



HIGH EFFICIENCY LOW ENERGY USAGE

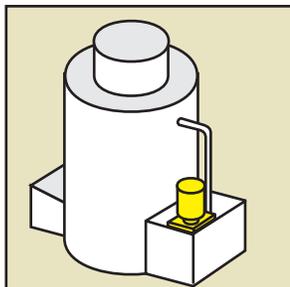
- Flows to 650 U.S. GPM or 115 FT. TDH @ 60 Hz (2050 l/m or 24m @ 50 Hz)
- Non-metallic solution contact CPVC construction (See a chemical resistance chart)
- Can run dry indefinitely, no bearings
- Heavy duty PTFE vapor seal Protects motor bearing and end bell.
- In-tank or out-of-tank
- Chemical duty motor (7.5 - 20.0 HP) Sealed oversized bearings. Cast iron end bells with vapor seal. Corrosion resistant epoxy enamel finish. Stainless steel nameplate. Service factor 1.15.
- Includes PVC pump mounting plate
- Standard column length 19"

The **Series 'EHM' Vertical Pump** features a cantilevered CPVC sleeved stainless steel shaft which eliminates bearings and conventional pump seals, resulting in a pump that can run dry without damage. A compound impeller prevents liquid from rising in the column while the fully-enclosed bottom impeller provides high hydraulic efficiency at low horsepower.

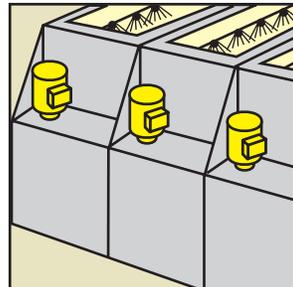
The pump drive shaft is stainless steel and is protected

by a heavy duty CPVC impeller sleeve assembly. A vapor seal between the rotating shaft and pump column protects the motor and motor bearings. The complete pump assembly features non-metallic solution contact.

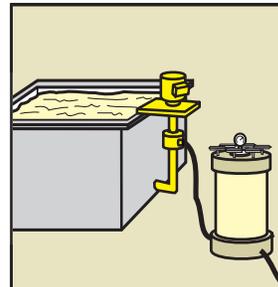
The high efficiency impeller provides "pump-down" capabilities to 9 ft. below the inlet when using a suction extension. Viton® "O"-rings, discharge pipe assembly and suction strainer are available as options.



