

TECHNICAL SPECIFICATIONS - EA120D, EA120S & 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. Side Discharge coolers are provided with a flexible, canvas duct connector.

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.

LOUVRE PANELS

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

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 MOTOR

Motors are variable 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.

ELECTRICAL CONTROL

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

An 8 amp fuse is wired within the control box enclosure.

WATER CONNECTION

Water supply connection is to a ½" BSP float valve male nipple. An isolating valve must be fitted adjacent to the cooler for service. A drain-down facility is required in areas subject to freezing.

WATER DISTRIBUTION

Patented distribution trays are moulded from polymer and provide an even water distribution across the pads.

COOLING PADS

The cooling pads are made of Aspen shredded wood.

AIR FLOW PERFORMANCE SUMMARY

Model	Airflow m3/hr @ 80Pa	Motor W	Air Flow m3/hr versus Static Pressure (Pa)					
			0	40	80	120	160	
EA120D/T	7270	750	8170	7780	7270	6660	5760	4320
EA120S	6410	750	7130	6880	6410	5650	4720	2990

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

TECHNICAL SPECIFICATIONS - EA120D, EA120S & EA120T

Specification		EA120D	EA120S	EA120T
Airflow @ 80Pa	Actual @ 80Pa (L/s)	2020	1720	2020
	Actual @ 80Pa (m ³ /h)	7270	6190	7270
Cooling Capacity*	(kW)	11.3	9.3	11.3
Evaporative Efficiency	Percentage (%)	89.1	84.7	89.1
Power Consumption (total)	Power Max/Min (W)	1147	1147	1147
	Current - Rated (A)	6.0	6.0	6.0
	Energy Efficiency Ratio (EER)	6.97	6.97	6.97
Power Supply	Voltage / Phases / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Controller	Type	Digital	Digital	Digital
Fan	Type	Centrifugal	Centrifugal	Centrifugal
	Diameter - External (mm)	380 x 460	380 x 460	380 x 460
Motor	Type	PSC	PSC	PSC
	Speed Max (rpm)	1400 VAR	1400 VAR	1400 VAR
	Output Max (W)	750	750	750
	Current Rated (A)	5.2	5.2	5.2
	Capacitor (uF/V)	20 / 440	20 / 440	20 / 440
	Overload	Auto Reset	Auto Reset	Auto Reset
	Enclosure Rating	IP21	IP21	IP21
Pump	Type	Centrifugal	Centrifugal	Centrifugal
	Motor	Synchronous	Synchronous	Synchronous
	Power - rated (A)	0.40	0.40	0.40
	Flow Rate (L/min)	19	19	19
	Voltage / Phases / Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
	Overload	Thermal One Shot Fuse	Thermal One Shot Fuse	Thermal One Shot Fuse
	Enclosure Rating	IPX4	IPX4	IPX4
Cooling Pad Aspen	Size (mm)	890 x 800H x 70 (4 pads)	890 x 800H x 70 (3 pads)	890 x 800H x 70 (4 pads)
	Pad Area (m ²)	2.85	2.14	2.85
Water	Tank Capacity (L)	25	38	38
	Inlet (mm/inches)	12.7mm / ½" male BSP	12.7mm / ½" male BSP	12.7mm / ½" male BSP
	Drain (mm/inches) Configurable to local requirements	40mm / 1½" male BSP	40mm / 1½" male BSP	40mm / 1½" male BSP
Shipping	Dimensions (mm) including pallet	945 x 1005 x 1185H	945 x 1005 x 1185H	945 x 1005 x 1185H
	Volume (m ³)	1.13	1.13	1.13
	Mass - Shipping (kg)	83	83	83
	Operating (kg)	95	106	106
Connecting Duct	Length & Width (mm)	550 x 550	506 x 385	580 x 460

* 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.

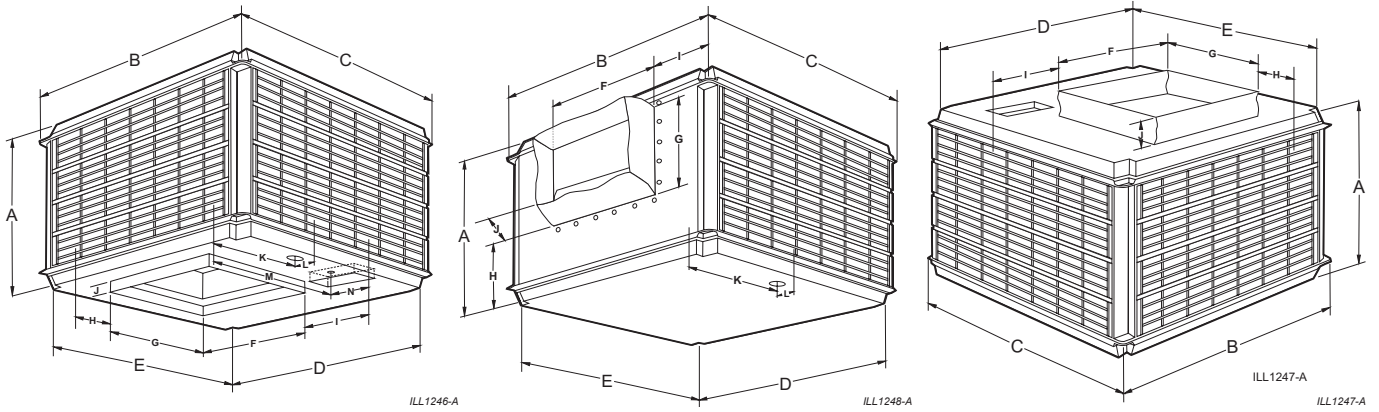


Air flow performance has been measured in accordance with Australian Standard AS2913:2000 "Evaporative Air Conditioning Equipment" by Meridian Laboratories Pty Ltd

*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

Model	Speed	Radiated Sound Power Level (dB(A) re 1pw) Octave Band Centre Frequency							Total Sound Power (dB(A) re 1pw)
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
EA120D/S/T	High	57	63	63	61	59	52	44	68

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* 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
EA120D	1060	1005	945	930	870	552	552	45	214	50	565	110
EA120S	1060	1005	945	930	870	506	385	395	237	120	565	110
EA120T	1060	1005	945	930	870	580	460	90	200	40	565	110

Dimensions are in mm.

FAN CURVE (m³/hr)

