

	CXVE	CXV-D	HXC	PCE	VCL	VXC	DCV-AD
<b>Principle of operation</b>							
<b>Capacity</b>	440-2765 kW	2750-4025 kW	545-1895 kW	540-2710 kW	180-1380 kW	60-6920 kW	340-1030 kW
<b>Configuration</b>	combined flow	combined flow	combined flow	counterflow	counterflow	counterflow	counterflow
<b>Air entry</b>	axial fan induced draft	axial fan induced draft	axial fan induced draft	axial fan induced draft	centrifugal fan forced draft	centrifugal fan forced draft	axial fan induced draft
<b>Low sound</b>							
<b>Energy efficiency</b>							
<b>Easy maintenance</b>							
<b>Operational safety (hygiene)</b>							
<b>Water saving</b>							

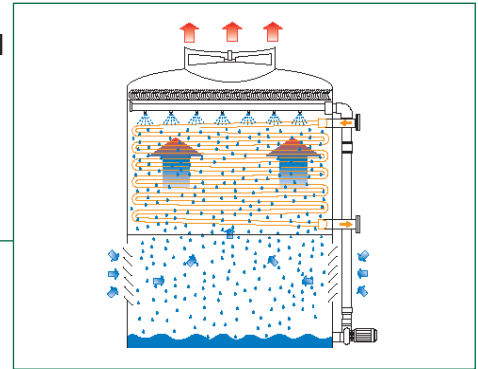
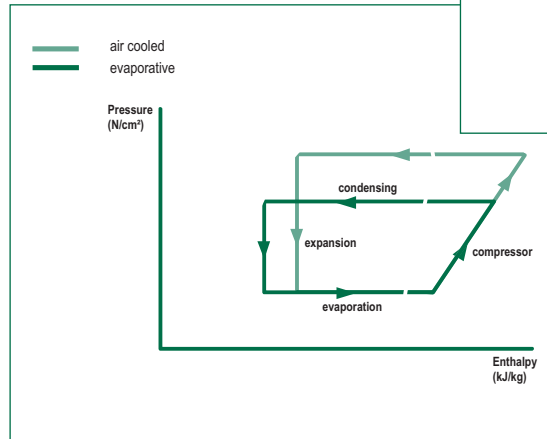
# Refrigerant condensers

## Principle of operation

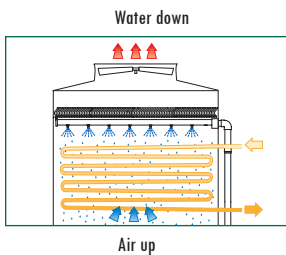
**Evaporative condensers** discharge refrigerant and air-conditioning heat, and consume minimal energy and water. They combine a cooling tower and a refrigerant condenser in a single unit. A small portion of the water is evaporated, removing the heat from the refrigerant and condensing it inside the coil. This saves up to 95% of the water compared with a once-through condensing system.

## Benefits

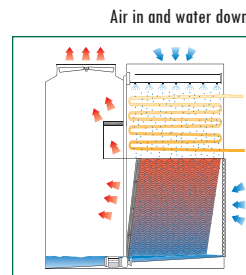
- Initial cost savings: cooling tower, condenser surface, water pump and piping in a single equipment unit
- Low system operating costs: low condensing temperatures for a more compact compressor using less power
- Low refrigerant charge, costs and environmental impact minimized
- Space-saving: up to 50 % area savings compared to comparable air-cooled installations.



## Configurations



**Counterflow configuration**



**Combined flow configuration**

Parallel flow of air and water over the coil, crossflow configuration of the fill

Air across



## Pressurized spray system



## Fan systems



### Centrifugal fan

- can overcome external static pressure, suitable for indoor installations
- inherently quiet



### Axial fan

- low energy usage

### Forced draft

- rotating air handling components are located on the air inlet face at the base of the tower
- easy access for maintenance
- located in dry entering air stream

### Induced draft

- rotating air handling components are mounted in the top deck of the unit
- minimal impact of fan noise
- maximum protection from fan icing
- located in the corrosive saturated discharge air stream