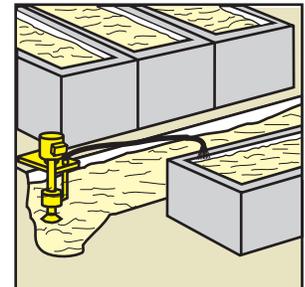
FUME SCRUBBING



PCB WET PROCESSING



OUT OF TANK PUMPING and FILTRATION



SUMP DRAINING and WASTE TREATMENT

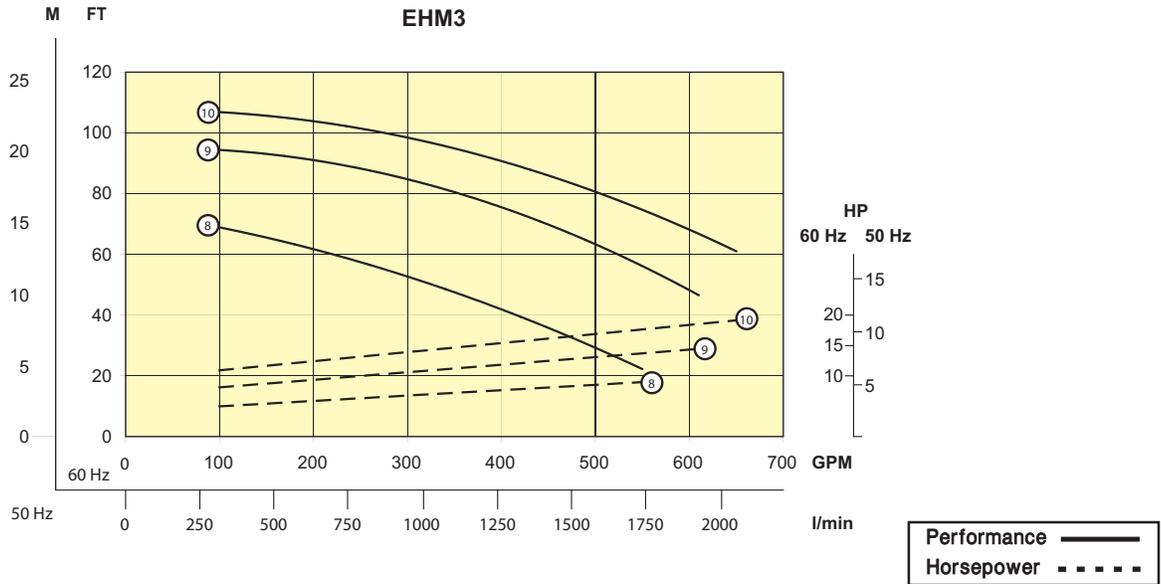


SERIES 'EHM' | VERTICAL PUMPS

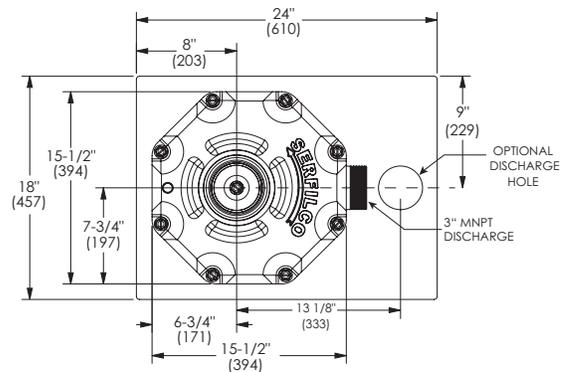
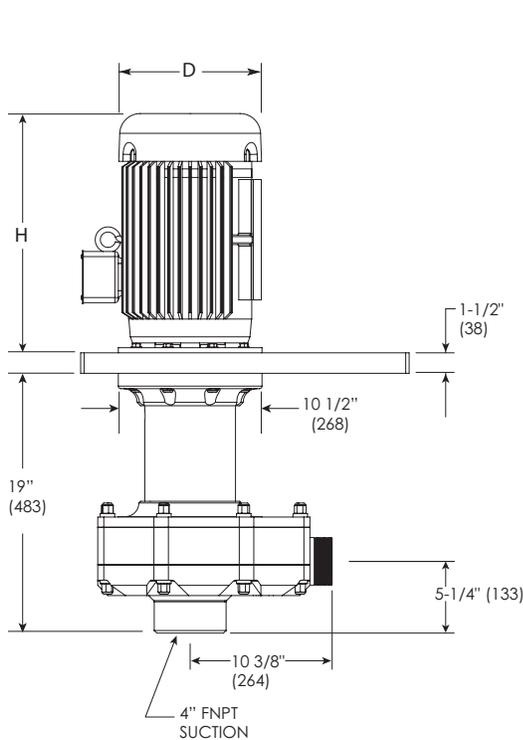
2900 MacArthur Blvd. Northbrook, IL. USA 60062 www.serfilco.com (800) 323 - 5431

Pump models are constructed of CPVC with CPVC sleeved stainless steel shaft. The mounting plate is PVC and includes a PTFE vapor seal. Standard "O"-rings are EPDM (ethylene propylene). The compound design impeller is fully enclosed for maximum efficiency.

Series 'EHM' pumps offer non-metallic solution contact. The chemical duty motors are 208-230/460V/3/60 @ 3450 or 1725 RPM and 190-208/380-415V/3/50 @ 2850 or 1450 RPM, TEFC, NEMA "C" face, painted with two-part epoxy enamel. These pumps can be used with up to a 9 ft. (2.7 m) suction extension under certain conditions.



