



PRODUCT DATA SHEET

January, 2001

**MODY ELECTRIC
SUBMERSIBLE PUMP**

GENERAL INFORMATION

The Mody contractor line (M-100, M-204 & M-554) was developed for applications where the overall diameter of the pump is critical. These models have centerline discharge. The Mody industrial pump (M-702) is designed for larger jobs and has side discharge.

PERFORMANCE DATA

➤ Shutoff Head:	- M-100: 54 feet (23 psi) ⁽¹⁾ M-204: 66 feet (29 psi) ⁽¹⁾ M-554: 97 feet (42 psi) ⁽¹⁾ M-702: 107 feet (46 psi) ⁽¹⁾
➤ Maximum BHP:	- M-100: 1.0 ⁽¹⁾ M-204: 2.7 ⁽¹⁾ M-554: 10 ⁽¹⁾ M-702: 13 ⁽¹⁾
➤ Maximum Flow:	- M-100: 105 GPM ⁽²⁾ M-204: 275 GPM ⁽²⁾ M-554: 830 GPM ⁽²⁾ M-702: 1200 GPM ⁽²⁾
➤ Maximum Temperature:	- 104°F (all models)
➤ Maximum Solids Size: (hole size in strainer)	- M-100: ¼" diameter M-204: ¼" diameter M-554: 1-3/16" x 3/8" (rectangle) M-702: 1-3/16" x 3/8" (rectangle)
➤ Max. Submergence:	- 50 feet below liquid surface

PUMP SPECIFICATIONS

➤ Motor:	- 2-pole induction continuous rated with squirrel cage rotor. Stator insulation class "F" (155°C). (All models)
➤ Speed:	- 3450 RPM (All models)
➤ Motor Power Rating:	- M-100: 1.3 HP M-204: 3.0 HP M-554: 10 HP M-702: 16 HP
➤ Current Draw:	- M-100: 2 amps M-204: 4.9 amps M-554: 14 amps M-702: 22 amps
➤ Max. Starts/Stops:	- 15 per hour (All models)
➤ Power Supply:	- <u>M-100, M-204 & M-554:</u> 460V/230V, 3-phase, 60 HZ <u>M-702:</u> 460V, 3-phase, 60 HZ
➤ Bearings:	- The rotor shaft is carried in two single-row, deep groove ball bearings (M702 double angular contact on bottom brg). The bearings are enclosed with high temperature grease.

PUMP SPECIFICATIONS – con't

➤ Outlet Size:	- M-100: 2" male NPT M-204: 3" male NPT M-554: 4" male NPT M-702: 6" flange
➤ Power Cable:	- Waterproof/oil-proof, rubber insulated, neoprene-sheathed copper conductor flexible cable
➤ Shaft Seal:	- <u>M-100:</u> Tungsten Carbide (TC) / ceramic mechanical outer seal with secondary inner lip seal, <u>M-204 & M-554:</u> Tandem Tungsten Carbide / Silicon Carbide (SC) <u>M-702:</u> Tandem TC/SC & TC/TC All seals wholly enclosed in a pressure compensated oil chamber
➤ Weight: (without cable)	- M-100: 30 lbs. M-204: 66 lbs. M-554: 165 lbs. M-702: 242 lbs.
➤ Pump Diameter:	- M-100: 6¼" M-204: 7½" M-554: 10¾" M-702: 15¾" / 18"(incl. disch. elbow)
➤ Pump Length:	- M-100: 15" (to top of outlet pipe) M-204: 26¼" (to top of outlet pipe) M-554: 29½" (to top of outlet pipe) M-702: 36" (to top of bail)

MATERIAL SPECIFICATIONS

➤ Outer Casing:	- <u>M-100, M-204 & M-554:</u> Extruded Epoxy coated Aluminum Alloy <u>M-702:</u> Epoxy coated steel
➤ Inner Casing:	- Epoxy coated extruded aluminum
➤ Rotating Elements:	- <u>Shaft:</u> 431 stainless steel <u>Impeller:</u> 410 stainless steel
➤ Oil Bag:	- Nitrile (Buna-N)
➤ Hardware/Outlet:	- 304 Stainless steel
➤ Diffuser/Wearplate:	- Nitrile coated carbon steel
➤ Strainer:	- 304 Stainless steel

Notes:

- ⁽¹⁾ Based on 1.0 specific gravity
- ⁽²⁾ At **zero** head