

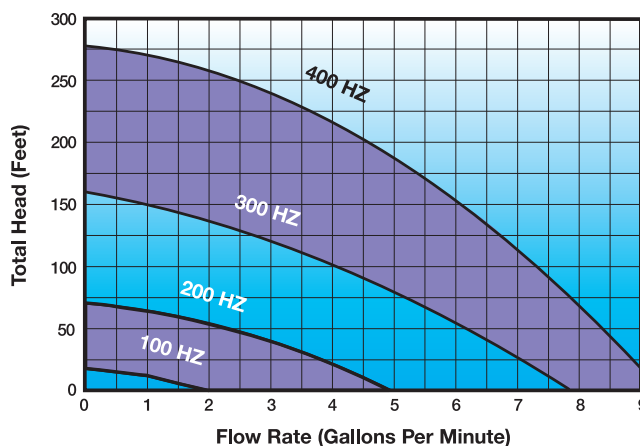
The Geotech Variable Frequency Drive (VFD) is designed to operate and protect the Redi-Flo2® pump. With the turn of a knob, an operator can precisely control the discharge flow rate from the pump from 8 GPM (30 LPM) to 100 milliliters per minute, to depths down to 280 feet (85m).

FEATURES

- Precise Flow Control**
Turn the knob or use the push button control for greater control over the discharge flow rate for better accuracy and precision during sampling.
- Wide Performance Range**
Not just one performance curve, the Geotech VFD covers a range of performances and can function at any point of operation within that range.
- Choose Input Power**
Either 120V or 230V, single-phase AC input power is available.
- IP66/NEMA 4x Enclosure**
The NEMA 4x enclosure is designed for outdoor duty and is resistant to damage as a result of incidental exposure to rain. Designed for wash down applications.
- Optimized Volts /Frequency Pattern**
The Geotech VFD V/Hz pattern is specially optimized to allow the most efficient operation of the Redi-Flo2® Variable Performance Pump.
- Motor Protection**
The Geotech VFD will protect the Redi-Flo2® Variable Performance Pump from adverse motor conditions such as, over- and under-voltage, over-current, and groundfault.



PERFORMANCE



Performance Curve for the Redi-Flo2®



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Electrical Submersible Pump Controller

Geotech Variable Frequency Drive

SPECIFICATIONS

Electrical

Input (115V model)	115V(±10%)/1PH/48-62Hz/23A
Input (230V model)	230V(±10%)/1PH/48-62Hz/23A
Output	1.1kW/400Hz/220V/3PH/5.5A
Acceleration Time (preset)	0 to 400Hz, 5 seconds
Deceleration Time (preset)	0 to 400Hz, 5 seconds
Recommended Input Protection (115V)	Fuse, 600V, 30A, Fast Acting, UL Class CC or J
Recommended Input Protection (230V)	Fuse, 600V, 25A, Fast Acting, UL Class CC or J
Power Cord	18AWG, 300V, 6 ft.
Minimum/Maximum Frequency	1Hz/400Hz

Dimensions and Weight

Dimensions (L x W x D):		
	Protective Case	19.2" x 15.2" x 9.0" (49 x 39 x 23cm)
	VFD Only	10.12" x 7.40" x 7.16" (26 x 19 x 18.2cm)
Weight:		
	VFD, Cords and Case	18 lbs. (8.2 kg)
	VFD Only	8 lbs. (3.6 kg)

Operations Conditions

Ambient Temperature	-20 – 50°C (-4 – 122°F)
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Storage Conditions

Ambient Temperature	-40 – 60°C (-40 – 140°F)
Maximum Humidity	95%, non-condensing

Protective Case Construction

Case	Lightweight, Strong HPX® Resin, IP66/NEMA 4
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Options

Models:	115V Input 230V Input
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Minimum Generator Size (Redi-Flo2®)

For Generators With Voltage Regulation	(2000) Watts at 115/230 VAC, single phase
For Generators Without Voltage Regulation	(5000) Watts at 115/230 VAC, single phase
Recommended For Optimal Performance	(3000) Watts at 115/230 VAC, single phase w/voltage regulation

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