 50-450 tons
- Energy saving waterside economizer for new or existing chilled water systems
- Modular construction allows matching capacity to the application requirements
- Isolated modules allow independent fan control for each module
- Double wall rigid polyurethane foam panel construction
- Service access doors with full length stainless steel piano hinges and zinc cast lockable handles
- Labeled components and color-coded wiring that match the unit specific wiring diagram
- Available with VFD controlled variable speed fans
- Available with factory engineered and installed pumping packages
- Available with water-to-glycol heat exchanger isolation

Application Flexibility  
Minimizes Installation Time and Reduces Cost

○ *Factory Installed Pumping Packages*

○ *VFD Controlled Variable Speed Fans*

○ *Easy to Install and Service*

○ *New or Retrofit Applications*

# FZ Series Fluid Coolers

*AAON FZ fluid coolers are engineered for performance and serviceability. VFD controlled fans and high efficiency air-cooled heat exchangers are available to maximize performance. All models feature double wall rigid polyurethane foam panel construction with service compartments that allow maximum accessibility while installing and maintaining the equipment. The fluid cooler can also be provided with factory engineered and installed pumping packages, eliminating the need for an indoor mechanical room.*

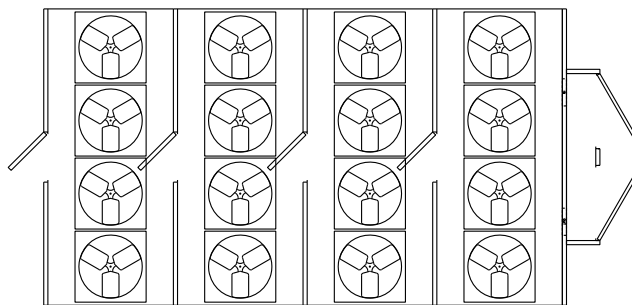
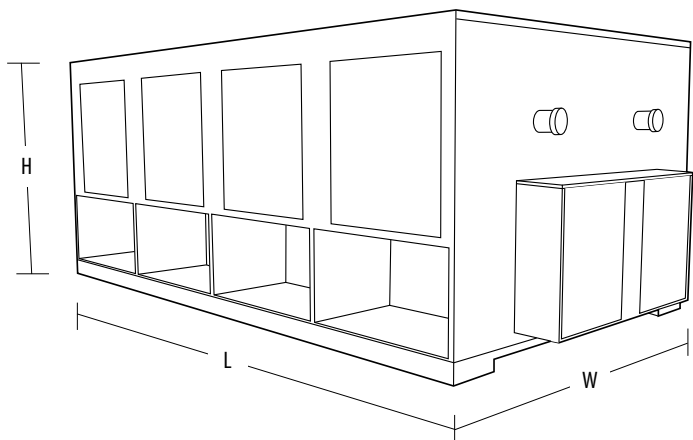
## Dry Cooler

### Superior Features

- High efficiency air-cooled coils are designed to maximize the performance of the fluid cooler.
- Two-inch double wall polyurethane foam panel construction provides R-13 thermal resistance and makes the cabinet more rigid and resistant to damage.
- Access doors with full length stainless steel hinges and zinc cast, lockable handles make the unit easily serviceable.
- Designed for outdoor operation, the FZ Series includes corrosion resistant exterior paint that exceeds a 2,500 hour salt spray test.
- Single point electrical connection to save installation costs.
- Run test report, color-coded wiring diagram, and Installation, Operation, and Maintenance manual with startup form are included in the control compartment.
- Grooved end piping and fittings make field connection and maintenance quick and easy.

### Premier Options

- Factory installed water pumping system available with VFD controlled pumps for precise control and reduced power consumption.
- Water-to-Glycol heat exchanger isolation to allow chilled water building system with glycol fluid cooler, with optional glycol feeder.
- Polymer e-coated condenser coils are available to extend the life of the coils and protect them in corrosive environments.
- Factory provided and installed DDC controller is compatible with BACnet®, Modbus®, and LonTalk® protocols.



Top View with Four Modules

FZ Model	Width	Height	Length
50-450	142	104	Dimension will vary depending on options selected.

All dimensions are in inches.

