

## HIGH EFFICIENCY AND LOW ENERGY USAGE FOR:

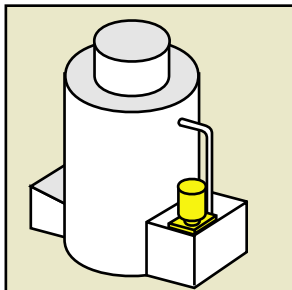
**PLATING / WET PROCESSING / ACIDS  
CHEMICALS / FUME SCRUBBERS  
and CLEANING SOLUTIONS**



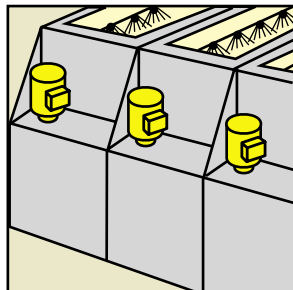
- Flows to 185 U.S. GPM or 145 FT. TDH @ 60 Hz (580 LPM or 31m @ 50 Hz)
- Non-metallic solution contact
  - PPP high temperature polypropylene construction
  - CPVC construction
  - PVDF construction (See a chemical resistance chart)
- Shaft vapor seal protects motor bearing and atmosphere
- Runs dry — seal-less, no bearings
- Chemical duty motor (1.0 - 7.5 HP)  
Sealed oversized bearings, cast iron end bells with vapor seal, corrosion resistant epoxy enamel finish, stainless steel nameplate. Dual 50/60 Hz. Service factor 1.15 at 60 Hz., 1.0 at 50 Hz
- Centrifugal — quiet, vibration-free
- In- or out-of-tank installation
- Choice of 12" or 18" column
- NPT or BSP connections

The Series 'EH' Sump Pump features a cantilevered, sleeved, stainless steel shaft with vapor seal between the rotating shaft and the support column to further protect the motor. The cantilevered shaft 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, even at maximum TDH, while the fully-enclosed bottom impeller provides high hydraulic efficiency at low horsepower.

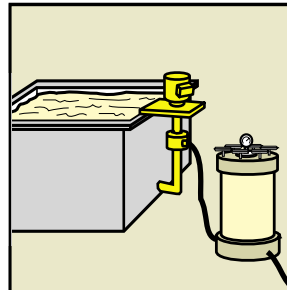
A unique characteristic of all Series 'EH' pumps is their ability to lift solution with an optional suction extension pipe installed. With the motor energized, the pump will self-prime when liquid is at impeller level. The solution level will then be pumped down to the end of the suction extension to a maximum depth of 9 ft. (2.7m). The pump will lose prime, then automatically re-prime when liquid again reaches the impeller.\*



