



SERIES 'EC' VERTICAL PUMPS

High efficiency and low energy usage for:

**PLATING / PRINTED CIRCUIT BOARDS
ACIDS / WASTES / CHEMICALS
SCRUBBING , RINSE and
CLEANING SOLUTIONS**



- **Non-metallic solution contact**
(See a chemical resistance chart)
 - **CPVC construction - to 200°F (93°C)**
Sleeved shaft & EPDM "O"-ring (Viton® optional)
w/optional PVDF impeller for above 180°F (82°C)
 - **PVDF construction**
with molded PVDF suction casing, sleeved shaft
& EPDM "O"-ring (Viton optional)
- **Centrifugal - quiet, vibration-free**
in-tank or out-of-tank
- **To 80 U.S. GPM or 47 FT. TDH @ 60 Hz**
(250 LPM or 10m @ 50 Hz)
- **Dry operation will not damage pump**
- **Seal-less, no bearings, cantilever shaft,
compound impeller**
- **Shaft vapor seal protects motor bearings
and atmosphere**
- **Chemical duty motor**
Sealed oversized bearings, liquid/vapor seal and
slinger, cast iron end bells, corrosion resistant two-
part epoxy enamel finish, stainless steel nameplate,
1.15 service factor at 50 Hz and 60 Hz.
- **Will replace comparable OEM pump**

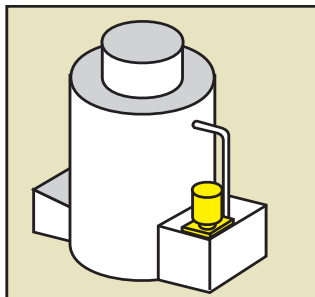
The **Series 'EC' Sump Pump** features a cantilevered sleeved stainless steel shaft which eliminates bearings and seals, resulting in a pump that can run dry without damage. A vapor seal between the rotating shaft and the support column protects the motor. The compound impeller prevents liquid from rising in the column, even at maximum TDH, while the semi-enclosed bottom impeller provides efficient flow performance at low horsepower.

A unique characteristic of all Series 'EC' pumps is their ability to perform on continuous duty as an automatic level

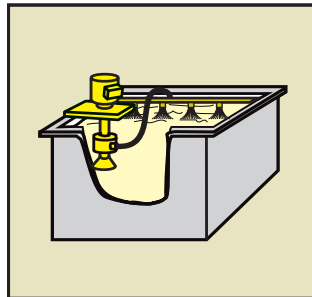
control* when an optional suction extension pipe is installed. With the motor energized, the pump will self-prime when the liquid is at impeller level. The solution level will then be pumped down to the end of the suction extension, the pump will lose prime, then automatically re-prime when liquid again reaches the impeller.

The pump casing can be rotated for choice of discharge direction and flexibility of installation. Discharge pipe assembly, suction extension and suction strainer are available options.

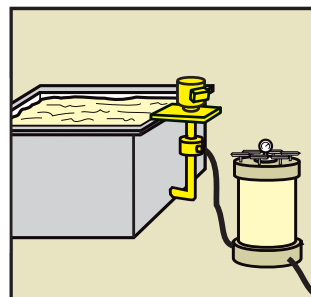
* Read "Tips for the successful operation of sump pumps" (Technical Bulletin TP-113)



