

# DEHUMIDIFICATION

## HTC Humidity Temperature Control Unit

### HTC2700-135P3 Technical Data

#### Technical Specifications

##### Nominal Airflow

Fresh Air (l/sec)	2700
Supply Air (l/sec)	2700
Condenser Air (l/sec)	9000

##### Supply Fan

Fan Type	EC Plug
Motor Power (Watts)	4450
External Static (Pa)	250
Fan Diameter	450
Number of Fans	1

##### Exhaust Fan

Fan Type	EC Plug
Motor Power (Watts)	3700
Fan Diameter	630
Number of Fans	2

##### Electrical

\*Cable to be sized to Maximum FLA

Supply Fan (A)	6.8 - 6.8 - 6.8
Condenser Fan (A)	11.2 - 11.2 - 11.2
Compressor (A)	82.4 - 82.4 - 82.4
Nominal Run Current (A)	100.4 - 100.4 - 100.4
Maximum Full Load (A)	110.4 - 110.4 - 110.4
Volt/Phase	415V/3ph

##### Controls

0-10V DC (Fan Control)	Included
24V AC Control Relay	Included
Fan Fault Signal	Included
Fan Run Status	Available
Switchboard	Yes
Circuit Breakers	Yes

##### Cabinet Construction

Casing	50mm Insulated Panel
Finish	Surf Mist Colourbond
Insulation Value	R2.0
Side Access Panels	Included

##### Coil Selection

Evaporator Coil FL x FH (mm)	1200 x 1219.2
Face Velocity (m/sec)	1.85
Reheat Coil FL x FH (mm)	1200 x 1219.2
Face Velocity (m/sec)	1.85
Condenser Coil FL x FH (mm)	(2x) 1000 x 1625.5
Face Velocity (m/sec)	2.77
Anti-Corrosion Coil Coating	Included
Drain Tray	Stainless Steel

##### Refrigeration

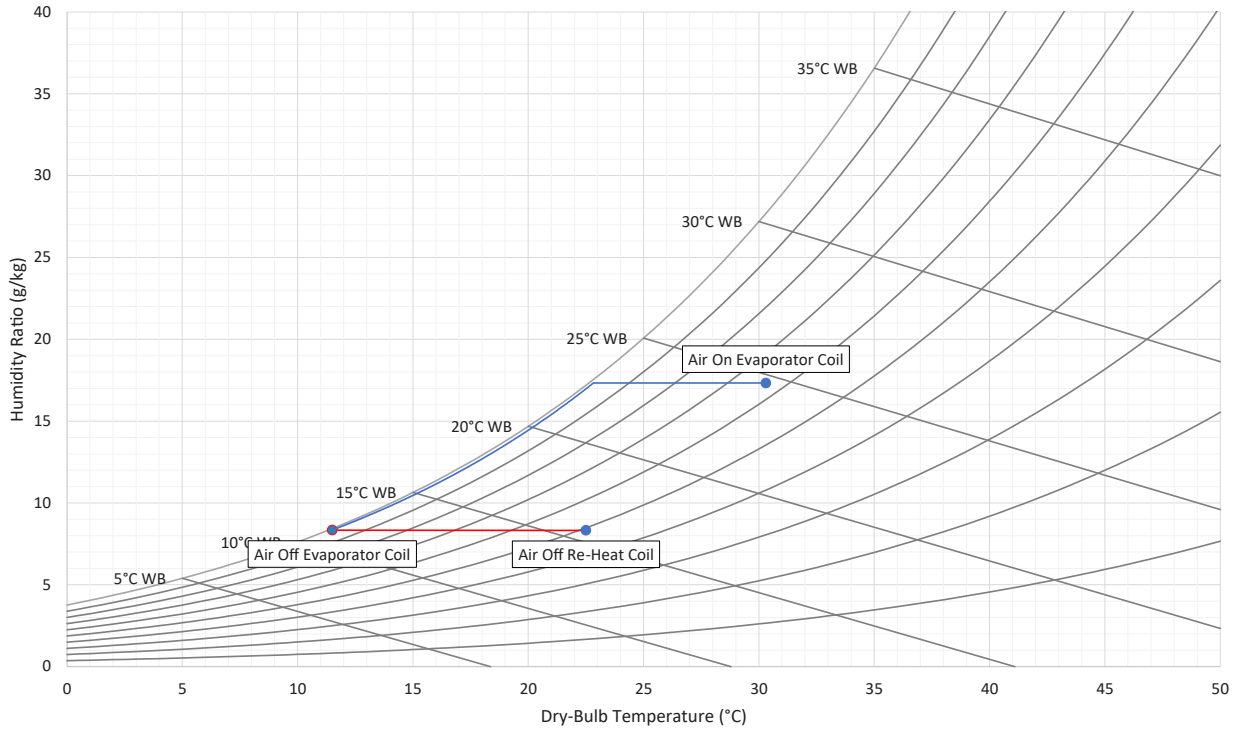
Cooling Capacity (kW)	131.7
Reheat Capacity (kW)	37.8
Inverter Compressor	Standard (x2)
Expansion Device	Electronic Valve
Head Pressure Control	Included

