

# 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

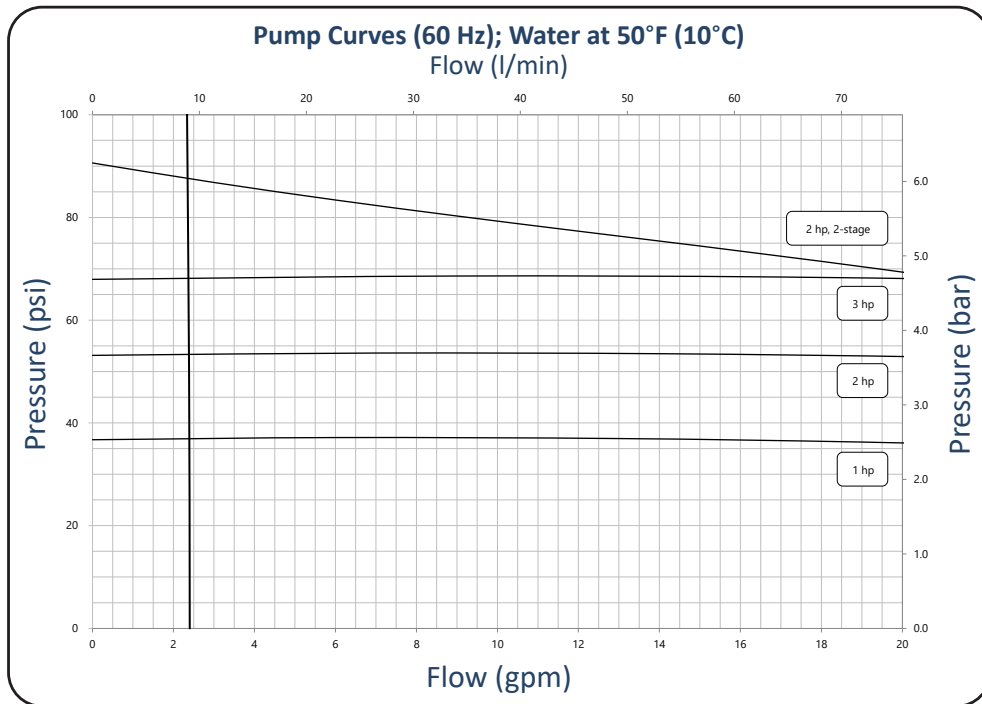
and extensive diagnostics. Air cooled, water cooled and remote condenser models are packed with many innovative features that improve chiller performance and reliability.

#### Additional Benefits:

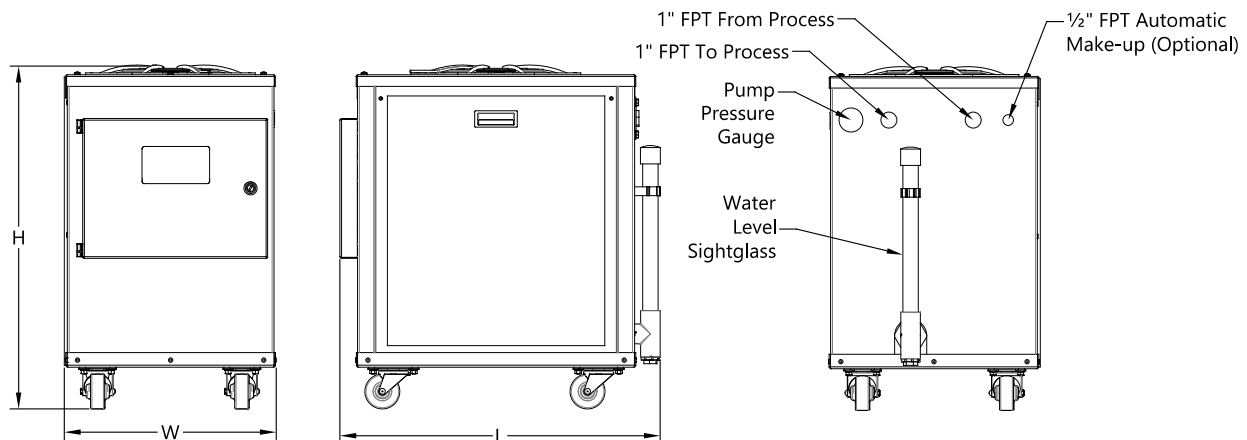
- **Temperature Deviation Warnings and Alarms:** Alerts the operator of a potential problem before a fault occurs and if the condition gets worse, an alarm stops the chiller to prevent damage.
- **Deviation Alarm Time Delays:** Provides an adjustable alarm time delay to deactivate the alarms long enough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