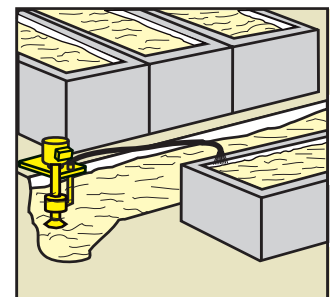
PRESSURE SPRAYING



SPRAY PUMPING



**OUT-OF-TANK
PUMPING & FILTRATION**

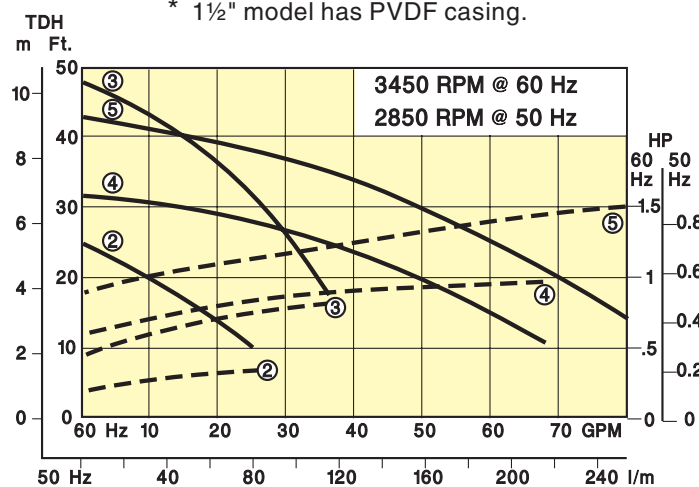


**SUMP DRAINING
& WASTE TREATMENT**

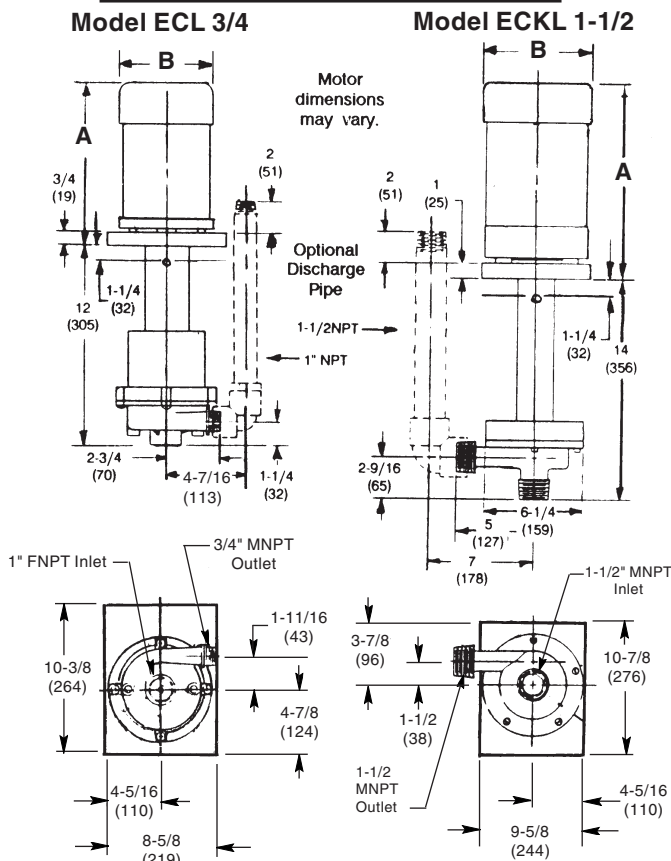
SERIES 'EC' Specifications

Standard CPVC models are constructed of CPVC with CPVC sleeved stainless steel shaft, CPVC casing* and casing bolts, ethylene propylene 'O' ring and PVC mounting plate. Impeller is semi-enclosed for high efficiency and is compound design. The complete assembly offers non-metallic solution contact. The mounting plate has the pump mounted off-center to allow clearance when mounting to the tank flange. The pump casing can be rotated for selection of discharge direction. Chemical duty motors are 1 or 3 phase, 3450 @ 60 Hz, 2850 RPM @ 50 Hz, TEFC, painted with two-part epoxy enamel. 60 Hz single phase motors include 8 foot line cord and 3-prong plug; 50 Hz motors include 2.4m line cord. Can be used with suction extension under certain conditions. (See table below) For Motor Starters and Level Controls, see Bulletins A-103 and A-101 respectively.

* 1 1/2" model has PVDF casing.



