

Will your chiller handle the heat this summer ...??



Or will you experience nuisance trips requiring emergency service calls??

Roof temp over 50 °C



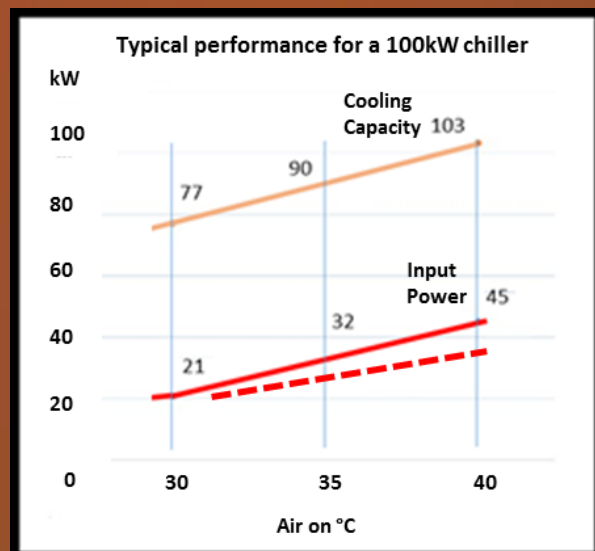
Higher discharge pressure



A spike in input power and head pressure trips

Avoid damaging your coils with direct spraying!

EcoMesh is an economical solution to cool the air on, shade from solar radiation, improve HVAC efficiency AND still allow free air flow into the coil when not in use.



Reducing entering air temperature can lower input power by 5-15%

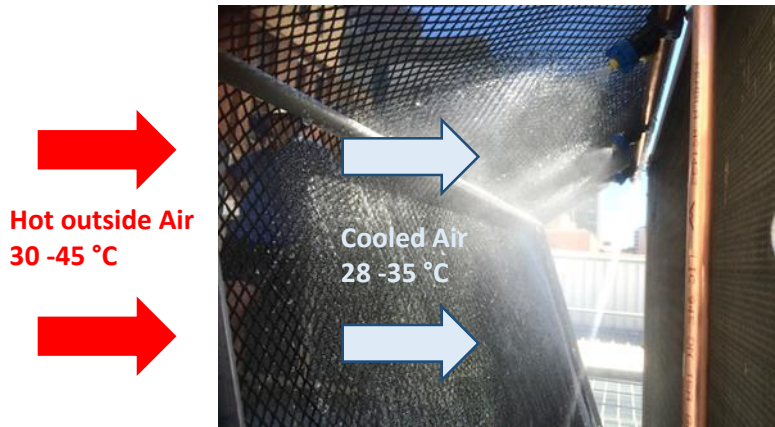
EcoMesh: Periodic water spray to cool air entering the coil

Water sprayed onto mesh for 2 to 10 secs every 30 secs

Evaporation between spray cycles cools incoming air

Free flowing air has negligible impact on static pressure and fan speed !!

Low water consumption - each mesh panel consumes an average of 20 litres per hour



Average cooling across all coils

Ambient Air On	Average Cooling	Typical Humidity
30	1-3 °C	40%
35	2-4 °C	30%
40	4-7 °C	20%
45	6-10°C	15%

(Actual cooling will depend on chiller and site characteristics)

Case Study: Emicon chillers in Adelaide, March 1st, 2016

At 3 PM, BOM data for Adelaide was 32.2 °C, RH of 18% and Delta T of 15.5 °C.

Actual ambient temperature on rooftop → 33°C

Temperature in shade behind mesh → 31°C

After 45 min, temperature along middle coils → 23°C (a 10°C reduction)

Allowing for losses on open ends, average cooling across all the coils → 7.5 °C

Mesh efficiency for this vertical coil → approx. 50% the Delta T of the day

Before: Soaker hose to prevent HP trips



EcoMesh installed March 2016



Measured results - inner coils

Dry mesh coil 31.2 °C



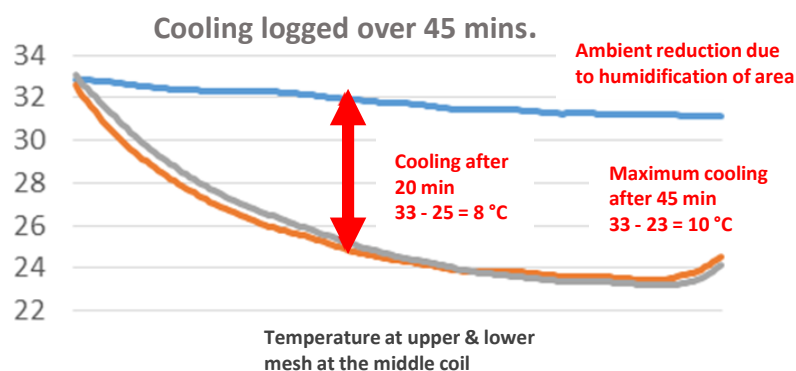
Dry mesh, discharge pressure 20.6 bar



Wet mesh coil 24.3 °C



Wet mesh, pressure dropped to 19.2 bar



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