

Evaporative

Condenser By **itc**

Take a Glimpse, It's Extraordinary



The **Evaporative Condenser** by **ITC** is a unique and an extraordinary machine which can be capable of heat rejection, and can maintain pressure as well as temperature regulation control inside the refrigeration system.

Besides these outstanding features, it is also resistant to corrosion. Constructing from stainless steel, it does not need any protection from rot or hazardous chemical.

Furthermore, each fan is directly driven by the motors, namely the special TEAO motor with cast iron terminal box, shaft seal and outdoor paint. Thus, we no longer need the pulley and belt inside it. Also, the fast and smooth fan operation can discharge the saturated hot air produced from heat exchanger.

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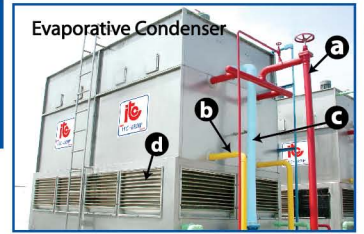
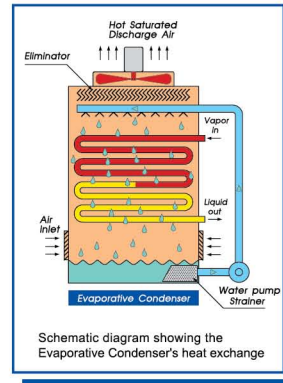
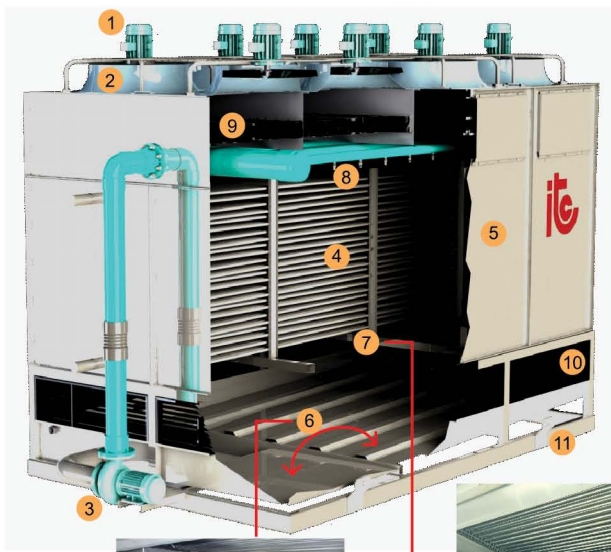


Figure 1-Evaporative Condenser

- a) Red pipes indicates hot vapor gas.
- b) Yellow pipes indicates the condensed liquid refrigerant.
- c) Blue pipes containing water to recirculate for heat exchange.
- d) Air inlet allows air inside for heat exchange.

EVCP

Heat exchange takes place with the presence of air, water and hot ammonia gas. The air entering the bottom side of the condenser flows upward contacting the evaporator coil, which contains vapor and water coming from the nozzle. It then causes heat rejection.

Consequently, the nozzle will evenly spray water into the coil, causing heat transfer by dispersing the heat from the hot gas, and eventually will condensates the vapor into its liquid state without changing its pressure.

Along the connecting lines, the red pipe indicates hot gas of ammonia which will change its state to liquid without changing its pressure during the process of heat exchange in the condenser coil. With this, the condensed liquid will flow through the yellow pipe.

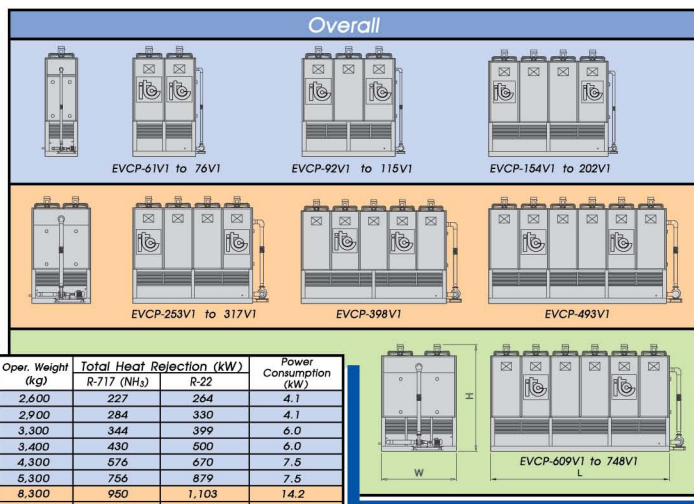
In addition, this machine is well-known for having high thermal efficiency with less energy consumption. We offer you this special evaporative condenser with multiple fans. So don't forget about this product, it's extraordinary.

ITC's Evaporative Condenser Special Features:

- 1 Multi-set axial fans
- 2 Stainless Venturi
- 3 Water pump
- 4 Stainless steel 304 coil
- 5 Stainless steel 304 casing
- 6 Slightly inclined Water Sump embedded with slopes
- 7 Bleed-off Water Tray
- 8 Spray nozzle
- 9 Eliminator
- 10 Air Inlet Louver
- 11 Hot dip galvanized steel or stainless steel (option) base frame



Special TEAO motor with cast iron terminal box, shaft seal and out door paint.



Model	Width (mm)	Length (mm)	Height (mm)	Oper. Weight (kg)	Total Heat Rejection (kW)		Power Consumption (kW)
					R-717 (NH ₂)	R-22	
EVCP-61V1	1,200	2,400	3,200	2,600	227	264	4.1
EVCP-76V1	1,200	2,400	3,900	2,900	284	330	4.1
EVCP-92V1	1,200	3,500	3,600	3,300	344	399	6.0
EVCP-115V1	1,200	3,500	3,600	3,400	430	500	6.0
EVCP-154V1	1,200	4,600	3,600	4,300	576	670	7.5
EVCP-202V1	1,600	4,600	3,900	5,300	756	879	7.5
EVCP-253V1	2,200	4,600	3,700	8,300	950	1,103	14.2
EVCP-317V1	2,200	4,600	3,900	9,000	1,189	1,381	14.2
EVCP-398V1	2,300	5,800	3,700	9,600	1,490	1,731	18.0
EVCP-493V1	2,300	7,000	3,700	11,000	1,846	2,143	22.0
EVCP-609V1	2,900	7,000	3,700	14,000	2,280	2,648	23.5
EVCP-748V1	2,900	7,000	3,900	16,000	2,803	3,256	31.9

External Service Platforms (Optional)

The external working platform and ladder are allow to easy access and maintenance service for the fan motor and water distribution system. The material are stainless steel, grade SUS304 (the heavy duty galvanized steel platform as the option) is self-supporting which no need the external support. The cost saver than field assembly catwalks, the ladder is the standard and can be quote stair ladder for the option. It's knock down parts and easy installation.

NOTES:

1. Ladder and platform are ship loose (IF).
Field installation by customer.
2. Extended ladder is quote as the optional if the unit is elevated from the floor. Any modification of the package should be consult manufacturer.
3. To rigging the equipment, ladder and/or platform see instruction.
4. Any obstructions or conflict with the platform will be the customer's responsibility for relocation and modification.

Note : 1.) Other capacity and dimensions are available. Please contact the manufacturer.
2.) Specifications are subjected to change without notice.