

# DG-BLU

## Automatic pressurization system with inverter

-  Clean water
-  Domestic use
-  Civil use



### PRODUCT DESCRIPTION

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

### TECHNICAL DATA

- ※ Power supply:
  - **1~ 230 V** ± 10% DG-BLU 3, DG-BLU 5
  - **1~ 115/230 V** ± 10% DG-BLU 3 115/230 V
- ※ Frequency: **50/60 Hz**
- ※ Insulation: **class F**
- ※ Maximum current absorbed:
  - **7.5 A** DG-BLU 3
  - **10 A** DG-BLU 5
  - **10 A/7.6 A** DG-BLU 3 115/230 V
- ※ Maximum power input P1:
  - **1.0 kW** DG-BLU 3
  - **1.5 kW** DG-BLU 5
  - **0.76 kW/0.98 kW** DG-BLU 3 115/230 V
- ※ Protection rating: **IP X4**
- ※ Set point from the factory: **3 bar** (45 psi)
- ※ 1.5 metres cable with Schuko plug

### APPLICATION LIMITS

- Manometric suction head up to **8 m** (11 psi)
- Liquid temperature between: **0 °C** and **+40 °C** (32 °F and 104 °F)
- Ambient temperature between: **0 °C** and **+40 °C** (32 °F and 104 °F)
- Max. port pressure **4 bar** (58 psi)
- Max pressure **10 bar** (145 psi)
- Continuous running duty **S1**

### PATENTS - TRADE MARKS - MODELS

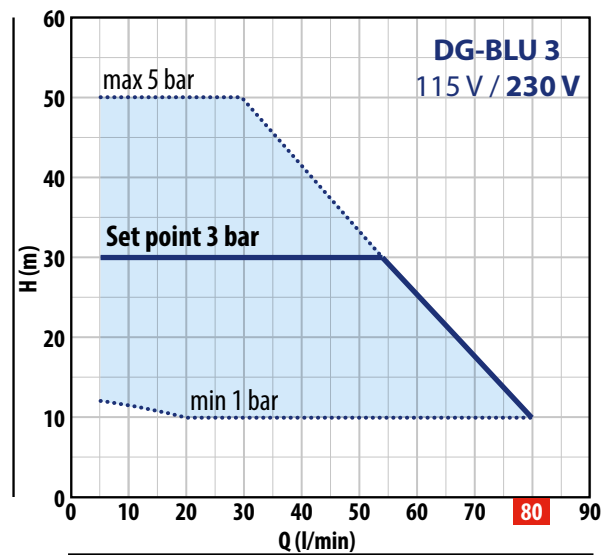
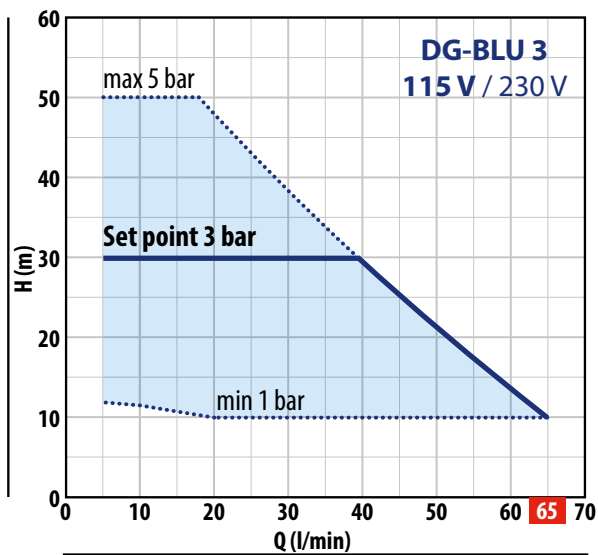
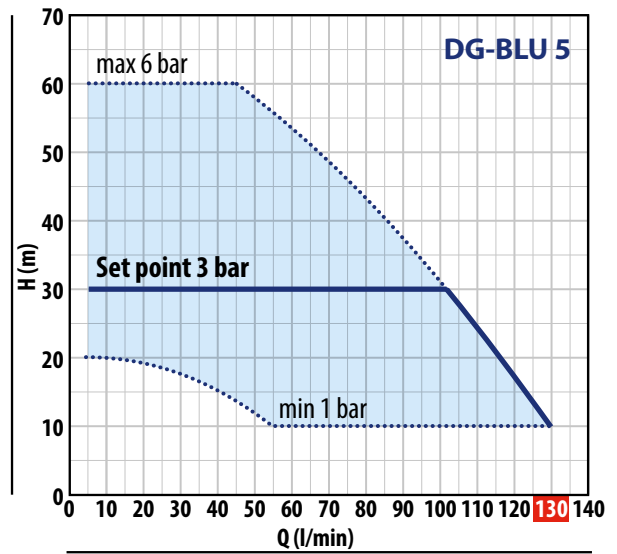
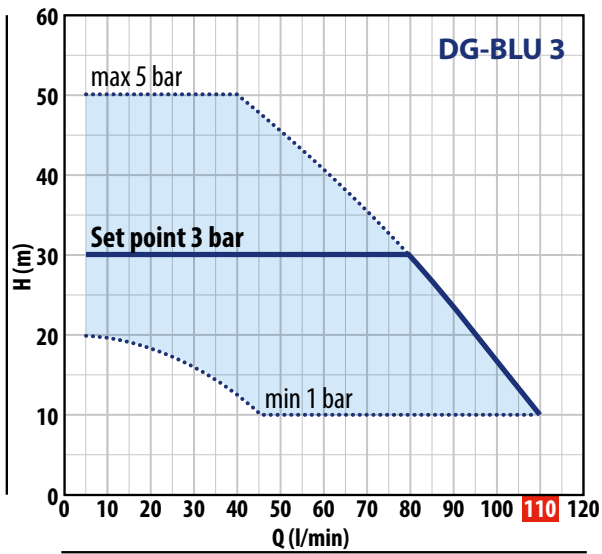
- Registered community model No. 015048622-0001

