



Operation, Trouble shooting

TORPEDO G1275 Submersible Pump

Manual No
95354

EN

Not approved for use in European explosive atmosphere locations.



Important Safety Instructions Read all warnings and instructions in this manual before using the equipment. Save these instructions.

Torpedo G1275 Submersible Pump

This pump is intended to be used in leachate side slop risers or landfill sumps with high solids content.



See page 2 for model information, including maximum working pressure and approvals.



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Models

Part No.	Maximum TDH	Description
G1275-2P50	90	5HP 230V 3PH PUMP 50 FT CABLE
G1275-2P100	90	5HP 230V 3PH PUMP 100FT CABLE
G1275-2P150	90	5HP 230V 3PH PUMP 150FT CABLE
G1275-3P50	90	5HP 460V 3PH PUMP 50FT CABLE
G1275-3P100	90	5HP 460V 3PH PUMP 100FT CABLE
G1275-3P150	90	5HP 460V 3PH PUMP 150FT CABLE

Pump power requirements

HP	VOLTS	PAHSE	FLA
5	230	3	13.8
5	460	3	6.6

DANGER ⚡

<p>DANGER SEVERE ELECTRIC SHOCK HAZARD</p> <p>This equipment is powered by more than 240V. Contact with this voltage will cause death or serious injury.</p> <p>This equipment can be powered by more than 240V. Contact with this voltage will cause death or serious injury.</p>				

<p>DANGER SEVERE ELECTRIC SHOCK HAZARD</p> <p>This equipment can be powered by more than 240V. Contact with this voltage will cause death or serious injury.</p> <p>When accessing the electrical enclosure while power is present:</p> <ul style="list-style-type: none"> Do not make contact with components or wires unless instructed to do so. Wear appropriate personal protective equipment. 				

<p>All electrical wiring must be done by a qualified electrician and comply with all local codes and regulations.</p>				

Grounding

<p>The inequipment must be grounded to reduce the risk of static sparkg. Static sparking can cause fumes to ignite or explode. Grounding provides an escape wire for the electric current.</p>				



Installation

1. Connect discharge tube cam lock to pump cam lock.
2. Feed the discharge tube thru the well head.
3. Feed the power cord thru well cap.
4. Connect support cable and rout thru well cap.
5. Install level transducer for pump operation and rout thru the well cap.
6. Connect pump power cable to control panel.
7. Connect level transducer cable in the control panel
8. Check the pump rotation.
9. Lower pump into the well to desired depth.
10. Configure control panel for pump operation.
11. Turn the pump selector switch to Hand. Verify that fluid is flowing.
12. Turn the pump selector switch to Auto.
13. Verify the pump runs in Auto.

