



# **TECHNICAL SPECIFICATIONS - EA120D, EA120S & EA120T**

### **GENERAL SPECIFICATIONS:**

### **CABINET** and WATER RESERVOIR

The cabinet and water reservoir components are injection moulded structural foam polypropylene (Permatuf<sup>®</sup>). 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  $\frac{1}{2}$ " 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.

Model	Airflow	Motor	Air					
	m3/hr @ 80Pa	W	0	40	80	120	160	200
EA120D/T	7270	750	8170	7780	7270	6660	5760	4320
EA120S	6410	750	7130	6880	6410	5650	4720	2990

## AIR FLOW PERFORMANCE SUMMARY

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	
	Actual @ 80Pa (L/s)	2020	1720	2020	
AITTIOW @ 80Pa	Actual @ 80Pa (m <sup>3</sup> h)	7270	6190	7270	
Cooling Capacity*	(kW)	11.3	9.3	11.3	
Evaporative Efficiency	Percentage (%)	89.1	84.7	89.1	
2	Power Max/Min (W)	1147	1147	1147	
Power	Current - Rated (A)	6.0	6.0	6.0	
Consumption (total)	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	Туре	Digital	Digital	Digital	
For	Туре	Centrifugal	Centrifugal	Centrifugal	
ran	Diameter - External (mm)	380 x 460	380 x 460	380 x 460	
	Туре	PSC	PSC	PSC	
	Speed Max (rpm)	1400 VAR	1400 VAR	1400 VAR	
	Output Max (W)	750	750	750	
Motor	Current Rated (A)	5.2	5.2	5.2	
MOLOI	Capacitor (uF/V)	20 / 440	EA120SEA120I17202020619072709.311.384.789.1114711476.06.06.976.97220-240 / 1 / 50220-240 / 1 / 50220-240 / 1 / 50220-240 / 1 / 50220-240 / 1 / 50220-240 / 1 / 50DigitalDigitalCentrifugalCentrifugalCentrifugalCentrifugal1400 VAR1400 VAR191920 / 44020 / 44020 / 44020 / 440Auto ResetAuto ResetIP21IP21IP21IP21SynchronousSynchronous0.400.401919230 / 1 / 50230 / 1 / 50Thermal One Shot FuseFuseIPX4IPX4890 x 800H x 70 (3 pads)890 x 800H x 70 (4 pads)2.142.85383812.7mm / ½" male BSP12.7mm / ½" male BSP4945 x 1005 x 1185H945 x 1005 x 111 1131.131.13106106506 x 385580 x 460	20 / 440	
	Overload	2020     1720     2020       7270     6190     7270       11.3     9.3     11.3       89.1     84.7     89.1       1147     1147     1147       6.0     6.0     6.0       6.97     6.97     6.97       220-240 / 1 / 50     220-240 / 1 / 50     220-240 / 1 / 50       Digital     Digital     Digital     0       Centrifugal     Centrifugal     Centrifugal     380 x 460       380 x 460     380 x 460     380 x 460     380 x 460       PSC     PSC     PSC     PSC       1400 VAR     1400 VAR     1400 VAR     1400 VAR       750     750     750     5.2       20 / 440     20 / 440     20 / 440     20 / 440       Auto Reset     Auto Reset     Auto Reset     IP21       IP21     IP21     IP21     IP21       Centrifugal     Centrifugal     Centrifugal     Synchronous       Synchronous     Synchronous     Synchronous     Synchronous  <			
	Enclosure Rating	IP21	IP21	IP21	
	Туре	Centrifugal	Centrifugal	Centrifugal	
	Motor	2     1000     1100       11.3     9.3       89.1     84.7       1147     1147       1147     1147       1147     1147       1147     1147       1147     1147       1147     1147       1147     1147       1147     1147       1147     1147       1147     1147       1140     6.0       6.97     6.97       Hz     220-240 / 1 / 50       220-240 / 1 / 50     220-240 / 1 /       Digital     Digital       Centrifugal     Centrifugal       Centrifugal     Centrifugal       1400 VAR     1400 VAR       750     750       5.2     5.2       20 / 440     20 / 440       Auto Reset     Auto Reset       IP21     IP21       IP21     IP21       Q040     0.40       0.40     0.40       0.40     0.40       19     19	Synchronous	Synchronous	
	Power - rated (A)	0.40	11.0     10.0     7270       7270     6190     7270       11.3     9.3     11.3       89.1     84.7     89.1       1147     1147     1147       6.0     6.0     6.0       6.97     6.97     6.97       20-240 / 1 / 50     220-240 / 1 / 50     220-240 / 1 / 50       Digital     Digital     Digital     0       Centrifugal     Centrifugal     Centrifugal       Centrifugal     Centrifugal     Centrifugal       380 x 460     380 x 460     380 x 460       PSC     PSC     PSC       1400 VAR     1400 VAR     1400 VAR       750     750     750       5.2     5.2     5.2       20 / 440     20 / 440     20 / 440       Auto Reset     Auto Reset     Auto Reset       IP21     IP21     IP21       Centrifugal     Centrifugal     Centrifugal       Synchronous     Synchronous     Synchronous       0.40     0.40     0.4		
