

humidry® Core Module – Technical Specification

Engineering Reference for System Integrators & OEMs

Specification	Conditions	BRA Series	BRC Series
Operation Parameter	Operation Temperature	>0°C ~ 50°C	>0°C ~ 50°C
	Operation Relative Humidity	0%RH ~ 100%RH	0%RH ~ 100%RH
	Controlling Relative Humidity	40%RH ~ 70%RH	40%RH ~ 70%RH
Max Dehumidification Capability	25°C / 80%RH	7L / Day	7L / Day
	25°C / 40%RH	7L / Day	7L / Day
	10°C / 80%RH	7L / Day	7L / Day
	10°C / 40%RH	7L / Day	7L / Day
Max Air Flow [CFM]	—	100 CFM	100 CFM
Max Air Flow [m³/h]	—	170 m³ / h	170 m³ / h
Outlet Air Duct Size	—	4" (10 cm)	4" (10 cm)
Voltage	AC	200V, 220V 230V, 240V	100V, 110V 120V
Frequency	Sinusoidal Wave	50Hz / 60Hz	50Hz / 60Hz
Maximum Power Consumption	Standby Monitoring	0.004 kW	0.004 kW
	Cool Air Drying	0.50 kW	0.50 kW
	Warm Air Drying	1.30 kW	1.20 kW
	Hot Air Drying	1.30 kW	1.20 kW
	Constant-Temperature Heating	1.70 kW	1.50 kW
	Forced Ventilation	0.05 kW	0.05 kW
	Air Circulation	0.05 kW	0.05 kW
Dehumidification Efficiency	Liters per Kilowatt Hour	0.729	0.729
Typical Sound Level	Normal (at 3 Meters)	42 dB	42 dB
	Turbo (at 3 Meters)	47 dB	47 dB
Filter Type	—	Washable / Reusable	Washable / Reusable
Effective Area	Ceiling at 3 Meters	15 m²	15 m²
Effective Volume		45 m²	45 m²
Wall Panel/ Remote Control	—	Optional	Optional
Automation Control	Physical Layer	RS-485	RS-485
	Baud Rate	115,200 bps	115,200 bps
	Max. Distance	2,000 meters	2,000 meters
Key Component Material Type	Main Body Encloserer	PA + GF30 Thermalplastic	PA + GF30 Thermalplastic
	Bottom Panel	ABS	ABS
	Heater/Rotor Assembly	PET+ GF30 Thermalplastic	PET+ GF30 Thermalplastic
	PTC Heater Encloserer	PPS Thermalplastic	PPS Thermalplastic
	Air Valve Assembly	PPS Thermalplastic	PPS Thermalplastic
Dimensions	Above Ceiling Portion	L434 x W340 x H198 [mm]	L434 x W340 x H198 [mm]
	Below Ceiling Panel Portion	L510 x W416 x H42 [mm]	L510 x W416 x H42 [mm]
	Overall	L510 x W416 x H240 [mm]	L510 x W416 x H240 [mm]
Weight	Unit	7.2 kg	7.2 kg
Air Duct Requirement	4" (10 cm) Insulated Flexible Duct	Required	Required
Installation Cut-out	—	L450 x W350 [mm]	L450 x W350 [mm]