

TECHNICAL SPECIFICATIONS

EA120D, EA120S/SV & EA120T

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. All cabinet and reservoir mouldings are slate grey in colour.

DISCHARGE OPTIONS

EA Coolers are available in Down, Side and Top Discharge configuration. Side and Top Discharge coolers are provided with a flexible, canvas duct connector.

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.

FAN SHAFT AND BEARINGS

The fan shaft is stainless steel, hollow square section. This provides efficient torque transfer without the use of screw fastenings. Sealed bearings are located with resilient mounts.

FAN HOUSING

The fan housing is moulded from high strength structural polymer, incorporating resilient mounts for the shaft.

FAN MOTORS

Motors are two speed, single phase type, with sealed ball bearings and resilient mounts. For safety, the motor is fitted with auto re-set overloads and one time thermal fuses on active leads. Selected models are available with variable speed motors.

ELECTRICAL CONTROL

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

LOUVRE PANELS

Louvre panels are moulded in high strength structural polymer with UV inhibitor additives, incorporating supports to minimise filter pad sag.

WATER CONNECTION

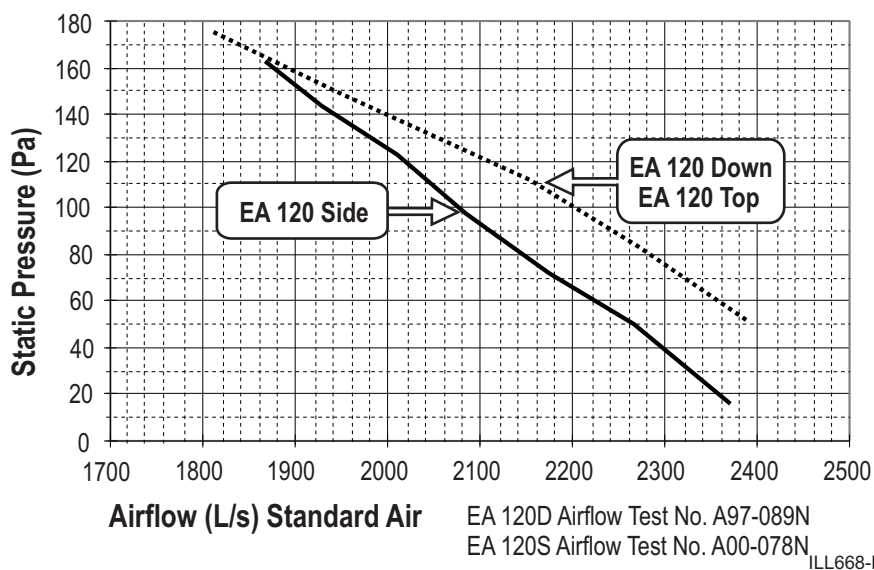
An isolating valve must be fitted adjacent to the cooler for service. A drain-down facility is required in areas subject to freezing. Water supply connection to 1/2" BSP float valve fitting.

WATER DISTRIBUTION

The pump is a centrifugal type with encapsulated windings. Patented distribution trays are moulded from polymer.

FILTER PADS

The cooling pads are made of Aspen shredded wood. Operating saturation efficiencies vary from 85% to 93%.



Airflow performance has been measured in accordance with Australian Standard AS 2913 - 2000 "Evaporative Air Conditioning Equipment" by Meridian Laboratories Pty Ltd.

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Technical Specifications EA120D/T EA120S/SV

Technical Specifications		EA120D/T	EA120S/SV
Airflow @ 80Pa	Industry standard (L/s)	2270	2220
Cooling capacity*	(kW)	10.9	12.5
Power consumption (total)	Watts max / min	1135 / 225	1147 / 225
	Current max (amp)	5.4	5.4
	Energy Efficiency Ratio (EER)	7.85	8.85
Power supply	Voltage / Phases / Hz	230 / 1 / 50	230 / 1 / 50
Controller	Type	Analogue	Analogue
Fan	Type	Centrifugal	Centrifugal
	Diameter & Width (External mm)	380 x 460	380 x 460
Motor	Type	PSC	PSC
	Speed max (rpm)	1400	1400
	Capacitor (uF/V)	20/440	20/440
	Rating Watts max / min	750 / 225	750 / 225
	Overload	Auto reset	Auto reset
	Enclosure	IP 21	IP 21
Pump	Type	Centrifugal	Centrifugal
	Motor	Synchronous	Synchronous
	Rating Watts (input)	40	40
	Flow rate (L/min)	19	19
	Voltage / Phases / Hz	230 / 1 / 50	230 / 1 / 50
	Overload	Auto reset	Auto reset
Cooling Pad Aspen	Enclosure rating	IP X4	IP X4
	Size (mm)	800 x 890 (H) (4 pads)	800 x 890 (H) (3 pads)
	Pad area (m ²)	2.80	2.10
Water	Saturation Efficiency (% @ 80Pa)	85.2 (S97-086N)	92.5 (S01-060R)
	Tank capacity (L)	25	38
	Inlet (mm/inches)	12.7mm / ½" male BSP	12.7mm / ½" male BSP
Shipping	Drain (mm/inches)	40mm / 1½" male BSP Configurable to Local Regulations	40mm / 1½" male BSP Configurable to Local Regulations
	Dimensions including pallet (mm)	945 x 1005 x 1185 (H)	945 x 1005 x 1185 (H)
	Volume (m ³)	1.13	1.13
	Mass - Shipping (kg)	83	83
Connecting duct (raw edged)	Operating (kg)	95 (D) 106 (T)	106 (S)
	Length x width (mm)	550 x 550 (D) 580 x 460 (T)	506 x 385 (S)

