

# CEF 鼓風式不銹鋼逆流方形冷却塔

Forced Draft Counter Flow Square Type Cooling Tower

**SINRO® 新亞**

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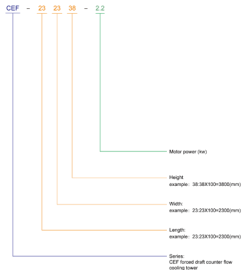
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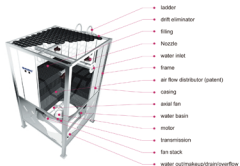
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### ■ The structure of CEF forced draft counter flow square type cooling tower



### ■ The materials of CEF forced draft counter flow square type cooling tower

	standard		options			
frame	stainless steel		SS 316			
ladder					stainless steel	
screws						
internal frame	G.I.	SS 304	SS 316	G.I.		
motor rack	G.I.					
nozzle	quality PVC					
filling	quality PVC					
drift eliminator						
casing	SS 304 sandwich board		SS 316 sandwich board	Galvanized Mg-Al sandwich board		
water basin	SS 304					
fan stack						
flange	cast iron					
air flow distributor	SS 304					

## Product Profile

CEF series forced induced stainless steel counter flow square type cooling tower is an innovative product designed with the advanced thermal exchange technology, scientific management on production and the environmental friendly principle by SINRO, after decades of experience in the design, manufacture, application and maintenance.

Owing four patents, CEF series cooling tower is not only having high efficiency in heat exchanging but also having ground-breaking reform in the technology and structure of the cooling tower. Comparing to the FRP products which is non-degradable and danger to the environment and health, CEF series cooling tower adopts qualified 304 stainless steel for the frame and casing panels, which is recyclable. The most innovative design is to place the power transmission unit and the fan under the cooling tower, which effectively control the noise and conveniently repair and maintain the cooling tower.

The forced draft air rises upward evenly through the patented Air Flow Distributor and the static space, effectively making full use of the filling and reducing the air discharge speed and noise. The sealed water basin can avoid the direct sunlight and restrain the breed of algous bacteria and Legionella. The drift eliminator on top control the drift loss less than 0.001% of the water flow. The beneath air inlet and the uniform lower height allows the multiple cells can be assembled together freely. The long distance between the air inlet and the air outlet reduces the thermal reflux to achieve the design performance.

CEF series cooling tower has artistic appearance, multiple assembly, effective heat exchange, low noise, small floor space, light weight, environmental friendly, energy saving, easy maintenance, long life and various application.

## Characteristics

### ■ Casing Panel

CEF Series cooling tower adopts complex casing panels as sandwich with 304 stainless steel as inner and outer walls and Polyurethane foam inside, which improve the intensity, the appearance, the anti-vibration and noise reduction.

### ■ Frame

Modular frame of the same height is made of stainless steel by mechanical equipment and mode, which ensures the standard quality. It can be installed in single cell or multiple cells.



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### ■ Water Basin

The sealed water basin can keep the contaminant away from outside, reduce the noise of the dropping water and avoid the direct sunlight to restrain the breed of algous bacteria and Legionella. The huge volume and high-water level design can prevent the water evacuation which may disturb the normal operation of the air-conditioning.

### ■ Fan Driving System

The underneath fan driving system (Patent No. 97 209096.7) effectively reduces the operation noise transmission. With the T8AD motor, stainless steel fan, precise belt transmission device and quality belt, the fan transmission system operates more stable and reliable. The streamlined fan stack reduces the air outlet pressure and saves the energy.



### ■ Air Flow Distributor (patent)

Made of quality 304 stainless steel and processed by the customized machine, the air flow distributor is durable and reliable. It can collect the cooling water and distribute the fresh air to each corner effectively, to ensure the air to fully mix with the water inside the tower.



### ■ Filling

Vacuum formed and made of quality and fire resistant PVC with UV protection additives. No glue sticking, environmental friendly, easy disassembly. The continuous structure effectively maintains the water film on the fill and excellent heat exchange.



### ■ Water Distribution System

YKN Series Nozzle  
The square effective variable water flow nozzle designed by SINRO, uniformly distributes the cooling water to the fill. Large orifice design without movable accessories inside is free of clogging, easy maintenance, low resistance and improves the efficiency of heat exchanging.



### ■ S Shape Eliminator

Quality S shape eliminator on the top has better drift elimination, less air resistance and reduces the drift loss less than 0.001% of the water flow rate.