DIMENSIONS Inches (mm)



| MOTOR (NEMA) | | | | | PUMP + MOTOR | |
|--------------|---------------------------------|-----|---------------------------------|-----|------------------|-----|
| DIMENSIONS | | | | | SHIPPING WEIGHTS | |
| HP (KW) | DIAMETER (D) | | HEIGHT (H) | | LBS. | kg. |
| | INCHES | mm | INCHES | mm | | |
| 10 | 10- ³ / ₈ | 264 | 18- ³ / ₈ | 467 | 230 | 105 |
| 15 | 10- ³ / ₈ | 264 | 18- ³ / ₈ | 467 | 290 | 132 |
| 20 | 13 | 330 | 19-15/16 | 506 | 360 | 163 |
| 7.5 (5.5) | 10- ¹ / ₄ | 260 | 14-9/16 | 370 | 210 | 95 |
| 10 (7.5) | | | 14-9/16 | 370 | 250 | 113 |
| 15 (11.0) | | | 14-9/16 | 370 | 330 | 150 |



TO ORDER, use Price Code Number

TABLE I

*For standard CPVC pump-motor combination, select model from TABLE I.
For custom pump-motor combination, select from TABLE II*

Select flow curve number providing the desired performance. Then match to Model Number listed below. Motor HP is non-overloading at full capacity.

| TYPICAL 60 Hz MODELS | | |
|----------------------|------------------|----------------|
| FLOW CURVE NO. | MODEL | PRICE CODE NO. |
| 8 | EHM 3-8SC-H10.0 | 45-1886 |
| 9 | EHM 3-9SC-H15.0 | 45-1897 |
| 10 | EHM 3-10SC-H20.0 | 45-1808 |

| TYPICAL 50 Hz MODELS | | |
|----------------------|---------------------------|----------------|
| FLOW CURVE NO. | MODEL | PRICE CODE NO. |
| 9 | EHM 3-9SC-H10.0 (7.5kW) | 45-1895-A |
| 10 | EHM 3-10SC-H15.0 (11.0kW) | 45-1809 |

TABLE II

To determine pump model for a specified GPM, TDH, and specific gravity, select performance point on curve. Determine required HP by moving vertically to corresponding number dotted line. Read required HP at right ordinate and multiply by S.G. Select pump, impeller and motor and construct Model and Price Code No.

EXAMPLE: PUMP + IMPELLER + MOTOR = PRICE CODE NO.
EHM 3 + -9SC + H15.0 = 45-1897

| PUMP | | |
|-------|----------|----------------|
| MODEL | MATERIAL | PRICE CODE NO. |
| EHM 3 | CPVC-19" | 45-18 |

| FLOW CURVE NO. | IMPELLER | |
|----------------|----------|----------------|
| | MODEL | PRICE CODE NO. |
| 8 | -8SC | 8 |
| 9 | -9SC | 9 |
| 10 | -10SC | 0 |

