PEDROLLO Dg Ped 3

Pedrollo DG PED 3 - Compact Silent Variable Speed Booster Pump User Manual

Model: Dg Ped 3 | Brand: PEDROLLO

1. Introduction

The Pedrollo DG PED 3 is an advanced, compact, and silent variable speed booster pump designed to provide constant water pressure in domestic installations. This all-in-one device effectively addresses issues of weak water pressure and inconsistent flow, enhancing overall comfort in your home.
Key features include:

- Compact, all-in-one design.
- Energy-saving operation due to variable speed technology.
- Ultra-silent performance.
- Automatic operation to maintain constant pressure and prevent drops.
- Easy to adjust, use, and quick to install.
- Suitable for various water sources including distribution networks, tanks, or shallow wells (up to 8 meters).

Figure 1.1: Front-side view of the Pedrollo DG PED 3 booster pump, showcasing its compact design and control panel.

2. Safety Instructions

Please read and understand all safety instructions before installing, operating, or performing maintenance on the DG PED 3 pump. Failure to follow these instructions could result in electric shock, fire, serious injury, or property damage.

- Always disconnect power before servicing the pump.
- Installation must be performed by a qualified professional in accordance with local electrical and plumbing codes.
- Ensure the pump is properly grounded.
- Do not operate the pump with damaged cords or plugs.
- Protect the pump from freezing temperatures.
- Do not use the pump for flammable or corrosive liquids.
- Keep children and unauthorized persons away from the pump during operation.

3. Components and Controls

Familiarize yourself with the main components and controls of your DG PED 3 pump.

Figure 3.1: Front view highlighting the control panel and various ports.

1. **Control Panel:** Digital display and buttons for setting parameters and monitoring status.
2. **Power Switch:** Main on/off switch for the unit.
3. **Inlet (IN):** Connection point for water entering the pump.
4. **Outlet (OUT):** Connection point for pressurized water leaving the pump.
5. **Pressure Sensor:** Monitors system pressure to adjust pump speed.
6. **Flow Sensor:** Detects water flow to activate/deactivate the pump.

Figure 3.2: Side view showing the clearly labeled IN (Inlet) and OUT (Outlet) connections, along with the "INVERTER HOME PUMP" designation.

Figure 3.3: Top view providing another perspective of the IN and OUT connections, essential for plumbing setup.

4. Setup and Installation

The DG PED 3 is designed for straightforward integration into new or existing pressurization systems. Professional installation is recommended.

4.1. Placement

- Install the pump in a dry, well-ventilated area, protected from direct sunlight and freezing temperatures.
- Ensure sufficient space around the unit for ventilation and maintenance access.
- Mount the pump on a stable, level surface to minimize vibration and noise.

4.2. Plumbing Connections

- Connect the water supply line to the "IN" (Inlet) port.
- Connect the household distribution line to the "OUT" (Outlet) port.
- Use appropriate fittings and sealants to ensure watertight connections.
- Consider installing isolation valves on both inlet and outlet for easier maintenance.

Figure 4.1: Example of the DG PED 3 pump connected with external piping, illustrating typical installation.

4.3. Electrical Connection

- Ensure the power supply matches the pump's voltage requirements (220V AC).
- Connect the pump to a dedicated, properly grounded electrical circuit.
- Avoid using extension cords.

4.4. Initial Priming (if applicable)

Follow the specific instructions in the full product manual for initial priming of the pump to ensure it is filled with water before first use.

5. Operating Instructions

The DG PED 3 operates automatically to maintain constant water pressure.

5.1. Powering On

- Once installed and primed, switch the main power switch to the "ON" position.
- The pump will perform a self-check and then enter standby mode.

5.2. Automatic Operation

- The pump will automatically start when water demand is detected (e.g., opening a faucet).
- It will adjust its speed to maintain the desired constant pressure, even with multiple outlets open.
- The pump will automatically stop when water demand ceases.

5.3. Setting Pressure (if adjustable)

Refer to the control panel and the full product manual for instructions on how to adjust the desired pressure set point. The DG PED 3 typically has a default set point of 3 bar, with an operating range of 1 to 5.5 bar.

Figure 5.1: Performance curve for DG PED 3, showing Head (H in meters) vs. Flow (Q in liters/minute). The shaded area indicates the operating range, with a typical set point at 3 bar.

6. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your DG PED 3 pump. Always disconnect power before performing any maintenance.

