

EarthSmart™ Chiller
(Air Cooled)



- All chilled water contact surfaces are non ferrous for protection against corrosion. All wetted surfaces are stainless steel, copper or other non ferrous material
- Proven component suppliers like Danfoss, Copeland, Grundfos, EBM, Siemens have been chosen for ultimate reliability
- Tool free access panels and a neatly organized internal component layout provide easy access and service. Simply remove the panels to gain access to the entire cabinet of the chiller
- All chillers are factory tested under load prior to shipment
- Condenser fan blade, motor, nozzle and guard are a single piece assembly for improved reliability with the fan motors having rugged external rotor design
- Finned & Tube Condenser – high surface area due to internally grooved copper tube, generously sized for industrial environment and tested to 500 PSIG
- Brazed Plate Evaporator / Shell and Tube Evaporator – provide higher heat transfer coefficients due to reduced fouling
- Evaporator Strainer - protects the evaporator from solid contaminants in the process water stream

New EP2A series portable chillers are quality engineered for year - round, 24 / 7 operation under demanding industrial applications. Combining a compact design, durable construction and a new control platform, EP2A chillers will provide maximum cooling for your application.

EP2A series chillers have cooling capacity of 2 TR to 90 TR with operating temperature of 8°C to 25°C in ambient air temperature up to 40°C.

Unique Features

- Microprocessor / PLC based control
- Energy efficient & reliable scroll compressor with hermetically sealed suction gas cooled motor
- High performance, low maintenance system with switching cycle control
- Crank case heater to prevent liquid migration of refrigerant in compressor
- Filter dryer to ensure moisture free system
- Sight glass with moisture indicator
- Large size stainless steel insulated tank to prevent heat loss
- Dry running protection of pump by water level sensor in the tank
- Water re-feeding valve to maintain level in the tank automatically
- Antifreeze thermostat for protection of evaporator and compressor
- High volume, high pressure pump with stainless steel impeller
- Inbuilt process water bypass with valves

Technical Specifications

Model	EP2A 2	EP2A 3	EP2A 4	EP2A 5	EP2A 6	EP2A 7	EP2A 8	EP2A 10	EP2A 12	EP2A 15	EP2A 17	EP2A 24	EP2A 30	PCA 40	PCA 50	PCA 60	PCA 80	PCA 100	
Performance Characteristics																			
Nominal Capacity in KW (TR)	7 (2)	11.12 (3.15)	15 (4.26)	17.8 (5)	19.45 (5.53)	25.6 (7.2)	33.2 (9.4)	40 (11.3)	43.1 (12.2)	50 (14.2)	67.4 (19.1)	86 (24.4)	104 (29.5)	135 (38.3)	173 (49.2)	208 (59)	259.2 (73.8)	312 (88.73)	
Compressor Quantity / KW	1 / 2.5	1 / 3.17	1 / 4.45	1 / 5.2	1 / 5.37	1 / 6.96	1 / 9.06	1 / 10.76	1 / 11.61	1 / 13.65	1 / 18.36	1 / 23.1	1 / 27.6	2 / 18.3	2 / 23.15	2 / 27.6	3 / 23.15	3 / 27.6	
Refrigerant	R22																		
Standard Evaporator Pump KW	0.46	0.85	1.2			2.2						4	5.5		7.5	3 x 1.2	3 x 2.2		
Maximum Flow to Evaporator LPM	50	105			230						380	480		880	3 x 230	3 x 380			
Maximum Pressure Bar	2	3.7	4.6			4.8						5.3	5.6		4.5	3 x 3.2	3 x 2.8		
Water Reservoir Capacity Liters	40	94.6				150		205					300	400	600	900	1200		
Fan Quantity x Fan KW	1 x 0.7	1 x 1.1				1 x 2.63		2 x 1.1			2 x 2.63		2 x 2.33	2 x 1.84	3 x 1.84		6 x 2.63	6 x 2.33	
Dimension (mm)																			
W - Width	700	840						1160					1780	1800		2100	2220		
D - Depth	950	1260				1510			1950					2550	3150	3710	4450	5150	
H - Height	1480	2050						2300					2500		2570	2520	2310		
Weight (Installed Kg)	125	476				699		750		900	975	1050	1500	1600	2000	2150	3000	3200	
Process Connections In / Out BSP	1"					1 1/2"							2"	2 1/2"				3"	
Voltage / Connected Load KW																			
Voltage	415V, 50 Hz, 3 Phase																		
Connected Load	3.66	5.12	6.4	7.5	7.67	11.79	13.89	15.16	16.01	18.05	25.82	30.56	36.26	45.78	57.32	68.22	88.83	103.38	
Control Voltage	24V DC																		
Control Range in Degree Celsius	Plus (+) 8 to Plus (+) 25																		
Water Quality	Pure DM water – Conductivity < 10-30 µs/cm																		
Color	Black RAL 9005 / Siemens Grey RAL 7032																		

All specifications are subject to change without prior notice.

\* Capacity based on supplying 15°C water to process and 40°C condenser air temperature.

Standard Control Features

- Conair make with low switching frequency of compressor by intelligent program
- Display of set value and actual temperature on screen
- 3-phase monitor protects against unit damage due to phase reversal or loss of phase
- Display of compressor and pump running hours helps with maintenance scheduling
- Start-to-start anti-cycler timer prevents short-cycling of compressor while minimizing off periods
- Adjustable deviation alarm timer delay to prevent nuisance alarm during start-up
- Display temperature easily switched from °F to °C
- Master reset function to restore factory defaults
- Suction and discharge refrigerant gauges
- Vibrating pad
- Inbuilt freeze protection safety in control to safeguard evaporator
- Automatic water make up valve

Optional Control Features

- Process water flow meter
- SPI, ModBus RTU, BACnet, and LonWorks communication capability

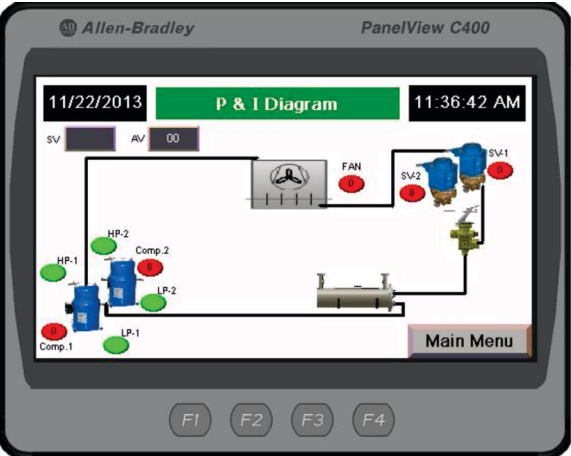
Refrigerant Options: R 22 - Standard / R 134a / R 407c

Options

- Remote control option
- Water pressure gauge
- Water flow meter
- Solenoid valve & NRV for overhead plumbing
- Modbus / Ethernet communication
- Tankless / Pumpless kits
- Condenser fan cycling
- High pressure (high flow process pumps)
- Chiller suitable for high ambient temperature up to 47°C



EP2 - Series



PCA - Series

Joint Venture with The Conair Group, USA
A World Leader in Plastic Auxiliary Equipment Manufacturing



(An ISO 9001:2015 Certified Organization)

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