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## Psychometric Chart – HTC2700-135P3



### Design Conditions

Based on Brisbane Aero

Ambient (DB/WB) Summer 30.3/24.7

Moisture Content In 17.34

Moisture Content Out 8.35

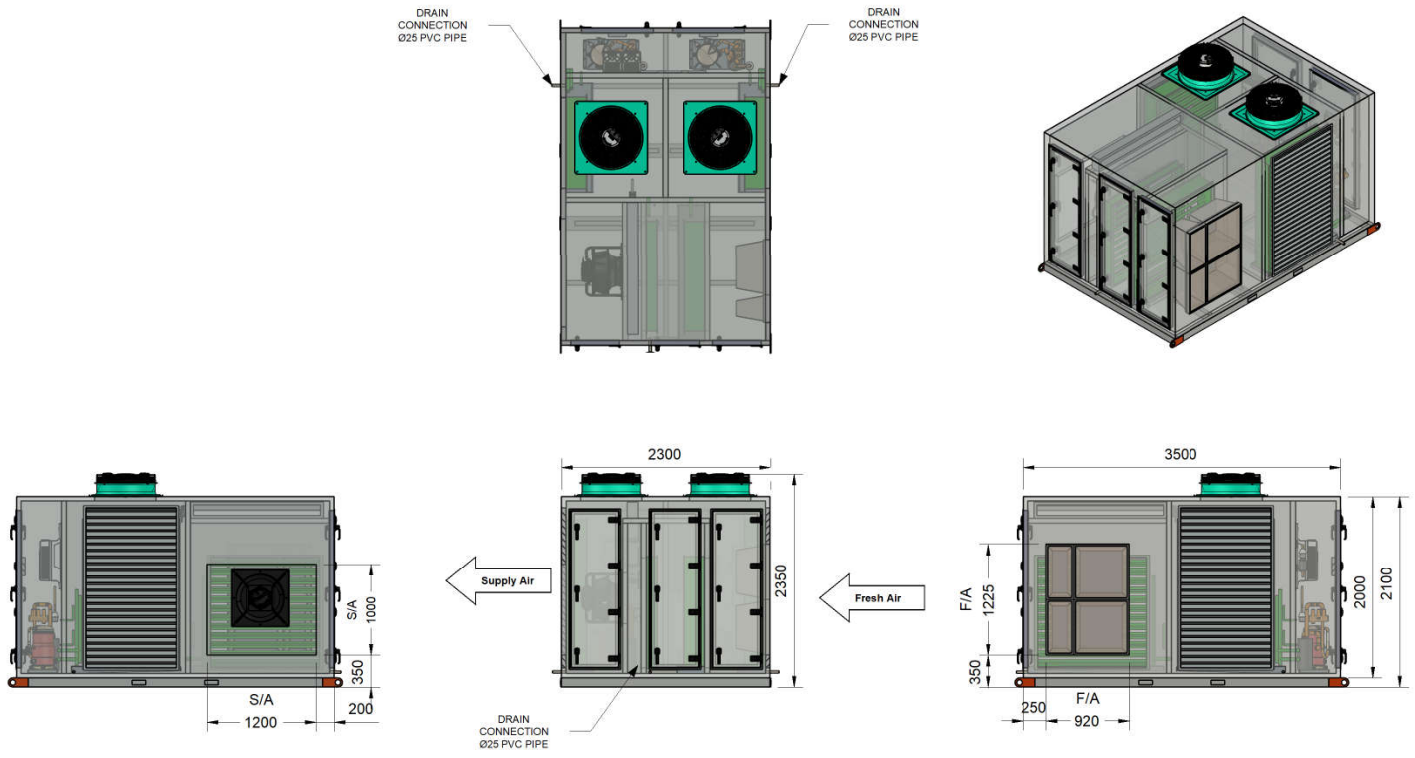
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# Technical Drawings – HTC2700-135P3



