

# Blue-White<sup>®</sup>

Industries, Ltd.

## CHEM-FEED<sup>®</sup> Diaphragm Metering Pumps

Engineering and Technical Data

### C-600HV

**Fixed Speed**  
**Mechanical Cam**  
**Output Adjustment**



#### Features:

- All ball bearing, permanently lubricated gear motor for smooth, quiet, powerful operation.
- Solid, clear acrylic pump head with large high-output diaphragm.
- EP diaphragm.
- Outputs to 791 GPD.
- Output pressures to 20 PSI.
- Stroke adjustment from 4-100% permits accurate small injections at a high rate per minute. 27:1 turndown
- Durable metal epoxy coated construction.
- PVC suction strainer with removable polypropylene filter screen.
- Includes 1/2" ID clear PVC suction and discharge tubing, PVC Injection fitting and all mounting hardware.

#### Specifications:

Max. working pressure: .....20 psig (1.4 bar)

Max. fluid temperature: .....130° F (54° C)

Max. ambient temperature: ..14° to 110° F / -10° to 43° C

Maximum viscosity: .....1,000 Centipoise

Maximum suction lift: .....10 ft. Water 0 psig

Output adjustment range: ....4-100% stroke length

Duty cycle: .....Continuous

Enclosure: .....NEMA type 1, (IP20)

Voltage (amp draw): .....115VAC/60Hz, 1ph (.74 amp max)

230VAC/60Hz, 1ph (.36 amp max)

220VAC/50Hz, 1ph (.31 amp max)

24VAC/60Hz, 1ph (3.40 amp max)

12VDC (3.00 amp max)

24VDC (1.50 amp max)

Power Connection: .....Junction box for field wiring

Approximate shipping wt: ...8 lb. (3.6 kg)

#### Materials of Construction:

##### Wetted components:

Pump Head: .....Acrylic (optional Teflon)

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:

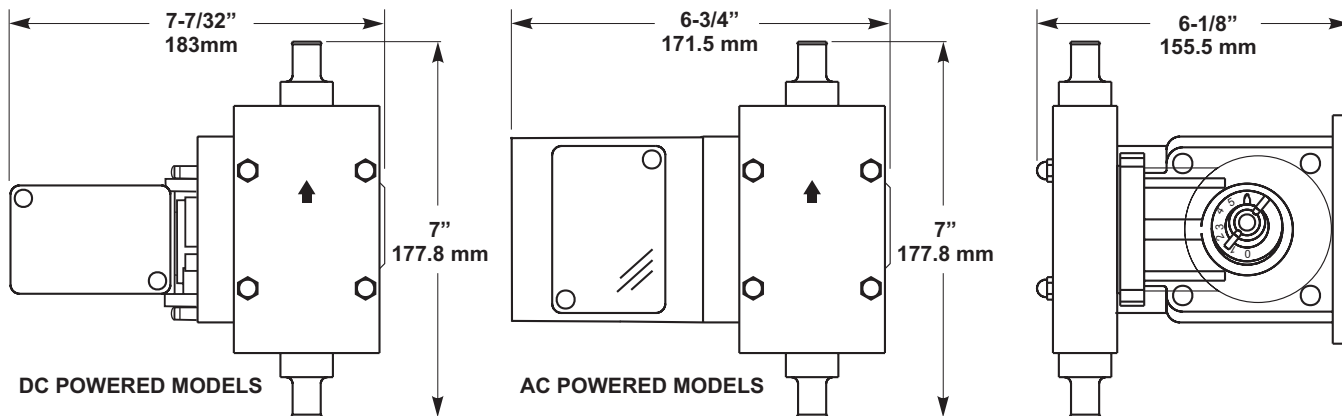
Body & Tubing adapter: .....PVC

Strainer: .....Polypropylene

Injection Fitting: .....PVC

# Blue-White Industries, Ltd. CHEM-FEED® Diaphragm Metering Pumps

## Dimensions:



## Model Number Matrix:

MODEL C-6 [ ] HV - [ ]

<b>Maximum Motor RPM</b> 60 = 60 RPM 125 = 125 RPM 250 = 250 RPM
<b>Pump Head / Wet Parts</b> P = Heavy duty cartridge style polypropylene head HV = High volume output acrylic head
<b>Power Supply Voltage</b> 115VAC = 115V60Hz 220VAC = 220V50Hz (20% less output) 230VAC = 230V60Hz 24VAC = 24V60Hz 12VDC = 12V DC 24VDC = 24V DC

## Flow rate and pressure capacities:

### AC powered models:

Max Output at 0 PSI				Strokes	Max	115V/60Hz	230V/60Hz	220V/50Hz*
GPD	GPH	LPH	OZ/MIN	Per minute	PSI	Model Number	Model Number	Model Number
189	7.8	29.5	16.8	60	20	C-660HV-115VAC	C-660HV-230VAC	C-660HV-220VAC
398	16.5	32.4	35.3	125	10	C-6125HV-115VAC	C-6125HV-230VAC	C-6125HV-220VAC
791	32.9	124.5	70.3	250	5	C-6250HV-115VAC	C-6250HV-230VAC	C-6250HV-220VAC

\* Note: 220V/50Hz models deliver approximately 20% less output.

### DC powered models:

Max Output at 0 PSI				Strokes	Max	12V DC	24V DC
GPD	GPH	LPH	OZ/MIN	Per minute	PSI	Model Number	Model Number
268	11.2	42.4	23.8	60	20	C-660HV-12VDC	C-660HV-24VDC
568	23.7	89.7	50.5	125	10	C-6125HV-12VDC	C-6125HV-24VDC
1,129	47.1	178.3	100.4	250	5	C-6250HV-12VDC	C-6250HV-24VDC

### Maximum Output vs. Pressure Curve

