

DG PED EVO

Automatic pressurization system with inverter

 Clean water

 Domestic use

 Civil use



PRODUCT DESCRIPTION

DG PED EVO is a cutting-edge, automatic pressurization system featuring a high-efficiency, self-priming pump with multiple impellers. It comes complete with a storage tank, pressure and flow sensors, and a check valve, all designed to work quietly and efficiently.

This compact powerhouse stands out for its advanced electronic inverter control, which intelligently manages the system performance by:

- keeping the pressure constant according to water usage;
- monitoring hydraulic and electrical conditions to safeguard against malfunctions;
- allowing for integration with another DG PED EVO unit through an optional expansion card;
- adapting seamlessly to any type of pressurization system, even existing ones;
- reducing electrical consumption with lower startup and running currents, achieving greater energy efficiency.

INSTALLATION AND USE

- ※ **DG PED EVO** is designed to cater to the needs of single and two-family homes.
- ※ **DUAL-DG PED EVO** units are pre-assembled pump systems, perfectly suited for multi-unit residences.

TECHNICAL DATA

- ※ Power supply:
 - **1~ 230 V** $\pm 10\%$ DG PED 3 EVO, DG PED 5 EVO
 - **1~ 115 V** $\pm 10\%$ DG PED 3 EVO 115 V
- ※ Frequency: **50/60 Hz**
- ※ Insulation: **class F**
- ※ Maximum current absorbed:
 - **7.5 A** DG PED 3 EVO
 - **10 A** DG PED 5 EVO
 - **10 A** DG PED 3 EVO (115 V)
- ※ Maximum power input P1:
 - **1 HP** DG PED 3 EVO
 - **1-1/2 HP** DG PED 5 EVO
 - **3/4 HP** DG PED 3 EVO 115 V
- ※ Protection rating: **IP X4**
- ※ Set point from the factory: **45 psi**

APPLICATION LIMITS

- Manometric suction head up to **11 psi**
- Liquid temperature between: **32 °F** and **104 °F**
- Ambient temperature between: **32 °F** and **104 °F**
- Max. port pressure **58 psi**
- Max pressure **145 psi**
- Continuous running duty **S1**

PATENTS - TRADE MARKS - MODELS

- Registered community model No. 015048622-0001

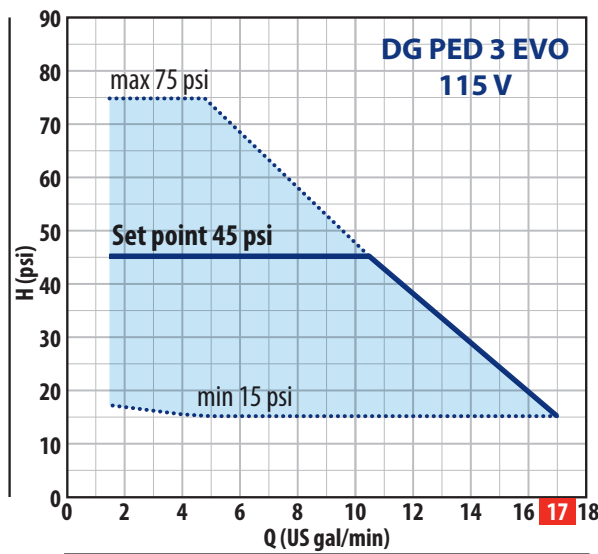
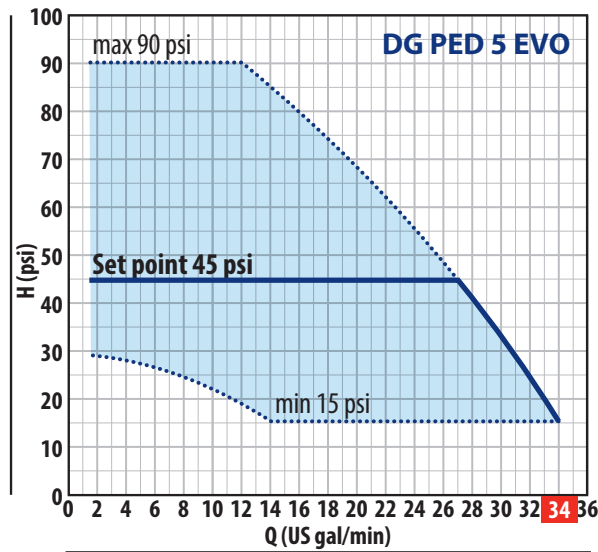
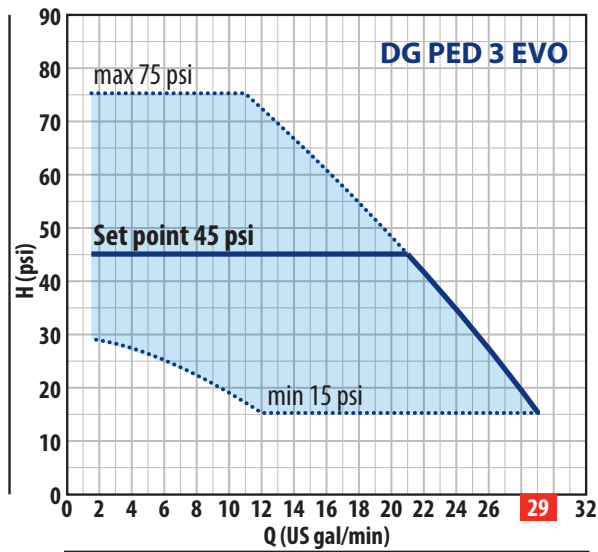
CERTIFICATIONS



