

evaporative pre-cooling
and humidification solutions
misting systems & atomizers



DRY-COOLERS
CHILLERS - EXCHANGERS
AHU - FIN FAN COILS

MISTING SYSTEMS
modular solutions
1,000 psi / 70 bar

TecnCooling MISTING SYSTEMS solutions

1,000 psi / 70 bar
misting pumps modules up to 2580 kg/h (682 gph)

Air conditioning systems perform at their worst in hot summer days, just when they are needed the most. The cooling capacity decreases by 14-15% and the power draw increases by 31%. The problem occurs in condensers, which have to change vapors refrigerant into liquid forcing the air through the unit and absorbing heat from the refrigerant causing it to condense.

Applying water fogging system to air-cooled chillers can improve the efficiency under most of the working conditions, as the water mist could lower the air temperature entering the condenser.

EFFICIENCY
Lower energy consumption

+ 30%

On typical air-cooled chillers, a reduction in condenser air temperature of 6 °C will result 14% improvement in efficiency and 12°C about 25-30%. High Pressure systems feature the lowest power consumption if compared to other humidification systems.

Power consumption is about 1.6 / 2.1 Watts per lbs. of evaporated water (3.5 / 4.5 W per Kg.).



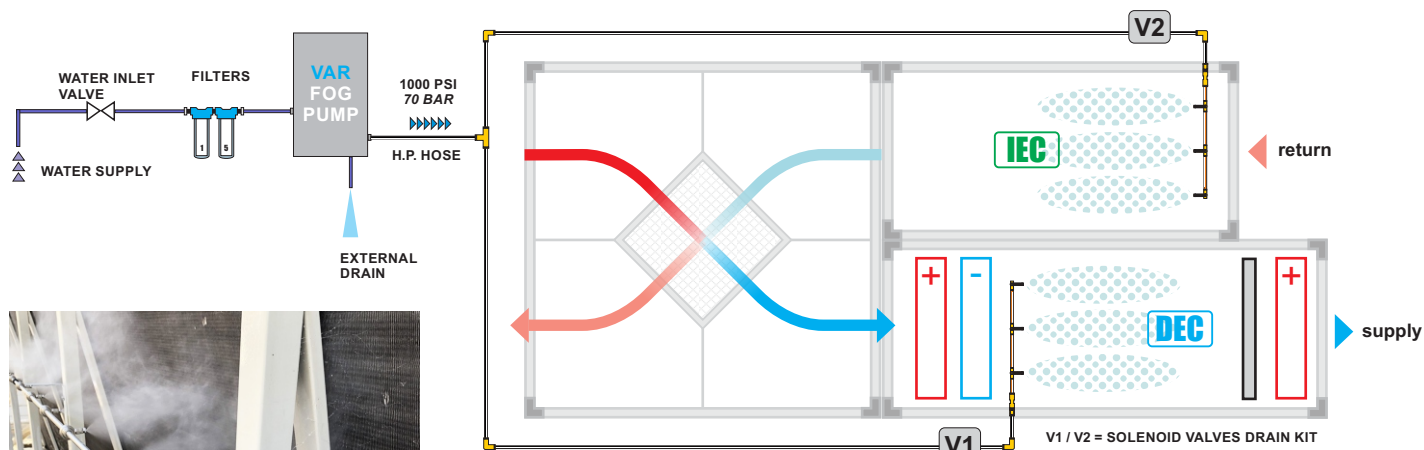
Reduce your bills with our range of energy efficient solutions.

These intelligent energy saving systems, pre-cooling, humidification and direct/indirect evaporative cooling, will improve energy efficiency and will help you to save money and save energy from daily AHU use.

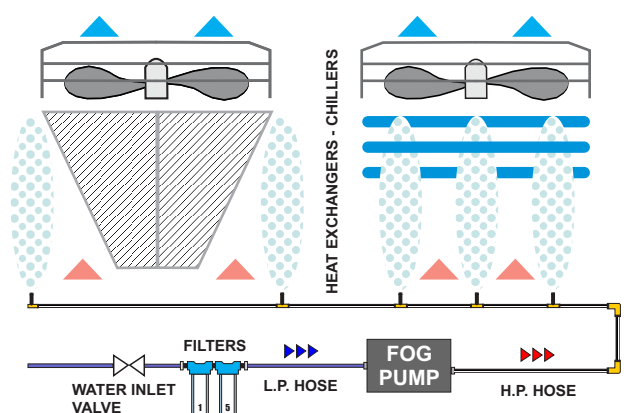
A logo featuring a green house icon with a leaf inside, followed by the text "Go Green!" in a bold, green font.
Go Green!
This product saves energy!

www.tecnocooling.com

Typical AHU, CHILLERS, EXCHANGERS layout



DEC: Humidification / Direct Evaporative cooling
IEC: Indirect Evaporative Cooling



Chillers & Heat exchangers mounting layout example

VAR series technical features (VFD pumps)

MISTMATIC VAR - 230V 50Hz or 60Hz - 1450 rpm

Code	Pressure		Nozzles*		Output lpm		Output gpm		Power	
	bar	psi	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	W	Ah (50Hz)
TC308084	70	1000	5 - 30	5 - 30	0.5 - 2.5	0.5 - 2.5	0.1-0.65	0.1-0.65	800	4
TC308085	70	1000	10 - 60	10 - 60	1 - 5	1 - 5	0.2-1.3	0.2-1.3	1000	5

300 Kg/h
600 lbs./h

Dimensions:
l. 650 w. 420 h. 360 mm
l. 25.6 w. 16.5 h. 14.2 in.
Weight: 82 lbs / 37 Kg

NT-FOG TIME VAR - 400V 50Hz or 60Hz - 1450 rpm

Code	Pressure		Nozzles*		Output lpm		Output gpm		Power	
	bar	psi	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	W	Ah (50Hz)
TC308082	70	1000	12 - 125	15 - 150	1 - 10	1.2 - 12	0.8-2.6	0.9-3.1	2000	5.0
TC308080	70	1000	18 - 190	22 - 228	1.5 - 15	1.8 - 18	1.2-3.9	1.4-4.7	2100	5.5
TC308081	70	1000	23 - 230	28 - 275	2 - 18	2.4 - 21	1.3-4.7	1.5-5.6	2660	7.0

1080 Kg/h
2380 lbs./h

Dimensions:
l. 1010 w. 440 h. 500 mm
l. 39.8 w. 17.3 h. 19.7 in.
Weight: 155 / 200 lbs. (70-90 Kg)
according to models

* 0.20 mm - 0.008" Nozzles

Get in touch

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