

# mody

## MHC SERIES - HI CHROME SLURRY SUBMERSIBLE PUMP

### MHC8A SERIES

#### ELECTRIC SUBMERSIBLE SLURRY PUMP - 28% HI-CHROME DESIGNED FOR PORTABLE AND ABRASIVE APPLICATIONS

MODEL	HP	RPM	MAX.AMPS 230v / 460v 60Hz	SOLID HANDLING (in)	WEIGHT (lb)
MHC8/15	15	1800	37.2 / 18.6	2.4	550
MHC8/20	20	1800	48.0 / 24.0	2.4	870
MHC8/30	30	1800	72.0 / 36.0	2.6	910
MHC8/40	40	1800	96.0 / 48.0	1.8	1370
MHC8/50	50	1800	122.0 / 61.0	2.2	1410
MHC8/60	60	1800	146.0 / 73.0	2.2	1480



#### MATERIALS OF CONSTRUCTION AND ENGINEERING DATA

##### PUMP END

pH Range	5 - 12
Impeller Type	Two Vane Semi-Open
Max. Temperature of Pumped Fluid:	104°F/40°C
Max. Starts/Stop Per Hour:	15
Max. Submergence:	65 Feet

##### MOTOR

4-pole induction **continuous rated** motor with squirrel cage rotor. Bi-metallic switches (thermals) embedded in stator winding to protect against overheating. Stator insulation class 'H' (180°C), 1.15 Service Factor.

##### POWER SUPPLY

3 phase, 60 Hz, AC Supply, 208, 230,460,575. Other voltages available upon request.

##### BALL BEARINGS

The rotor shaft is carried on a double row angular contact ball bearing which carries the high thrust and radial loads. The Upper bearing on units up to 40HP is a deep groove ball bearing; on 50HP and above it is fitted with a roller bearing. The bearings are enclosed with high temperature grease containing special Anti-corrosion additive.

##### POWER CABLE

Waterproof/oil proof, rubber-insulated, neoprene-sheathed copper conductor flexible cable, 50ft. (15m) length standard. Type SOOW in North America, EPR in the Middle East and HO7RN in the EU with Trailing cable for thermals and seal probe sensor.

##### SHAFT SEALS

Double Mechanical Seals, outer and inner are Silicon Carbide, both rotating and stationary faces. Equipped with Moisture Sensor to detect progressive seal wear.

##### HYDRAULICS

Two Vane Semi-Open Impellers, Hydrodynamically balanced with improved flow pattern contribute to a virtually clog-free pump.

##### COOLING

Motor casing with large surface area ensure efficient heat dissipation and low temperature rise. Shrink fitted stators and short shaft overhang facilitate cooling.

##### MATERIALS OF CONSTRUCTION

Pump Casing:	28% Hi-Chrome Iron
Impeller:	28% Hi-Chrome Iron
Suction Cover:	28% Hi-Chrome Iron
Agitator (Optional)	28% Hi-Chrome Iron
Shaft:	403 Stainless Steel
Hardware:	304 Stainless Steel
"O" Rings:	Nitrile Rubber (Viton - Optional)
Mech. Seals:	SC/SC (Upper & Lower)

##### SURFACE TREATMENT

Primer with Epoxy paint.



#### Mody Pumps® Inc.

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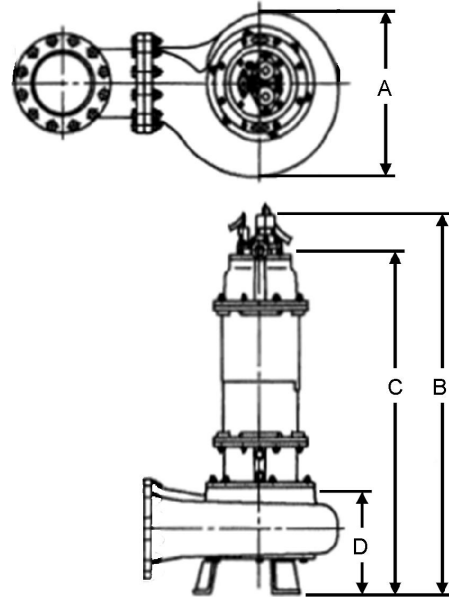
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### MHC8A SERIES

