EN

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.

THERMAL CARE
PiovanGroup

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Benefits of the EQ Series Industrial Chiller Features:

HIGH-EFFICIENCY SCROLL COMPRESSORS

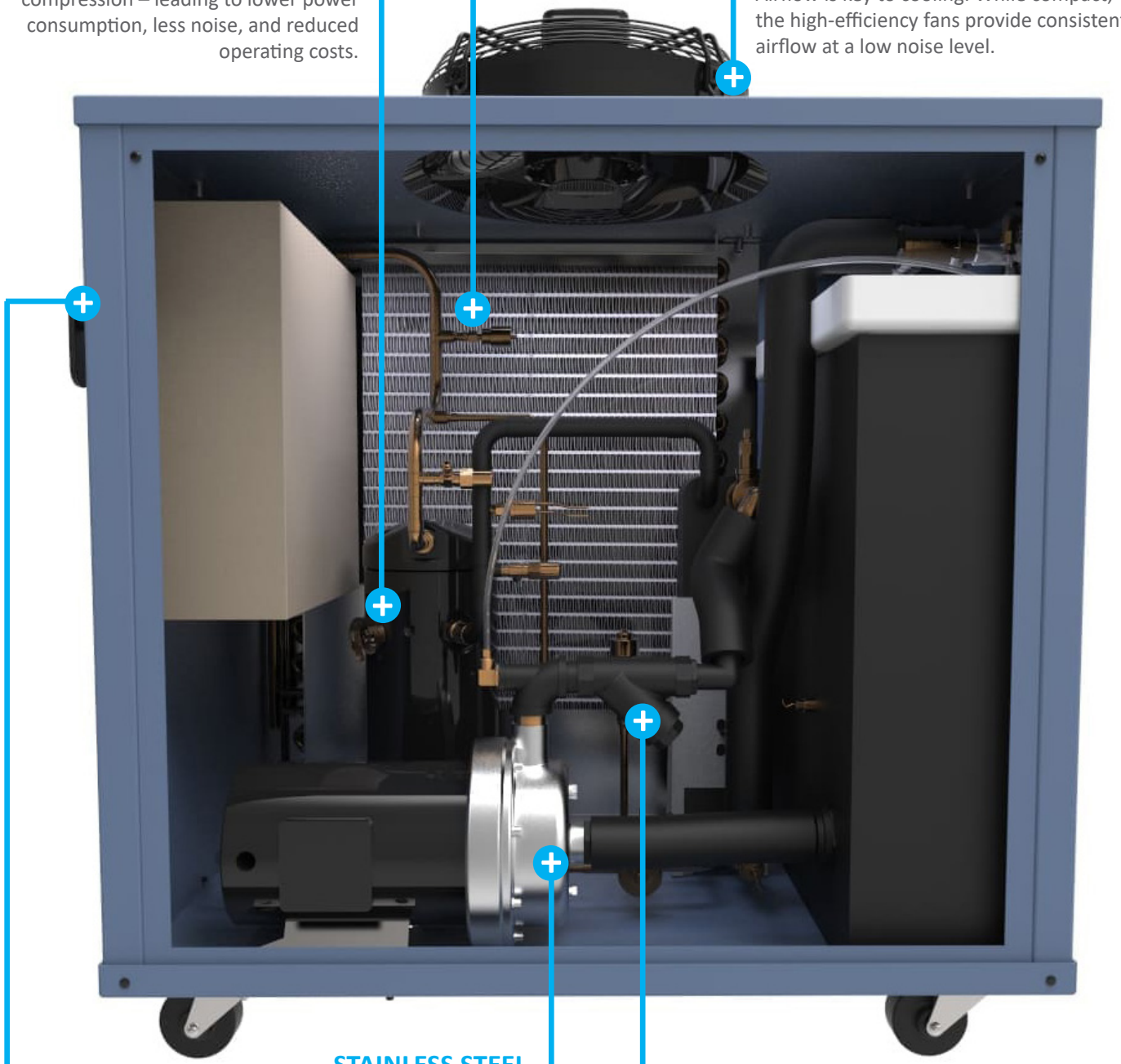
Consistent energy savings thanks to fewer moving parts and smooth, steady compression – leading to lower power consumption, less noise, and reduced operating costs.

OVERSIZED AIR-COOLED CONDENSERS

Industrial-grade aluminum condensers and cleanable filters, for improved heat transfer, energy efficiency, corrosion resistance, and durability.

QUIET, CONSISTENT FLOW

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



PLC CONTROL

Extensive diagnostics, precise control, and Modbus RTU ensure consistent performance, fast troubleshooting, easy integration, and high reliability in harsh conditions.

