



SERIES 'EH' VERTICAL PUMPS

HIGH EFFICIENCY AND LOW ENERGY USAGE FOR:

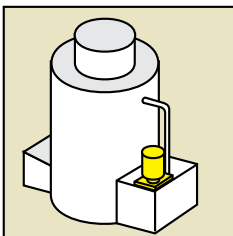


PLATING / WET PROCESSING / ACIDS CHEMICALS / FUME SCRUBBERS and CLEANING SOLUTIONS

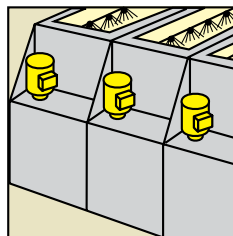
- Flows to 185 U.S. GPM or 145 FT.TDISH @ 60 Hz (580 LPM or 31m @ 50 Hz)
- **Non-metallic solution contact**
- PPP high temperature polypropylene construction, CPVC, PVDF or ECTFE-T
(Refer to a chemical resistance chart)
- **Shaft vapor seal protects motor bearing and atmosphere**
- **Runs dry — no bearings**
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

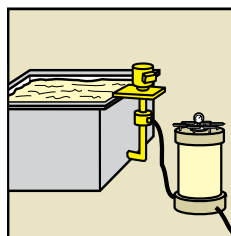
Series 'EH' pumps is their ability to lift solution with an optional suction extension pipe installed. With the motor energized, the pump will self-prime when liquid is at impeller level. The solution level will then be pumped down to the end of the suction extension to a maximum depth of 9 ft. (2.7m).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



