

EBARA

# Model CVSU, CVSHU

Submersible Semi-vortex Sewage Pump



water | wastewater | drainage | effluent | hot water

EBARA

EBARA Fluid Handling

*an EBARA International Corporation company*

# Model CVSU, CVSHU

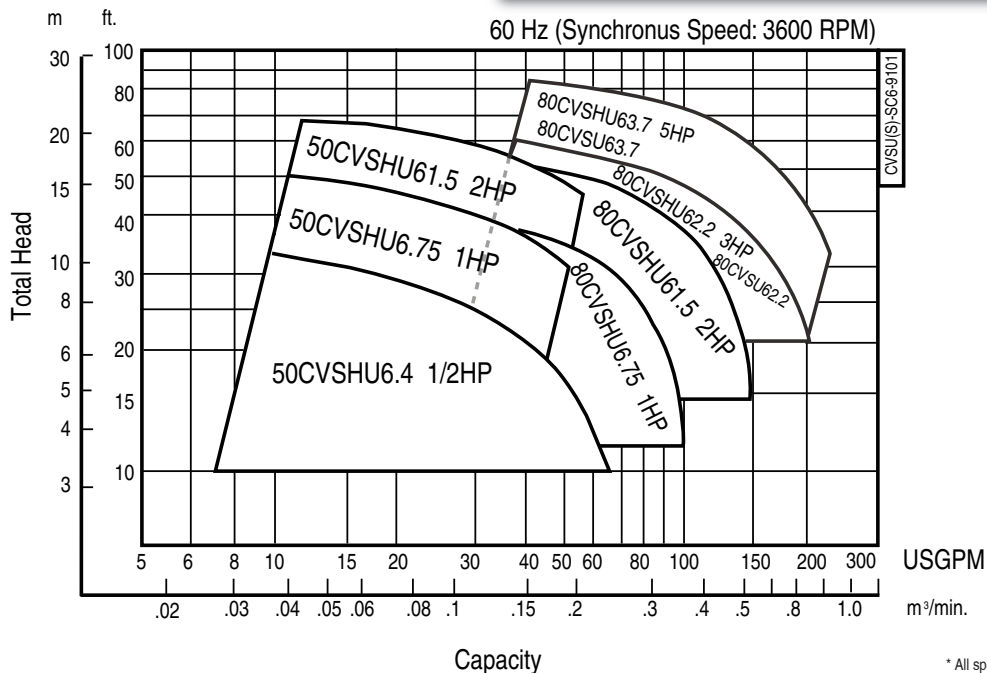
## Features

- **Air filled, heavy duty motor, rated for 20 starts/hour**, dissipates heat easily, operates cooler with higher efficiencies; longer service life with lower operating costs
- **Built in motor protection autocut** protects motor against overheat, out of phase, single phasing, and no load; saves money on costly motor replacement
- **Molded cable prevents capillary action**, reduces maintenance costs by replacing only the cable rather than the motor
- **60,000 hour bearings** ensure long dependable operation; lower maintenance costs
- **Large solids handling capabilities** prevents clogging
- **Semi-open vortex type recessed impeller**; vortex action prevents clogging and handles stringy material better, high reliability, and lowers maintenance costs
- **Double mechanical seals** – silicon carbide lower seals, carbon/ceramic upper - hard faced upper and lower seals operate in an oil bath; providing longer service life and lower maintenance costs
- **High wire to water efficiencies** - reduced power consumption, reduced cost of operation
- **Available for slide rail installations** provides ease of maintenance for small sump type installations

## Standard Specifications

		CVSU	CVSHU (Hot Water pumps)
Design	Discharge	3 inch	2, 3 inch
	Horsepower	3 to 5HP	1/2 to 5HP
	Capacity	29 to 240 GPM	5 to 240 GPM
	Total head	20 to 80 feet	10 to 75 feet
	Max. Liquid temp.	122°F/50°C	158°F/70°C - 1/2, 1 HP 176°F/80°C - 2 to 5HP 200°F/93°C - limited to 10 minutes
Speed	3600 RPM		
Materials	Casing	Cast Iron	
	Impeller	Cast Iron (1/2 to 2HP)	
	Shaft	403 Stainless Steel	
	Motor Frame	Cast Iron	
	Fastener	304 Stainless Steel	
Construction	Mechanical Seal	Double Mechanical Seal	
	Material – Upper	Carbon/Ceramic	Silicon Carbide/Silicon Carbide
	Material – Lower	Silicon Carbide/Silicon Carbide	Silicon Carbide/Silicon Carbide
	Impeller Type	Recessed Semi-open vortex	
	Bearing	Pre-lubricated Ball Bearing	
	Motor	Air-filled, Insulation Insulation Class F	
	Three Phase	208/230V, 460V	Insulation Class H (1/2, 1, 2 HP) Class F (3, 5HP)
	Motor Protection	Built-in Auto Cut - overload out of phase, single phasing protection	Built-in Overload Protection
	Submersible Cable	33 ft. standard cable length, Optional 66 ft.	
	Accessories	Cast Iron discharge elbow (3 to 5HP)	Cast Iron discharge elbow (3" 1 to 5HP) Cast iron companion flange with NPT thread (2", 1/2 to 2HP)
Optional QDC System			

## CVSU, CVSHU selection chart



\* All specifications subject to change without notice.



### EBARA Fluid Handling

1651 Cedar Line Drive • Rock Hill, SC 29730 • t (803) 327 - 5005 • f (803) 327 - 5097

[www.pumpsebara.com](http://www.pumpsebara.com)

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