STAINLESS STEEL PROCESS PUMP

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

HOT GAS BYPASS

Prevents short-cycling by simulating a cooling load, ensuring stable temperatures, reducing compressor wear, and enabling quick response to demand changes.

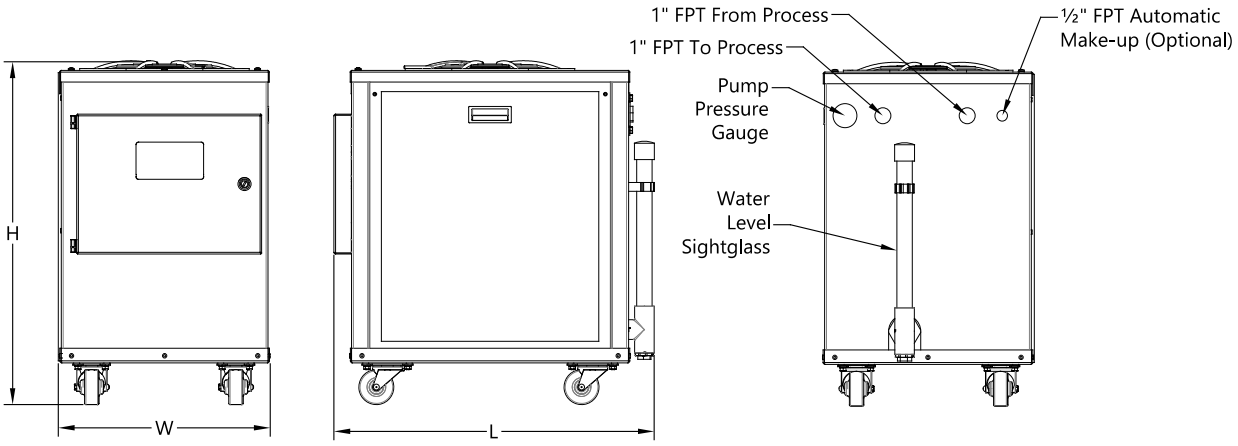
Additional Benefits:

- **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.

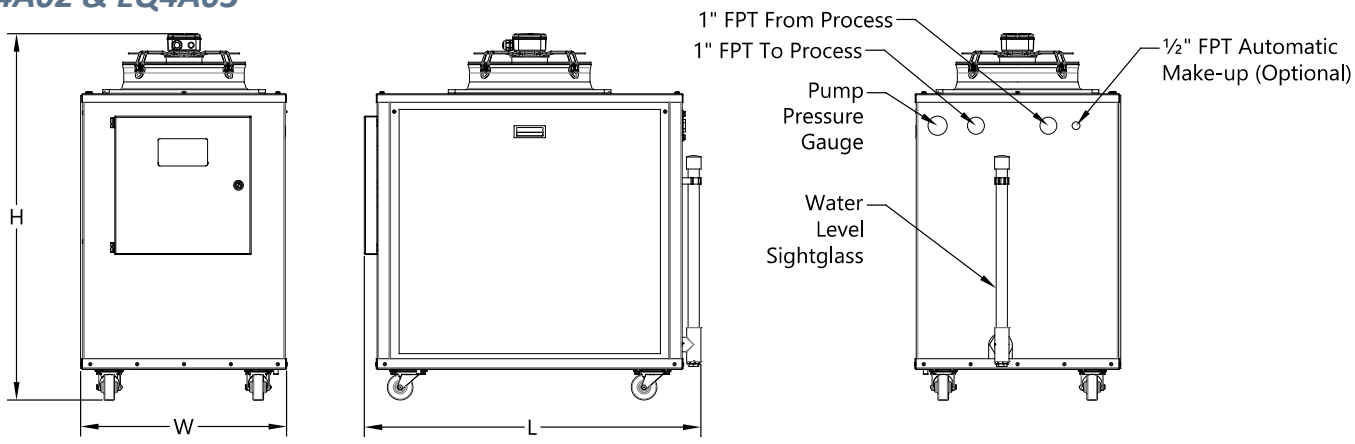
Available Options:

