



C-600HV

CHEM-FEED® Diaphragm Pump



Features

- > All ball bearing, permanently lubricated gear motor for smooth, quiet, powerful operation.
- > High volume diaphragm pump
- > Stroke adjustment from 4-100% permits accurate small injections at a high rate per minute.
- > Fixed speed
- > Mechanical cam



Highlights

Flow range

1.74 - 47.1 GPH
6.6 - 178.3 LPH

Pressures

20 PSI
(1.4 bar)

Turndown ratio

27 : 1

Max. suction lift

10 ft. Water 0 psig

Motor

AC Shaded Pole
Motor

Warranty

1 Year



C-600HV

Engineering Specifications

Max. Working Pressure	20 psig (1.4 bar)
Max. Fluid Temperature	130 °F (54 °C)
Max. Ambient Temperature	14 °F to 110 °F/ -10 to 43 °C
Max. Viscosity	1,000 Centipoise
Max. Suction Lift	10 ft. Water at 0 psig
Output Adjustment Range	4-100% stroke length
Operating Voltage	115VAC/60Hz, 1ph (.74 amp maximum)
	230VAC/60Hz, 1ph (.36 amp maximum)
	220VAC/50Hz, 1ph (.31 amp maximum)
	240VAC/60Hz, 1ph (.27 amp maximum)
	24VAC/60Hz, 1ph (3.40 amp maximum)
	12VDC (3.00 amp maximum) (not available for 250rpm model)
	24VDC (1.50 amp maximum)
Duty Cycle	Continuous
Power Connection	Junction box for field wiring (except 220V models) 220V models include power cord, and do not include junction box
Approximate Shipping Weight	8 lb. (3.6kg)
Enclosure	NEMA 1 (IP20) powder coated zinc
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		
268	11.2	42.4	23.8	60	20
568	23.7	89.7	50.5	125	10
1,129	47.1	178.3	100.4	250	5

AC powered models

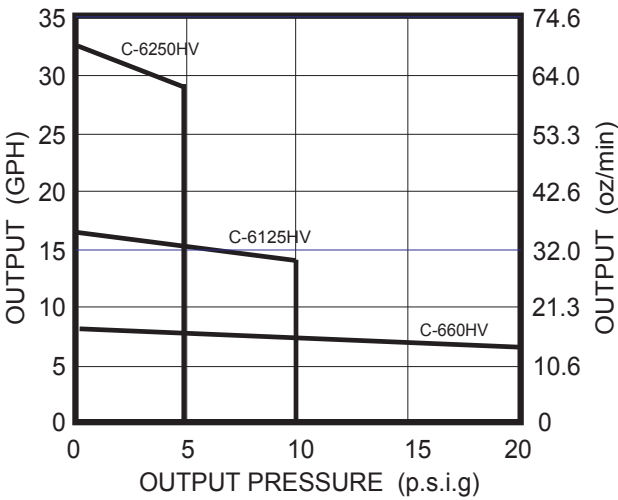
Maximum Output at 0 PSI				Strokes/Min	Max PSI
GPD	GPH	LPH	OZ/MIN		
189	7.8	29.5	16.8	60	20
398	16.5	32.4	35.3	125	10
791	32.9	124.5	70.3	250	5

Wetted Components:	
Pump Head:	Acrylic
Diaphragm:	EP (Ethylene-propylene) (FKM option - odered separately)
Pump Head Inlet/Outlet Valves:	Tube adapters: PVC
	Valve Poppit: EP (optional Viton)
	Adapter O-ring: EP (optional Viton)
	Poppit spring: Hastelloy C-276
Suction Tubing:	Clear PVC
Discharge Tubing:	Clear PVC
Suction Strainer:	Body & Tubing adapter: PVC
	Strainer: Polypropylene
Injection Fitting:	PVC

Performance

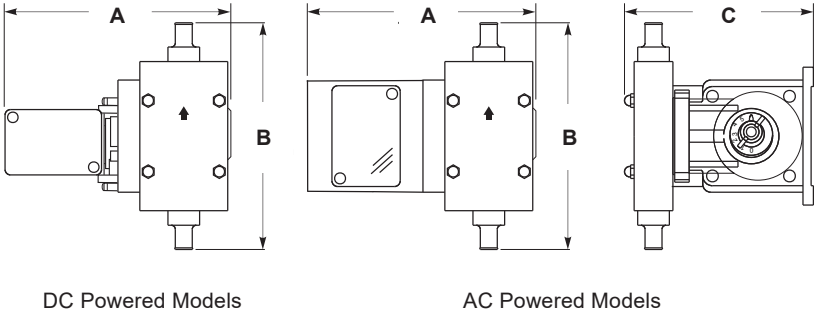
CHEM-FEED® C-600HV Diaphragm Pump

AC Powered Units
Maximum Output vs. Pressure Curve



Dimensions

Dim	DC Powered Models		AC Powered Models	
	Inch	cm	Inch	cm
A	7-7/32	18.3	6-3/4	17.15
B	7	17.78	7	17.78
C	6-1/8	15.55	6-1/8	15.55



Model Number Matrix

C-600HV

Model Number

C-6	CHEM-FEED® High Volume (HV) Diaphragm Model Number				
Maximum Motor RPM					
60	60 RPM				
125	125 RPM				
250	250 RPM (Not available in 12V DC)				
Power Supply Voltage ¹					
115VAC	115V60Hz			24VAC	24V60Hz
220VAC	220V50Hz (20% less output)			12VDC	12V DC
230VAC	230V60Hz			24VDC	24V DC
240VAC	240V60Hz				
C-6	60	HV	-	115VAC	Sample Model Number

1. All models come with junction box only for wiring, except 220V models which include power cord/plug only.

Optional Accessories and Components

C-3106NV FKM Diaphragm
F-5012V FKM O-ring (2 req.)
C-926V FKM Check (2 req.)
90010-110 Power Cord with Plug, 115V

Output Specifications

AC powered models

Maximum Output at 0 PSI					
Strokes/Min RPM	Max PSI	GPD	GPH	LPH	OZ/MIN
60	20	268	11.2	42.4	23.8
125	10	568	23.7	89.7	50.5
250	5	1,129	47.1	178.3	100.4

DC powered models

Maximum Output at 0 PSI					
Strokes/Min RPM	Max PSI	GPD	GPH	LPH	OZ/MIN
60	20	189	7.8	29.5	16.8
125	10	398	16.5	32.4	35.3
250	5	791	32.9	124.5	70.3

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