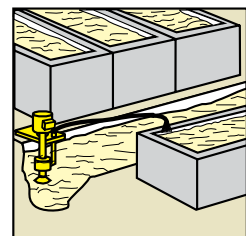
FUME
SCRUBBING



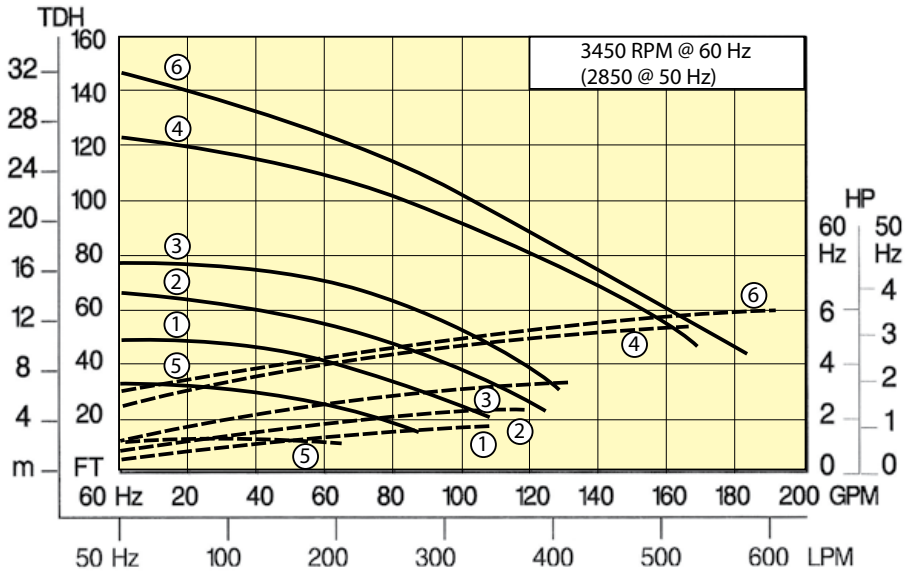
PCB WET
PROCESSING



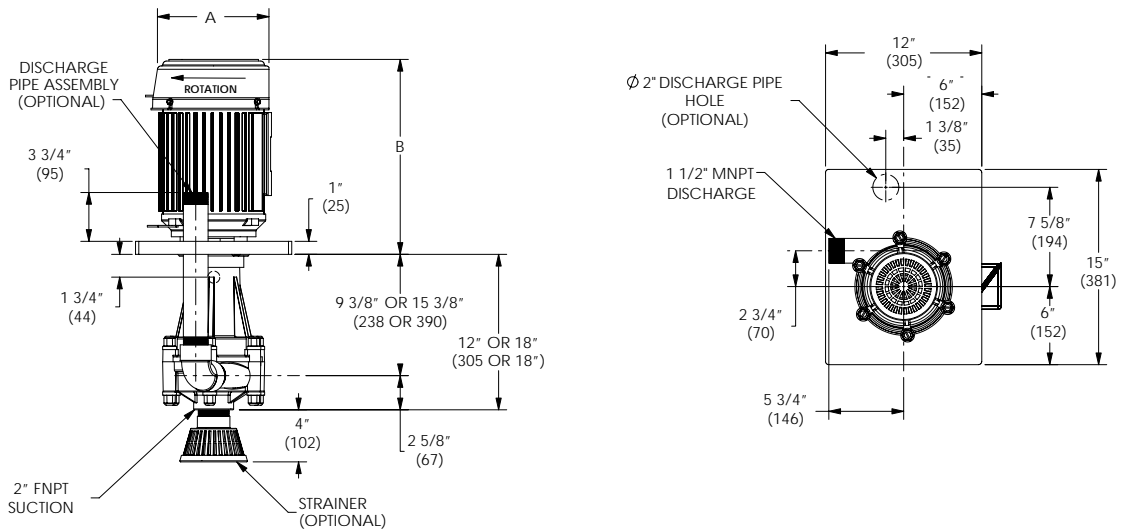
OUT-OF-TANK PUMPING
and FILTRATION



SUMP DRAINING and
WASTE TREATMENT



DIMENSIONS - Inches (mm)



† The standard 12" x 15" (305 x 381 mm) mounting plate for CPVC, polypropylene and ECTFE-T 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



Pump models are constructed of CPVC, PPP polypropylene, PVDF, or ECTFE-T with sleeved stainless steel shaft. Mounting plate is 1" (25mm) thick and includes PTFE vapor seal. Standard "O"-rings are EPDM (ethylenepropylene) on CPVC and Halar® pumps 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, PVDF and Halar® (ECTFE) pump-motor combination, select model from TABLE I. For other pump-motor combinations, select from components in TABLE II.

TABLE 1

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 1-1/2-1SC-D1.5	45-0112	EHP 1-1/2-1SC-D1.5	45-0612	EHK 1-1/2-1SC-D1.5	45-0712
2	EH 1-1/2-2SC-D2.0	45-0123	EHP 1-1/2-2SC-D2.0	45-0623	EHK 1-1/2-2SC-D2.0	45-0723
3	EH 1-1/2-3SC-D3.0	45-0134	EHP 1-1/2-3SC-D3.0	45-0634	EHK 1-1/2-3SC-D3.0	45-0734
4	EH 1-1/2-4SC-D5.0	45-0145	EHP 1-1/2-4SC-D5.0	45-0645	EHK 1-1/2-4SC-D5.0	45-0745
5	EH 1-1/2-5SC-H1.5	45-0159	EHP 1-1/2-5SC-H1.5	45-0659	EHK 1-1/2-5SC-H1.5	45-0759
6	EH 1-1/2-5SC-D7.5	45-0156	EHP 1-1/2-5SC-D7.5	45-0656	EHK 1-1/2-5SC-D7.5	45-0756