### CERTIFICATIONS IN PROGRESS



## PERFORMANCE CURVES

Q (l/min) H (m)



TYPE	POWER			PERFORMANCE		PERFORMANCE (ADJUSTABLE SET POINT)					
	P <sub>2</sub>		▲	Q	H	Set Point Min		Set Point Calibration Std		Set Point Max	
Single-phase	kW	HP		l/min	metres	bar	l/min	bar	l/min	bar	l/min
DG-BLU 3	230 V	0.75	1	5 – 110	50 – 10	1.0	45 – 110	3.0	5 – 80	5.0	5 – 40
DG-BLU 5	230 V	1.1	1.5	5 – 130	60 – 10	1.0	55 – 130	3.0	5 – 102	6.0	5 – 45
DG-BLU 3 115/230 V	115 V	0.55	0.75	5 – 65	50 – 10	1.0	20 – 65	3.0	5 – 39	5.0	5 – 18
	230 V	0.75	1	5 – 80	50 – 10	1.0	20 – 80	3.0	5 – 54	5.0	5 – 30

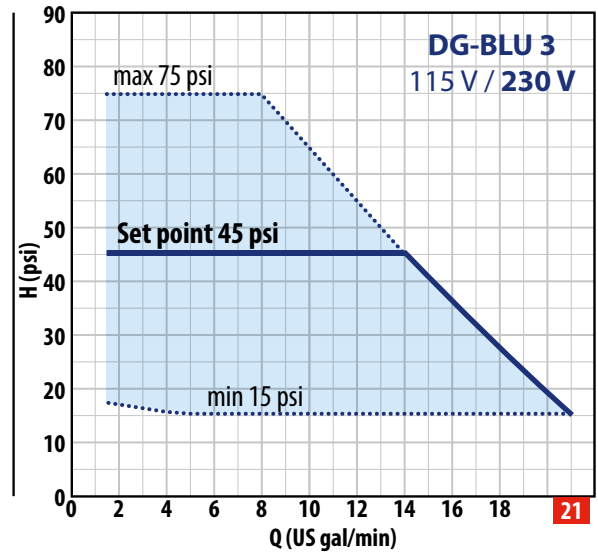
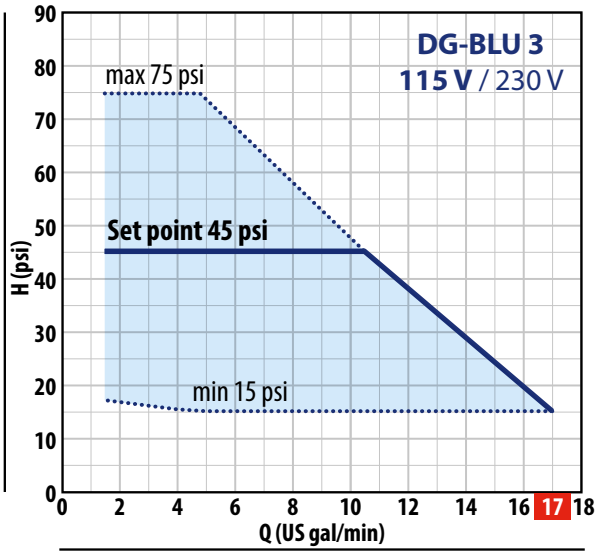
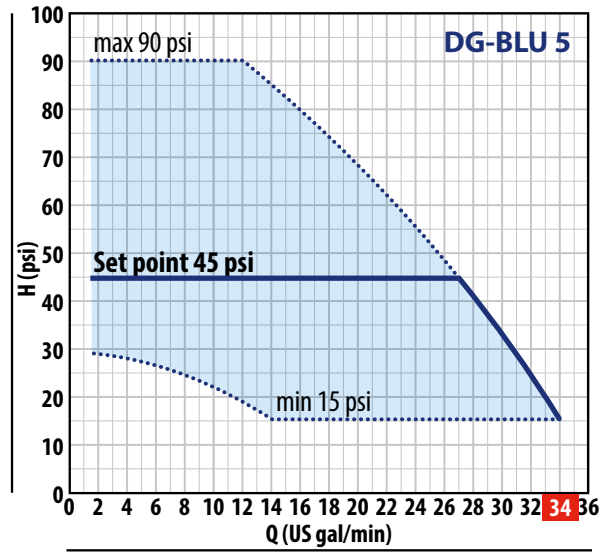
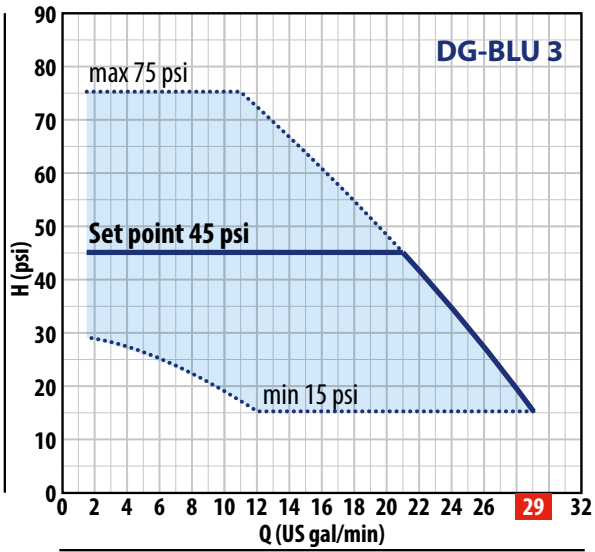
Q = Flow rate H = Total manometric head

