

SALES AND ENGINEERING DATA

E2P10-XXXXX-XX-XXA 1" METALLIC EVO 210 SERIES ELECTRIC DIAPHRAGM PUMP

RELEASED: 5-31-25
REVISED: 8-22-25
(REV: B) S-1667

SPECIFICATIONS

CONSTRUCTION

Model Series E2P10-XXXXX-XX-XXA
Pump Type Metallic, Electric-Operated,
Two Diaphragm
Weight
E2P10-AXXXX-XX-XXA 162 lbs (73 kg)
E2P10-SXXXX-XX-XXA 193 lbs (88 kg)
Fluid Section Service Kit 637586-XXX

PERFORMANCE

E2P10-XXXXX-AX-XXA
Maximum Inlet Pressure^① 25 psig (1.72 bar)
Average working Pressure Limit^② . 50 psig (3.45 bar)
Maximum Outlet Working
Pressure^② 100 psig (6.89 bar)

E2P10-XXXXX-BX-XXA
Maximum Inlet Pressure^① 35 psig (2.41 bar)
Average working Pressure Limit^② . 70 psig (4.83 bar)
Maximum Outlet Working
Pressure^② 140 psig (9.65 bar)

E2P10-XXXXX-CX-XXA
Maximum Inlet Pressure^① 50 psig (3.45 bar)
Average working Pressure Limit^② . 95 psig (6.55 bar)
Maximum Outlet Working
Pressure^② 190 psig (13.1 bar)

Maximum Flow Rate E2P10-XXXXX-AX-XXA
Values listed below for 4 pole motor (1800 RPM sync. speed)
39 GPM (148 lpm) @ 80 Hz (2400 RPM) motor speed
28 GPM (106 lpm) @ 60 Hz (1800 RPM) motor speed
21 GPM (79 lpm) @ 50 Hz (1500 RPM) motor speed

Maximum Flow Rate E2P10-XXXXX-BX-XXA
Values listed below for 4 pole motor (1800 RPM sync. speed)
37 GPM (140 lpm) @ 90 Hz (2700 RPM) motor speed
22 GPM (83 lpm) @ 60 Hz (1800 RPM) motor speed
18 GPM (68 lpm) @ 50 Hz (1500 RPM) motor speed

Maximum Flow Rate E2P10-XXXXX-CX-XXA

Values listed below for 4 pole motor (1800 RPM sync. speed)
36 GPM (136 lpm) @ 120 Hz (3600 RPM) motor speed
19 GPM (72 lpm) @ 60 Hz (1800 RPM) motor speed
15 GPM (57 lpm) @ 50 Hz (1500 RPM) motor speed

Displacement / Cycle 0.17 gal. (0.64 lit.)

Maximum Particle Size 1/8" dia. (3.3mm)

Maximum Wet Suction Lift 31.2 ft H₂O
(9.5 m H₂O)

Maximum Dry Suction Lift 11.3 ft H₂O
(3.4 m H₂O)

Maximum Temperature Limits

	Min	Max	Min	Max
Ambient Temperature	0° F	104° F	-18° C	40° C
Fluid Temperature	32° F	212° F	0° C	100° C
Fluid temperature should be further limited of one of the following materials of construction is used in the wetted sections:				
PTFE	40° F	212° F	4° C	100° C

Noise Level

Noise Emission Values in accordance with ISO 4871 ^③	
Pump Configuration	E2P10-AAAAA-CA-00A (Santoprene Balls / Seats)
Sound Power	
50 Hz @ 0 psig	75.2 db(A)
50 Hz @ 90 psig	80.3 db(A)
60 Hz @ 0 psig	79.3 db(A)
60 Hz @ 90 psig	82.0 db(A)
120 Hz @ 0 psig	91.9 db(A)
120 Hz @ 30 psig	92.1 db(A)
Sound Pressure	
50 Hz @ 0 psig	65.1 db(A)
50 Hz @ 90 psig	70.1 db(A)
60 Hz @ 0 psig	69.6 db(A)
60 Hz @ 90 psig	71.9 db(A)
120 Hz @ 0 psig	81.8 db(A)
120 Hz @ 30 psig	82.0 db(A)

① **NOTE:** When pump is subjected to maximum inlet pressure, note that average working pressure limit and maximum outlet working pressure cannot be exceeded.

