

EarthSmart™ Chiller

(Water Cooled)



EP3WP 44 to EP3WP 165



EP3W 3 to EP3W 35

- 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
- Shell & 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

ENVIRONMENT FRIENDLY & ENERGY EFFICIENT R-410A REFRIGERANT

New EP3W 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, EP3W chillers will provide maximum cooling for your application.

EP3W series chillers have cooling capacity of 3.5 TR to 215 TR with operating temperature of 8°C to 25°C suitable for extreme ambient temperature up to 50°C.

Unique Features

- Micro-controller / 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
- Suction and discharge refrigerant gauges

Technical Specifications

Model	EP3W 3	EP3W 5	EP3W 8	EP3W 9	EP3W 10.5	EP3W 12
Performance Characteristics						
Nominal Capacity in KW (TR)	12.9 (3.7)	22.9 (6.5)	34.5 (9.8)	39 (11)	44.2 (12.6)	50.8 (14.5)
Compressor Quantity / KW	1 / 2.4	1 / 4.0	1 / 5.99	1 / 6.6	1 / 7.7	1 / 8.7
Refrigerant	R 410 A					
Standard Evaporator Pump KW	1.1				1.5	
Maximum Flow to Evaporator LPM	120				230	
Maximum Pressure Bar	6				4.8	
Nominal Flow LPM @ Bar	83 @ 4				150 @ 3.8	
Water Reservoir Capacity Liters	40	80	160		200	
Dimension (mm)						
W - Width	850				1206	
D - Depth	1350		1710		2100	
H - Height	1250				1761	
Weight (Installed Kg)	300	375	550		750	
Chiller Connections						
Chiller Connections In / Out BSP	1"				1 1/2"	
Condenser Water Cooling Capacity Require TR	5	9	14	16	18	21
Condenser Water Flow Rate LPM	65	100	150	180	200	250
Condenser Water In/Out - BSP	1 1/2"					
Voltage / Connected Load KW						
Voltage	415V, 50 Hz, 3 Phase					
Connected Load (KW)	3.50	5.10	7.09	7.70	9.20	10.20
Control Voltage	24V DC					
Control Range in Degree Celsius	Plus (+) 8 to Plus (+) 25					
Water Quality	Require treated water with PH value in 7.5 to 8.5, hardness less than 50 PPM , electrical conductivity < 10-30 µS/ cm2					
Color	Black RAL 9005 / RAL 7047 Telegrey 4					

All specifications are subject to change without prior notice.

Description of Functions	Micro-Controller Based	Premium Control PLC Based
Display Parameters		
Process Fluid Supply Temperatures	●	●
Process Fluid Return Temperatures	-	●
Evaporator Fluid Leaving Temperature	●	●
Compressor Running Hours	●	●
Pump Running Hours	●	●
Control Parameters		
Prevent Short Cycling of Compressor	●	●
Adjustable Deviation Alarm Timer	●	-
Freeze Protection Safety	●	●
Automatic Water Make-up Valve	●	●
Master Reset Function to Restore Factory Defaults	●	●
Three Phase Monitor Feature	●	●
Compressor Running Current	-	●
Remote Control Option	●	●
Alarms & Warnings		
High Process Fluid Temperature	●	●
Low Process Fluid Temperature	●	●
Evaporator Fluid Freeze	●	●
Evaporator Fluid Low Flow	●	●
Refrigerant High Pressure	●	●
Refrigerant Low Pressure	●	●
Compressor Overload	●	●
Pump Overload	●	●
Condenser Fan Overload	●	●
Reservoir Low Level	●	●
Communications & Remote Interfaces		
Modbus RTU	○	○
Modbus TCP/IP	-	○

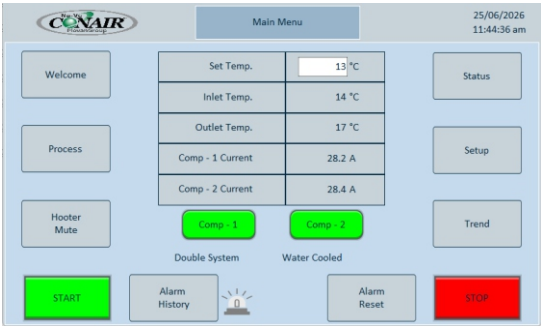
● = Standard, ○ = Optional, - = Not Available

EP3W 13.5	EP3W 18	EP3W 22	EP3W 27	EP3W 35	EP3WP 44	EP3WP 54	EP3WP 70	EP3WP 88	EP3WP 108	EP3WP 132
56.9 (16.2)										
1 / 9.8										
R 410 A										
1.5										
230										
4.8										
150 @ 3.8										
200										
1206										
2100										
750										
1 1/2"										
23										
1 1/2"										
415V, 50 Hz, 3 Phase										
11.30										
24V DC										
Require treated water with PH value in 7.5 to 8.5, hardness less than 50 PPM , electrical conductivity < 10-30 µS/ cm2										
Black RAL 9005 / RAL 7047 Telegrey 4										

* Nominal capacity based at leaving water temperature of 15°C & cooling tower water temperature of 32°C.

** Evaporator pump and water reservoir are available as optional features for EP3WP-44 to EP3WP-132 chiller models.

*** There are individual evaporator pump option also available for multiple refrigeration circuit chiller.



PLC Based



Micro-controller Based

Optional Features

- Water pressure gauge
- Water flow meter
- Solenoid valve & NRV for overhead plumbing
- Tankless / Pumpless kits
- High pressure (high flow process pumps)
- Variable speed compressor
- VFD for process pumps

LEADING MANUFACTURER OF PLASTIC AUXILIARY EQUIPMENT

Material Storage | Conveying | Drying | Blending | Heat Transfer | Size Reduction



(An ISO 9001:2015 Certified Organization)

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