



HYDROMATIC® **MODEL HBMX200**

Used in Hazardous Locations Class I, Division 1, Groups C & D

SUBMERSIBLE BASIN MIXER

HYDROMATIC®

MODEL HBMX200

Submersible Basin Mixer

Mix, Break-Up, Prevent

Break up solids that commonly float at the top of the basin

These solids build up and can interfere with the proper operation of equipment such as float controls, liftouts, etc.

Helps prevent grease buildup in the lift station

Apartment complexes, laundromats and prisons.

Helps prevent the lift station from going septic during periods of low activity

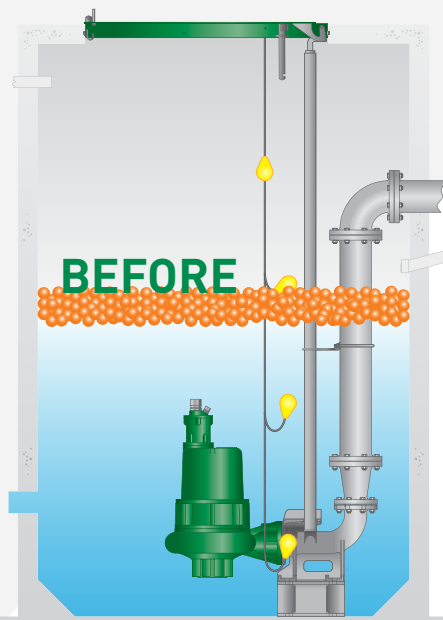
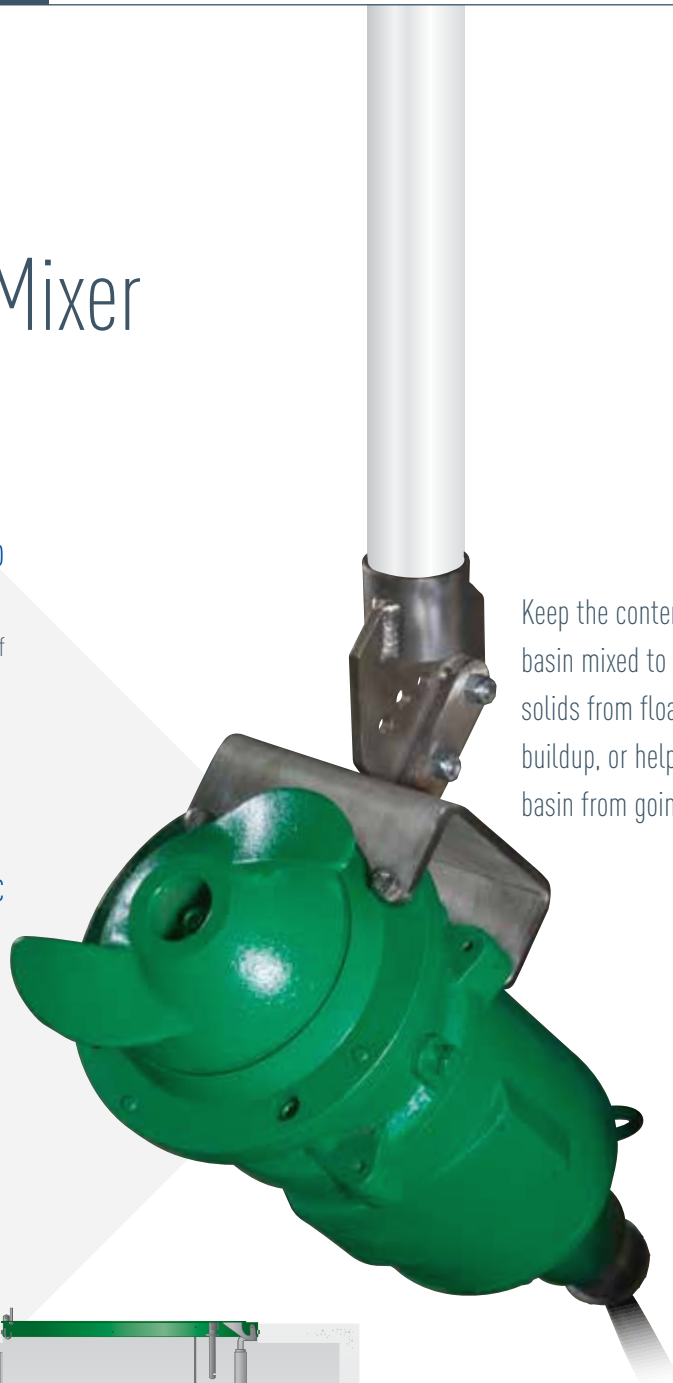
Schools and summer vacation communities.

Use for various mixing and stirring applications

Industrial areas and wastewater treatment facilities.