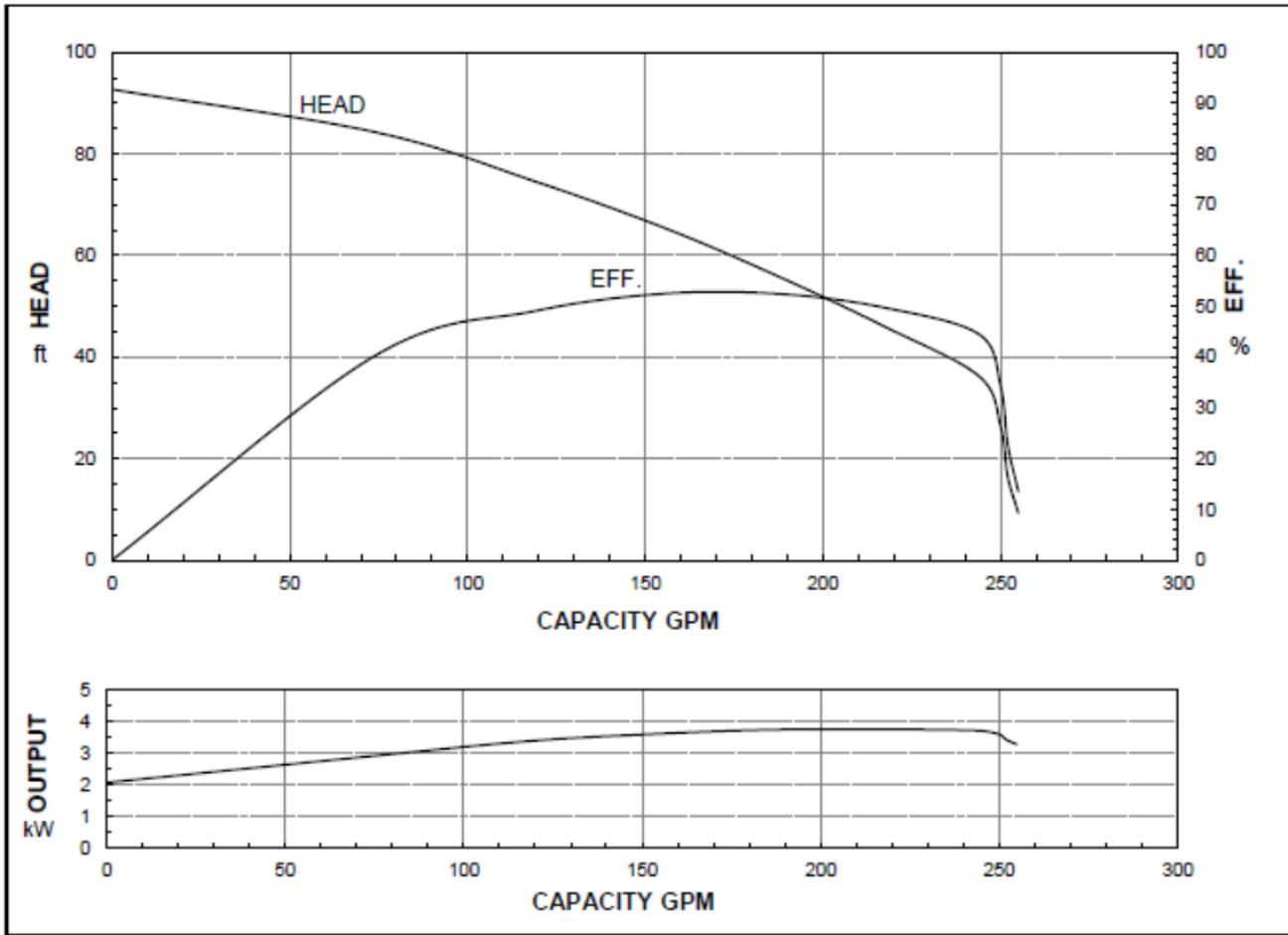
Control Panel Operation

When the pump is installed and connected to a QED control panel, the pump will run until the level in the well drops below the off set point in the controller. Then when the level rises to the start set point the pump will turn on and start pumping, as long as there are no other alarms.



Performance Chart Example

PUMP PERFORMANCE CURVES									
MODEL	STANDARD SPECIFICATION					VER. NO.			
						REFERENCE SPECIFICATION			
FREQUENCY	60 Hz								
DISCHARGE	3 inch		/ 80 mm						
OUTPUT	5 HP		/ 3.7 kW			HP		kW	
HEAD	69 ft								
CAPACITY	132 GPM								
PHASE/VOLTAGE	3 Ø	220 V	230 V	440 V	460 V	575 V	Ø		V
RATED CURRENT		14.0 A	13.8 A	6.9 A	6.6 A	5.5 A	A		
POLE / rpm	2 P		/ 3420 rpm						
START METHOD	DIRECT								
INSULATION CLASS	F								
REMARK									





Motor Specifications

Motor design	Air-filled
Applications	Dewatering
Insulation Class	Class F
Max Liquid Temp	0–40° C (32–104° F)
Frequency	60 Hz
RPM	3600

Pump & Motor Data

Impeller	Enclosed-channel
Solid	0.5"
Discharge	3"
Motor	2 Pole
kW • Hp	3.7 kW • 5 Hp
Phase	3
Cable	VCT or SJOW/SOW • 26 ft
Protection	Auto-cut

