

ACWC-180-E

Single stage air-cooled industrial water chiller used for counter cooling water-cooled JULABO PRESTO systems and general industrial cooling applications. This portable unit can operate indoors or outdoors with ambient conditions from 4 °C to 35 °C / 40 °F to 95 °F; optional -17 °C to 35°C / 0 °F to 95 °F. Stated cooling capacity with a set point of 10 °C (50 °F) of 52.75 kW in 35 °C (95 °F) ambient conditions.



Working temperature range (°F/°C)	+20...+70 / -7...+21
Temperature stability (°F/°C)	±2 / ±2.2
Capacity ±5% at 10 °C / 95 °C Ambient	52.7 kW
Pump Capacity flow rate	220 L/min 60 GPM
Pump Pressure (psi)	30
Pump connections	2" MNPT
Pump connection option	G 3/4" male
Compressor / Refrigerant	tandem hermetic scroll / R410A
Condenser fans / airflow	3 / 12000 CFM
Filling volume, 304 SS tank with lid	80 gal / 302 L
Ambient Temperature	40 to +125 °F / 4 to 51 °C
Ambient Temperature option	to -20 °F / to -29 °C
Dimensions (LxWxH) inches	88 x 40 x 70
Weight, pounds	1600
Power options	
230V/3PPE/60Hz	MCA 69 A / MOCP 90 A
460V/3PPE/60Hz	MCA 34.4 A / MOCP 45 A
Warranty	1 year parts / 5 year compressor

MCA: minimum circuit amps

MOCP: maximum overcurrent protective device

Part Numbers

8891953.16	52.75kW cooling @ 10°C (15 tons of refrigeration); ambient temperature 4.5°C (40°F) up to 35°C (95°F) @ 230V/60Hz/3Ph
8891953.17	52.75kW cooling @ 10°C (15 tons of refrigeration); ambient temperature 4.5°C (40°F) up to 35°C (95°F) @ 460V/60Hz/3Ph
8891954.16	52.75kW cooling @ 10°C (15 tons of refrigeration); ambient temperature -28°C (-20°F) up to 35°C (95°F) @ 230V/60Hz/3Ph
8891954.17	52.75kW cooling @ 10°C (15 tons of refrigeration); ambient temperature -28°C (-20°F) up to 35°C (95°F) @ 460V/60Hz/3Ph

Standard Features

Controls: Electronic programmed temperature controller with constant (set point & process) temperature readout.

Refrigeration Components: Efficient scroll compressors, sight glass/moisture indicators, balanced port expansion valves, filter drier, pump down valves, fan cycling head pressure controls.

Process Fluid Components: Bronze "Y" strainer with 20 mesh stainless steel screen. Pumps are stainless steel centrifugal. Tanks are insulated with shoe box lid, fill port, and level sight glass.

Portable systems will include a bypass flow valve.

Safety Controls: High and low refrigerant pressure, high and low fluid temperature, freeze, low water flow, overloads for compressor and fan motors, safety fuses or overloads for pump.

Construction: Welded steel powder coated frame and full metal cabinet, copper piping connections.

Warranty: One year parts / five year compressor.

Temperature °F	Temperature °C	Cooling Capacity Tons	Cooling Capacity kW	Pump Flow Rate
20	-6.7	8.06	28.3	45 gpm
25	-3.9	9.06	31.9	170 L/min
30	-1.1	10.19	35.8	
35	1.7	11.46	40.3	
40	4.4	12.88	45.3	
45	7.2	14.31	50.3	
50	10	15.9	55.9	
55	12.8	17.49	61.5	
60	15.6	19.24	67.7	

At ambient temperature of 85 °F / 29.4 °C

Temperature °F	Temperature °C	Cooling Capacity Tons	Cooling Capacity kW	Pump Flow Rate
20	-6.7	6.29	22.1	45 gpm
25	-3.9	7.07	24.9	170 L/min
30	-1.1	7.95	28	
35	1.7	8.93	31.4	
40	4.4	9.96	35	
45	7.2	11.07	38.9	
50	10	12.3	43.3	
55	12.8	13.53	47.6	
60	15.6	14.88	52.3	

At ambient temperature of 125 °F / 51.7 °C

Accessories

8891900	Digital Phase Line Voltage Monitor
8891901	CSC Guardian & "Smart Chiller" Real Time Monitoring Package
8891903	Spare Parts Kit for 52.75kW or 70kW Industrial Chiller
8891904	Chiller Start-up Service for Industrial Chillers 26kW / 52.75kW / 70kW
8891905	55 gal drum of Propylene Glycol for Industrial Chillers 26kW / 52.75 kW / 70kW