DG PED EVO

PERFORMANCE CURVES

Q (US gal/min) H (psi)

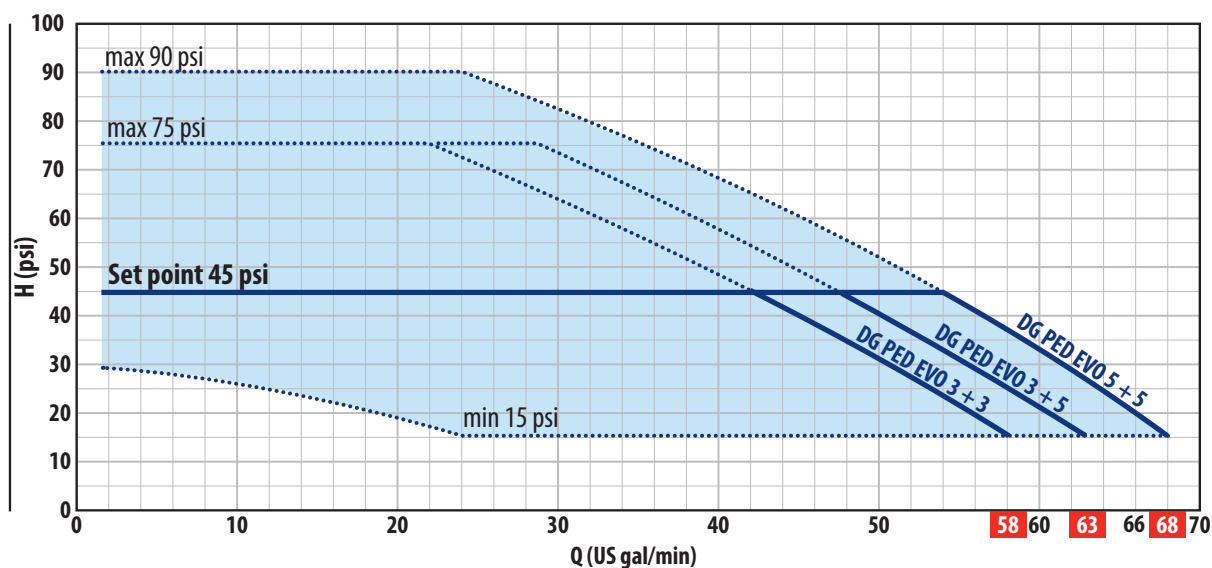


| TYPE | POWER | | PERFORMANCE | | PERFORMANCE (ADJUSTABLE SET POINT) | | | | | |
|--------------------|-------|-------|-----------------|----------|------------------------------------|------------|----------------------------------|------------|----------------------|------------|
| | HP | ▲ | Q US gal/min | H psi | Set Point Min psi | US gal/min | Set Point Calibration Std psi | US gal/min | Set Point Max psi | US gal/min |
| DG PED 3 EVO | 230 V | 1 | 1.5 – 29 | 75 – 15 | 15 | 12 – 29 | 45 | 1.5 – 21 | 75 | 1.5 – 11 |
| DG PED 5 EVO | 230 V | 1-1/2 | 1.5 – 34 | 90 – 15 | 15 | 14 – 34 | 45 | 1.5 – 27 | 90 | 1.5 – 12 |
| DG PED 3 EVO 115 V | 115 V | 3/4 | 1.5 – 17 | 75 – 15 | 15 | 5 – 17 | 45 | 1.5 – 10.5 | 75 | 1.5 – 4.8 |

Q = Flow rate H = Total manometric head ▲ Efficiency three-phase motor (IEC 60034-30-1)