Materials of Construction

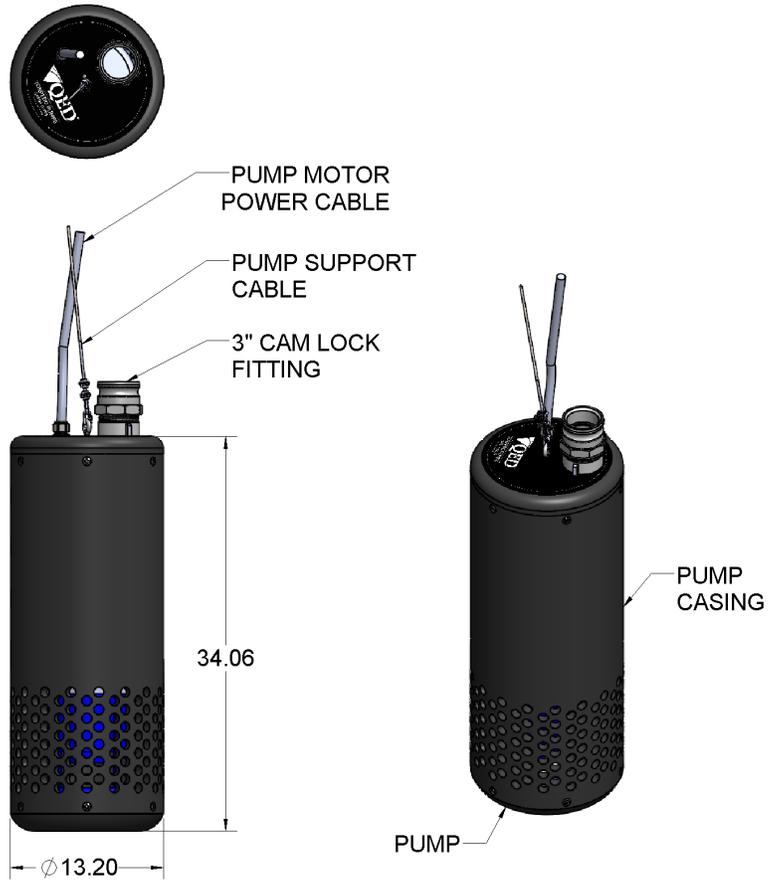
Motor Housing	FC-200
Impeller	HiCR
Wear Ring	HiCR
Rotor	SUS 403
Casing	SUS 304
O-Rings	BUNA "N"
Bearings	Roller bearings
Agitator	FCD-700
Mechanical Seal	Silicon/Silicon (Lower) Carbon/Ceramic (Upper)

Dimensions & Weight

Pump Weight	115 lbs
Max Submergence	100 ft
Optional	—
1Ø AMP	115V — 3Ø 230V 13.8 A
	208V — 460V 6.6 A
	230V — 575V 5.5 A



Drawings G1275



Kits and Accessories (optional)

UL508A and UL698 Control panels

Level transducer

Support cable / rope

Well caps and flanges



Troubleshooting

				
				
Problem	Cause			Solution
Fluid slows or stops flowing	Plugged inlet			Clean screen
Fluid slows or stops flowing	Plugged discharge tube			Clear discharge tube
	Excessive head pressure			Relieve the back pressure on the system.
Pump stops running	No power to pump			See control panel fuses, motor overload
	Pump is clogged			Pull pump and clean



Technical Specifications

G1275 Electric Agitator Pump		
	US	Metric
Maximum fluid working flow	250 gpm @ 20 tdh	946 l/min
Maximum Total Dynamic Head	90 ft	27.5 m
Maximum free-flow delivery	255 gpm @ 5 tdh	965 l/min
Pump dry weight	135 lbs not including the wire	
Maximum size pumpable solids	3/8 in.	9.5 mm
Maximum viscosity	10,000 cps	
Environmental temperature range	40°–120°F	4°–49°C
Minimum fluid temperature	40°F	4°C
Maximum fluid operating temperature		
Stainless steel	250°F	121.1°C
Inlet/Outlet Sizes		
Fluid inlet size	Screen	
Fluid outlet size	3 in NPT	

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

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Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

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Original instructions. This manual contains English. MM

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