

Cooling Towers FC Series

Industrial Fiberglass Cooling Tower

Benefits:

- **Fiberglass Construction:** Corrosion resistant rugged fiberglass withstands harsh weather and industrial manufacturing environments.
- **Direct Drive Fan Motor:** Comes with permanently sealed bearing connected direct to fan to eliminate motor bearing, belt, pulley and gear box maintenance.
- **Stainless Steel Fasteners:** Provide added strength and corrosion resistance for long life and durability in severe environmental conditions.
- **PVC Fill and Internal Piping:** Optimal efficiency and long life with low maintenance and no rust or corrosion typical of galvanized steel towers.
- **Fiberglass Inlet Louvers:** Keep unwanted debris and animals out of the basin and ensure water splashes in the basin stay in the tower.
- **Pressurized Water Distribution System:** Nonferrous fixed spray nozzles with large non-clogging openings mounted in PVC distribution piping for trouble-free operation.
- **Factory Assembled:** Motor and fan are removed to prevent shipping damage, makes installation quick and easy.
- **Warranty:** 10 year parts on fiberglass shell; 5 year parts on fan motor warranty; 1 year parts on complete cooling tower.



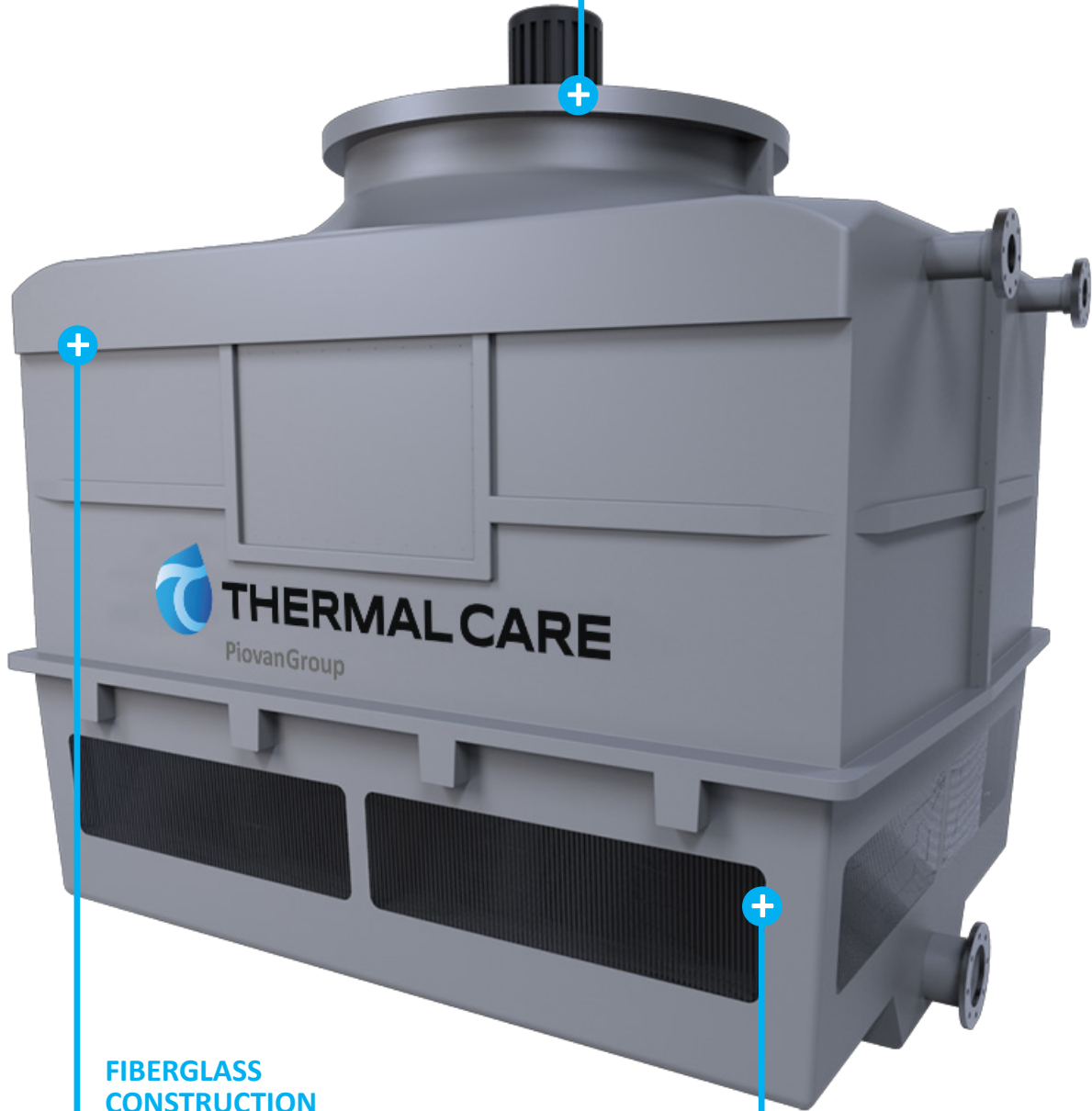
Thermal Care provides durable, efficient, and low maintenance cooling towers designed for premium quality and performance. Key features include a seamless, leak proof basin and a motor with permanently sealed bearings ensuring long-term reliability. Each tower features fiberglass construction of the shell and basin for long life and corrosion resistance.

