SEELEY INTERNATIONAL

Breezair By SEELEY INTERNATIONAL

Supercool

TECHNICAL SPECIFICATIONS - EXS220

GENERAL SPECIFICATIONS:

CABINET and WATER RESERVOIR
The cabinet and water reservoir components are injection moulded structural foam polypropylene (Permatuf®). The cabinet and reservoir are UV stabilised and corrosion free. The pump is secured with two stainless steel screws.

FAN
The fan is a centrifugal type with forward curved blades and double inlets, moulded in one piece from polypropylene. It is inherently, statically and dynamically balanced. The fan shaft is extruded aluminium, marine grade 6106-T6. The shaft does not rotate. The fan housing is moulded from high strength structural polymer, incorporating resilient mounts for the shaft.

FAN MOTOR
Electronically commutated permanent magnet motor, incorporating sealed ball bearings. The rotor is external to the stator and is injection moulded from glass reinforced fire resistant polymers. For safety, the motor is fitted with auto re-set overload protection.

WEATHERSEAL
The weatherseal consists of a polypropylene blade, hinged and counterbalanced, to open automatically when the fan is activated, and to close when the fan is switched off. Latching is by the weatherseal counter balance arm engaging a spring clip mounted to the fan housing.

MAIN CONNECTION DUCT
The main connection duct must incorporate a raw edge or safe edge to avoid fouling of the weatherseal.

ELECTRICAL CONTROL
The electrical control box is pre-wired within the cooler and incorporates an isolating switch.

A 4 metre long power supply cord is supplied as standard on all models. Provision is included for plug-in connection of drain valve and solenoid kits. A 15 amp circuit breaker is fitted to the enclosure.

THERMOSTAT CONTROL
EXS model coolers feature the MagIQtouch® Controller, for full automatic control. Connection of the controller to the control box is via the 20 metre low voltage cable supplied.

WATER CONNECTION
Water supply connection is via a flexible connector which is terminated with a 1/2" BSP compression nipple. An isolating valve must be fitted adjacent to the cooler for service. A drain-down facility is required in areas subject to freezing. The pump is a centrifugal type with encapsulated windings. Patented water distribution trays are moulded from polypropylene.

COOLING PADS
Cooling filter pads are black Mini-Cell^ Chillcel® fabricated, honeycomb, high efficiency type.

COLOURS
EXS Coolers are available in "Slate Grey" colour.

AIR FLOW PERFORMANCE SUMMARY

Model	Airflow L/s (m^3/h) @ 80Pa	Motor W	Air Flow - L/s (m^3/h) versus Static Pressure (Pa)							
			0	40	80	120	160	200	240	280
EXS220	2540 (9140)	1500	2720 (9790)	2640 (9500)	2540 (9140)	2410 (8680)	2260 (8140)	2100 (7560)	1920 (6910)	1710 (6160)

It is a policy of Seeley International to introduce continual product improvement. Accordingly specifications are subject to change without notice.

ES E122-B EU 2010

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Specification		EXS220
Airflow	Actual @ 80Pa (L/s)	2540
	Actual @ 80Pa (m^3h)	9140
Cooling Capacity*	kW	15.1
Evaporative Efficiency	Percentage (%)	90.8
Power Consumption (total)	Power Max (W)	1860
	Power Min (W) (vent only)	70
	Current - Rated (A)	9.0
	Energy Efficiency Ratio (EER)	8.12
Power Supply	Voltage / Phases / Hz	220-240 / 1 / 50
Controller	Type	Digital
Fan	Type	Centrifugal
	Diameter - External (mm)	460
	Width (mm)	380
Motor	Type	Direct Drive
	Speed Max (rpm)	680 VAR
	Output Max (W)	1500 @ 200-264V
	Current Rated (A)	9.2
	Overload	Auto Reset
	Enclosure Rating	IP2X
Pump	Type	Centrifugal
	Motor	Synchronous
	Power - Rated (A)	0.25
	Flow Rate (L/min)	21
	Voltage / Phases / Hz	230 / 1 / 50
	Overload	Thermal One Shot Fuse
	Enclosure Rating	IPX4
Cooling Pad Chillcel	Size (mm)	800 x 635H x 120 (4 pads)
	Pad Area (m^2)	2.03
Water	Tank Capacity (L)	11
	Inlet (mm/inches)	12.7mm / 1/2" male BSP
	Drain (mm/inches) Configurable to local requirements	40mm / 1½" male BSP
Shipping	Dimensions (mm) including pallet	1160 x 1160 x 955H
	Volume (m^3)	1.29
	Mass - Shipping (kg)	87
	Operating (kg)	94
Connecting Duct	Length & Width (mm)	550 x 550

