

<b>ECOTECHX</b>	
<b>Model</b>	<b>ETC-C20</b>
Company	EcoTechX Limited
Address	Ellison Building, Newcastle Upon Tyne, NE18ST, UK
Contact Details	<a href="mailto:info@ecotechx.com">info@ecotechx.com</a> , <a href="http://www.ecotechx.com">www.ecotechx.com</a>
Corresponding Person	Dr. Muhammad Ahmad, Chief Technology Officer

<b>ETC-B15 Performance Parameters</b>		
Design Cooling Capacity	Rton	20
Design Outdoor Air Inlet Temperature	°C	45.0
Design Outdoor Air Inlet Relative Humidity	%	40.0
Design Supply Air Temperature	°C	24.0
Design Supply Air Relative Humidity	%	40.0
Design Working Air Inlet Temperature	°C	45.0
Design Working Air Inlet Relative Humidity	%	40.0
Design Working Air Outlet Temperature	°C	29.0
Design Working Air Outlet Relative Humidity	%	100
Water Consumption	l/h/Rton	2-3
<b>Performance Data</b>		
Coefficient of Performance		12
Energy Saving*	%	65
CO <sub>2</sub> Saving*	%	65
Cost Saving*	%	60

<b>ETC-C20 Technical Data</b>		
<b>System Dimensions</b> H x W x D	mm	1100 × 1000 × 1200
<b>Operating Weight</b> (nom) Machine	kg	110
<b>Construction</b> Material / Colour		Frame and Casing: Aluminium (Mate Grey) Heat Exchanger: Plastic (white) Fan Frame: Die Cast Aluminium Fan Impeller: (PBT UL94V-0 Plastic)
<b>Fan &amp; Motor</b>		
<b>ETC-C 20-F1</b>		
Dimensions (H x W x D)	mm	800 x 800 x 150
Quantity		2
Motor Shaft Power per motor	W	2500
Fan static Pressure	Pa	196
Nominal Air Volume	m <sup>3</sup> /s	3.5
Motor		AC Shaded Pole, Impedance Protected, Class B Insulation, Dual Ball Bearing
Supply Voltage	VAC	220-240
Rated Voltage	VAC	220
Maximum Current	A	8.0
Frequency	HZ	50
Weight	kg	10
Compliance/certifications		UL, cUL, TUV, CE, UL94-V0
Noise Level	db	50-60
<b>Pump</b>		
<b>ETC-C 20-P1</b>		
Dimensions (H x W x D)	mm	200 x 130 x 80
Pressure	bar	2.4
Open flow	LPM	4.3
Working Voltage	VDC	12
Rated Current	A	1.7
Weight	kg	0.25
<b>Nozzle (ETC-C 20-N)</b>		
Orifice Diameter	mm	0.80
Spray Height	mm	0.28
Weight	g	57
Connection Type	mm	¼ NPT male

Number of Nozzles		3
<b>Instrumentation and Data Logging</b>		
Inlet Air Temperature	°C	0-80 (± 0.15 °C)
Supply Air Temperature	°C	0-80 (± 0.15 °C)
Data Logger		ETC-C20-DAQ
Data Storage Capacity		3 days
<b>Control Panel</b>		
On/Off Switches		Outdoor Air Fan Supply Air Fan Pump
Emergency Switch		Safety Switch
<b>Air Supply Connections</b>		
Outdoor Air Inlet Duct	mm	500
Supply Air Duct	mm	500
Working Air Inlet Duct	mm	500
Working Air Outlet Duct	mm	500

<b>NIEC Overall System Input Data</b>		<b>ETC-C 20</b>
<b>Parameter</b>	<b>Unit</b>	<b>Value</b>
Nominal Run Amps	A	9.0
Maximum Start Amps	A	9.0
Recommended Mains Fuse	A	25
Max. Incoming Cable Size - Mains	mm <sup>2</sup>	6.0
Mains Supply	VAC	220/230 @ 50/60 HZ
Water Inlet Connection Diameter	mm	10mm Push fit (Level Controlled)

\*Compared with the MVC system with COP = 3.5