

# Dedicated Sampling Systems

## Geotech Redi-Flo2/MP1 Dedicator® Groundwater Sampling Systems

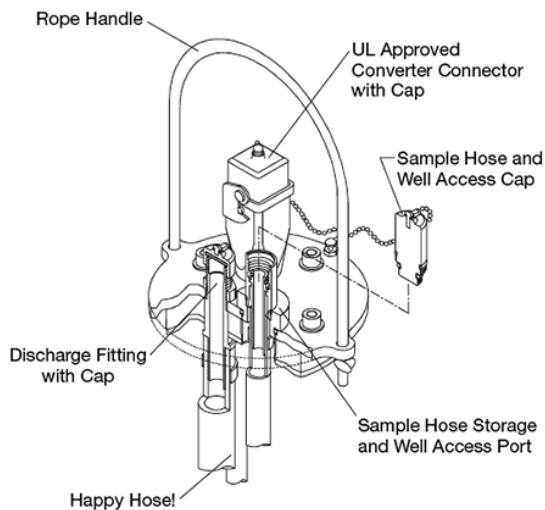
The Geotech Dedicator® is a turnkey, dedicated sampling system designed for easy installation and operation. Each system is custom-built to well specifications, completely assembled, and tested prior to shipment. Dedicator® Systems include a low profile well seal, Happy Hose!® (integrated motor lead, safety cable and discharge tubing), a Grundfos® Redi-Flo2 MP1 electric submersible pump and all clamps and fittings. The well seal incorporates an access port for water level indicators when the sample tube is removed; low-clearance adapters are available to fit our standard 2" and 4" (5.08 and 10.2 cm) well seals in virtually any well pipe size.

### FEATURES

- Grundfos® Redi-Flo2 MP1 2" electric submersible pump
- Happy Hose!® integrated motor lead, safety cable and discharge tubing
- Custom-built for each well and factory tested
- Well identification tag
- In-the-well sample tube storage
- Fits 2" (5.08 cm) or larger wells
- UL rated weather-resistant electrical connection with cap
- Water level access port
- Well seal provides a liquid tight barrier
- Ideal for traditional or low-flow sampling techniques

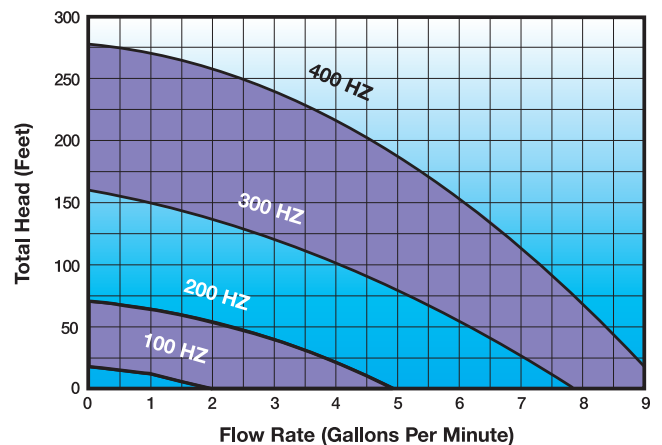
### INSTALLATION & OPERATION

Installation is as simple as lowering the pre-assembled Geotech Dedicator® System into the well and tightening the compression bolts with the allen wrench provided. To operate the pump, connect the electrical port on the well seal to a Geotech VFD with an extension cable. Power up the Geotech VFD and you are ready to pump.



### PERFORMANCE

Geotech Dedicator® system flow rates have been modeled by the engineering staff. The performance curve shown below can be used to estimate maximum flow rates achievable under normal field conditions, taking into account installation depth and friction loss from tubing and other system components. For more information, please call **1-800-833-7958**.