Built for hazardous locations – CSA certified

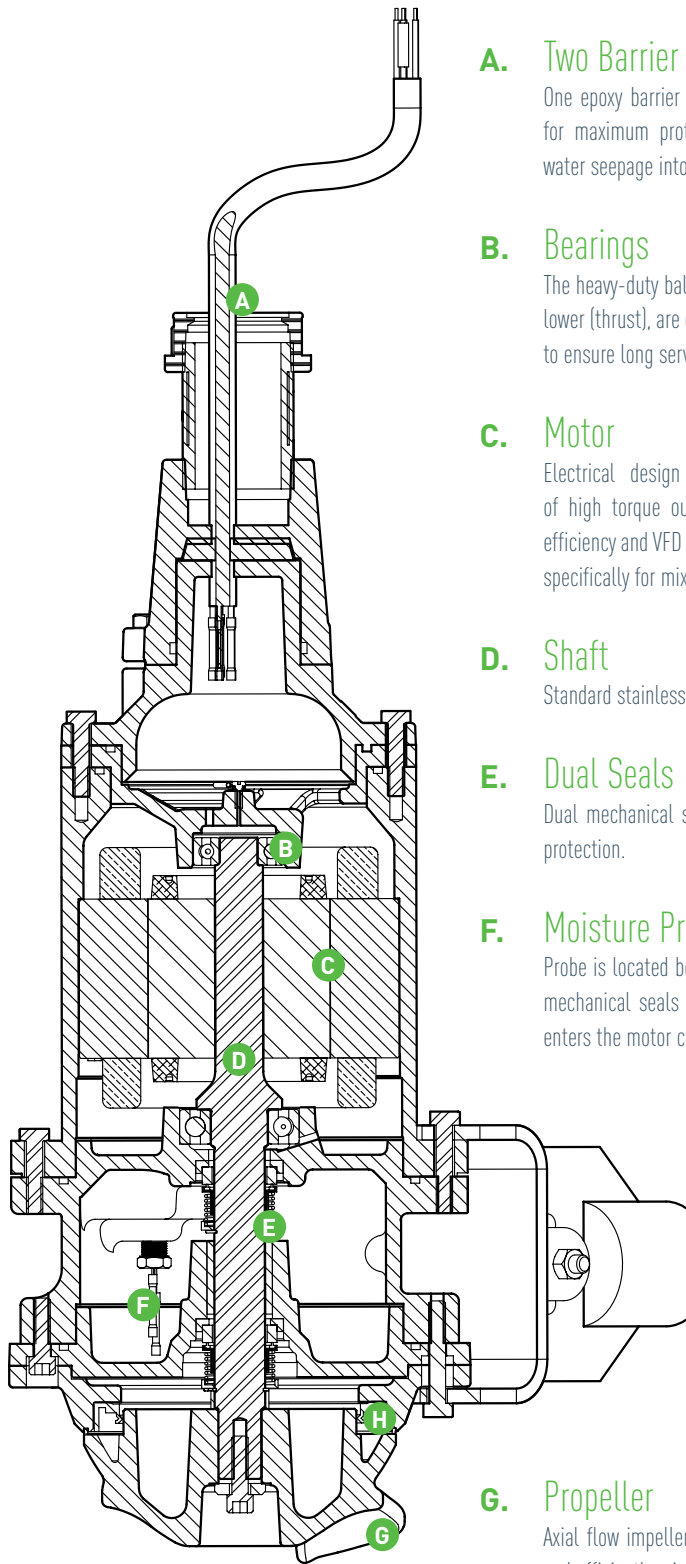
Keep the contents of your basin mixed to help prevent solids from floating, grease buildup, or help keep your basin from going septic.



Easy To Install

- Add to your current system.
- Add to your new system.
- Install at any elevation or angle to target trouble spots.
- Various permanent and rail system mounting options available.

Basin Mixer Features



A. Two Barrier Seal

One epoxy barrier and one compression fitting for maximum protection against wicking and water seepage into the motor housing.

B. Bearings

The heavy-duty ball bearings, upper (radial) and lower (thrust), are continuously lubricated by oil to ensure long service life.

C. Motor

Electrical design combines the advantages of high torque output with optimum running efficiency and VFD duty rating, and is engineered specifically for mixer operation.

D. Shaft

Standard stainless steel shaft.

E. Dual Seals

Dual mechanical seals for maximum moisture protection.

F. Moisture Probe

Probe is located between inboard and outboard mechanical seals to detect moisture before it enters the motor chamber.

G. Propeller

Axial flow impeller is engineered to effectively and efficiently mix basin contents.

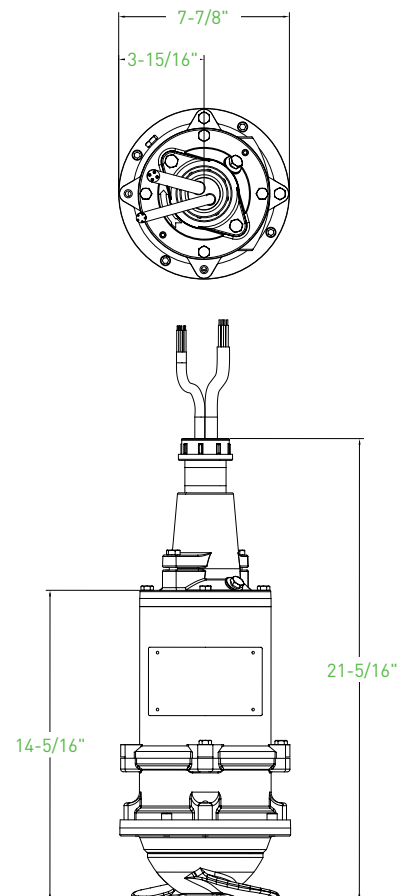
H. Lip Seal

Lip seal keeps unwanted debris from collecting behind the propeller.

