

Accuchiller EQ Series

Portable & Packaged Industrial Chillers

Benefits:

- **Low GWP R-454B Refrigerant: NEW!**
EPA approved refrigerant provides a Global Warming Potential rating below 700 to combat climate change issues.
- **Direct Drive Scroll Compressors:**
Hermetically sealed scroll compressors with proven performance in industrial cooling for reliable, low maintenance and efficient operation.
- **Stainless Steel Evaporators:** High efficiency brazed-plate evaporators provide maximum performance, long life and an enhanced level of corrosion protection for harsh process conditions.
- **Stainless Steel Pump:** Selected for peak performance with the utmost in corrosion protection to ensure a long useful life under severe industrial conditions.
- **Nonferrous Reservoir and Water Lines:** Insulated reservoir, fluid lines, pumps and other components in the process fluid circuit will remain free of rust to provide maximum corrosion protection.
- **Evaporator Inlet Strainer:** Removes any debris present in the process fluid to prevent costly downtime and repair due to a clogged chiller evaporator.
- **Compressor Protection Technology:**
Uses start-to-start anti-cycle control logic to limit cycling under low load operating conditions to extend compressor life.
- **Warranty:** 1 year parts and labor.



Accuchiller EQ Series portable and packaged industrial chillers feature a compact footprint with an easily accessible interior and a PLC controller that provides precise temperature control

and extensive diagnostics. Air cooled, water cooled and remote condenser models are packed with many innovative features that improve chiller performance and reliability.

Benefits of the EQ Series Industrial Chiller Features:

ENERGY SAVING COMPRESSORS

Available with high-efficiency scroll compressors as standard, or optional variable speed compressors, to provide consistent energy savings.

OVERSIZED AIR-COOLED CONDENSERS

Designed for industrial environments, these stainless-steel condensers have premium microchannels and removable/cleanable filters.

QUIET, CONSISTENT FLOW

Airflow is key to cooling. While compact, the high-efficiency fans provide consistent airflow at a low noise level.



7-INCH COLOR TOUCH SCREEN

Allows monitoring of chiller operation and easy set point control.

STAINLESS STEEL PROCESS PUMP

Use of premium components provide protection against rust and corrosion for reliability and long life.

TOOL-LESS REMOVABLE SIDE PANEL

Easier access to internal components for inspection and maintenance.



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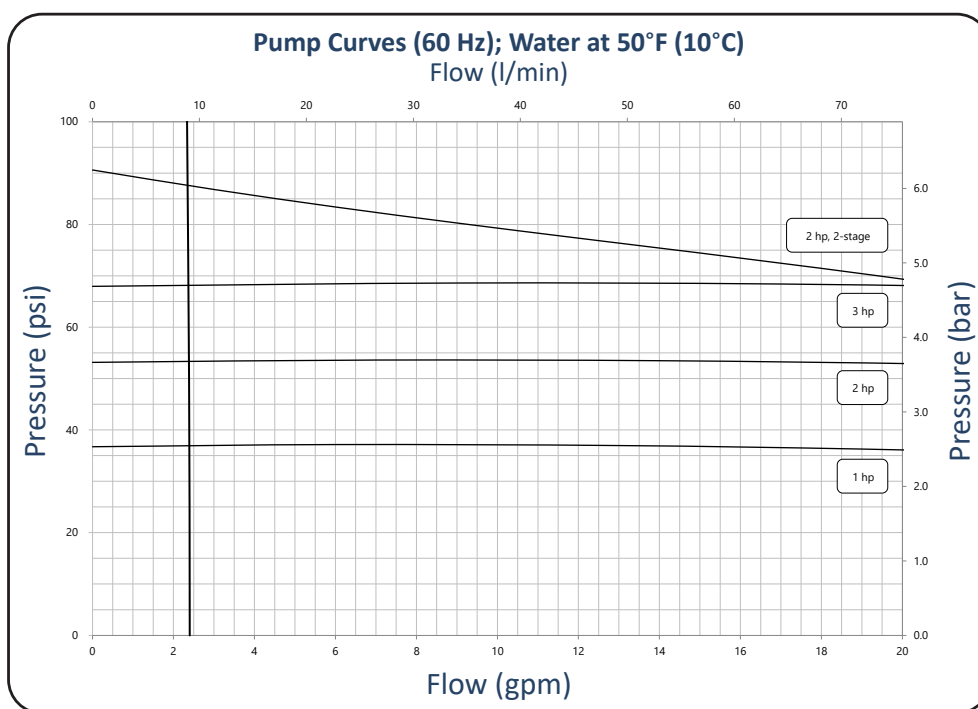
EQ Series - 2

Additional Benefits:

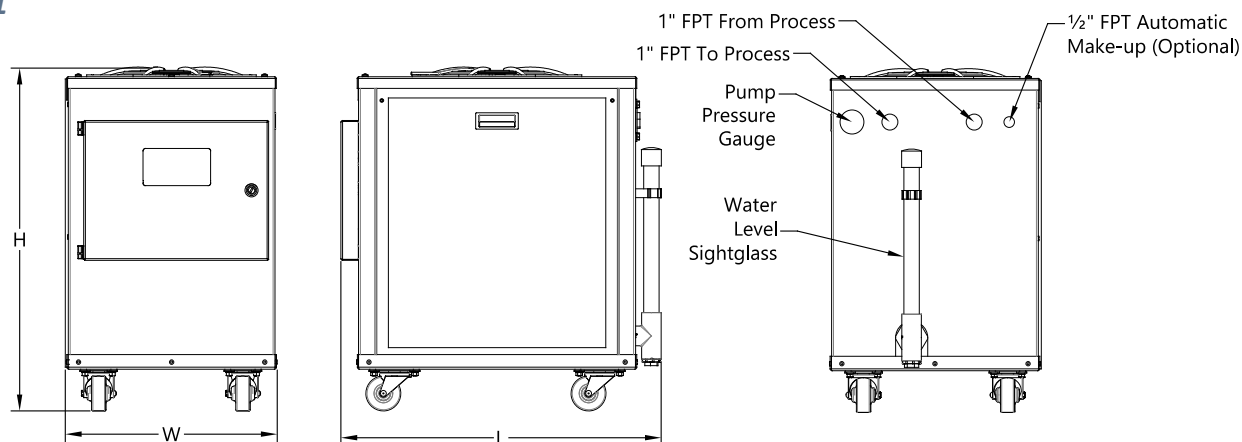
- **Temperature Deviation Warnings and Alarms:** Alerts the operator of a potential problem before a fault occurs and if the condition gets worse, an alarm stops the chiller to prevent damage.
- **Deviation Alarm Time Delays:** Provides an adjustable alarm time delay to deactivate the alarms long enough for the process loop to stabilize before the alarms are active.
- **Modbus RTU:** Communications protocol.

Available Options:

- Larger pumps
- Alarm horn
- Automatic water makeup
- Rotary non-fused disconnect switch
- Branch circuit fusing
- C-UL508A industrial control panel
- Extended setpoint range
- Remote setpoint
- Modbus TCP/IP communications
- High temperature set point up to 80°F (27°C)
- Reservoir low level alarm
- Main power phase monitor and alarm
- Return water temperature display
- 3-Phase monitor
- Return piping kit
- 5 year compressor parts warranty



EQ4A01



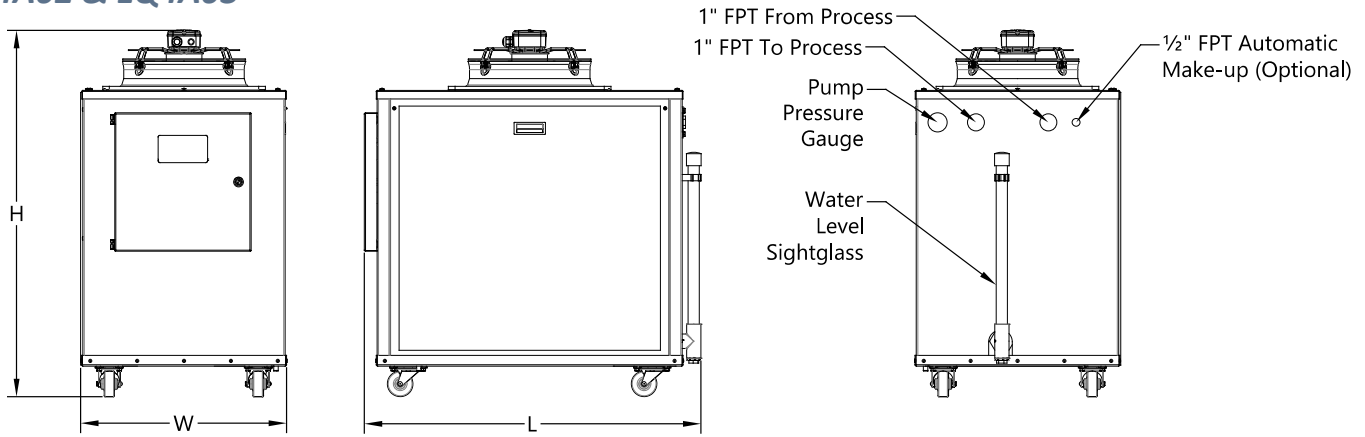
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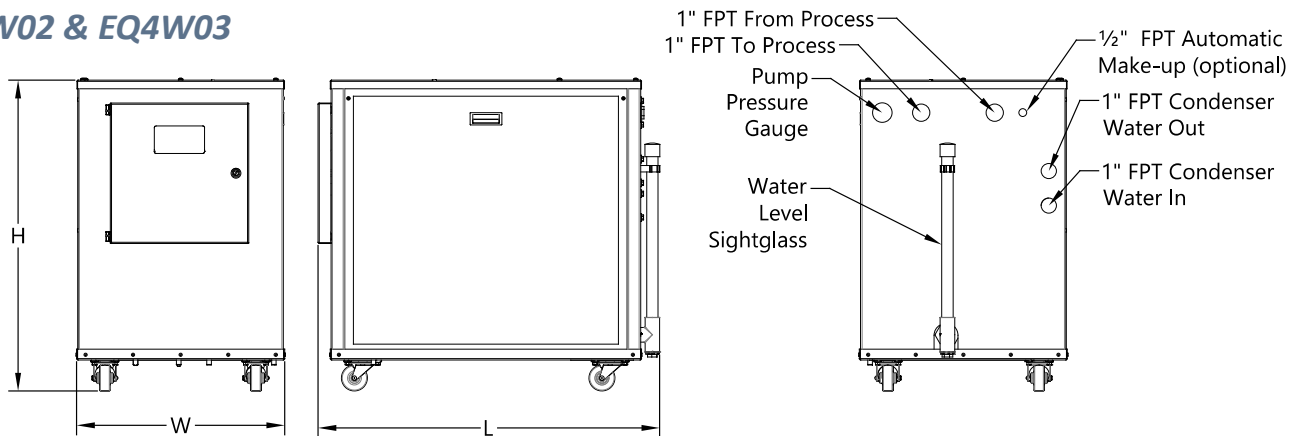
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EQ Series - 3

