



## INSTALLATION, OPERATION & MAINTENANCE MANUAL

### ***PERFECTA PUMP®*** ***Electric Submersible Pump***

#### **Single Phase**

**115 V 60 Hz**

**220 V 50 Hz**

#### **Models**

**GF 32-9**

**GF 32-9NL**

**GF 32-9X**

**IGF 32-9**

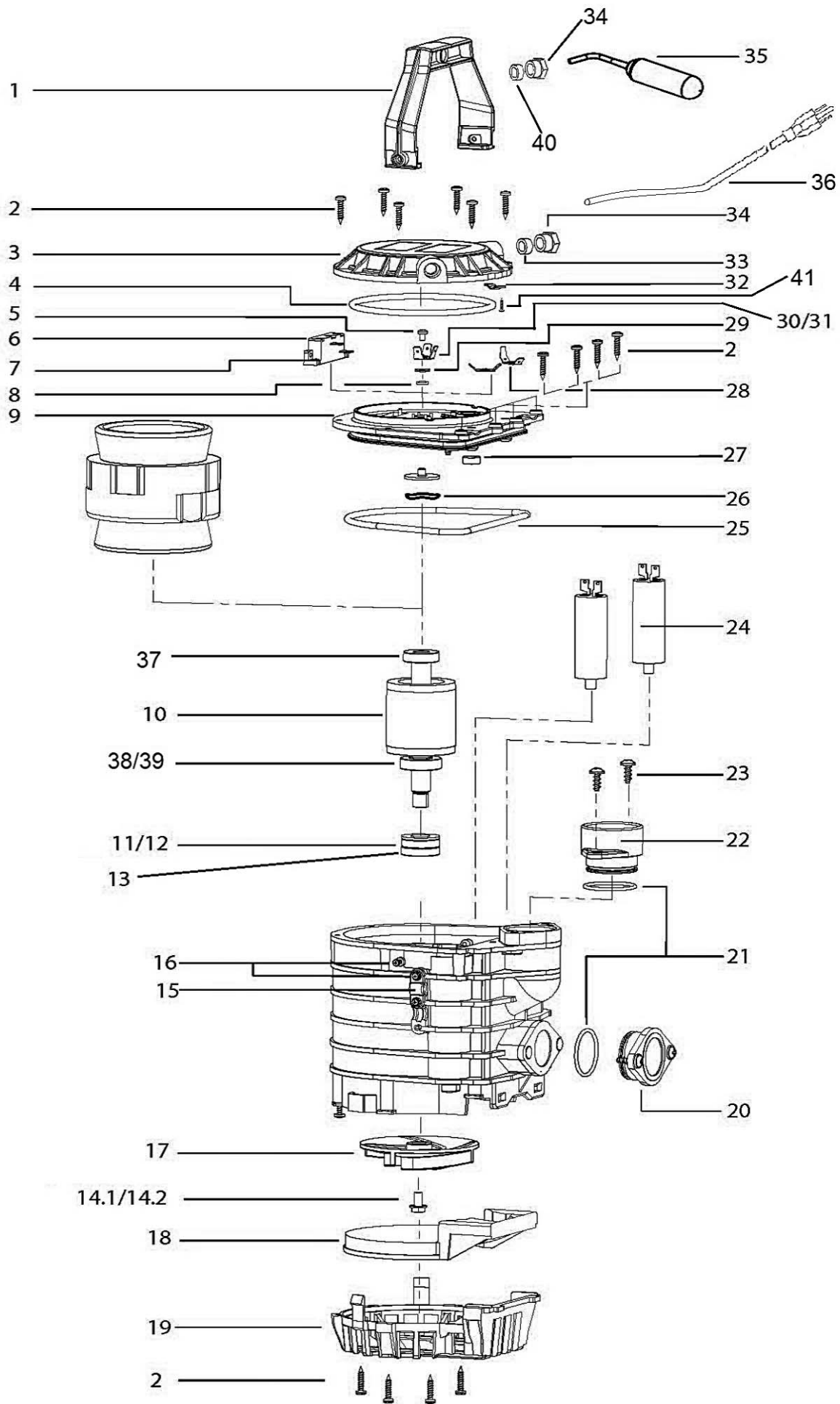
**IGF 32-9NL**

**IGF 32-9X**

**TIGF 32-9NL**

**TIGF 32-9NLX**

Read this manual carefully before installing, operating or servicing these pump models. Observe all safety information. Failure to comply with instructions may result in personal injury and/or property damage. Please retain these instructions.