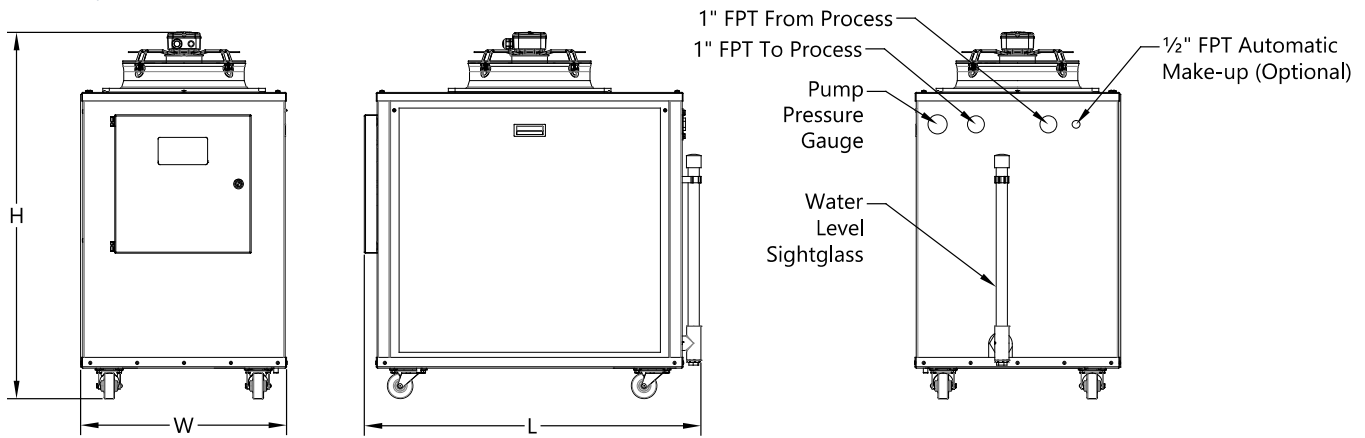
**THERMALCARE**

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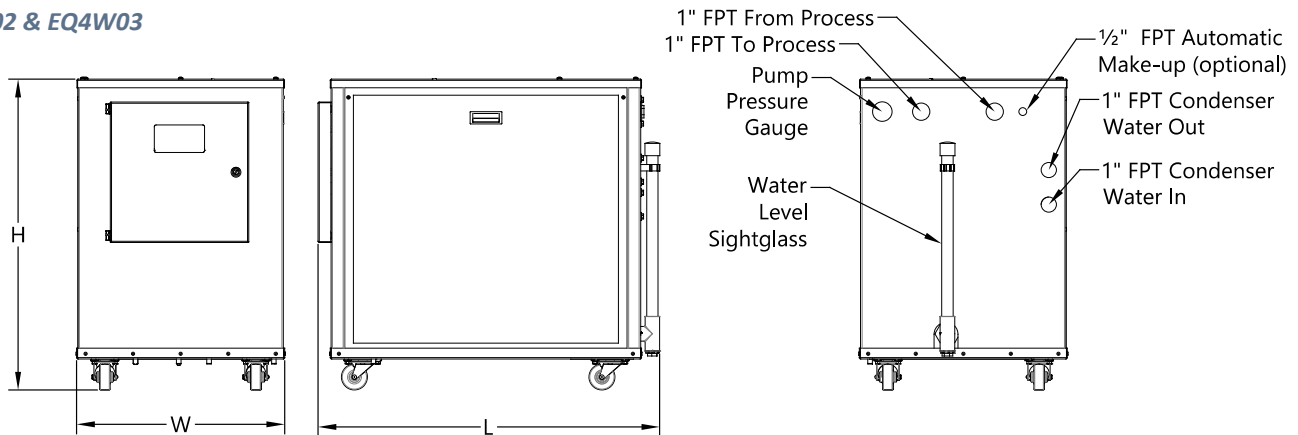
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EQ Series - 2