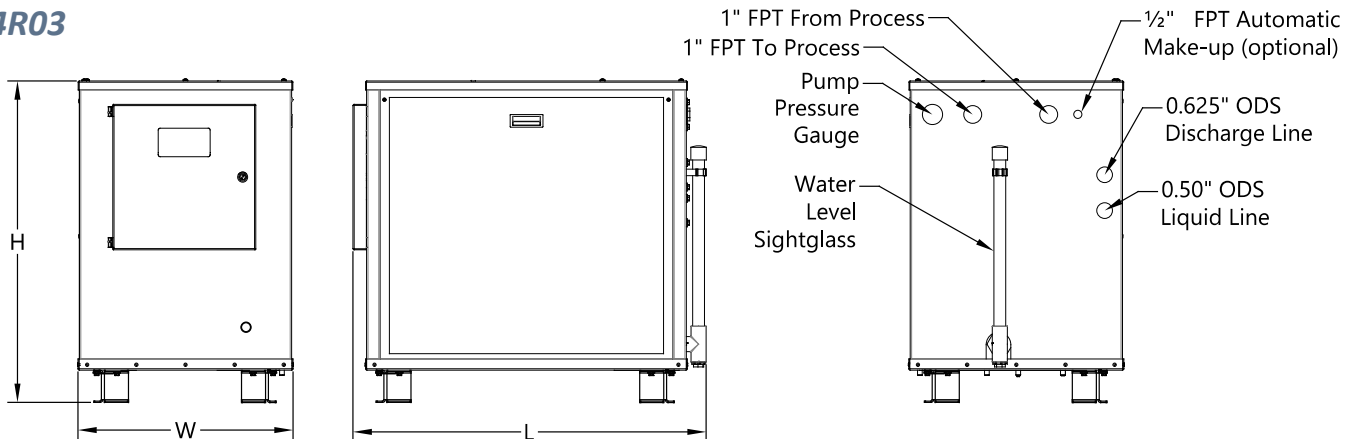
EQ4A02 & EQ4A03



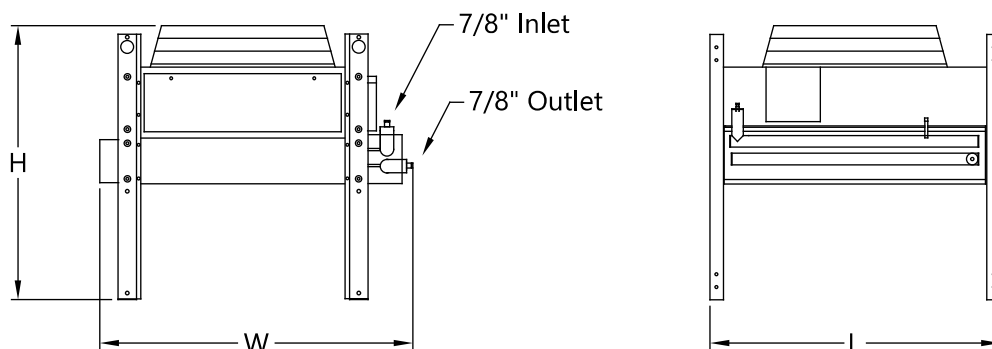
EQ4W02 & EQ4W03



EQ4R03



LAVB11210



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EQ Series - 4

Technical Data

Model	Cooling Capacity Tons (kW) ¹	Set Point Range °F (°C)	Compressor (qty)	Pump Capacity		Pump Size hp (kW)	Tank Vol gal (l)	Dimensions L x W x H inch (mm)	Ship Weight lbs (kg)	Operating Weight lbs (kg)
				GPM (l/min)	PSI (bar)					
EQ4A01	1 (4)	20 to 65 (-7 to 18)	1	2 (8)	80 (5.5)	1/4 (0.19)	3 (11)	28 x 19 x 30 (711 x 483 x 762)	255 (116)	280 (127)
EQ4A02	2 (7)	20 to 65 (-7 to 18)	1	5 (19)	39 (2.7)	1 (0.75)	11 (42)	40 x 24 x 44 (1,016 x 610 x 1,118)	420 (191)	510 (231)
EQ4A03	3 (11)	20 to 65 (-7 to 18)	1	7 (27)	38 (2.6)	1 (0.75)	11 (42)	40 x 24 x 44 (1,016 x 610 x 1,118)	430 (195)	520 (236)
EQ4W02	2 (7)	20 to 65 (-7 to 18)	1	5 (19)	39 (2.7)	1 (0.75)	11 (42)	40 x 24 x 36 (1,016 x 610 x 914)	420 (191)	510 (231)
EQ4W03	3 (11)	20 to 65 (-7 to 18)	1	8 (30)	38 (2.6)	1 (0.75)	11 (42)	40 x 24 x 36 (1,016 x 610 x 914)	430 (195)	520 (236)
EQ4R03	3 (11)	20 to 65 (-7 to 18)	1	7 (27)	38 (2.6)	1 (0.75)	11 (42)	40 x 24 x 36 (1,016 x 610 x 914)	430 (195)	520 (236)

Model	Chiller used with	Condenser Fan (qty)	Dimensions L x W x H inch (mm)	Ship Weight lbs (kg)	Operating Weight lbs (kg)
LAVB 11210	EQ4R03	1	46 x 49 x 41 (1,168 x 1,245 x 1,041)	565 (256)	Varies based on system charge and operating conditions