Spare parts 220V-pump

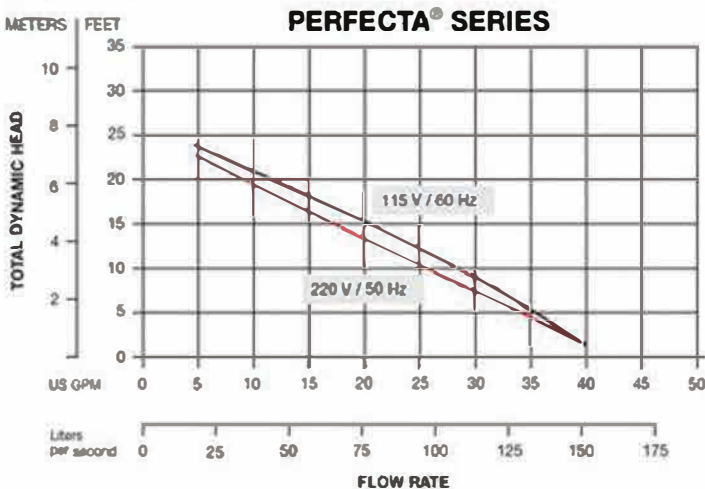
Spare parts 115V-pump

Pump Model		GF32-9X	IGF 32-9X	IGF 32-9XNL	GF32-9	GF32-9NL	IGF32-9	IGF 32-9NL	TIGF32-9NL
Pos. No.	Description	201152	201155	201156	201160	201161	201153	201154	201157
1	Pump Handle		201787				201798		
2	Screw 4.2 x 22		201778				201778		
3	Pump Cover		203892	203893	201796	201798	201796		201798
4	O-ring 105 x 5		201765				201765		201748
5	Screw		201776				201776		
6	Pump Protection Relay		204063				-		
7	Locking Washer		204064				-		
8	O ring 6 x 2		201766				201766		
9	Motor Housing Cover		204065				201758		
10	Rotor	201762	201795	201795	201762	201762	201795	201795	201745
11	Spacer		201794				201784		
12	Shaft Seal - FKM		201784		201784	201784	201784		204471
13	Shaft Seal - FKM	-	201784	-	-	-	201784		204471
13	Shaft Seal - Buna N	201782	-	-	201782	201782	-	-	-
14.1	Shaft Bolt		201781				201781		201751
14.2	Serrated Washer		201793				201793		
15	Cable Clamp For Float Switch	201767	201767	-	201767	-	201767	-	-
16	Screw 2.9 x 13		201780				201780		202770
17	Impeller		204066				201790		
18	Suction Coverplate		201760				201780		
19	Strainer		201757				201757		
20	Outlet Cap		201785				201785		
21	O-ring 2.5 x 35		201788				201788		201748
22	Threaded outlet		201788				201788		
23	Screw		201792				201792		
24	Capacitors		204067				201799		
25	O-ring 125 x 5		201764				201764		
26	Wave Washer		204068				204068		
27	Rubber Seal		201761				201761		
28	Cable Connection Pin		201783				201783		
29	Washer		201775				201775		
30	Cable Connection Pin		201773				201773		
31	Serrated Washer		201777				201777		
32	Pull/Tension Relief		201768				201768		
33	Cable Grommet for Power Cable		201772				201772		201749
34	Cable Entry		201763				201763		
35	Float Switch	204069	204069	-	201754	-	201754	-	-
Pos.	Description	201152	201155	201156	201150	201151	201153	201154	201157
36	Power Cable		201797*				201797		202743
37	Upper Ball Bearing		201769				201769		
38	Lower Ball Bearing		201770				201770		
39	Retaining Ring		204609				204609		
40	Cable Grommet for Float Switch	201789	201789	-	201789	-	201789	-	-
41	Screw		201779				201779		

\* 115v Plug Needs To Be Removed

Technical Information

Capacity curve:



GF 32-9

Pump Material: Noryl GTX 830, 304SS Rotor shaft, and 316SS hardware

Seal System: 2 Seals (1 FKM, 1 BUNA-N)

Motor Voltage (115 Volt): 115V, 5.0 Amps, 60Hz, 1PH std.

Motor Voltage (220 Volt): 220V, 2.1 Amps, 50Hz, 1PH std.

Max. Power Consumption: 500Watt

Max. Submersion Depth: 33' (10m) or limited to length of cable

Overall Dimensions: 7.2" (185mm)

Height Including Handle: 9.8" (250mm)

Weight: 13.5lbs (6.1kg)

Power Cord (115 Volt): 22' submersible

Power Cord (220 Volt): 16' submersible

Level Regular: Automatic on/off level control std.