Industrial cooling towers are an effective way to remove unwanted heat from one place to another using water as the transport media. Cooling towers are an extremely cost-effective solution for process cooling when the temperature required is near 85°F (29°C) or above. Water cooled chiller condensers also typically require 85°F (29°C) inlet water, so a cooling tower system is perfect for a water-cooled chiller system.

Benefits of the FC Series Cooling Tower Features:

DIRECT DRIVE FAN MOTOR

Lower noise, superior energy efficiency, reduced maintenance, and high reliability from the direct drive between the motor and the fan.



FIBERGLASS CONSTRUCTION

Resists harsh weather, and has a longer life than steel construction towers - especially in industrial manufacturing environments.

PVC FILL AND INTERNAL PIPING

Provide optimal efficiency and long life with no rust or corrosion - which can be typical with galvanized steel towers.

Technical Data

Model	Cooling Tons (kW) ¹	Nominal Flow gpm (lpm)	Inlet Pressure Required psi (bar)	Operating Range gpm (lpm)	Dimensions L x W x H inch (mm)	Shipping Weight lbs (kg)	Operating Weight lbs (kg)
FC610	100 (352)	300 (1,136)	6 (0.4)	200 to 600 (757 to 2,271)	111 x 111 x 123 (2,819 x 2,819 x 3,124)	1,760 (798)	4,535 (2,057)
FC620	115 (404)	345 (1,306)	4 (0.3)	200 to 600 (757 to 2,271)	111 x 111 x 125 (2,819 x 2,819 x 3,175)	1,910 (866)	4,535 (2,057)
FC630	125 (440)	375 (1,420)	4 (0.3)	200 to 600 (757 to 2,271)	111 x 111 x 125 (2,819 x 2,819 x 3,175)	1,910 (866)	4,685 (2,125)
FC640	140 (492)	420 (1,590)	5 (0.3)	200 to 600 (757 to 2,271)	111 x 111 x 128 (2,819 x 2,819 x 3,251)	2,150 (975)	4,925 (2,234)
FC710	170 (598)	510 (1,931)	5 (0.3)	350 to 725 (1,325 to 2,744)	140 x 101 x 125 (3,556 x 2,565 x 3,175)	2,660 (1,207)	5,230 (2,372)
FC720	185 (651)	555 (2,101)	6 (0.4)	350 to 725 (1,325 to 2,744)	140 x 101 x 128 (3,556 x 2,565 x 3,251)	2,700 (1,225)	5,530 (2,508)
FC730	205 (721)	615 (2,328)	7 (0.5)	350 to 725 (1,325 to 2,744)	140 x 101 x 128 (3,556 x 2,565 x 3,251)	2,700 (1,225)	5,570 (2,527)
FC740	240 (844)	720 (2,726)	10 (0.7)	350 to 725 (1,325 to 2,744)	140 x 101 x 128 (3,556 x 2,565 x 3,251)	2,750 (1,247)	5,570 (2,527)