¹Cooling tons based on using R-454B refrigerant with 12,000 BTU/Hr (3.52 kW)/ton with 50°F (10°C) leaving coolant and 95°F (32°C) ambient air (air cooled) or 85°F (29°C) (water cooled).

Electrical Data

Model	Rated Voltage FLA @ 208		Rated Voltage FLA @ 230		Rated Voltage FLA @ 460		Rated Voltage FLA @ 575	
	MCA ^{1,3} 3Ph/60Hz ³	MOP ² 3Ph/60Hz	MCA ^{1,3} 3Ph/60Hz ³	MOP ² 3Ph/60Hz	MCA ^{1,3} 3Ph/60Hz ³	MOP ² 3Ph/60Hz	MCA ^{1,3} 3Ph/60Hz ³	MOP ² 3Ph/60Hz
EQ4A01	N/A	N/A	14 ⁴	25 ⁴	8	15	6	15
EQ4A02	N/A	N/A	21	35	9	15	7	15
EQ4A03	N/A	N/A	23	40	11	20	9	15
EQ4W02	N/A	N/A	21	35	9	15	7	15
EQ4W03	N/A	N/A	23	40	11	20	9	15
EQ4R03	N/A	N/A	23	40	11	20	9	15

Model	Rated Voltage FLA @ 208		Rated Voltage FLA @ 230		Rated Voltage FLA @ 460		Rated Voltage FLA @ 575	
	MCA ^{1,3} 1Ph/60Hz ³	MOP ² 1Ph/60Hz	MCA ^{1,3} 1Ph/60Hz ³	MOP ² 1Ph/60Hz	MCA ^{1,3} 1Ph/60Hz ³	MOP ² 1Ph/60Hz	MCA ^{1,3} 1Ph/60Hz ³	MOP ² 1Ph/60Hz
LAVB 11210	N/A	N/A	3	15	N/A	N/A	N/A	N/A

¹MCA is Minimum Circuit Amps, used for minimum wire size requirement.

²MOP is Maximum Overcurrent Protection, used for sizing main power protection devices.

³Includes the largest pump option.

⁴Only available for use with 230/1/60.



Thermal Care is ISO 9001 Certified

Manufacturer reserves the right to change specification or design without notification or obligation.