**CALL GEOTECH TODAY (800) 833-7958**

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### SPECIFICATIONS

#### Electric

Full Load Rating	.5 HP/220V/3PH/400 Hz/5.5A
Maximum Current	5.5 amps
Motor Protection	Thermal Overload Thermik Geratebau, Series Sy6 (176°F/80°C)
Current Overload	Incorporated into Redi-Flo VFD (9.0A for 10 seconds)

#### Check Valve

Wetted Materials	316 stainless steel/PTFE
Minimum Cv Rating	1.7
Working Pressure	108 psi (7.45 bar)
Maximum Supported Load	160 lbs. (72.57 kg)

#### Piping Connection

Discharge Port	1/2" Female NPT
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#### Operating Conditions

Minimum Ambient Fluid Temp.	34°F (1°C)
Maximum Ambient Fluid Temp.	80°F (28°C)

#### Motor Fluid

Motor Lubricating Fluid	Deionized (DI) Water
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#### Dimensions & Weight (Pump & Motor)

Dimensions	11.3" L x 1.81" D (28.7cm L x 4.6cm D)
Weight	5.5 lbs. (2.5 kg), excluding motor lead

#### 2" and 4" Dedicator® Well Seal Specifications

	Inside Diameter	Outside Diameter
2" OD Dedicator®	2.38" (6cm)	3.90" (9.9cm)
4" OD Dedicator®	4.50" (11.4cm)	5.96" (15.1cm)
Minimum Height Clearance Required	3.41" (8.7cm)	

#### Happy Hose!® Cable Specifications

<b>PVC Happy Hose!®</b>	
Happy Hose!®:	1/2" (1.3cm) I.D. x 3/4" (1.9cm) O.D.
Hose Materials:	PVC clear, nylon reinforced
Cable Materials:	Yellow, PVC jacketed
Cable O.D.:	0.46" (1.16cm)

#### PTFE-lined Polyethylene Happy Hose!®

Happy Hose!®:	1/2" (1.3cm) I.D. x 5/8" (1.6cm) O.D.
Hose Materials:	Polyethylene, PTFE-lined
Cable Materials:	Yellow, Polyethylene jacketed
Cable O.D.:	0.46" (1.16cm)

#### All Happy Hose!® Cable Specifications

<b>Cable Construction</b>	<ul style="list-style-type: none"> <li>Conductors: 16 AWG</li> <li>Installation: PVC or PE .094 Wall Nominal</li> <li>Jacket: 0.125" Wall Nominal</li> </ul>
<b>Breaking Strength</b>	480 lbs. (218kg)
<b>Weight</b>	0.22 lbs. per foot (0.33 kg per meter)

### CHECK VALVE OPTION

The check valve is a simple-to-use, easy-to-clean fitting designed for use with the Grundfos® MP1 2" pump.

The valve is constructed of 316 stainless steel and PTFE and is operated by pressure generated during the use of the MP1 2" pump. As the ball lifts, water is allowed to flow through the valve to reach the surface; the ball will seat itself once the pump stops.



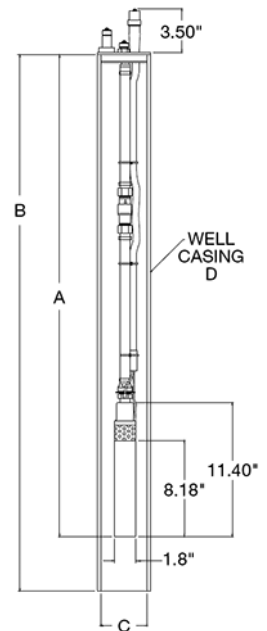
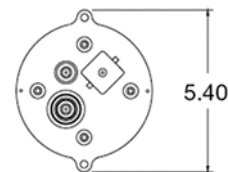
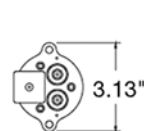
### OTHER EQUIPMENT

- Geotech VFD
- Extension Cable
- Cooling Shroud (4" or larger wells)

### DIMENSIONS

Use the diagram to determine dimensions (A, B, C, and D) for each well.

<b>A</b> Length from the top of casing to the bottom of the pump	<b>B</b> Total depth of the well, measured from the top of casing
<b>C</b> Well diameter	<b>D</b> Well material and pip size schedule



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