② **NOTE:** Outlet pressure produced by pump fluctuates with each cycle, peaking at a value defined as the "Outlet working pressure" and has an average value defined as the "average working pressure". Maximum peak pressure values cannot exceed "Maximum outlet working pressure". Maximum average pressure values cannot exceed "average working pressure limit". End user piping design must be rated to withstand "Maximum outlet working pressure".

③ The pump sound pressure levels published here have been updated to anEquivalent Continuous Sound Level (LAeq) to meet the intent of ANSI S1.13-1971, CAGI-PNEUROP S5.1 using four microphone locations.

NOTE: Motors will operate direct on line power 50 Hz or 60 Hz depending on the country of installation. The end user will need to supply their own variable frequency drive (VFD) if they will operate at frequencies other than 50 Hz or 60 Hz.

NOTE: Performance values listed on this document for pump outfitted with Aluminum fluid wetted sections and Santoprene balls, seats and diaphragms.

ARO

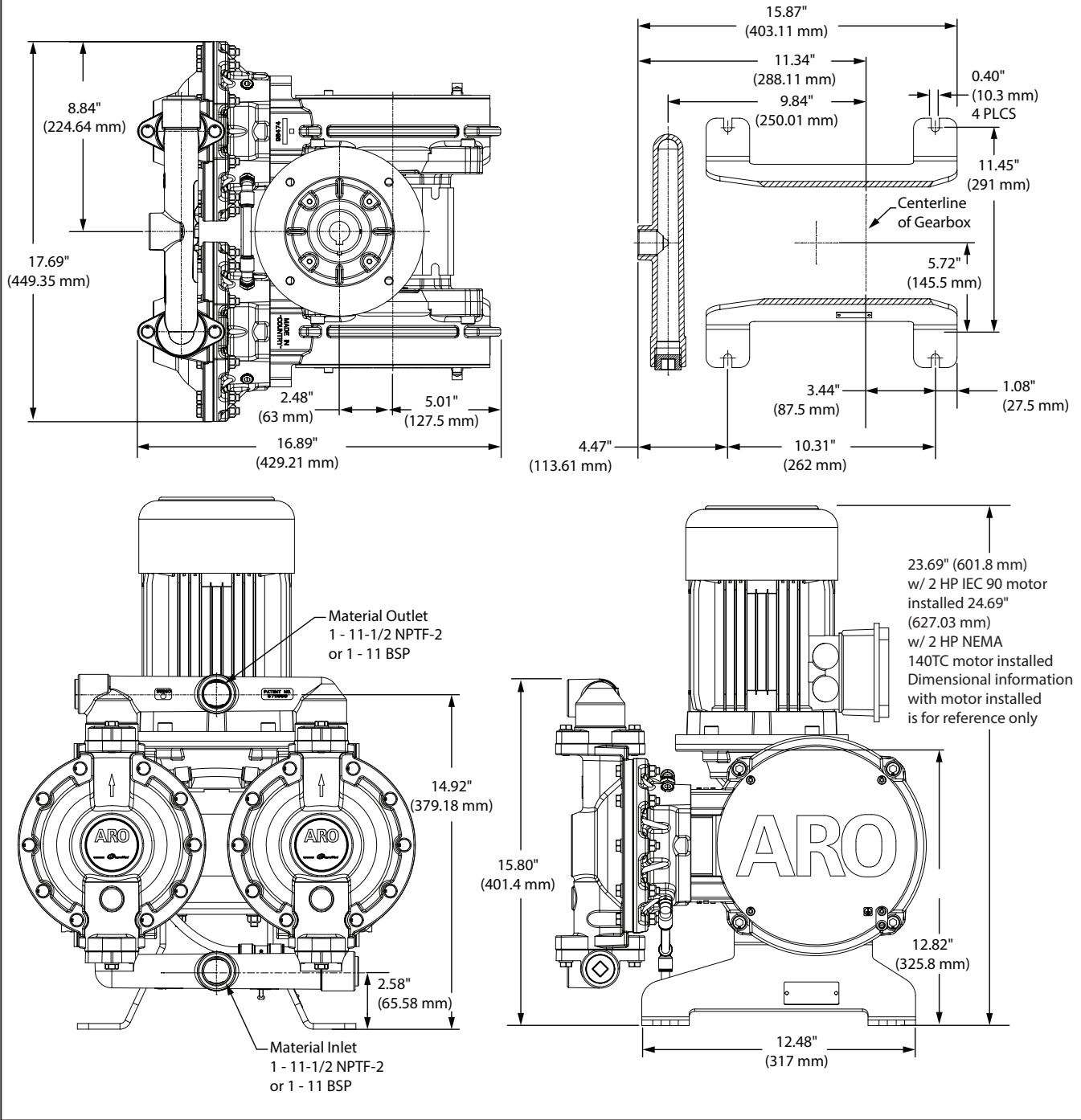
209 NORTH MAIN STREET – BRYAN, OHIO 43506