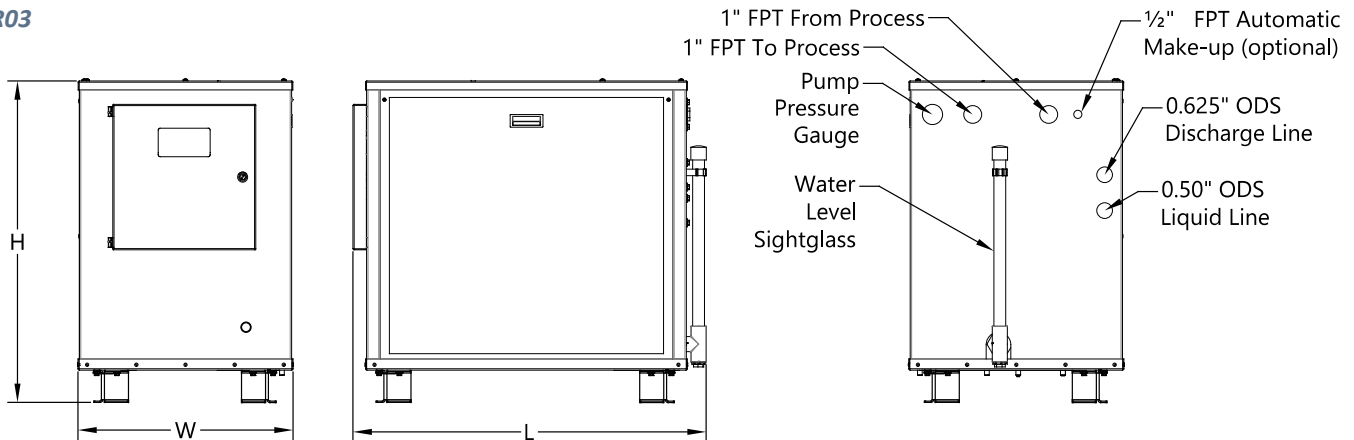
### EQ4A02 & EQ4A03



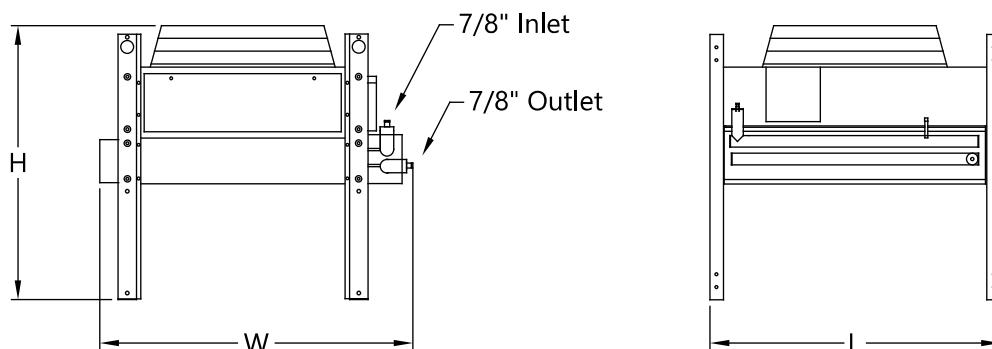
### EQ4W02 & EQ4W03



### EQ4R03



### LAVB11210



## TECHNICAL DATA

Model	Cooling Capacity Tons (kW) <sup>1</sup>	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

<sup>1</sup>Cooling 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 <sup>1,3</sup> 3Ph/60Hz <sup>3</sup>	MOP <sup>2</sup> 3Ph/60Hz	MCA <sup>1,3</sup> 3Ph/60Hz <sup>3</sup>	MOP <sup>2</sup> 3Ph/60Hz	MCA <sup>1,3</sup> 3Ph/60Hz <sup>3</sup>	MOP <sup>2</sup> 3Ph/60Hz	MCA <sup>1,3</sup> 3Ph/60Hz <sup>3</sup>	MOP <sup>2</sup> 3Ph/60Hz
EQ4A01	N/A	N/A	14 <sup>4</sup>	25 <sup>4</sup>	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 <sup>1,3</sup> 1Ph/60Hz <sup>3</sup>	MOP <sup>2</sup> 1Ph/60Hz	MCA <sup>1,3</sup> 1Ph/60Hz <sup>3</sup>	MOP <sup>2</sup> 1Ph/60Hz	MCA <sup>1,3</sup> 1Ph/60Hz <sup>3</sup>	MOP <sup>2</sup> 1Ph/60Hz	MCA <sup>1,3</sup> 1Ph/60Hz <sup>3</sup>	MOP <sup>2</sup> 1Ph/60Hz
LAVB 11210	N/A	N/A	3	15	N/A	N/A	N/A	N/A

<sup>1</sup>MCA is Minimum Circuit Amps, used for minimum wire size requirement.

<sup>2</sup>MOP is Maximum Overcurrent Protection, used for sizing main power protection devices.

<sup>3</sup>Includes the largest pump option.

<sup>4</sup>Only 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.

