

ECOLOGIC FLUID COOLER SERIES FCEW

The Fluid Coolers are air/water Heat Exchangers, that cool water with ambient air. Axial fans circulate air through the coils, with very low energy consumption.

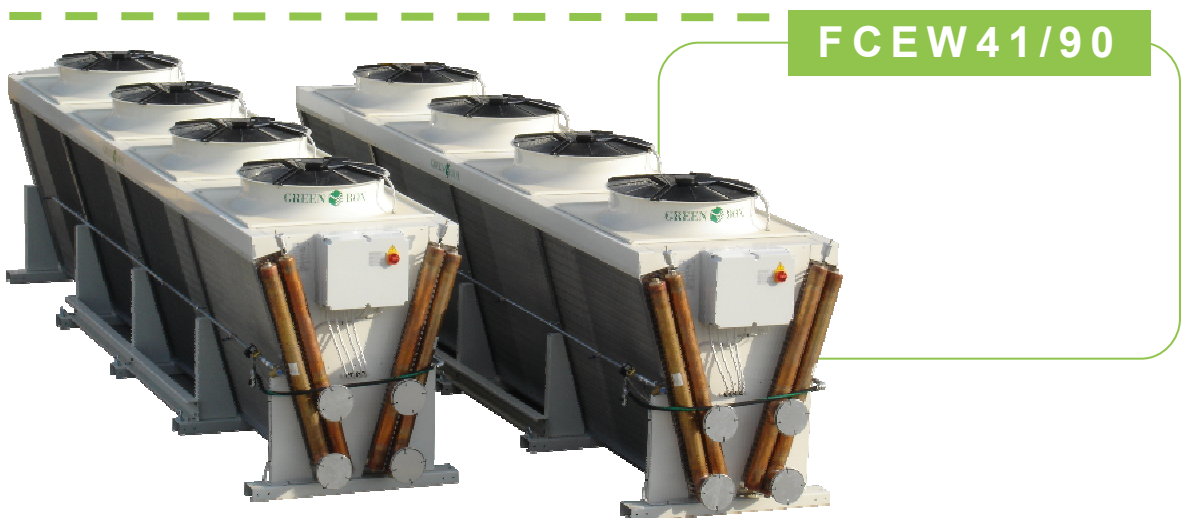
Advantages of an Ecologic Fluid Cooler System:

- Low energy consumption.
- No water consumption.
- No contamination of process water.
- No calcium deposits: the closed circuit system keeps the quantity of salts unchanged.
- No Glycol
- Easy installation and Modular
- Easy integration to existing cooling systems.
- Quick return of investment.

The FCE-W series is designed for outdoors installation. Our Ecological series is Self-Draining, hence no Glycol is required. In addition, our Self-Draining Ecologic Fluid Coolers feature an Automatic Anti Freezing Drain Procedure, in case of extreme winter operation at very low heat loads.

Main Features:

- Frame made of Galvanized Steel coated with Polyester paint RAL 9002.
- High-Efficiency finned coil Heat Exchangers; the particular “V-shape” optimizes air circulation through the coils to increase the efficiency.
- The “V-shaped” Heat Exchangers minimize footprint.
- Low noise Axial Fans with external motor.
- Closed-Loop circuit allows easy installation in parallel with other units, and makes combination with any existing chilling system possible.



Standard Option:

- Water Spray Nozzles allow performance improvement for extreme high temperature conditions, using Adiabatic air cooling at the coils inlet.

Additional Options:

- Softwater System to reduce limestone deposits.
- Water Pumps with check valves and Control Box.
- Adiabatic with SSS Option to improve air saturation.



TECHNICAL DATA



| Model | Cooling Capacity | | EC Fans | | | Internal Water Volume | Dimensions | | | Net Weight | Total Air Flow | Connections |
|------------|--------------------|--------------------|---------|------|------|-----------------------|------------|-----|----|------------|----------------|-------------|
| | | | Qty. | Dia. | Nom. | | W | L | H | | | Victaulic |
| | tons ¹⁾ | tons ²⁾ | # | mm | HP | Gal. | in | in | in | lbs. | CFM | in |
| FCEW41/90 | 137 | 86 | 4 | 900 | 15 | 44 | 46 | 238 | 69 | 2,476 | 76,335 | 3 |
| FCEW51/90 | 171 | 107 | 5 | 900 | 18.8 | 55 | 46 | 293 | 69 | 2,996 | 95,420 | 4 |
| FCEW61/90 | 205 | 128 | 6 | 900 | 22.5 | 66 | 46 | 348 | 69 | 3,530 | 114,505 | 4 |
| FCEW82/90 | 228 | 137 | 8 | 900 | 30 | 63 | 84 | 238 | 87 | 4,829 | 143,245 | 4 |
| FCEW102/90 | 285 | 171 | 10 | 900 | 37.5 | 78 | 84 | 293 | 87 | 5,856 | 179,060 | 4 |
| FCEW122/90 | 342 | 205 | 12 | 900 | 45.1 | 94 | 84 | 348 | 87 | 6,971 | 214,870 | 4 |
| FCEW142/90 | 399 | 239 | 14 | 900 | 52.6 | 109 | 84 | 404 | 87 | 8,133 | 250,680 | 4 |

Note¹⁾: Considering 95° F Leaving Water Temperature, 105° F Entering Water Temperature, and 77° F Dry Bulb

Note²⁾: Considering 85° F Leaving Water Temperature, 95° F Entering Water Temperature, and 77° F Wet Bulb