① (800) 495-0276 • FAX (800) 892-6276 © 2025
arozone.com

ARO®

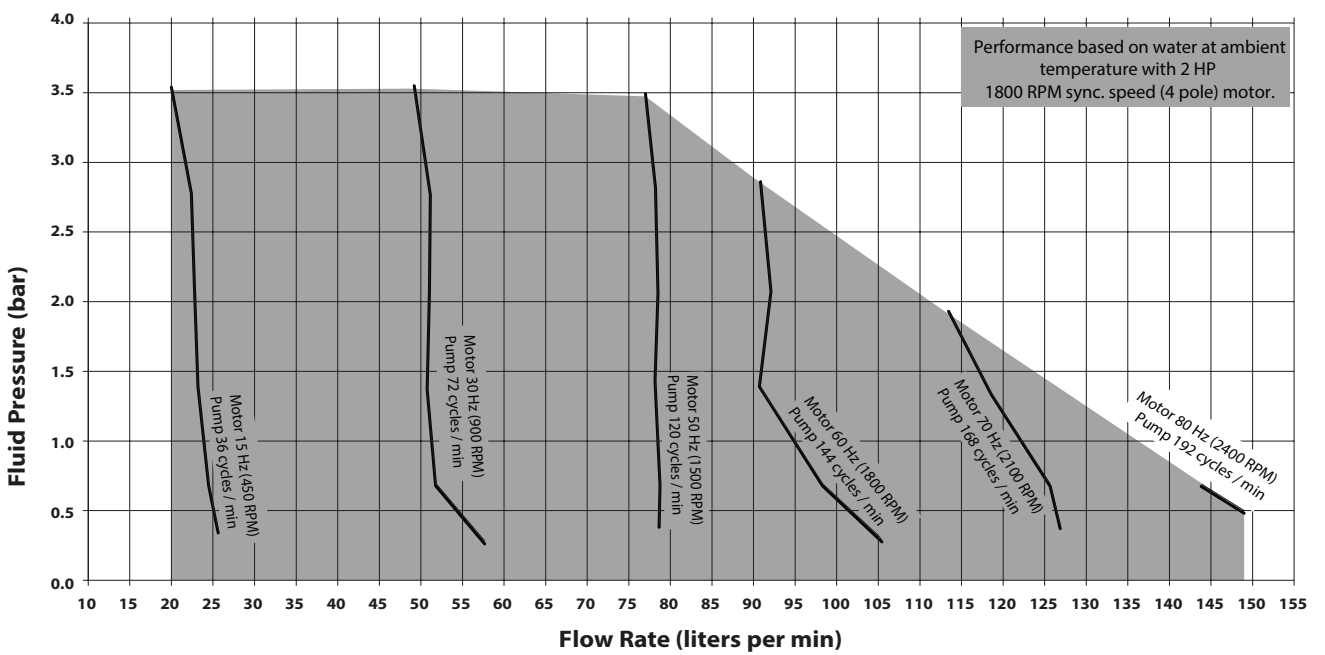
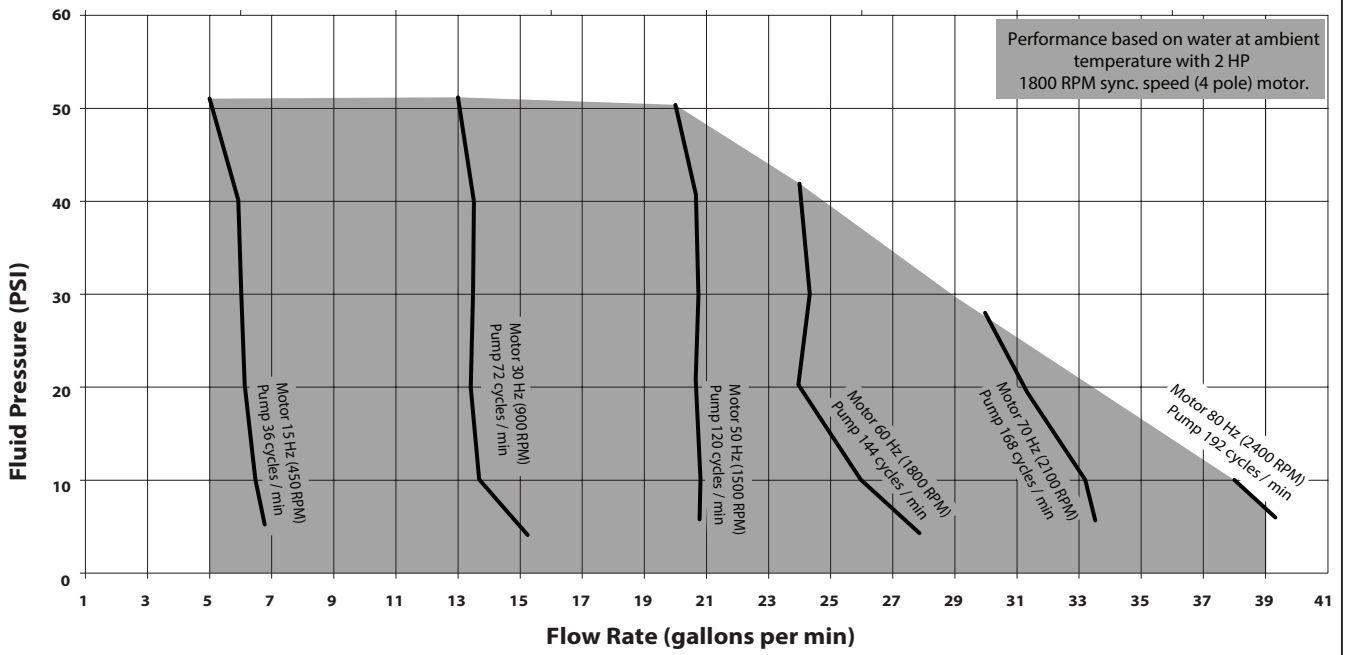
DIMENSIONAL DATA