Oil Filled Motor: Shell Tellus C68 or equal

Thermal Breaker: Capacitor

IGF 32-9

Pump Material: Noryl Gtx830, 316SS Shaft and hardware

Seal System: 2 FKM Seals

All other components are the same as for the GF32-9. Please see above.

TIGF32-9

Same as for the IGF32-9, but with all exposed metal parts made of titanium.

NL -> Manual/no float switch

X -> 220V, 50Hz

\*115V PLUG NEEDS TO BE REMOVED



**ALWAYS DISCONNECT PUMP FROM ELECTRICAL SOURCE BEFORE SERVICING!  
NOT FOR USE IN FLAMMABLE LIQUIDS!**

**IMPORTANT: IN ANY CORROSIVE ENVIRONMENT, CONSULT FACTORY OR YOUR DISTRIBUTOR BEFORE INSTALLATION OR USE.**

**TROUBLE SHOOTING**

**Pump shuts off:**

- Adjust float switch
- Check impeller for free rotation and clogging
- Check pump passage, hose or pipe for kink or clog.

**Pump is heating up:**

- Check impeller for free rotation
- Check voltage

**Pump performance low:**

- Check for blockage
- Check impeller for excessive wear

**SERVICE:**

**Tools needed**

Phillips screwdrivers (#1 and #2), locking pliers, 10 mm and 17 mm wrench, ball bearing puller.

**A. Disassembly of pump top.**

(Check wires, rotor, stator, ball bearings and oil). Remove (pos 39) handle screws (pos 4). Remove handle. Remove (pos 37) top

cover screws (pos 2) and open top cover. Disconnect wires, remove motor housing cover (pos 3). Inspect the quality of the oil. If milky or whitish in color, check seals and replace (both seals and oil) if necessary. To remove rotor, ball bearings and seals, follow steps described in B. Disassemble pump bottom before proceeding. Once impeller is off, pull out rotor. Inspect bearings, replace if necessary. Press out lip seals. Inspect and replace as necessary.

**B. Disassembly of pump bottom**

(strainer, suction cover, impeller) Remove strainer screws (pos 36), remove strainer (pos 6) and suction cover (pos 7). Hold impeller with vise grip and remove impeller screw (pos 40). Remove impeller (pos 5). Impeller vanes should have sharp edges to maximize performance. Replace impeller if vanes are rounded or dull.

Inspection of pump bottom parts.

Look at lower lip seal parts (pos 27) for visible wear. If damaged or worn replace both lip seals. To replace lip seals, disassemble top portion of pump first and remove the oil (see A., disassembly of pump top).

**Note: Both seal openings should face down.**

**C. Important notes on re-assembly of pump**

All O-rings should be lubricated with a silicone based grease, or lubricated with same oil as in motor, before assembly. Replace ball bearings to shaft. To re-install inner cover, lubricate bearing holder. Use a plastic or rubber mallet to lightly tap until cover is in place. It is important that the bearing is in the absolute center of the bearing holder when closing the top cover. If not centered, the shaft will not turn freely.

Industrial Flow Solutions Operating, LLC warrants each new pump against defects in workmanship and material for the period of 90 DAYS. It will replace or repair for the original purchaser, any genuine parts found to be defective upon return to its factory at CT (or other place as designated by it), transportation prepaid by purchaser. The labor involved in replacing defective parts is unwarrantable. Other equipment and accessories are war-ranted only to the extent of the original manufacturer's warranty. This warranty does not cover any pump which has been damaged due to ca-reless handling, improper use or application, improper power supply, use in unsuitable liquids, or faulty installation. Alteration or repair by other than Industrial Flow Solutions Operating, LLC (or designated service facility) voids this warranty. Industrial Flow Solutions Operating, LLC assumes no liability for damages, losses, inconveniences, direct, or consequential, any kind in respect to the use or ope-ration of the pumps or any equipment or accessory used in connection herewith. This warranty encompasses the entire understanding between the purchaser and Industrial Flow Solutions Operating, LLC and no other person is authorized to ex-tend or alter the terms of the warranty. This warranty is effective only when the warranty certificate card is properly completed and returned to Industrial Flow Solutions Operating, LLC at the time of purchase.

Industrial Flow Solutions Operating, LLC  
KEEP FOR YOUR RECORDS

Date Purchased: \_\_\_\_\_

Model: \_\_\_\_\_ Serial No.: \_\_\_\_\_

Dealer Name: \_\_\_\_\_

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