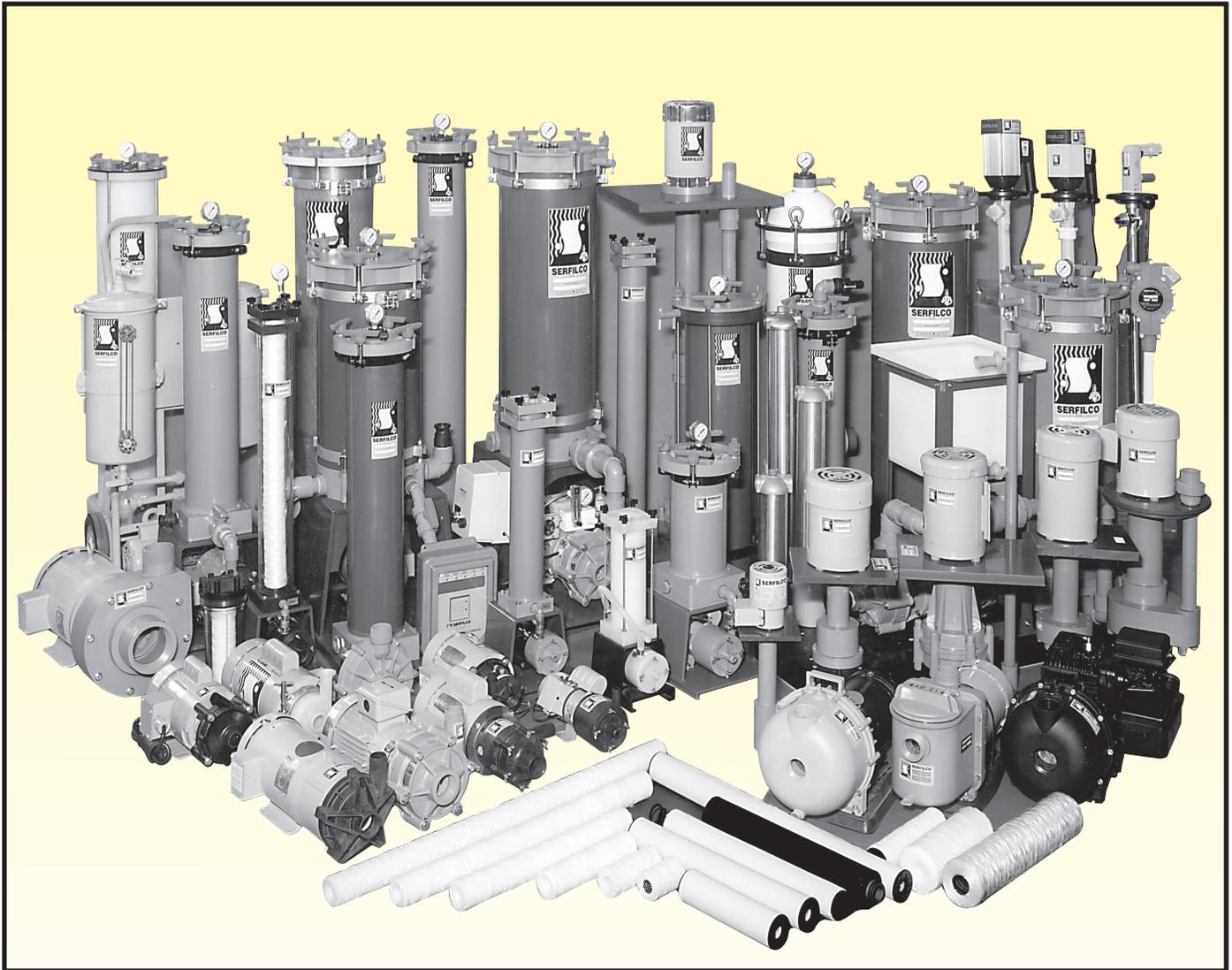
| FREQ RPM | STD. HP (kW) | MOTOR ¹ | |
|---------------|--------------|--------------------|-----------------------------|
| | | MODEL NO. | PRICE CODE NO. ¹ |
| 60 Hz 1725 | 10 | -H 10.0 | 6 |
| | 15 | -H 15.0 | 7 |
| | 20 | -H 20.0 | 8 |
| 50 Hz 1450 | 7.5 | -H 7.5 | 4-A |
| | 10 | -H 10.0 | 5-A |
| | 15 | -H 15.0 | 9 |

¹ 60 Hz = 208-230/460/3/60
50 Hz = 190-208/380/415/3/50
To order pump without motor, use 0 for motor Price Code No.

OPTIONAL

| DESCRIPTION | ADD SUFFIX TO MODEL | ADD TO OR SEPARATE PRICE CODE NO. |
|--|---------------------|-----------------------------------|
| Viton "O"-rings (installed) | -V | -V |
| Titanium shaft for extremely corrosive atmosphere. (installed) | -T | -T |
| Through hole in mounting plate | -MPH | -H |
| Discharge pipe assembly | -DPA | 45-1241 |
| Suction strainer | -ST | 45-1242 |
| Suction extension, CPVC | | |
| 12" | K12 | 46-0089 |
| 24" | K24 | 46-0090 |
| 36" | K36 | 46-0091 |

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