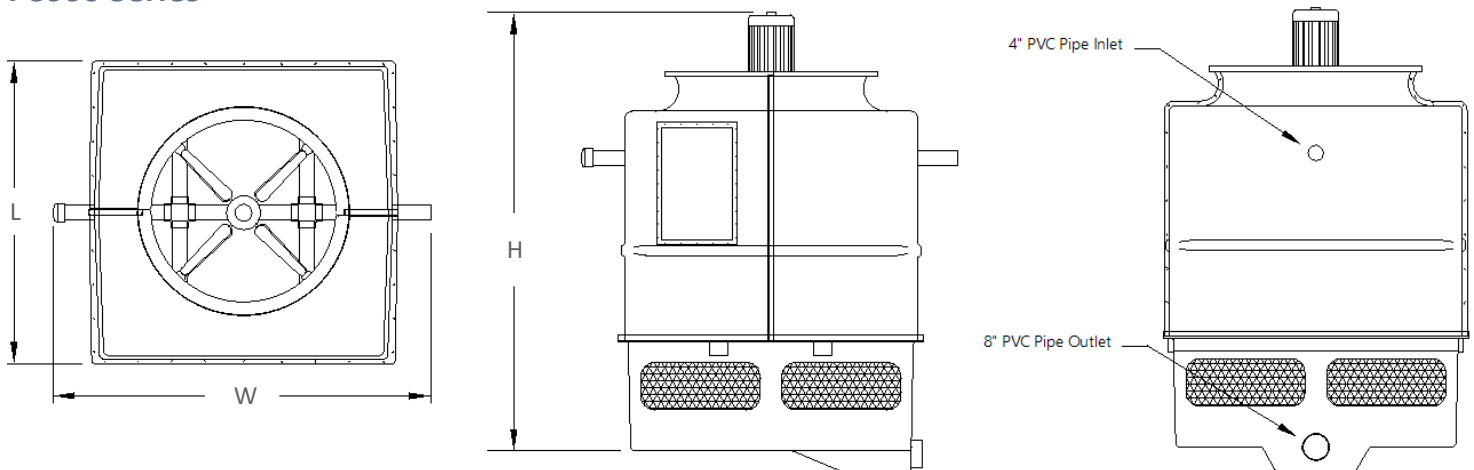
¹Cooling tons based on 15,000 BTU/Hr/ton with 85°F (29°C) leaving water, 78°F (26°C) wet bulb and 3 gpm/ton (2.58 lpm/kW) tower water.

Electrical Data

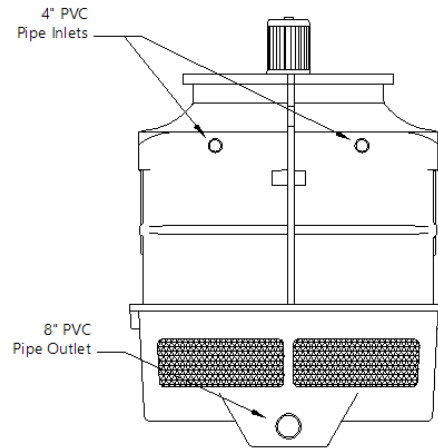
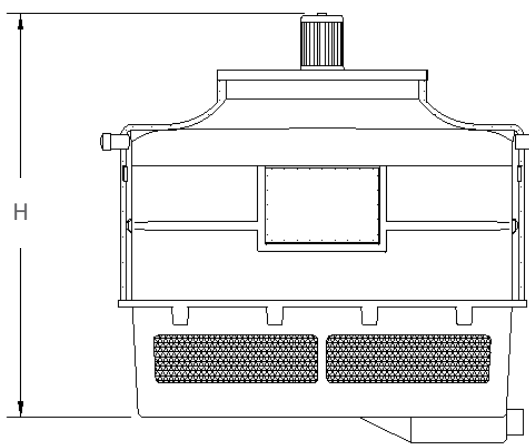
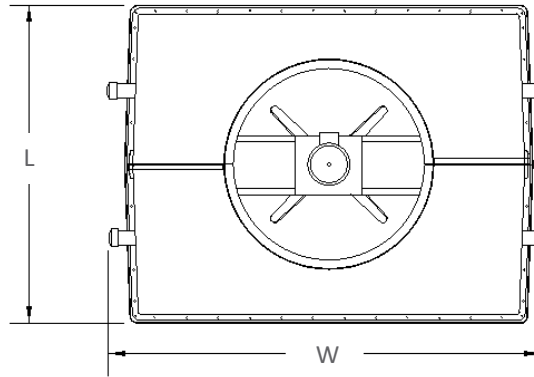
Model	Fan Motor hp (kW)	Rated Voltage ¹ FLA @ 208/3/60	Rated Voltage ¹ FLA @ 230/3/60	Rated Voltage ¹ FLA @ 460/3/60	Rated Voltage ¹ FLA @ 575/3/60
FC610	3 (2.2)	N/A	9.6	4.8	3.9
FC620	5 (3.7)	N/A	15.2	7.6	6.1
FC630	5 (3.7)	N/A	15.2	7.6	6.1
FC640	7.5 (5.6)	N/A	22.0	11.0	9.0
FC710	7.5 (5.6)	N/A	22.0	11.0	9.0
FC720	10 (7.5)	N/A	28.0	14.0	11.0
FC730	10 (7.5)	N/A	28.0	14.0	11.0
FC740	15 (11.2)	N/A	42.0	21.0	17.0

¹Allowable voltage is ± 10% from rated voltage.

FC600 Series



FC700 Series



Thermal Care is ISO 9001 Certified
Manufacturer reserves the right to change specification or design without notification or obligation.