Dimension	
Height (mm)	2100
Width (mm)	3500
Length (mm)	2300
Weight (Kg)	2450

Duct Sizes	
Fresh Air (mm)	920 x 1225
Supply Air (mm)	1200 x 1000

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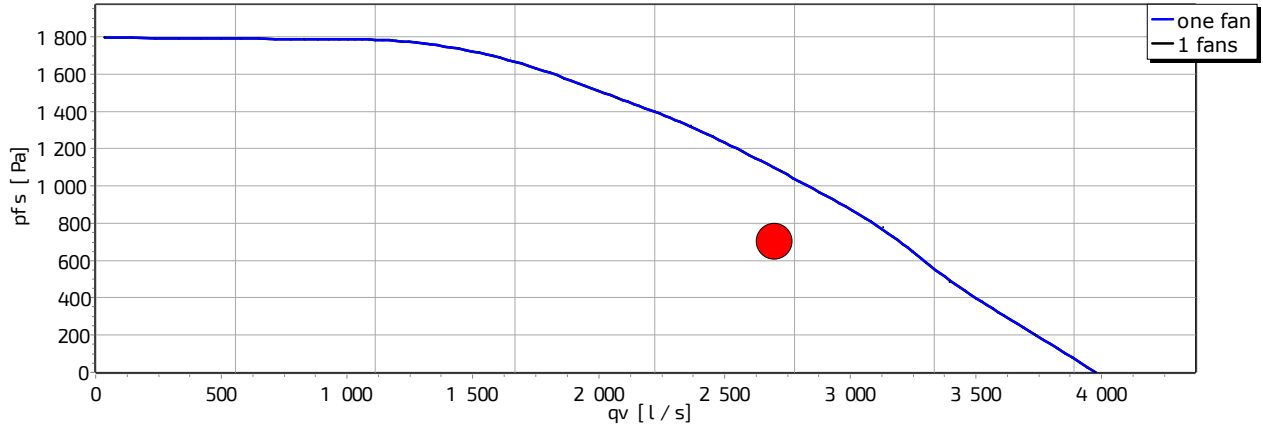
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## Supply Fan Performance Data

\*Duty point - 2700 L/s at 700 Pa Total Static Pressure (300Pa External Static Pressure)



## Sound Power Levels

\*Sound power levels at 700 Pa Total Static Pressure and 2700 L/s Total Air Volume

Inlet Rating dB		Outlet Rating dB	
63 Hz	46.3	63 Hz	49.8
125 Hz	63.8	125 Hz	64.7
250 Hz	73.9	250 Hz	73.5
500 Hz	77.0	500 Hz	80.0
1K Hz	76.2	1K Hz	84.6
2K Hz	78.0	2K Hz	86.2
4K Hz	79.1	4K Hz	82.2
8K Hz	80.2	8K Hz	80.6
LwA	85.7	LwA	90.4

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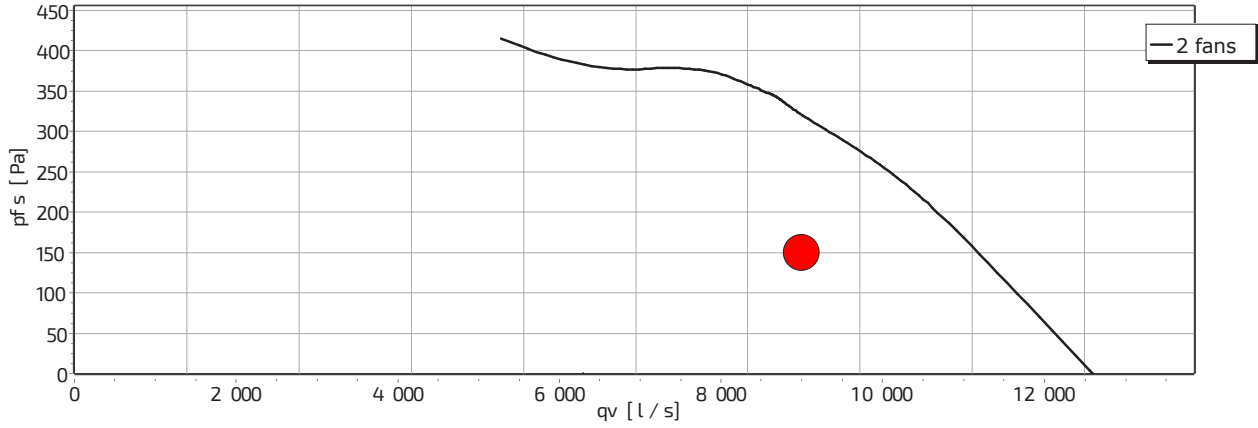
HTC Humidity Temperature Control Unit –

HTC2700-135P3 Technical Data



## Condenser Fan Performance Data

\*Duty point - 9000 L/s at 150 Pa Total Static Pressure



## Sound Power Levels

\*Sound power levels at 150 Pa Total Static Pressure and 9000 L/s Total Air Volume

Inlet Rating dB		Outlet Rating dB	
63 Hz	46.4	63 Hz	51.7
125 Hz	62.6	125 Hz	64.4
250 Hz	66.2	250 Hz	67.4
500 Hz	71.7	500 Hz	72.6
1K Hz	72.8	1K Hz	73.9
2K Hz	71.3	2K Hz	71.6
4K Hz	67.5	4K Hz	67.1
8K Hz	60.5	8K Hz	59.3
LwA	77.9	LwA	78.6



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