PERFORMANCE CURVES FOR A GROUP OF TWO DG PED EVO UNITS

Q (US gal/min) H (psi)



| TYPE | POWER | | PERFORMANCE | | PERFORMANCE (ADJUSTABLE SET POINT) | | | | | |
|---------------------|-------------|-----|-----------------|----------|------------------------------------|------------|---------------------------|------------|---------------|------------|
| | HP | ▲ | Q US gal/min | H psi | Set Point Min | | Set Point Calibration Std | | Set Point Max | |
| Single-phase | | | | | psi | US gal/min | psi | US gal/min | psi | US gal/min |
| DUAL DG PED EVO 3+3 | 1+1 | IE3 | 1.5 – 58 | 75 – 15 | 15 | 24 – 58 | 45 | 1.5 – 42 | 75 | 1.5 – 22 |
| DUAL DG PED EVO 3+5 | 1+1-1/2 | | 1.5 – 63 | 75 – 15 | 15 | 24 – 63 | 45 | 1.5 – 48 | 75 | 1.5 – 29 |
| DUAL DG PED EVO 5+5 | 1-1/2+1-1/2 | | 1.5 – 68 | 90 – 15 | 15 | 28 – 68 | 45 | 1.5 – 54 | 90 | 1.5 – 24 |

Q = Flow rate H = Total manometric head

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

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

DG PED EVO

KEY FEATURES



ALL IN ONE

- Self-priming multistage pump
- Frequency inverter
- Expansion tank
- Check valve
- Pressure and flow sensor



QUIET



COMPACT



CONSTANT PRESSURE



EASY TO USE



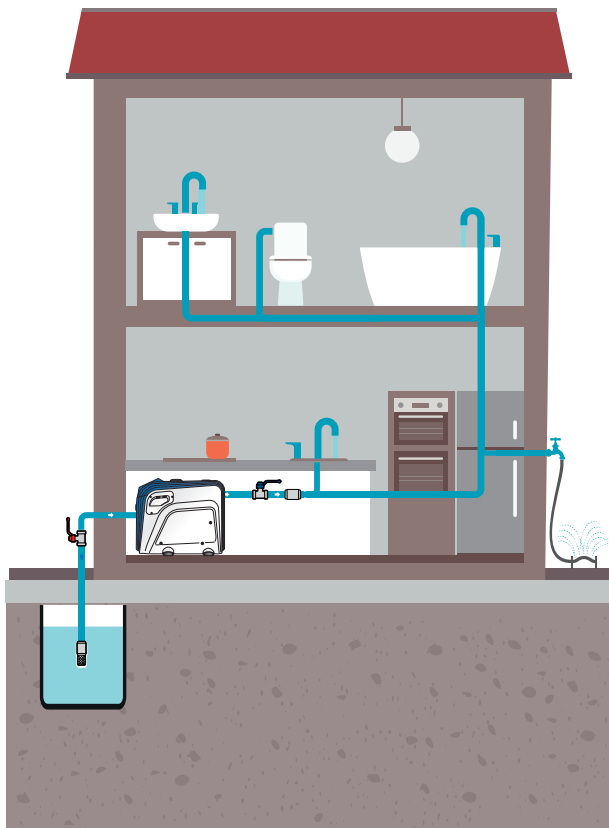
INSTALLABLE ANYWHERE

Thanks to its compactness, quiet operation, and 360° adjustable connections, DG PED EVO can be installed anywhere

TYPICAL INSTALLATION

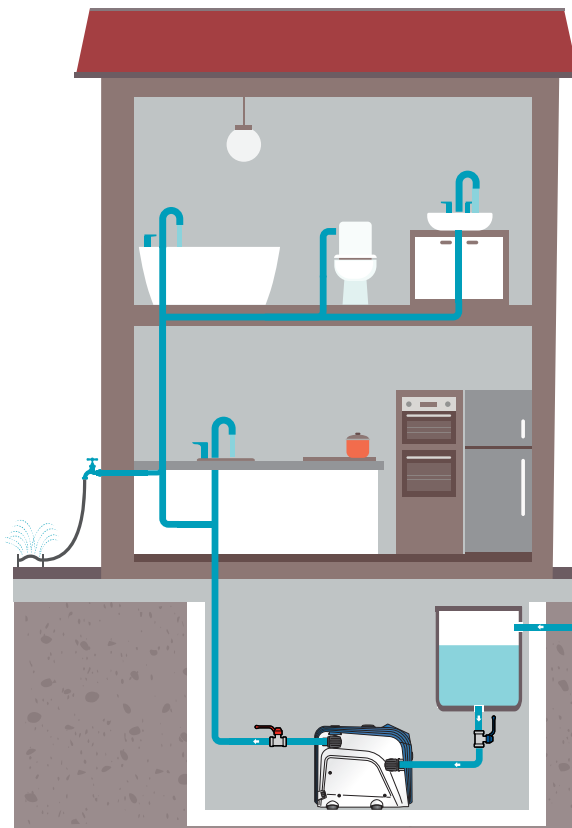
ABOVE GROUND

(drawing from a shallow tank or well)

