

Redi-Flo3



Description

The Grundfos Redi-Flo3 marks a significant advance in electric submersible pump technology. Smaller, lighter and more efficient than 4-inch pumps, the Redi-Flo3 is the first truly programmable submersible pump. The 2-wire motor lead also serves as a communication cable for pump diagnostics and reprogramming. Built-in safeguards eliminate the need for external motor-monitoring peripherals.

Operation

Pump is powered by 115 or 230 volt, single phase electricity and controlled by an internal program that is input through a Redi-Flo Status Box with an R100 Infrared Remote. Operation parameters can be changed on the fly without pump shutdown. A single remote can be used to program several pumps. Status Boxes can be left at the site for quick, visual diagnostics or removed after pump has been programmed. Control boxes are not required.

Applications

The Redi-Flo3 can be used in a variety of remediation applications including traditional pump & treat, leachate recovery, and ground water depression.

Features

- Rugged construction
- Excellent sand handling capabilities
- Efficient permanent-magnet motor
- Built-in dry run protection
- Built-in "Smart" motor protection with automatic restart
- Soft start
- High starting torque
- Constant pressure regulation
- Advanced communication
- Telephone modem surveillance
- Pump status readout
- Programmable speed change
- Sensor connection
- 316 SS and PVDF (Kynar) construction
- Warm water tolerance
- Variety of models for different flow and head requirements
- Integrated check valve



**Instrumentation
Northwest, Inc.**

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<http://www.inwusa.com>



Accessories

- Redi-Flo Status Box
- R100 Remote
- Pump Sleeve, 304SS
- PS9-series Pressure Sensors
- Redi-Flo3 Motor Leads
- Splice Kits
- Well Seals
- SPPI Potentiometer
- HP 822408 Infrared Printer
- Custom Enclosures

INW Services

- Custom pump pre-programming
- Installation assistance
- Redi-Flo3 system training
- Field programming
- Pump, sensor, and accessory rentals
- Shop repairs

Related INW Products

- Reel E-Z with Happy Hose! (portable RediFlo2 purging and sampling system)
- Dedicator System with Happy Hose! (permanently installed Redi-Flo2 sampling system)
- Aquistar Data Loggers (aquifer testing hardware)
- PS9-series Pressure Sensors
- TempHion Technology (down hole water quality instrumentation)
- Equipment rentals
- Consumable sampling supplies (bailers, tubing, buffers, calibration standards)

Technical Data	
Supply Voltage:	1x200-240V +6%/-10%, 50/60 Hz, PE
Operation via Generator:	As a minimum, the generator output must be equal to the motor P1[KW] +10%
Starting Current:	The motor starting current is equal to the highest value stated on the motor nameplate
Starting:	Soft starting
Run-up Time:	Maximum : 2 seconds
Motor Protection:	The motor is protected against: Dry running, overvoltage, undervoltage, overload, overtemperature
Power Factor:	PF= 1
Service Factor:	0.33-0.50A[hp]-1.75 at 230V 0.50-0.75B[hp]-1.4 at 230V 1.0 -1.5C[hp] -1.15 at 230V
Motor Cable:	3 Wire, 12 AWG TEFZEL Length Available in 5 ft. increments from 25ft.- 300ft.
Motor Liquid: pH Values:	Type SML 2 Redi-Flo3: 5 to 9
Liquid Temperature:	The temperature of the pumped liquid must not exceed 104°F.
Note: if liquids with a viscosity higher than that of water are to be pumped, please contact us or Grundfos for technical support	
Discharge Port:	5SQE-NE- 1"NPT 10-15SQE-NE- 1 1/4" NPT 22-30SQE-NE- 1 1/2" NPT
STORAGE CONDITIONS	
Minimum Ambient Temperature:	-4°F
Maximum Ambient Temperature:	+140°F
Freeze Protection:	If the pump has to be stored after use, it must be stored on a frost-free location or it must be ensured that the motor liquid is frost-proof. (The motor must be stored without being filled with motor liquid.)
OPERATING CONDITIONS	
Minimum Ambient Fluid Temperature:	34°F
Maximum Ambient Fluid Temperature:	+104°F
APPROXIMATE DIMENSIONS AND WEIGHT	
Motor Dimensions (MSE3-NE):	0.33-0.50A[hp] 20.9" length x 2.68" diameter 0.50-0.75B[hp] 20.9" length x 2.68" diameter 1.0-1.5C[hp] 22.3" length x 2.68" diameter
Motor Weights (MSE3-NE):	0.33-0.50A[hp] 6.0 Lbs 0.50-0.75B[hp] 7.1 Lbs 1.0-1.5C[hp] 8.2 Lbs
Pump End Dimensions:	
Pump Diameter:	2.68"
Pump Diameter, incl. cable guard:	2.91"
Pump End Dimensions(min. and max.):	
5SQE-NE	8.1" to 13.6"
10SQE-NE	8.1" to 14.5"
15SQE-NE	8.1" to 14.5"
22SQE-NE	8.1" to 14.5"
30SQE-NE	8.1" to 11.3"
Pump End Weights(min. and max.):	
All Redi-Flo3 Models	2.2 lbs to 3.5 lbs
Well Diameter (minimum):	3"
Installation Depth (Maximum):	500 feet, below static water level.

Instrumentation Northwest, Inc.



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