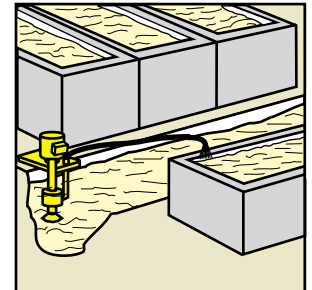
FUME SCRUBBING



PCB WET PROCESSING



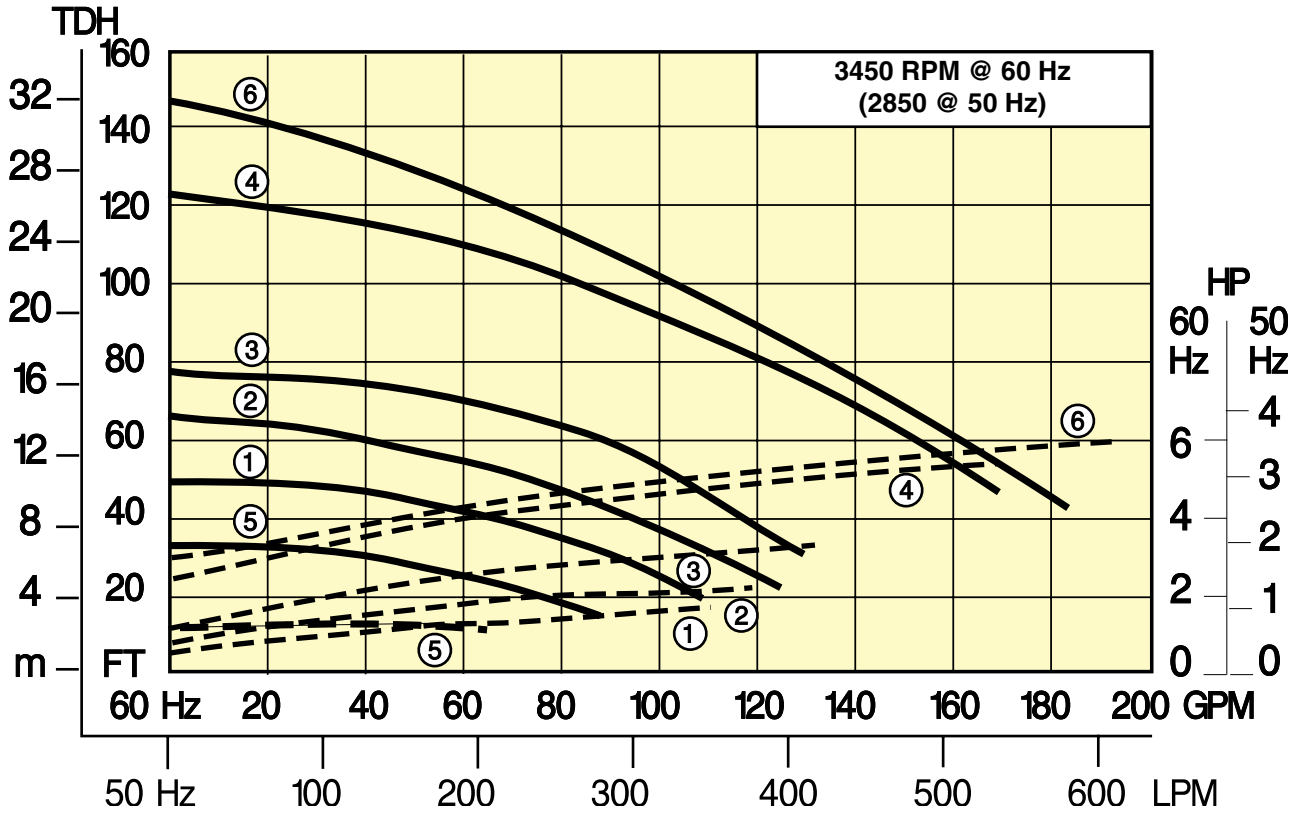
OUT-OF-TANK PUMPING and FILTRATION



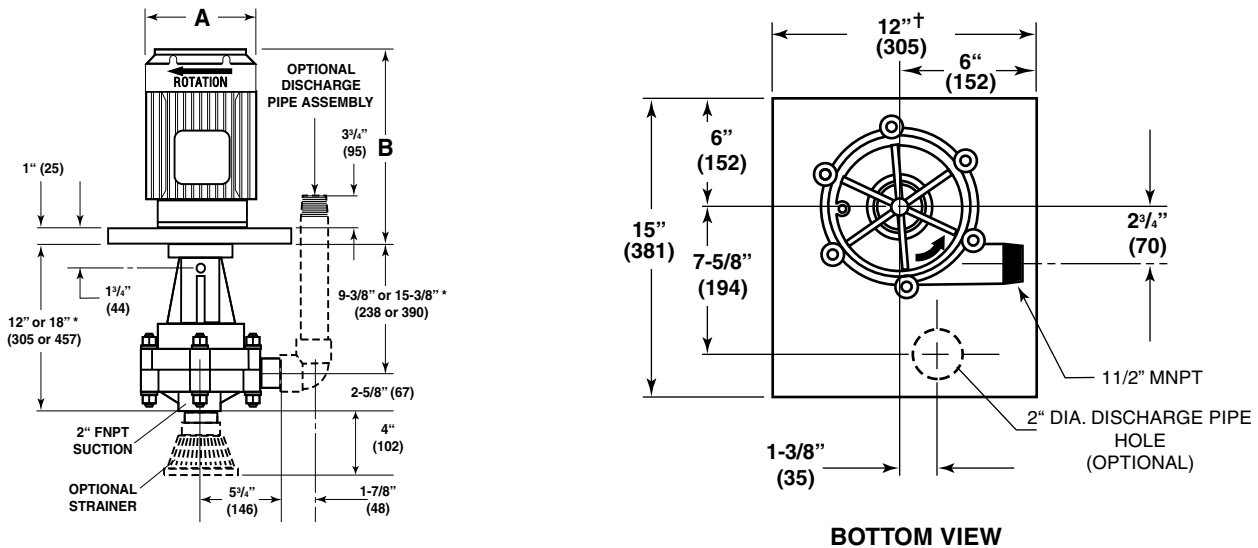
SUMP DRAINING and WASTE TREATMENT

\* Read: "Tips for the successful operation of sump pumps", Technical Bulletin TP-113.

**SERIES 'EH' Specifications**



**DIMENSIONS - Inches (mm)**



† The standard 12" x 15" (305 x 381 mm) mounting plate for CPVC and polypropylene pumps is shown. PVDF pumps have an 11 3/4" x 11 3/4" (298 x 298 mm) mounting plate.

\* 15 3/8" and 18" dimensions are for the LX models.

