Blue-White®

C-600P

CHEM-FEED® Diaphragm Metering Pump

Features

> All ball bearing, permanently lubricated gear motor for smooth, quiet, powerful operation
> Double-ball inlet and outlet cartridge type ceramic check valves
> Stroke adjustment from 4-100% permits accurate small injections at a high rate per minute
> Fixed speed
> Mechanical cam

Highlights

Flow range
1 - 21.5 GPH
4 - 81.4 LPH

Pressures
125 PSI
(8.6 bar)

Turndown ratio
27 : 1

Max. suction lift
10 ft. Water 0 psig

Motor
AC Shaded Pole
DC Permanent Magnet

Warranty
1 Year

For more help and information regarding **C-600P**, please visit www.blue-white.com or scan this QR code.

Engineering Specifications

Max. Working Pressure:	125 psig (8.6 bar)
Max. Fluid Temperature:	130° F (54° C)
Max. Ambient Temperature:	14 to 110° F/ -10 to 43° C
Max. Viscosity:	1,000 Centipoise
Max. Suction Lift:	10 ft. Water at sea level (14.7 psia)
Operating Voltage:	115VAC/60Hz, 1ph (.74 Amp Maximum)
	230VAC/60Hz, 1ph (.36 Amp Maximum)
	220VAC/50Hz, 1ph (.31 Amp Maximum)
	240VAC/50Hz, 1ph (.27 Amp Maximum)
	24VAC/60Hz, 1ph (3.40 Amp Maximum)
	12VDC (3.00 Amp Maximum) (not available for 45rpm or 250rpm model)
	24VDC (1.50 Amp Maximum)
Power Connection:	Junction box for field wiring (except for 220V models) 220V models include power cord/plug, and do not include junction box
Motor:	AC shaded pole / DC PM
Duty Cycle:	Continuous
Output Adjustment Range:	4% – 100% stroke adjustment
Enclosure:	NEMA 1 (IP20) powder coated zinc
Approximate shipping wt:	8 lb. (3.63 kg)
RoHS Compliant:	Yes
Standards:	NSF/ANSI 50, UL, CSA, CE

Output Specifications

DC powered models

Maximum Output at 0 PSI				Strokes/Min	Max PSI
GPD	GPH	LPH	OZ/MIN		
33	1.4	5.2	2.9	14	125
74	3.1	11.7	6.5	30	125
112	4.7	17.8	10.0	45	80
148	6.2	23.3	13.2	60	60
316	13.2	49.9	28.1	125	30
516	21.5	81.4	45.8	250	10

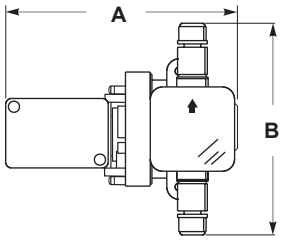
AC powered models (50Hz models have 20% less flow)

Maximum Output at 0 PSI				Strokes/Min	Max PSI
GPD	GPH	LPH	OZ/MIN		
24	1.0	3.8	2.1	14	125
58	2.4	9.1	5.2	30	125
91	3.8	14.4	8.1	45	80
110	4.6	17.4	9.8	60	60
237	9.9	37.4	21.1	125	30
389	16.2	61.4	34.6	250	10

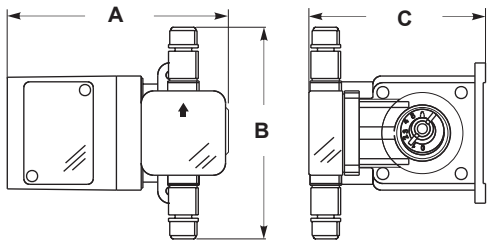
NOTE: For optimum diaphragm life, specify the pump to operate at the lowest possible RPM and pressure.

Dimensions

	DC Powered Models		AC Powered Models	
Dim	Inch	cm	Inch	cm
A	7-7/32	18.36	10-1/4	26.04
B	6-1/4	15.88	7-1/2	19.05
C	5-5/16	13.49	5-5/16	13.49



DC Powered Models



AC Powered Models

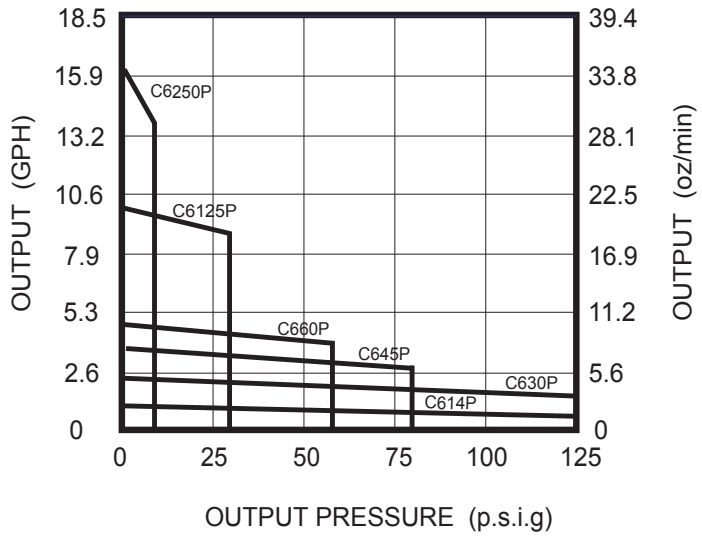
Materials of Construction

Wetted Components:	
Pump Head:	PVDF
Diaphragm:	PTFE Coated EP
Pump Head Inlet/Outlet Valves:	Cartridge Valve Body: PVDF
	Tube Adapters: PVDF
	Check Balls: Ceramic
	Ball Seat O-ring: TFE/P (optional EP)
	Static Seal O-ring: FKM (optional EP)
Suction Tubing:	Clear PVC
Discharge Tubing:	Natural Polyethylene (LLDPE)
Suction Footvalve/Strainer:	Body & Tubing adapter: PVDF (optional PTFE)
	Strainer: Polypropylene
	Check Ball : Ceramic (optional PTFE poppet)
	Ball Seat O-ring: TFE/P (optional EP)
	Static Seal O-ring: FKM (optional EP)
Injection/Check Valve:	Body & Insert: Polypropylene (optional PVDF, PTFE)
	Check Ball: Ceramic (optional PTFE poppet)
	Spring: Hastelloy C-276
	Ball Seat O-ring: TFE/P (optional EP)
	Static Seal O-ring: FKM (optional EP)

Performance

CHEM-FEED® C-600P Diaphragm Metering Pump

Maximum Output vs. Pressure Curve



Blue-White®

C-6	CHEM-FEED® C-600 Diaphragm Metering Pump

Maximum Motor Speed

14	14 RPM
30	30 RPM
45	45 RPM (Not available in 12V DC)
60	60 RPM
125	125 RPM
250	250 RPM (Not available in 12V DC)

Power Supply Voltage | All models include a junction box for wiring. 220 VAC models include a power cord and plug instead

115VAC	115 V / 60 Hz
220VAC	220 V / 50 Hz | 20% Reduced Output
230VAC	230 V / 60 Hz
240VAC	240 V / 50 Hz | 20% Reduced Output
24VAC	24 V / 60 Hz
12VDC	12 VDC
24VDC	24 VDC

C-6	**14**	**P**	**-**	**115VAC**	**Sample Model Number**

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ISO 9001:2015 CERTIFIED
SINCE Quality 1957
MADE IN THE USA