Materials of Construction

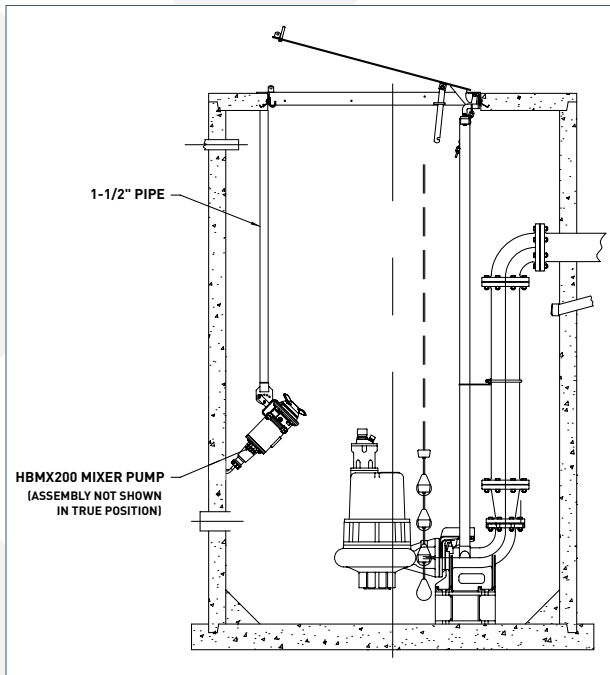
Description	Material of Construction
Motor Housing	Cast Iron ASTM-48
Propeller	Cast Iron ASTM-48
Coolant / Lubricant	Dielectric Oil
Shaft	Stainless Steel
Dual Mechanical Shaft Seals	Seal Faces: Carbon / Ceramic Seal Body: Stainless Steel Spring: Stainless Steel Bellows: Buna-N
Lip Seal	Nitrile, Type SB2 / B1
Upper Bearing	(Radial) Single Row – Ball
Lower Bearing	(Thrust) Single Row – Ball
Fasteners	Stainless Steel

Dimensional Data

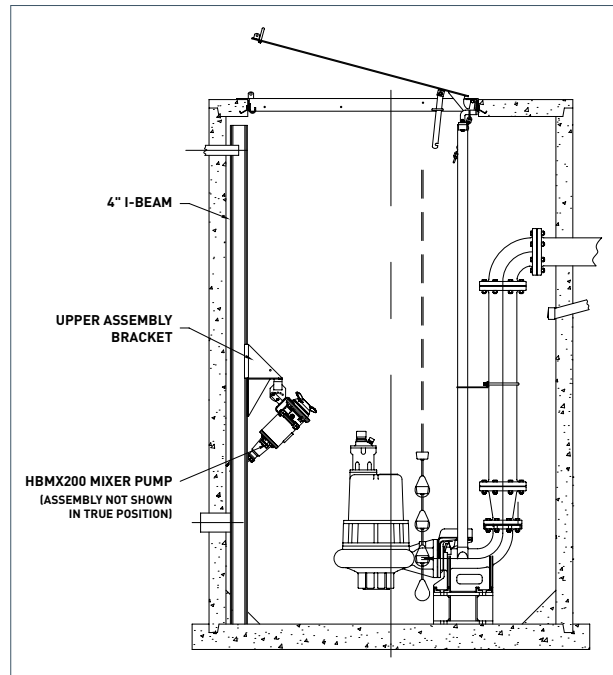


Typical Installation

Mounted Using 1-1/2" Pipe



Mounted Using 4" I-Beam



Variable Speed Motor Control Panel For Operation Of HBMX200 Submersible Basin Mixer



- Integrated Variable Frequency Drive and programmable timer for mixer cycle control.
- 230 or 460 volt, 3 phase, 60 Hz, 3 wire incoming service, with power transformer, primary and secondary fusing.
- Hand / Off / selector switch.
- Drive run and seal fail indicator lights.
- UL508A Listed Industrial Control Panel.
- Nema 3R enclosure with hinged front access door and inner panel, suitable for wall mounting with through the door rotary operator and padlockable, 20" High, 19" Wide, 10" Deep.
- Thermostatically controlled forced air ventilation fan with intake and exhaust filters and rain shields and thermostatically controlled anti-condensation heater.



740 EAST 9TH STREET,
ASHLAND, OHIO 44805
WWW.HYDROMATIC.COM

269 TRILLIUM DRIVE, KITCHENER,
ONTARIO, CANADA N2G 4W5
WWW.HYDROMATIC.COM

Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.
E-02-7950 1/16/13 © 2013 Pentair Ltd. All Rights Reserved.