PORTABLE WET PIT  
INSTALLATION

DIMENSIONS CHART (in)				
MODEL	A	B	C **	D *
MHC8/15	18.7	40.2	38.6	13
MHC8/20	21.6	49.5	44.5	13
MHC8/30	21.6	49.5	44.5	13
MHC8/40	27.4	59.3	54.4	15.8
MHC8/50	27.4	59.3	54.4	15.8
MHC8/60	27.6	52.2	54.4	15.8

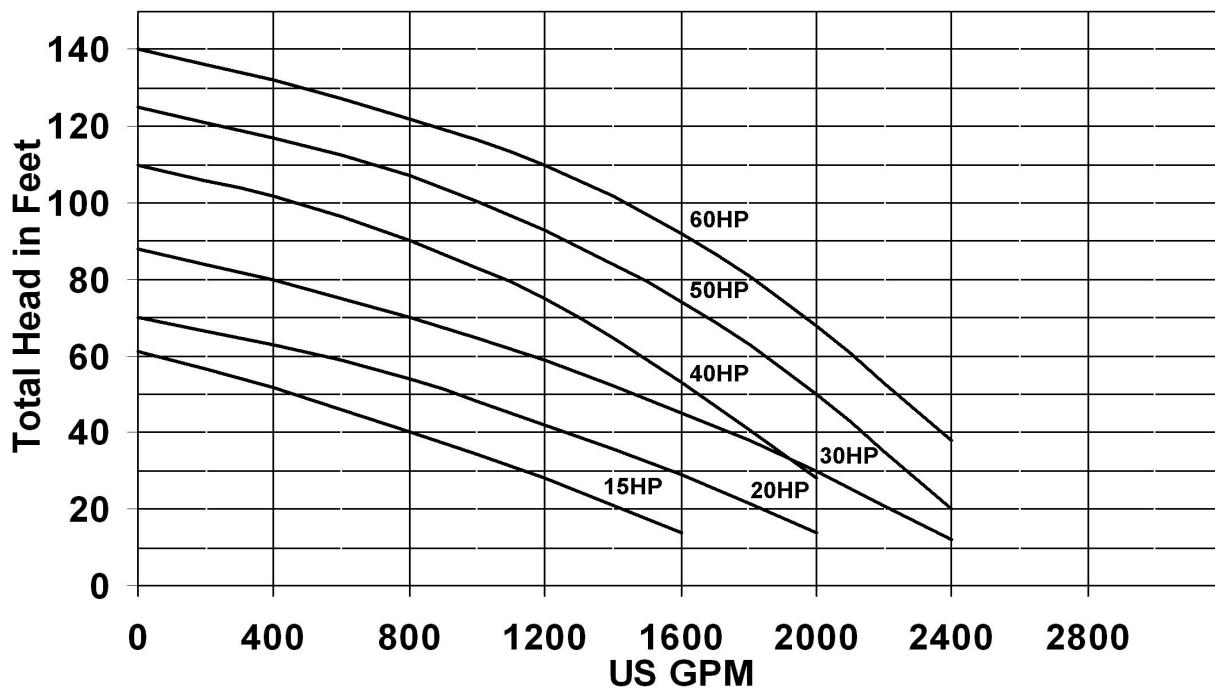
\* Lowest Water Level for effective suction  
\*\* Lowest Water Level for Continuous Operation



### PERFORMANCE CURVES

Performance Curve based  
on Clean Water at 68° F with  
1.0 SG. Please Correct for  
Other Conditions.

### Mody MHC Hi-Chrome 8" 15HP- 60HP



Due to continuous product development, specifications are subject to change without notice. Vol. 1, Rev. 1, Nov. 2009