

Redi-Flo Variable Frequency Drive

Electrical Submersible Pump Controller

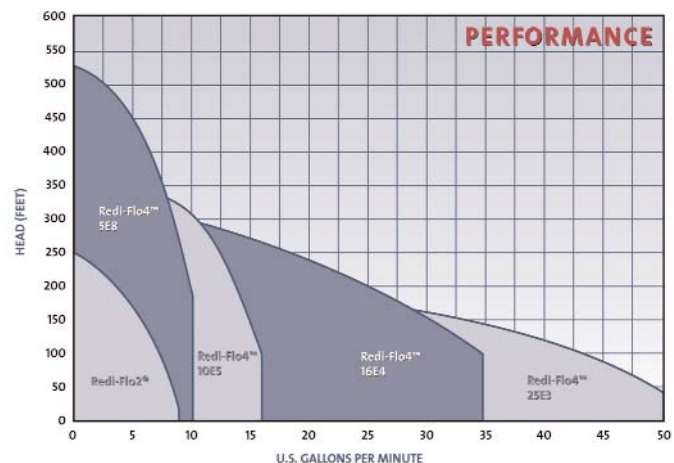
The Redi-Flo Variable Frequency Drive (VFD) is designed to operate and protect the Redi-Flo2® and the Redi-Flo4™ Variable Performance Pumps. With the push of a button, an operator can precisely control the discharge flow rate from the pump from 50 gallons per minute to 100 milliliters per minute, to depths down to 524 feet.

FEATURES

- Precise Flow Control**
 The push button control pad provides greater control over the discharge flow rate for better accuracy and precision during sampling.
- Wide Performance Range**
 Not just one performance curve: the Redi-Flo VFD covers a range of performances and can function at any point of operation within that range.
- Dual Input Power Capability**
 Either 120V or 230V, single-phase AC input power is accommodated simply by changing the power cord terminations.
- Dual Functionality**
 Easily switched to operate either the Redi-Flo2® or the Redi Flo4® Variable Performance Pumps.
- NEMA 4R Enclosure**
 The NEMA 4 enclosure is designed for outdoor and duty and is resistant to damage as a result of incidental exposure to rain.
- Optimized Volts / Frequency Pattern**
 The Redi-Flo VFD V/Hz pattern is specially optimized to allow the most efficient operation of Redi-Flo2® and Redi-Flo4® variable performance pumps.
- Motor Protection**
 The Redi-Flo VFD will protect the Redi-Flo Variable Performance Pumps from adverse motor conditions such as, over- and under-voltage, over-current, and groundfault.



VFD shown with the Redi-Flo2® and Redi-Flo4®



Performance Curve for the Redi-Flo2® and Redi-Flo4®

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Redi-Flo Variable Frequency Drive

Electrical Submersible Pump Controller Specifications

Redi-Flo Variable Frequency Drive (VFD)

Electric

Input	115V± 10% / 1 PH / 48-62 Hz / 23A 230V± 10% / 1PH / 48-62 Hz / 23A
Output with 115V Input	1.5 kw / 400 Hz / 220V / 3 PH / 6.0A (RF2) 1.5 kw / 80 Hz / 230V / 3 PH / 6.5A (RF4)
Output with 230V Input	1.5 kw / 400 Hz / 220V / 3 PH / 6.0A (RF2) 1.5 kw / 100 Hz / 230V / 3 PH / 8.2A (RF4)
Acceleration Time (factory preset)	0 to 400 Hz: 3 seconds (RF2) 0 to 100 Hz: 3 seconds (RF4)
Deceleration Time (factory preset)	400 to 0 Hz: 0 seconds (RF2) 100 to 0 Hz: 0 seconds (RF4)
Recommended Input Protection (115V)	Fuse, 1 each, 250V, 25A, UL Class RK1 or circuit breaker, 25A/300V/1P
Recommended Input Protection (230V)	Fuse, 2 each, 250V, 25A, UL Class RK1 or circuit breaker, 25A/300V/2P
Power Cord	SJOW, 14 AWG, 10' long
Minimum Frequency (factory preset)	115 or 230V 25 Hz
Maximum Frequency (factory preset)	115 or 230V 400 Hz (RF2) 115V 80Hz* (RF4) 230V 100 Hz (RF4)

*Auto Frequency Limiting

Dimensions & Weight

Dimensions	Protective case 17 ¾" L x 12 ½" W x 8" H VFD only - 13" L x 7 ¾" W x 7" H
Net Shipping Weight (VFD, Cord & Case)	35 lbs (18 lbs. - VFD only)

Operating Conditions VFD Only

Ambient Temperature	14°F to 104°F (-10°C to 40°C)
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Storage Conditions

Ambient Temperature	-22°F to 149°F (-30°C to 65°C)
Relative Humidity	100%, Condensing

Protective Case Construction

Case	High impact polyethylene
Trim	Aluminum
Lock	Cast drawbolt

Minimum Generator Size: (Redi-Flo2® / Redi-Flo4®)

For Generators with Voltage Regulation	(2500 RF2 / 3400 RF4) Watts at 115/230 VAC, single phase
For Generators without Voltage Regulation	(5000 RF2 / 6700 RF4) Watts at 115/230 VAC, single phase
Recommended For Optimal Performance	(4000 RF2 / 5400 RF4) Watts at 115/230 VAC, single phase w/ voltage regulation