

AUTOMATIC PRESSURISATION SYSTEM WITH INVERTER

-  Clean water
-  Domestic use
-  Civil use



DESCRIPTION

- **DG PED** is an automatic pressurisation system with inverter which integrates: a high efficiency self-priming pump; an expansion vessel; pressure and flow rate sensors; a non-return valve.
- **DG PED is a compact, autonomous, quiet and high performance pumping system.**
- **A sophisticated electronically controlled inverter, at the heart of the system, in an intuitive way:**
 - maintains the pressure of the installation constant by regulating the speed of the pump in accordance with the required flow rate;
 - controls the hydraulic and electric operating parameters and protects the pump from anomalies;
 - can be equipped with an expansion card that makes it possible to work in parallel with other inverters in the pumping groups by managing input and output signals;
 - it adapts to every type of pressurisation system, including existing ones;
 - it limits the starting and operating currents in order to provide a greater saving of energy.

TECHNICAL DATA

- Supply voltage ~ **230 V** ± 10%
- Frequency **50/60 Hz**
- Insulation: **class F**
- Max absorbed current: **7.5 A** DG PED 3 - **10 A** DG PED 5
- P1 Maximum absorbed power: **1.0 kW** DG PED 3 - **1.5 kW** DG PED 5
- Protection **IP X4**
- Factory set point **3 bar**

APPLICATION LIMITS

- Manometric suction lift up to **8 m**
- Liquid temperature between 0 °C and **+40 °C**
- Ambient temperature between 0 °C and **+40 °C**
- Max. working pressure **10 bar**
- Continuous service **S1**
- Operates in a **vertical** position



ALL IN ONE

Main components:

Multistage self-priming pump
Expansion vessel
Non-return valve
Intuitive control panel



LOW-NOISE



CONSTANT PRESSURE

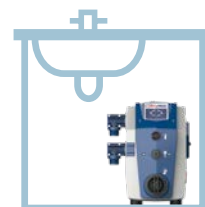


EASY TO USE



INSTALLABLE ANYWHERE

Thanks to its compactness and low noise level the DG PED can be installed anywhere



COMPACT DIMENSIONS



DOMESTIC USE

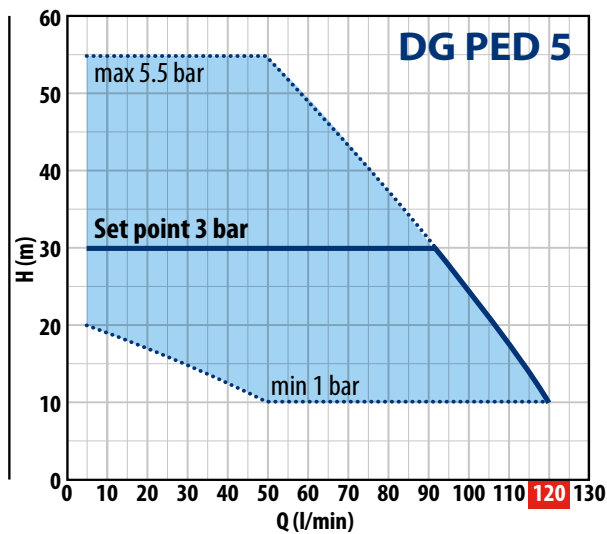
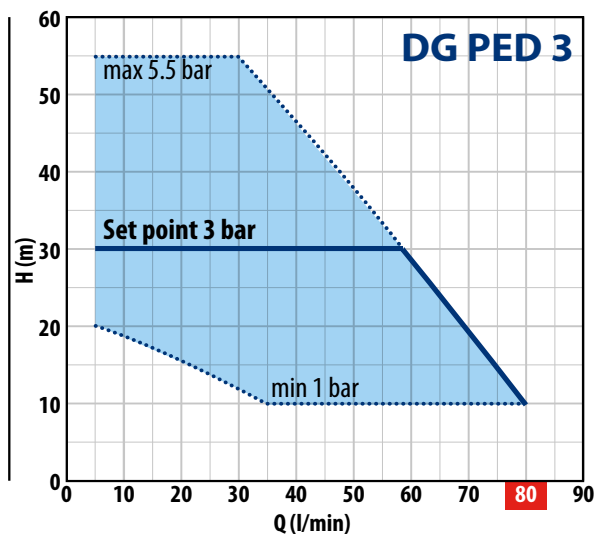
A single DG PED meets the requirements of single apartments or small houses.



RESIDENTIAL USE

Two DG PED assembled as a set meet the requirements of more than one apartment.

CHARACTERISTIC CURVES



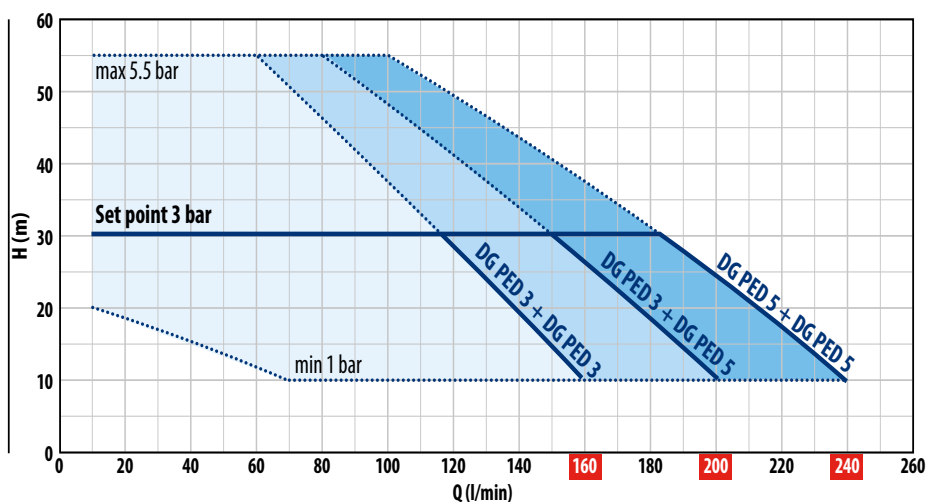
MODEL	POWER			MAX PERFORMANCES		PERFORMANCES (ADJUSTABLE SET POINT)				
	P ₂			Q	H	Min. Set Point	Set Point Stand. Setting		Max. Set Point	
Single-phase	kW	HP	▲	l/min	metres	bar	l/min	bar	l/min	bar
DG PED 3	0.75	1	IE3	5 – 80	55 – 10	1	35 – 80	3	5 – 58	5.5
DG PED 5	1.1	1.5		5 – 120	55 – 10	1	50 – 120	3	5 – 92	5.5

Q = Flow rate H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

▲ Three-phase motor efficiency class (IEC 60034-30-1)

CHARACTERISTIC CURVES FOR GROUPS OF TWO DG PED 3 OR 5



OPTIONAL ACCESSORIES



Connection kit for two DG PED units



Electronic expansion circuit board



Kit for wall-mounting a single DG PED



Kit for wall-mounting a group of two units