DIMENSIONS - Inches (mm)



TO ORDER, use Price Code Number

FLOW CURVE NO.	CPVC & CPVC / PVDF		100% PVDF*		MOTOR, TEFC 60 Hz - 3450 RPM 50 Hz - 2850 RPM	HP 60/50	SHIP. WT.		MOTOR DIMENSIONS			
	MODEL NUMBER	PRICE CODE NO.	MODEL NUMBER	PRICE CODE NO.			Lbs.	kg	A In.	A mm	B In.	B mm
2	ECL ^{3/4} -2SC-C.3	45-0201	EKL ^{3/4} -2SC-C.3	45-0401	Single phase Three phase	1/3	30	13.6	9	228	5 ^{7/8}	149
	ECL ^{3/4} -2SC-D.3	45-0202	EKL ^{3/4} -2SC-D.3	45-0402								
3	ECL ^{3/4} -3SC-C.75	45-0203	EKL ^{3/4} -3SC-C.75	45-0403	Single phase Three phase	3/4	35	15.9	10 ^{3/16}	259	7	178
	ECL ^{3/4} -3SC-D.75	45-0204	EKL ^{3/4} -3SC-D.75	45-0404								
4	ECKL ^{1 1/2} -4SC-C1.0	45-0210	EKL ^{1 1/2} -4SC-C1.0	45-0410	Single phase Three phase	1	35	15.9	11 ^{3/16}	284	7 ^{1/4}	184
	ECKL ^{1 1/2} -4SC-D1.0	45-0211	EKL ^{1 1/2} -4SC-D1.0	45-0411								
5	ECKL ^{1 1/2} -5SC-C1.5	45-0212	EKL ^{1 1/2} -5SC-C1.5	45-0412	Single phase Three phase	1 1/2	40	18.1	10 ^{3/16}	259	7	178
	ECKL ^{1 1/2} -5SC-D1.5	45-0213	EKL ^{1 1/2} -5SC-D1.5	45-0413								
5 @ 50 Hz	ECKL ^{1 1/2} -5SC-C1.0	45-0212L	EKL ^{1 1/2} -5SC-C1.0	45-0412L	Single phase Three phase	1	35	15.9	10 ^{3/16}	259	7	178
	ECKL ^{1 1/2} -5SC-D1.0	45-0213L	EKL ^{1 1/2} -5SC-D1.0	45-0413L								

* Includes PVDF mounting plate:
9-3/8" x 6-5/8" x 3/4" (238 x 168 x 19mm)

OPTIONAL

	ADD SUFFIX TO MODEL NO.	FOR CPVC PUMPS		FOR PVDF PUMPS	
		MATERIAL	USE SEPARATE PRICE CODE NO.	MATERIAL	USE SEPARATE PRICE CODE NO.
Viton "O"-ring	Change L to V in Model No. and add Suffix A to Price Code Number				
Suction strainer assembly 1" NPT 1 1/2" NPT	- ST	Polyethylene	33-6058 45-0214	PVDF & ECTFE	45-0251 99-1029
Discharge pipe assembly 1" NPT 1 1/2" NPT	- DPA	CPVC	45-0209 45-0215	PVDF	45-0220 45-0221
Suction extension 1" NPT x 18" long (457mm) 1 1/2" NPT x 18" long (457mm)	- SX	CPVC	45-0208 45-0216	PVDF	45-0222 45-0223

For PVDF Impeller on 3/4" CPVC model, add K to Price Code No.

MAXIMUM SUCTION EXT. with 1.0 S.G.		
HP	Ft.	m
.3	7	2.1
.75	9	2.7
1.0	11	3.4
1.5		

VOLTAGE (motors are 50/60)	
Single phase - 60 Hz	115-208-230V/1/60
Single phase - 50 Hz	115-220-240V/1/50
Three phase - 60 Hz	208-230-460V/3/60
Three phase - 50 Hz	190-380-415V/3/50