- **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**

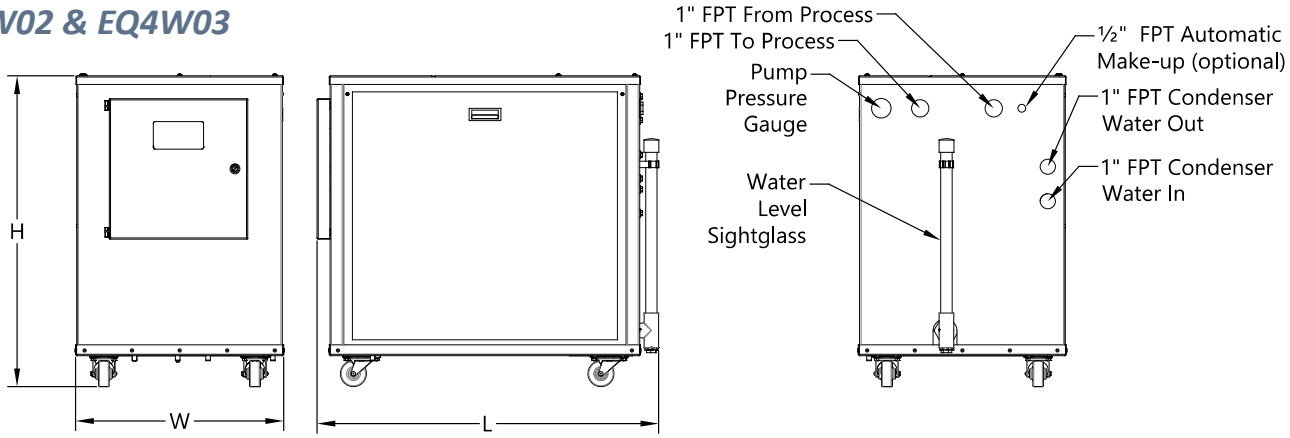
EQ4A01



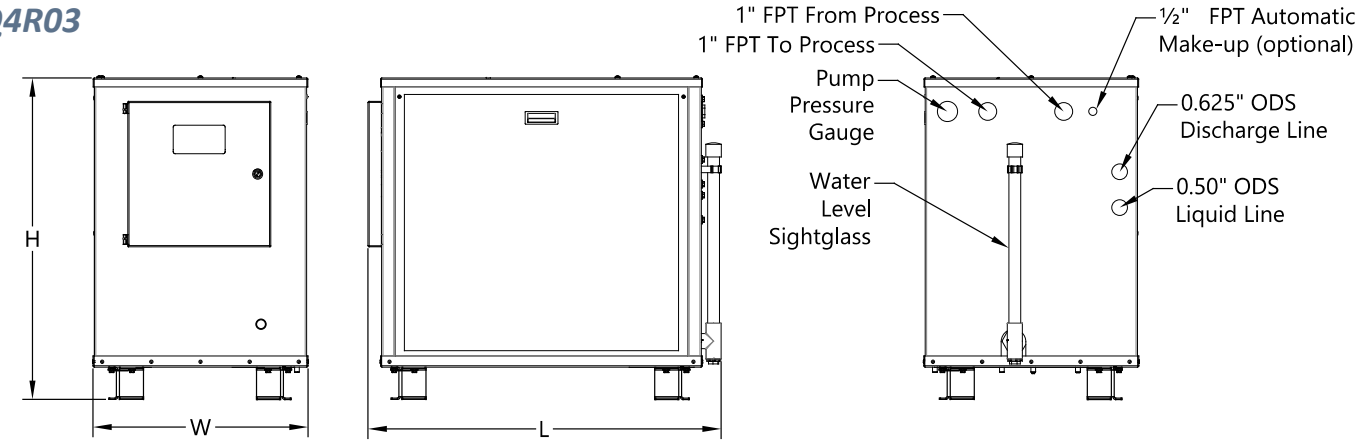
EQ4A02 & EQ4A03



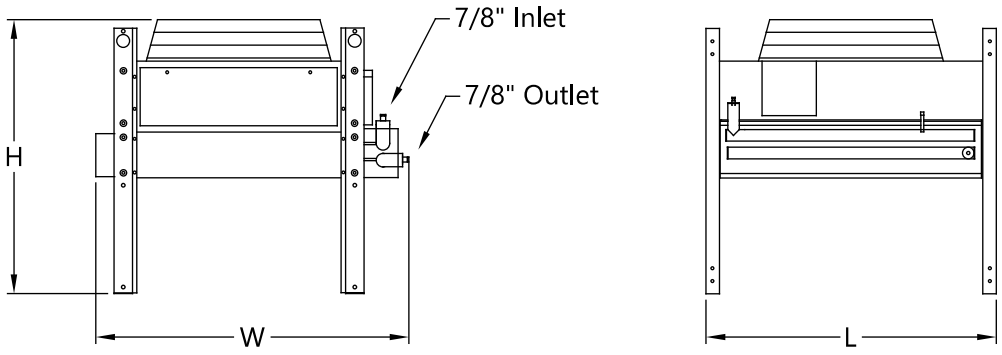
EQ4W02 & EQ4W03



EQ4R03



LAVB11210



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)	¼ (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

[1]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[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

[1]MCA is Minimum Circuit Amps, used for minimum wire size requirement.
[2]MOP is Maximum Overcurrent Protection, used for sizing main power protection devices.
[3]Includes the largest pump option.
[4]Only available for use with 230/1/60.

Pump Curves (60 Hz); Water at 50°F (10°C)