

## TECHNICAL DETAILS (Air Cooled)

**Frame:** Self-supporting aluminum frame further protected with polyester powder painting. Easy to remove panels allow access inside of the units for maintenance and other Necessary operations. Base made of zinco-coated and painted carbon steel complete with Hooks allowing easy lifting for carriage.

**Compressors:** EC units are fitted with 1 or 2 separate gas circuits and equipped with orbiting rotary Scroll compressors. Thanks to the reduced quantity of parts in motion and to the absence of suction/delivery valves, these compressors are extremely silent and are fit for applications with low/average capacity. Units are charged with refrigerant R 407C or upon request with refrigerant R 410a.

**Fans:** Axial fans directly coupled to a 3 phase electric motor with external rotor. Motors are IP54 with class F insulation, protected from voltage peaks by magneto-thermal switches. Low noise and super low noise version available.

**Condenser:** Copper tube and aluminum finned coil. High efficient condensing coil placed into the frame on vertical configuration.

**Evaporator:** According to the size, units may be fitted either with stainless steel brazed plate or shell and tube evaporator (on request). An electric heater controlled by a thermostat avoids the ice-formation into the evaporator.

**Electric Panel and Microprocessor control system:** Electrical cabinet is IP54 rated. All power components and control devices are manufactured according to IEC 204-1 rules and are separately assembled into the panel, sheltered from pollution. Power section includes the general switch, magneto-thermal relays for the fans, contacts and protection fuses for the compressors and for the fans. Star-up for the compressors is star/Delta type for limited starting currents.

Electrical cabinet also includes:

1. Thermal fans relays: safety devices against the overload of the electric fans motor.
2. Phase monitor (400/3/50): It checks the current sequence of phases as well the lack of phase.
3. Alarm from external device to eventually switch off the chiller.

CHILLER MODEL		EC-A2	EC-A3	EC-A4	EC-A6
<b>Cooling Capacity (15-20°C process, 25°C ambient) Refrigeration *</b>	kW	2.7	3.7	5.1	7.3
	Kcal/h	2,320	3,180	4,390	6,280
<b>Compressor</b>	kW	0.69	0.90	1.35	1.54
<b>Water Pump</b>	kW	0.48	0.48	0.48	0.55
<b>Water Flow</b>	m <sup>3</sup> /h	0.46	0.48	0.88	1.26
<b>Water Pressure</b>	bar	3.3	3.3	2.9	3.0
<b>Water Tank Volume</b>	ltr	15.0	15.0	15.0	15.0
<b>Inlet / Outlet Processing Water</b>	dia	1"	1"	1"	1"
<b>Axial Fan</b>	Nr.	1	1	1	1
<b>Axial Fan (Absorbed Power)</b>	kW	0.09	0.09	0.12	0.27
<b>Noise Level</b>	db(A)	46.0	46.0	46.0	58.0
<b>Electrical Supply</b>	v/ph/hz	400V/3ph/50Hz			
<b>Maximum Installed Power</b>	kW	1.4	1.7	2.2	3.2
<b>Absorbed Power</b>	kW	1.26	1.47	1.95	2.36
<b>Weight</b>	Kg	75.0	75.0	80.0	110.0
<b>Dimensions (L x W x H)</b>	cm	66x61x102	66x61x102	66x61x102	69x74x117



**Service Health Checks:** Ever Cool can provide yearly health checks on all equipment as required keeping machinery in good working order. Our engineers also provide full service health checks reports for your records.

**Emergency Call Out Services:** Ever Cool can provide an emergency call out on most equipment at a very short notice to those customers who take out service health checks contracts with us.

**24/7 Emergency Breakdown:** Our technical support and UK service engineers are ready to take on a wide range of breakdown problems and to make sure your production is back up and running and avoiding any down time.

**Technical Support & Assistance:** With Ever Cool most common problems can be re-solved through technical help over the telephone or via email. Our technical support team are here to help Monday-Friday 08:30am-17:00pm or you can email [technical@evercoolltd.co.uk](mailto:technical@evercoolltd.co.uk) for a fast response.

**Spare Parts:** We stock a huge selection of spare parts for all Process Water Chillers & Temperature Controllers for same day delivery or next day delivery subject to availability. We can get the parts delivered to your site as soon as possible to get your unit up and running.

**Instruction Manuals:** We offer hard copy instruction manuals when required.