# Stand-Alone Waterside Economizer



Grooved End Piping and Fittings

## Air-Cooled

Coils are constructed of copper tubing mechanically bonded to aluminum fins. Flat coil design allows the coils to be easily cleaned because they do not include bends, which can trap dirt and debris and can reduce the efficiency of the unit. In addition, the exterior coils are protected by coil guards. All FZ Series fluid coolers can be selected with VFD controlled fans that save energy costs and reduce sound levels.

## Isolated Modular Construction

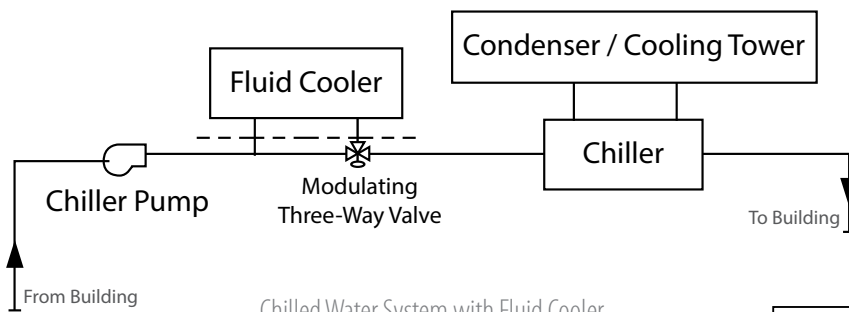
The modules are isolated by two inch double wall rigid polyurethane foam panel construction with full length hinged door access. This isolation allows the each module's fans to be controlled independently, either with staged or VFD controlled fans, without affecting the other modules. Modular construction allows matching the capacity to the application requirements.

## Factory Installed Pumping Packages

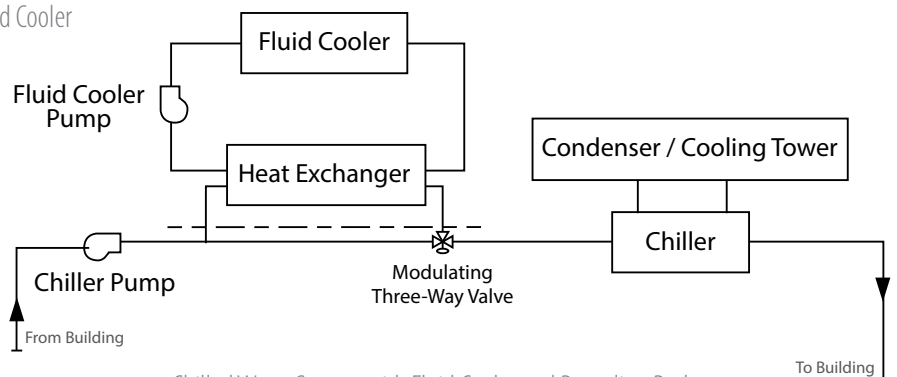
Pumping packages that include a pump, butterfly valves, strainers, ball valves, combination valve, and inlet air purge are available. Grooved end and fittings are standard on all FZ Series fluid coolers. Quick and easy selection of proper pumping package includes pump performance curves and piping diagram.



DualArm Pumping Package



Chilled Water System with Fluid Cooler



Chilled Water System with Fluid Cooler and Pumping Package

# AAON Environmentally Friendly HVAC Product Family

**Custom & Cataloged  
Air Handling Units** ■ .....  
(800-200,000+ cfm)

**Condensers & Condensing Units** ■ .....  
(2-230 tons)

**Chillers (Air-Cooled &  
Evaporative-Cooled)** ■ .....  
(5-540 tons)

**Rooftop Units** ■ .....  
(2-240 tons)

**Outdoor Equipment Rooms** ■ .....  
(Chillers, Boilers, & Pumps)

**Self Contained Units** ■ .....  
(3-70 tons)

**Residential Systems** ■ .....  
(2-5 tons)

**Geothermal & WSHP Units** ■ .....  
(2-230 tons)

**Air-Source Heat Pumps** ■ .....  
(2-230 tons)

**Heating and Cooling Coils** ■ .....  
(Booster, Hydronic, & DX)

**Fluid Coolers** ■ .....  
(50-450 tons)

## Heating and Cooling *for...*

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**Homes**  
**Lodgings**  
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