- **Regular Inspection:** Periodically check for any visible leaks, unusual noises, or vibrations.
- **Cleanliness:** Keep the exterior of the pump clean and free from dust and debris to ensure proper ventilation.
- **Filter Check (if applicable):** If your system includes an inlet filter, inspect and clean it regularly to prevent clogging and maintain flow.
- **Winterization:** If the pump is installed in an area subject to freezing temperatures, ensure it is properly drained and protected during winter months to prevent damage.

7. Troubleshooting

This section provides solutions to common issues. For more complex problems, contact qualified service personnel.

Problem	Possible Cause	Solution
Pump does not start.	No power; tripped circuit breaker; motor overload; air in pump.	Check power supply and circuit breaker. Reset motor overload. Prime the pump.
Low water pressure.	Clogged inlet filter; insufficient water supply; air in system; incorrect pressure setting.	Clean filter. Check water source. Bleed air from system. Adjust pressure setting.
Pump runs continuously.	Leak in plumbing system; faulty sensor; constant low water demand.	Check for leaks. Contact service for sensor issues.
Unusual noise/vibration.	Air in pump; foreign object; loose mounting.	Prime pump. Inspect for obstructions. Secure mounting bolts.

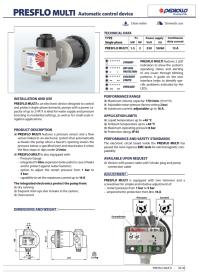
8. Specifications

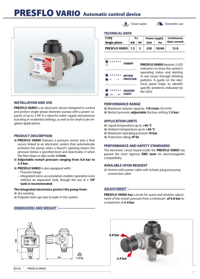
Attribute	Value
Manufacturer	Pedrollo
Model Number	Dg Ped 3
Item Code	DGPED3
Color	Blue
Style	Silent
Material	Plastic
Power Type	Corded Electric
Voltage	220V (AC)
Max Flow Rate	3.6 Cubic meters per hour
Operating Head Range	10 to 55 HMT (meters)
Item Weight	15 Kilograms
Product Dimensions (L x W x H)	39L x 27.4W x 34.4H cm

9. Warranty and Support

The Pedrollo DG PED 3 pump comes with a**2-year warranty** from the date of purchase, covering manufacturing defects. Please retain your proof of purchase for warranty claims.
For technical support, spare parts, or warranty service, please contact your authorized Pedrollo dealer or visit the official Pedrollo website for contact information.
Important: Any unauthorized repairs or modifications to the pump will void the warranty.

Related Documents - Dg Ped 3

	Manuale di Istruzioni Pedrollo DG PED: Sistema di Pressurizzazione Automatico con Inverter Guida completa all'installazione, funzionamento e manutenzione del sistema di pressurizzazione automatico Pedrollo DG PED con inverter. Offre un flusso d'acqua costante e affidabile con controllo elettronico intelligente.
	Pedrollo PRESFLO MULTI Automatic Control Device - Technical Specifications Detailed technical specifications, installation guide, and features of the Pedrollo PRESFLO MULTI automatic electronic pressure control device for domestic water supply and pressure boosting.
	Pedrollo VSP Series Variable Speed Pumps - Technical Guide Comprehensive technical guide for Pedrollo VSP series variable speed electro-pumps (VSP-FCR, VSP-PLURIJET, VSP-MK, VSP-HT-PRO). Covers applications, product description, integrated protections, technical data, user advantages, control panel operation, typical installations, performance curves, and dimensions.
	Pedrollo STEADYPRES: Variatore Elettronico di Frequenza per Pompe Manuale completo per il Pedrollo STEADYPRES, un inverter per il controllo di elettropompe. Offre istruzioni dettagliate su installazione, configurazione, funzionamento, gestione allarmi, risoluzione guasti e dati tecnici per ottimizzare la pressione e proteggere la pompa.
	Pedrollo DG-BLU Automatic Pressurization System with Variable Speed Drive Comprehensive technical details, performance curves, and installation guidance for the Pedrollo DG-BLU automatic pressurization system. This system features a variable speed drive for consistent water pressure, energy efficiency, and quiet operation, suitable for domestic and civil applications.

	Presflo Vario Automatic Control Device - Technical Specifications and Usage Detailed information on the Presflo Vario automatic control device by Pedrollo, including technical data, installation, product description, performance range, application limits, safety standards, and adjustment features. Suitable for water supply and pressure boosting.