## SERIES 'EH' Ordering information

Pump models are constructed of CPVC, PPP polypropylene or PVDF with sleeved stainless steel shaft. Mounting plate is 1" (25mm) thick and includes PTFE vapor seal. Standard "O"-rings are EPDM (ethylene propylene) on CPVC pump and Viton® on polypropylene and PVDF pumps. Impeller is fully enclosed for maximum efficiency, compound design with pressure

plate. Assembly offers non-metallic solution contact. Chemical duty motors are 1 or 3 phase, TEFC, 50 or 60 Hz, 3450 or 2850 or 1725 or 1450 RPM, NEMA "C" face, painted with two-part epoxy enamel. May be used with up to a 9 ft. (2.7m) suction extension under certain conditions. The pump discharge orientation can be relocated in increments of 60°.

**TO ORDER, use Price Code Number**

**For standard CPVC, PP and PVDF pump-motor combination, select model from TABLE I.  
For other pump-motor combinations, select from components in TABLE II.**

**TABLE I**

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

60 Hz MODELS						
FLOW CURVE NO.	MODEL NUMBER	PRICE CODE NO.	MODEL NUMBERS	PRICE CODE NO.	MODEL NUMBER	PRICE CODE NO.
	CPVC		Polypropylene		PVDF	
1	EH 1 <sup>1</sup> / <sub>2</sub> -1SC-D1.5	45-0112	EHP 1 <sup>1</sup> / <sub>2</sub> -1SC-D1.5	45-0612	EHK 1 <sup>1</sup> / <sub>2</sub> -1SC-D1.5	45-0712
2	EH 1 <sup>1</sup> / <sub>2</sub> -2SC-D2.0	45-0123	EHP 1 <sup>1</sup> / <sub>2</sub> -2SC-D2.0	45-0623	EHK 1 <sup>1</sup> / <sub>2</sub> -2SC-D2.0	45-0723
3	EH 1 <sup>1</sup> / <sub>2</sub> -3SC-D3.0	45-0134	EHP 1 <sup>1</sup> / <sub>2</sub> -3SC-D3.0	45-0634	EHK 1 <sup>1</sup> / <sub>2</sub> -3SC-D3.0	45-0734
4	EH 1 <sup>1</sup> / <sub>2</sub> -4SC-D5.0	45-0145	EHP 1 <sup>1</sup> / <sub>2</sub> -4SC-D5.0	45-0645	EHK 1 <sup>1</sup> / <sub>2</sub> -4SC-D5.0	45-0745
5	EH 1 <sup>1</sup> / <sub>2</sub> -5SC-H1.5	45-0159	EHP 1 <sup>1</sup> / <sub>2</sub> -5SC-H1.5	45-0659	EHK 1 <sup>1</sup> / <sub>2</sub> -5SC-H1.5	45-0759
6	EH 1 <sup>1</sup> / <sub>2</sub> -5SC-D7.5	45-0156	EHP 1 <sup>1</sup> / <sub>2</sub> -5SC-D7.5	45-0656	EHK 1 <sup>1</sup> / <sub>2</sub> -5SC-D7.5	45-0756

50 Hz MODELS						
FLOW CURVE NO.	MODEL NUMBER	PRICE CODE NO.	MODEL NUMBERS	PRICE CODE NO.	MODEL NUMBER	PRICE CODE NO.
	CPVC		Polypropylene		PVDF	
1	EH 1 <sup>1</sup> / <sub>2</sub> -1SC-D1.0 (.75 kW)	45-0111	EHP 1 <sup>1</sup> / <sub>2</sub> -1SC-D1.0 (.75 kW)	45-0611	EHK 1 <sup>1</sup> / <sub>2</sub> -1SC-D1.0 (.75 kW)	45-0711
2	EH 1 <sup>1</sup> / <sub>2</sub> -2SC-D1.5 (1.1 kW)	45-0122	EHP 1 <sup>1</sup> / <sub>2</sub> -2SC-D1.5 (1.1 kW)	45-0622	EHK 1 <sup>1</sup> / <sub>2</sub> -2SC-D1.5 (1.1 kW)	45-0722
3	EH 1 <sup>1</sup> / <sub>2</sub> -3SC-D2.0 (1.5 kW)	45-0133	EHP 1 <sup>1</sup> / <sub>2</sub> -3SC-D2.0 (1.5 kW)	45-0633	EHK 1 <sup>1</sup> / <sub>2</sub> -3SC-D2.0 (1.5 kW)	45-0733
4	EH 1 <sup>1</sup> / <sub>2</sub> -4SC-D3.0 (2.2 kW)	45-0144	EHP 1 <sup>1</sup> / <sub>2</sub> -4SC-D3.0 (2.2 kW)	45-0644	EHK 1 <sup>1</sup> / <sub>2</sub> -4SC-D3.0 (2.2 kW)	45-0744
5	EH 1 <sup>1</sup> / <sub>2</sub> -5SC-H1.5 (1.1 kW)	45-0159	EHP 1 <sup>1</sup> / <sub>2</sub> -5SC-H1.5 (1.1 kW)	45-0659	EHK 1 <sup>1</sup> / <sub>2</sub> -5SC-H1.5 (1.1 kW)	45-0759
6	EH 1 <sup>1</sup> / <sub>2</sub> -5SC-D5.0 (3.7 kW)	45-0155	EHP 1 <sup>1</sup> / <sub>2</sub> -5SC-D5.0 (3.7 kW)	45-0655	EHP 1 <sup>1</sup> / <sub>2</sub> -5SC-D5.0 (3.7 kW)	45-0755