60 HZ MODELS			50 HZ MODELS			
FLOW CURVE NO.	MODEL NUMBER	PRICE CODE NO.	MODEL NUMBERS	PRICE CODE NO.	MODEL NUMBER	PRICE CODE NO.
	ECTFE-T		CPVC		POLYPROPYLENE	
1	EHH 1-1/2-1SC-D1.5	45-1912	EH 1-1/2-1SC-D1.0 (.75kW)	45-0111	EHP 1-1/2-1SC-D1.0 (.75 kW)	45-0611
2	EHH 1-1/2-2SC-D2.0	45-1923	EH 1-1/2-2SC-D1.5 (1.1kW)	45-0122	EHP 1-1/2-2SC-D1.5 (1.1 kW)	45-0622
3	EHH 1-1/2-3SC-D3.0	45-1934	EH 1-1/2-3SC-D2.0 (1.5kW)	45-0133	EHP 1-1/2-3SC-D2.0 (1.5 kW)	45-0633
4	EHH 1-1/2-4SC-D5.0	45-1945	EH 1-1/2-4SC-D3.0 (2.2kW)	45-0144	EHP 1-1/2-4SC-D3.0 (2.2 kW)	45-0644
5	EHH 1-1/2-5SC-H1.5	45-1959	EH 1-1/2-5SC-D1.5 (1.1kW)	45-0159	EHP 1-1/2-5SC-H1.5 (1.1 kW)	45-0659
6	EHH 1-1/2-5SC-D7.5	45-1956	EH 1-1/2-5SC-D5.0 (3.7kW)	45-0155	EHP 1-1/2-5SC-D5.0 (3.7 kW)	45-0655

50 HZ MODELS				
FLOW CURVE NO.	MODEL NUMBER	PRICE CODE NO.	MODEL NUMBERS	PRICE CODE NO.
	ECTFE-T		CPVC	
1	EHK 1-1/2-1SC-D1.0 (.75kW)	45-0711	EHH 1-1/2-1SC-D1.0 (.75kW)	45-1911
2	EHK 1-1/2-2SC-D1.5 (1.1kW)	45-0722	EHH 1-1/2-2SC-D1.5 (1.1kW)	45-1922
3	EHK 1-1/2-3SC-D2.0 (1.5kW)	45-0733	EHH 1-1/2-3SC-D2.0 (1.5kW)	45-1933
4	EHK 1-1/2-4SC-D3.0 (2.2kW)	45-0744	EHH 1-1/2-4SC-D3.0 (2.2kW)	45-1944
5	EHK 1-1/2-5SC-H1.5 (1.1kW)	45-0759	EHH 1-1/2-5SC-H1.5 (1.1kW)	45-1959
6	EHK 1-1/2-5SC-D5.0 (3.7kW)	45-0755	EHP 1-1/2-5SC-D5.0 (3.7kW)	45-1955

See TABLE II for additional specifications.



TABLE 2

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 1½	45-01
CPVC-18"	EHLX 1½	45-09
POLYPROPYLENE*	EHP 1½	45-06
POLYPRO-18"	EHLX 1½	45-13
PVDF	EHK 1½	45-07
PVDF-18"	EHLX 1½	45-14
ECTFE-T	EHH 1½	45-19

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

MOTOR (NEMA) ¹							
VOLTAGE	STD. HP (kW)	ADD TO...		DIMENSIONS ²			
		MODEL NO.	PRICE CODE NO.	A		B	
				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 190-230/1/150, 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

¹ To order pump without motor, use 0 for motor Price Code No.

* Polypropylene is glass filled.

² Motor dimensions for references only.

OPTIONAL	ADD SUFFIX TO MODEL	ADD TO PRICE CODE NO.
Viton "O"-ring installed in CPVC, Halar® pumps	V	V
EPDM "O"-rings in PP or PVDF pumps	L	L
PVDF impeller & shaft sleeve for CPVC pump (installed). For continuous operation over 180°F	K	K
Titanium option - shaft and fasteners	T	T
Through hole in standard mounting plate 2" diameter	MPH	H
Discharge pipe assembly, 1-1/2" NPT, for 12" or 18" pump		
- CPVC	DPA	45-0161
- PVDF	DPAK	45-0161 K
- Polypropylene	DPAP	45-0161 P
- SS (For ECTFE-T)	DPAS	45-0161S
For 18" Discharge pipe assembly - add X to PCN		
Suction strainer w/ close nipple, 2" NPT		
- Polyethylene / CPVC	ST	45-0162
- Polyethylene / PP		45-0162 PP
- Halar / PVDF		45-0162 HK
- Halar/SS		45-0162HS
Suction extension, 24" x 2" NPT		
- CPVC	SX	45-0163
- PVDF	SXK	45-0163 K
- Polypropylene	SXP	45-0163 P