* Cooling capacity measured to Australian Standard AS2913-2000, ambient of 38°C dry bulb & 21°C wet bulb, with room exit temperature of 27.4°C.

Model	Speed	Radiated Sound Power Level (dBA re 1pW) Octave Band Centre Frequency							Total Sound Power (dBA re 1pW)
		125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	
EXS220	10	61	63	67	70	67	61	53	74

NATA WORLD RECOGNISED ACCREDITATION

Air flow performance has been measured in accordance with Australian Standard AS2913:2000 "Evaporative Air Conditioning Equipment" by Meridian Laboratories Pty Ltd

*Meridian Laboratories is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration. Registration No.: 3697

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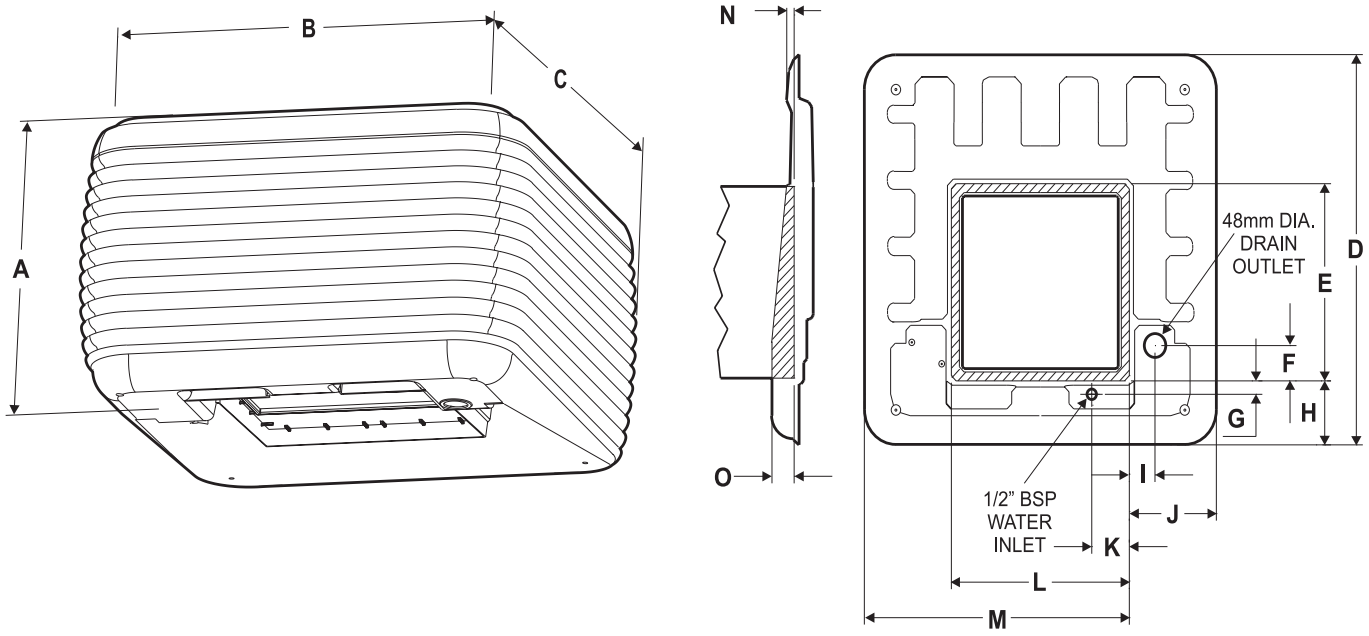

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
EXS220	860	1160	1160	1108	555	109	38	182	81	274	118	555	834	38	84

Dimensions are in mm