

# FRPP series



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Cooling Towers made of Pultruded FRP

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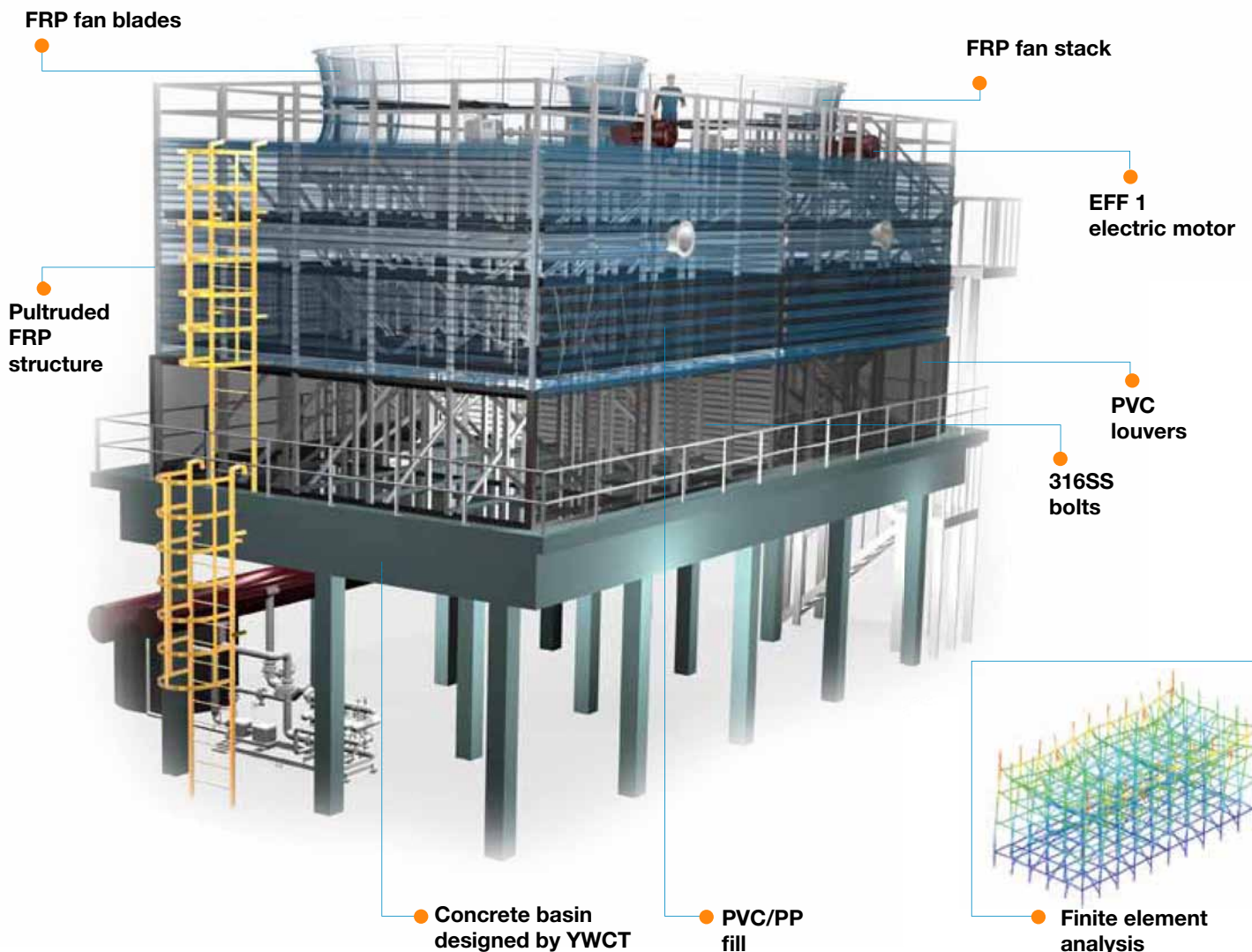
## Counterflow induced-draft Cooling Towers made of Pultruded FRP

YWCT's FRPP cooling towers are induced-draft counter-flow towers made of FRP.

The structure of our FRPP series (support beams and columns) is made of composite continuous fiberglass pultruded sections that comply with CTI's STD 37 and conform to ASTM E84D with a flame spread rating of below 25.

FRPP cooling towers are positioned over a concrete basin. YWCT provides its customers with scale drawings of the concrete cement, including locations and production drawings of all pipe fittings in 2D or 3D. The size of a single cell ranges from 6m X 6m to 15m X15m.

Pultruded FRP cooling towers have become an alternative solution to traditional concrete cooling towers, since in many cases they cost less and their erection time is much shorter than that of cooling towers made entirely of concrete. In addition, pultruded FRP towers in many cases offer superior corrosion resistance.



## Features

- Pultruded fiberglass polyester field-erected cooling towers
- Heavy-duty cooling towers designed for industrial applications
- Optimal thermal performance design
- Highly resistant to corrosive environments

<b>Type:</b>	Counterflow
<b>Fabrication:</b>	Field-assembled Pultruded and hand-laid FRP
<b>Air flow:</b>	Induced draft
<b>Capacity:</b>	2,000,000-20,000,000 kcal/hr per cell
<b>Water flow:</b>	400 - 4,000 m <sup>3</sup> /hr per cell
<b>Industries:</b>	Chemical industries ,Oil and Gas, Pharmaceutical, Power plants, Refineries, large-scale HVAC systems

## Materials

- Pultruded FRP structure
- FRP cladding
- Anti slip FRP fan deck
- FRP hand rails and ladders
- Stainless still hardware
- Efficient PVC or PP fill
- PVC drift eliminators and louvers
- PP distribution nozzles

## Options

- Additional veil layers to increase corrosion resistance
- Pultruded FRP hand rails, walkways, and ladders
- Low-noise fans
- Complementary subsystems: filtration system, water treatment system, heat exchangers, VFD
- Nickel alloy connectors (e.g., Hastelloy C-22)
- Elevated basin for optimal use of space
- Lighting protection systems
- Design according to existing concrete basin

### Basic FRPP models

Model	Single cell dimensions [cm]			Cooling capacity [Kcal/hr]*	Hydraulic water flow capacity per single cell [m <sup>3</sup> /hr]		Motor [HP]
	L	W	H		Maximum	Minimum	
FRPP-1000-1	600	600	600	3,500,000	1,000	350	50
FRPP-1800-1	800	800	850	6,500,000	1,800	650	100
FRPP-2800-1	1,000	1,000	1,100	10,000,000	2,800	1,000	125
FRPP-4000-1	1,200	1,200	1,300	14,500,000	4,000	1,450	200
FRPP-5500-1	1,400	1,400	1,550	20,000,000	5,600	2,000	250

\* Cooling capacity refers to standard design conditions: Range = 5.5°C and Approach = 4°C (25°C WB temp)

Want to learn more about YWCT?  
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