

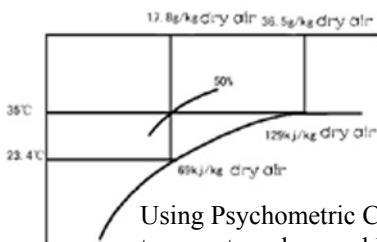
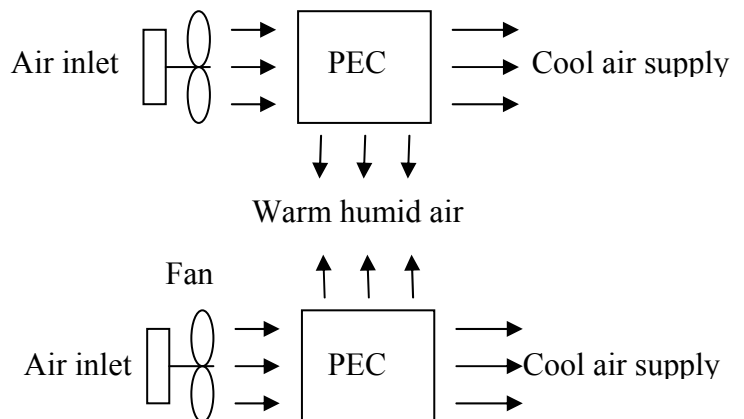
Task Evaporative Air Conditioner with PEC — TAC-2000 & Series

— Here is the innovative way to provide cool and dry air without using compressor and refrigerant

How it works

Ducted to the exhaust mounted on a wall or window, the evaporative air conditioner draws warm air from the room. The warm air is drawn through the Psychometric Energy Core (PEC) and split into two streams. One stream flows through the wet channels in the PEC to enhance evaporation of water sucked in the PEC and thus to cool the other air stream in the dry channels within PEC. The cooled air stream will then be circulated into the room. The warm air stream mixed with vapour will be discharged outside the room. After several circulations, the room temperature will be reduced to certain temperature and the circulation fan can be stopped until the room temperature rises again.

In the system, no compressor is used. The energy consumption of the fan is very low. In the device, only water is the cooling media and no refrigerant is used, therefore, it is environmental friendly. Since no vapour is mixed with the cooled air, the RH of the cooled air is almost same as that of the air drawn into the device. The device should perform much better within dry and hot environment. This unit is suitable for providing cooling air for large areas, such as lounge, offices or halls.



Using Psychrometric Chart to predict air temperature drop and RH

Specifications for the TAC-2000 series

Type		TAC-2000	TAC-3000	TAC-4000	TAC-6000
Fan flow rate	m ³ /h	2000	3000	4000	6000
Cool air temperature	°C	22	22	22	22
Cooling capacity	W	8700	13000	17400	26000
Water consumption	L/h	13	20	26	40
Fan power	W	250	360	500	800
Overall size mm	L, mm	730	730	780	930
	W, mm	680	1000	1360	1360
	H, mm	1280	1280	1280	1280
Dry weight	kg	40	60	80	100

Design condition: 35°C with RH 23%