

HTC Humidity Temperature Control Unit



Manufactured
by Armcar



Humidity Temperature Control Unit Overview

The HTC series are packaged Humidity and Temperature Control units designed to provide a practical solution for temperature and humidity control where there is a significant requirement for fresh air. The reduction of moisture content is achieved through the careful design of compressor capacity, coil capacity and air flow to cater for the specific ambient conditions. Where standard airconditioning systems cope well with recirculated return air temperatures up to 24°C, the HTC can be designed to cope with much higher 'air on' conditions.

Humidity control involves reducing the temperature below dew point, which is usually too cold for supply air temperatures. To offset this the HTC incorporates a condenser reheat coil so that the outlet air can be tempered after the humidity control process. Standard equipment configuration includes EC plug fans, stainless steel drain tray and associated controls.

With nominal capacities of 400 – 5,400 l/sec, and cooling capacities of 20 kW – 270 kW, the HTC are project specific, designed for the appropriate climatic conditions.

Applications:

HTC units are ideally suited to applications where both humidity and temperature control is essential such as:

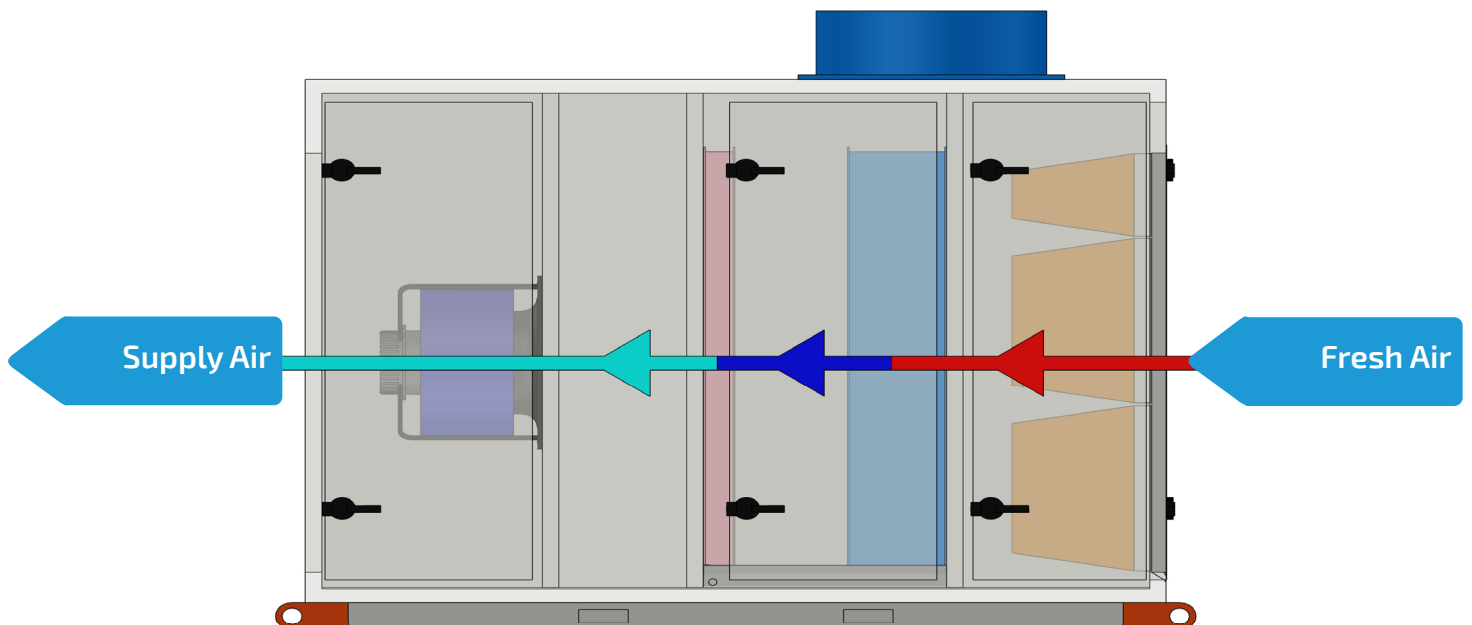
- Living quarters and reception/community centres in hot and humid locations
- Libraries, surgeries, laboratories and archive storage
- Process manufacturing



Performance Data

Model Number	Nominal Capacity (l/sec)	Cooling Capacity kW*	Reheat Capacity kW*	Dimensions (mm) H x W x L
HTC400-20P3	400	19.5	5.5	1400 x 1300 x 2200
HTC900-45P3	900	43.9	12.4	2100 x 1600 x 2300
HTC1800-90P3	1800	87.7	25.4	2100 x 2750 x 2300
HTC2700-135P3	2700	131.7	37.8	2100 x 3500 x 2300
HTC3600-180P3	3600	175.4	50.2	2100 x 5250 x 2300
HTC5400-270P3	5400	263.4	75.6	2100 x 6600 x 2300

* Rated to perform as stated at Brisbane Airport comfort design conditions of 30.3°C DB/24.7°C WB. Subject to change based on specific job requirements.





Fresh Air Indoors

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