**See TABLE II for additional specifications.**

**TABLE II**

To determine pump model for a specified GPM, TDH, material 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.

PUMP		
MATERIAL	MODEL	PRICE CODE NO.
CPVC	EH 1 1/2	45-01
CPVC-18"	EHLX 1 1/2	45-09
POLYPROPYLENE*	EHP 1 1/2	45-06
POLYPRO-18"	EHPLX 1 1/2	45-13
PVDF	EHK 1 1/2	45-07
PVDF-18"	EHKLX 1 1/2	45-14

IMPELLER		
FLOW CURVE NO.	ADD TO...	
	MODEL	PRICE CODE NO.
1	-1 SC	1
2	-2 SC	2
3	-3 SC	3
4	-4 SC	4
5	-5 SC	5
6	-5 SC	5

VOLTAGE	STD. HP (kW)	MOTOR (NEMA) <sup>1</sup>		DIMENSIONS <sup>2</sup>			
		ADD TO...		A		B	
		MODEL NO.	PRICE CODE NO. <sup>1</sup>	Inches	mm	Inches	mm
208-230/460/3/60, 3450 RPM or 190/380-415/3/50, 2850 RPM	1.0 (.75)	-D 1.0	1	7-1/4	184	12-1/2	317
	1.5 (1.1)	-D 1.5	2	7-1/4	184	12-1/2	317
	2.0 (1.5)	-D 2.0	3	7-1/4	184	12-3/16	310
	3.0 (2.2)	-D 3.0	4	9-9/16	243	14-7/8	378
	5.0 (3.7)	-D 5.0	5	9-9/16	243	14-7/8	378
	7.5 (5.5)	-D 7.5	6	9-9/16	243	14-7/8	378
115/208-230/1/60, 3450 RPM or 190-230/1/50, 2850 RPM	1.5 (1.1)	-C 1.5	7	7-1/4	184	13-1/2	343
115/208-230/1/60, 1725 RPM or 190-230/1/50, 1450 RPM	1.5 (1.1)	-G 1.5	8	7-1/4	184	11-1/2	292
208-230/460/3/60, 1725 RPM or 190/380-415/3/50, 1450 RPM	1.5 (1.1)	-H 1.5	9	7-1/4	184	12-3/16	310

PUMP + MOTOR SHIPPING WEIGHTS	
Lbs.	kg.
66	30
70	32
75	34
95	43
97	44
105	48
73	33
73	33
73	33

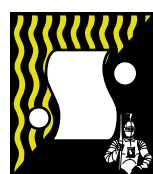
<sup>1</sup> To order pump without motor, use 0 for motor Price Code No.

\* Polypropylene is glass filled

<sup>2</sup> Motor dimensions for reference only.

OPTIONAL	ADD SUFFIX TO MODEL	ADD TO PRICE CODE NO.
Viton "O"-ring installed in CPVC pumps	V	V
EPDM "O"-rings in PP or PVDF pumps	L	L
PVDF impeller & shaft sleeve for CPVC pump (installed). For continuous operation above 180°F	K	K
Titanium option - shaft and fasteners	T	T
Through hole in standard mounting plate 2" diameter	MPH	H

OPTIONAL	ADD SUFFIX TO MODEL	ADD TO PRICE CODE NO.
Discharge pipe assembly, 1 1/2" NPT, for 12" or 18" pump - CPVC - PVDF - Polypropylene For 18" Discharge pipe assembly - add X to PCN.	DPA DPAK DPAP	45-0161 45-0161 K 45-0161 P
Suction strainer w/close nipple, 2" NPT - Polyethylene / CPVC - Polyethylene / PP - Halar / PVDF	ST	45-0162 45-0162 PP 45-0162 HK
Suction extension, 24" x 2" NPT - CPVC - PVDF - Polypropylene	SX S XK S XP	45-0163 45-0163 K 45-0163 P



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