Dimensions shown are for reference only. They are displayed in inches and millimeters (mm).

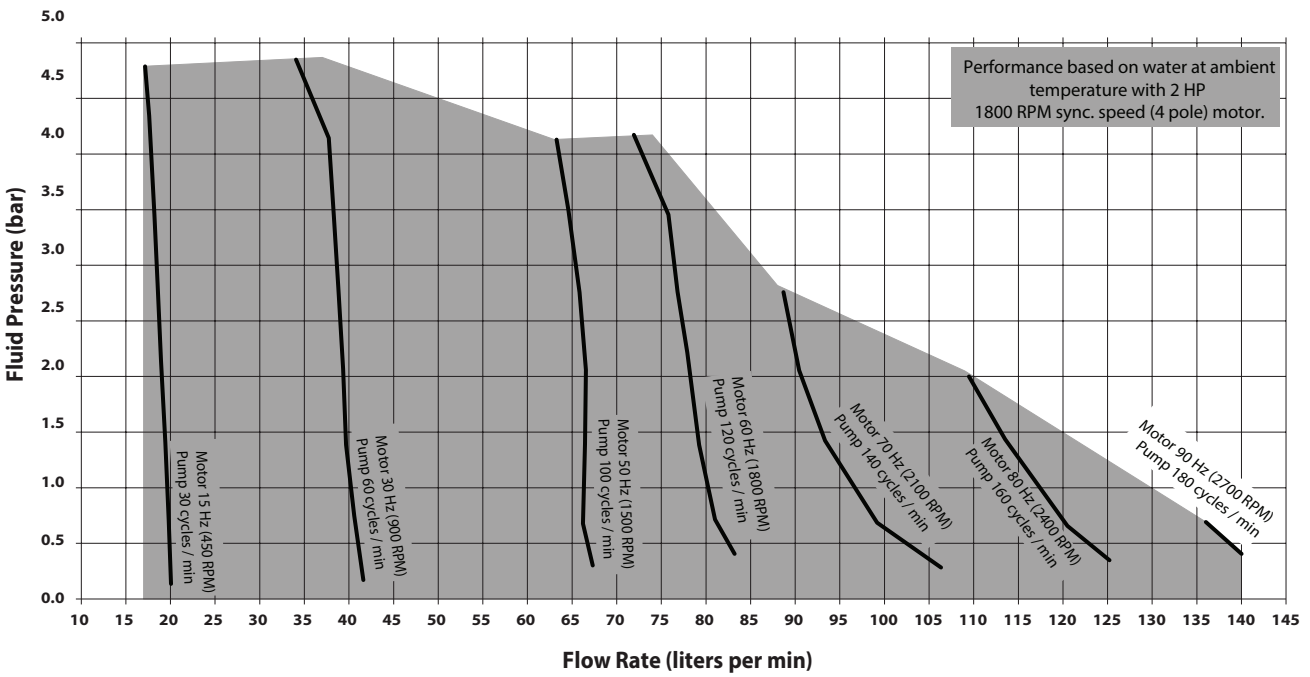
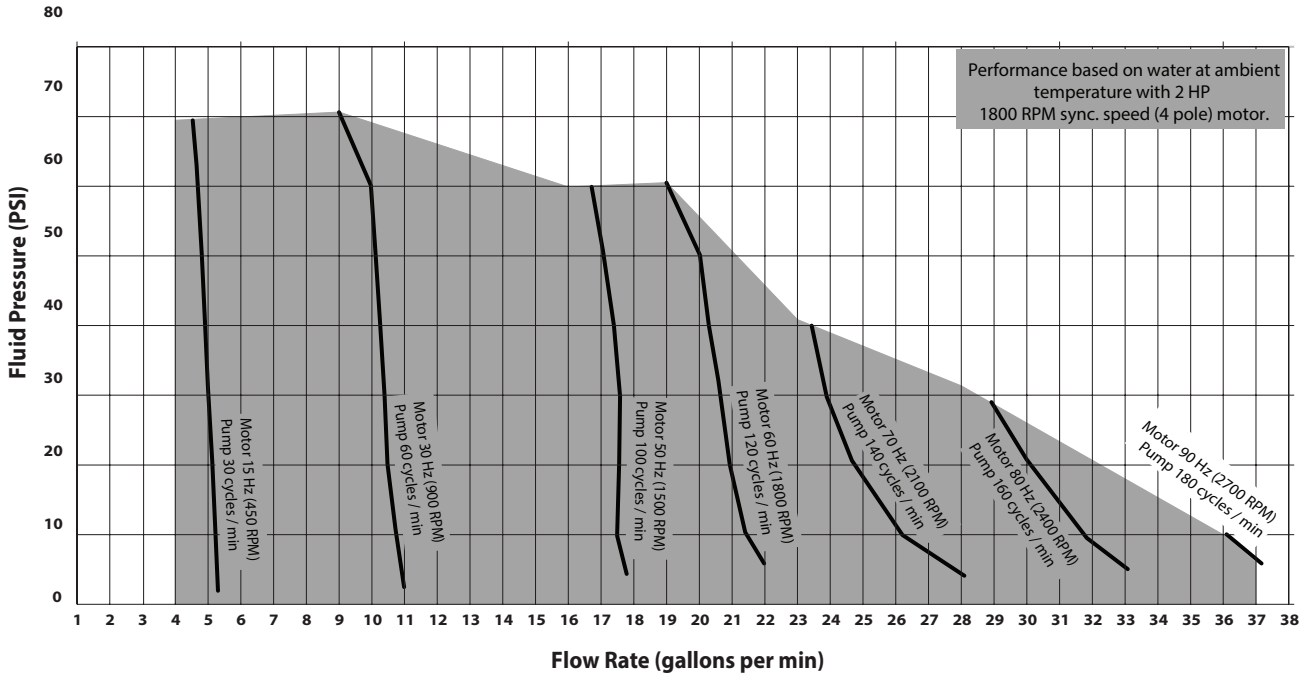


PERFORMANCE CURVES

E2P10-XXXXX-AX-XXA 1" Metallic Electric Diaphragm Pump Performance



E2P10-XXXXX-BX-XXA 1" Metallic Electric Diaphragm Pump Performance



E2P10-XXXXX-CX-XXA 1" Metallic Electric Diaphragm Pump Performance

