

ECOTECHX	
Model	ETC-B10
Company	EcoTechX Limited
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ETC-B10 Performance Parameters		
Design Cooling Capacity	Rton	10
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
Performance Data		
Coefficient of Performance		12
Energy Saving*	%	65
CO ₂ Saving*	%	65
Cost Saving*	%	60

ETC-B10 Technical Data		
System Dimensions H x W x D	mm	1100 × 1000 × 700
Operating Weight (nom) Machine	kg	70
Construction Material / Colour		Frame and Casing: Aluminium (Mate Grey) Heat Exchanger: Plastic (white) Fan Frame: Die Cast Aluminium Fan Impeller: (PBT UL94V-0 Plastic)
Fan & Motor		
		ETC-B10-F1
Dimensions (H x W x D)	mm	500 x 500 x 150
Quantity		2
Motor Shaft Power per motor	W	1200
Fan static Pressure	Pa	196
Nominal Air Volume	m ³ /s	1.7
Motor		AC Shaded Pole, Impedance Protected, Class B Insulation, Dual Ball Bearing
Supply Voltage	VAC	220-240
Rated Voltage	VAC	220
Maximum Current	A	3.0
Frequency	HZ	50
Weight	kg	10
Compliance/certifications		UL, cUL, TUV, CE, UL94-V0
Noise Level	db	50-60
Pump		
		ETC-B10-P1
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
Nozzle (ETC-B10-N)		
Orifice Diameter	mm	0.80
Spray Height	mm	0.28
Weight	g	57
Connection Type	mm	¼ NPT male

Number of Nozzles		3
Instrumentation and Data Logging		
Inlet Air Temperature	°C	0-80 (± 0.15 °C)
Supply Air Temperature	°C	0-80 (± 0.15 °C)
Data Logger		ETC-A5-DAQ
Data Storage Capacity		3 days
Control Panel		
On/Off Switches		Outdoor Air Fan Supply Air Fan Pump
Emergency Switch		Safety Switch
Air Supply Connections		
Outdoor Air Inlet Duct	mm	500
Supply Air Duct	mm	500
Working Air Inlet Duct	mm	500
Working Air Outlet Duct	mm	500

NIEC Overall System Input Data		ETC-B10
Parameter	Unit	Value
Nominal Run Amps	A	7.0
Maximum Start Amps	A	7.0
Recommended Mains Fuse	A	15
Max. Incoming Cable Size - Mains	mm ²	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