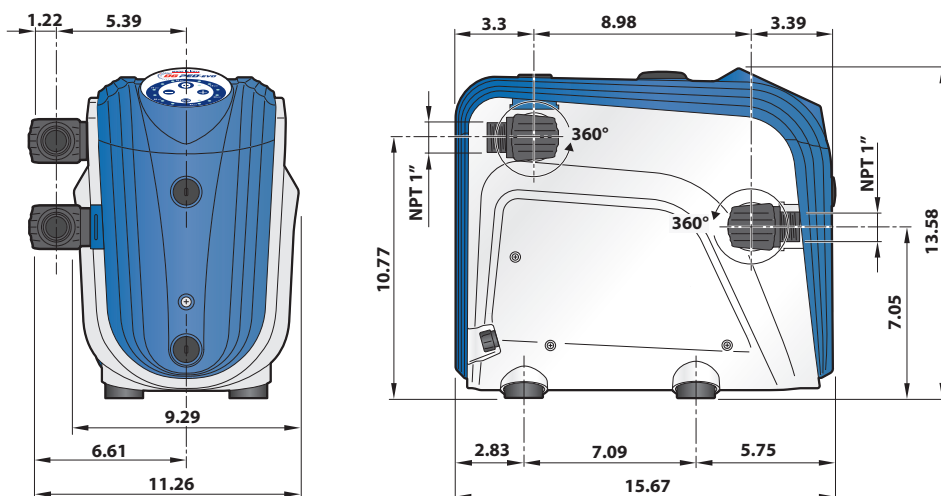


BELOW GROUND

(tank or aqueduct)

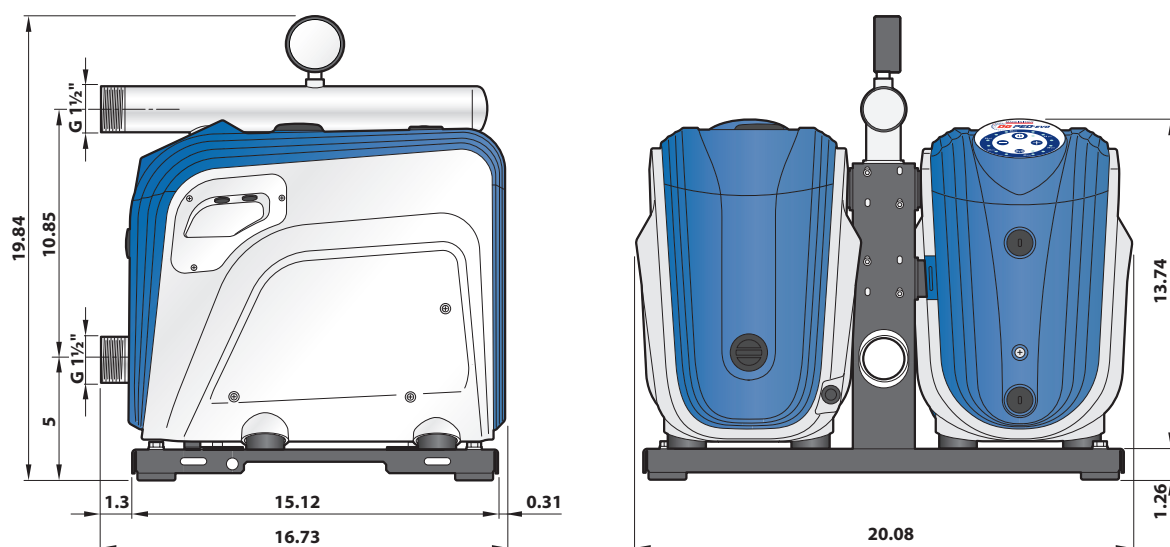


DIMENSIONS AND WEIGHTS (in.)



DG PED 3 EVO: **33 lbs.**
DG PED 5 EVO: **35 lbs.**

DUAL DG PED EVO DIMENSIONS AND WEIGHTS (in.)



DUAL DG PED EVO 3+3: **94.8 lbs.**
DUAL DG PED EVO 3+5: **97 lbs**
DUAL DG PED EVO 5+5: **99.2 lbs.**

OPTIONAL ACCESSORIES



Connection kit for two
DG PED EVO units



Electronic
expansion board



Kit for wall installation of a
single DG PED EVO



Wall installation kit
of a two-unit group