* Cooling capacity measured to Australian standard AS 2913 - 2000, ambient of 38°C dry bulb & 21°C wet bulb, with room exit temperature of 27.4°

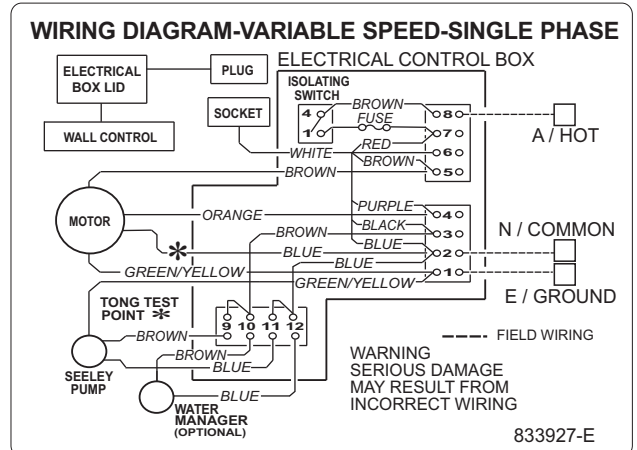
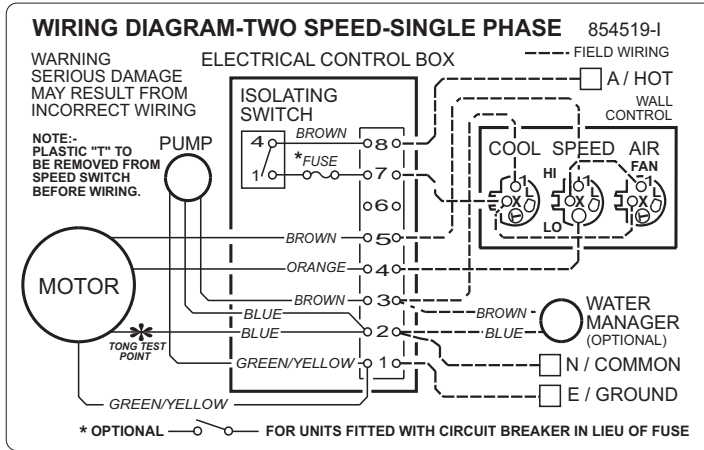


*Meridian Laboratories is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with it's terms of registration.

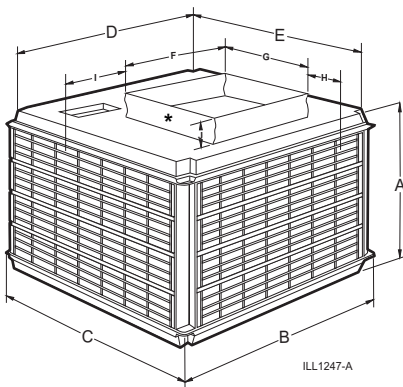
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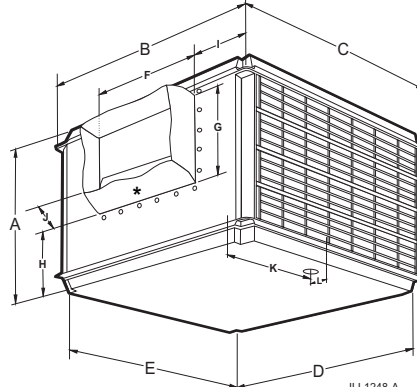
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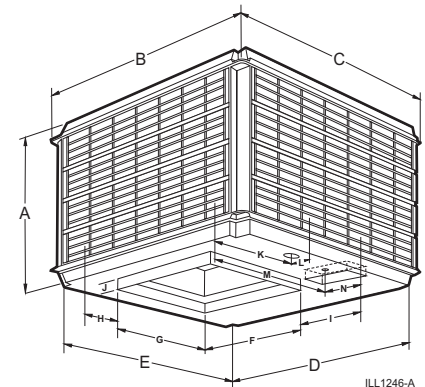
Top Discharge



Side Discharge



Down Discharge



* **Note:** For canvas connection use maximum duct size 500 x 380mm. Where possible always expand duct quickly to minimum 500 x 500mm to reduce friction. Expansion angle recommended 15 to 20 degrees.

Model	A	B	C	D	E	F	G	H	I	J	K	L
EA120 Top	1060	1005	945	930	870	580	460	90	200	40	565	110
EA120 Side	1060	1005	945	930	870	506	385	395	237	120	565	110
EA120 Down	1060	1005	945	930	870	552	552	45	214	50	565	110

Dimensions are in mm.

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