Pumn	Flow Rate (L/min)	(m³h)     7270     6190     7270       11.3     9.3     11.3       89.1     84.7     89.1       (W)     1147     1147       (M)     6.0     6.0     6.0       (Q)     6.97     6.97     6.97       (A)     6.0     220-240 / 1 / 50     220-240 / 1 / 50     220-240 / 1 / 50       (M)     1140     Digital     Digital     Digital     Digital       Centrifugal     Centrifugal     Centrifugal     Centrifugal       rnal (mm)     380 x 460     380 x 460     380 x 460       N     750     750     750       n)     1400 VAR     1400 VAR     1400 VAR       N     5.2     5.2     5.2       )     20 / 440     20 / 440     20 / 440       Auto Reset     Auto Reset     Auto Reset       Aug     IP21     IP21     IP21       Centrifugal     Centrifugal     Centrifugal     Centrifugal       Synchronous     Synchronous     Synchronous	19		
	Voltage / Phases / Hz	230 / 1 / 50	2020 $1720$ $2020$ $7270$ $6190$ $7270$ $11.3$ $9.3$ $11.3$ $89.1$ $84.7$ $89.1$ $1147$ $1147$ $1147$ $6.0$ $6.0$ $6.0$ $6.97$ $6.97$ $6.97$ $220-240 / 1 / 50$ $380 x 460$ $380 x 460$ $380 x 460$ $980 x 460$ $380 x 460$ $380 x 460$ $950 x 800H x 70$ $890 x 800H x 70$ $40 cmm / 142''$ $1PX4$ $1PX4$ $12.7mm / 12.7mm /$	230 / 1 / 50	
Cooling Capacity*     (kw)     11.3       Evaporative Efficiency     Percentage (%)     89.1       Power     Power Max/Min (W)     1147       Consumption (total)     Energy Efficiency Ratio (EER)     6.97       Power Supply     Voltage / Phases / Hz     220-240 / 1 / 1       Controller     Type     Digital       Type     Centrifugal     0.380 x 460       Power Supply     Voltage / Phases / Hz     220-240 / 1 / 1       Controller     Type     Digital       Type     Centrifugal     0.380 x 460       Voltage / Phases / Hz     220-240 / 1 / 1       Controller     Type     Centrifugal       Motor     Speed Max (rpm)     1400 VAR       Output Max (W)     750     Current Rated (A)     5.2       Capacitor (uF/V)     20 / 440     Overload     Auto Reset       Enclosure Rating     IP21     Type     Centrifugal       Motor     Synchronou     Flow Rate (L/min)     19       Voltage / Phases / Hz     230 / 1 / 50     Overload     Thermal One SI       Enclosure Ra			Thermal One Shot Fuse	Thermal One Shot Fuse	
	Enclosure Rating	IPX4	LAT200LAT200LAT20120201720202072706190727011.39.311.389.184.789.11147114711476.06.06.06.976.976.9720-240 / 1 / 50220-240 / 1 / 50220-240 / 1 / 50DigitalDigitalDigitalCentrifugalCentrifugalCentrifugalCentrifugalCentrifugalCentrifugal380 x 460380 x 460380 x 460PSCPSCPSC1400 VAR1400 VAR1400 VAR7507507505.25.25.220 / 44020 / 44020 / 440Auto ResetAuto ResetIP21IP21CentrifugalCentrifugalCentrifugalCentrifugalCentrifugalCentrifugalCentrifugalCentrifugalSynchronousSynchronous0.400.400.400.4019191919230 / 1 / 50230 / 1 / 50230 / 1 / 50230 / 1 / 50ermal One ShotThermal One ShotFuseFuseIPX4IPX4IPX4IPX42538383812.7mm / ½"male BSPmale BSPmale BSPmale BSPmale BSPmale BSPmale BSPmale BSPmale BSPmale BSP106106 <td>IPX4</td>	IPX4	
Cooling Pad	Size (mm)	890 x 800H x 70 (4 pads)	890 x 800H x 70 (3 pads)	890 x 800H x 70 (4 pads)	
Aspen	Pad Area (m <sup>2</sup> )	2.85	2.14	2.85	
	Tank Capacity (L)	25	38	38	
Water	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	
	Dimensions (mm) including pallet	945 x 1005 x 1185H	945 x 1005 x 1185H	945 x 1005 x 1185H	
Shipping	Volume (m <sup>3</sup> )	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

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





# **TECHNICAL SPECIFICATIONS - EA120D, EA120S & EA120T**



\* 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	Α	В	C	D	E	F	G	Н	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)