▲ Efficiency three-phase motor (IEC 60034-30-1)

# DG-BLU

## PERFORMANCE CURVES

Q (US gal/min) H (psi)



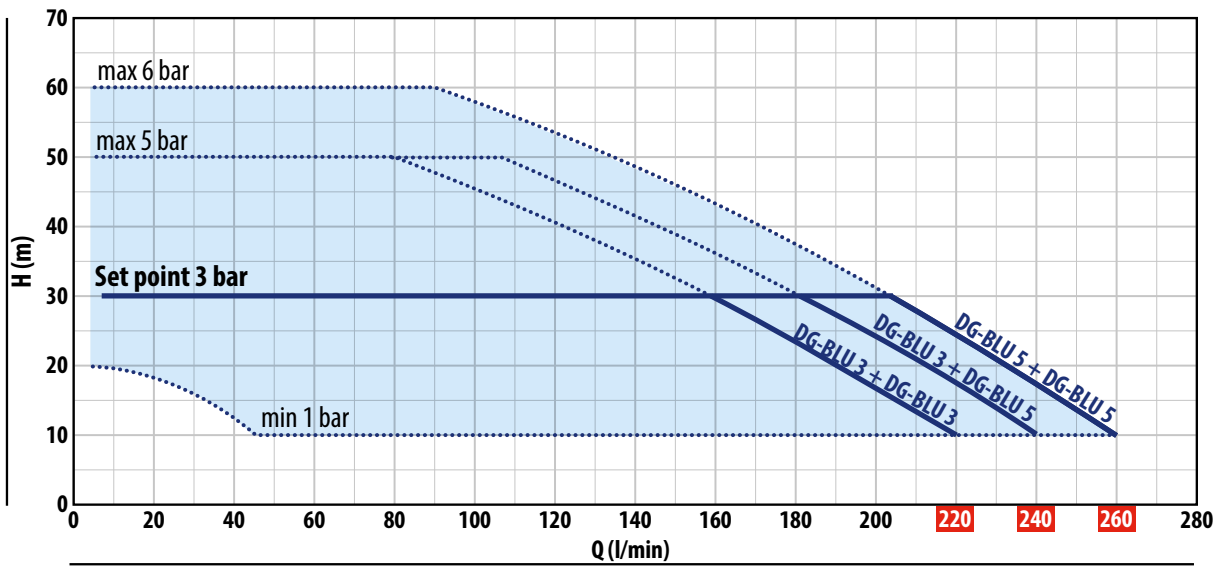
TYPE	POWER		PERFORMANCE	PERFORMANCE (ADJUSTABLE SET POINT)								
	P <sub>2</sub>			Q	H	Set Point Min		Set Point Calibration Std		Set Point Max		
Single-phase	kW	HP	▲	US gal/min	psi	psi	US gal/min	psi	US gal/min	psi	US gal/min	
DG-BLU 3	230 V	0.75	1	IE3	1.5 – 29	75 – 15	15	12 – 29	45	1.5 – 21	75	1.5 – 11
DG-BLU 5	230 V	1.1	1.5		1.5 – 34	90 – 15	15	14 – 34	45	1.5 – 27	90	1.5 – 12
DG-BLU 3 115/230 V	115 V	0.55	0.75		1.5 – 17	75 – 15	15	5 – 17	45	1.5 – 10.5	75	1.5 – 4.8
	230 V	0.75	1		1.5 – 21	75 – 15	15	5 – 21	45	1.5 – 14	75	1.5 – 8

Q = Flow rate H = Total manometric head

▲ Efficiency three-phase motor (IEC 60034-30-1)

## PERFORMANCE CURVES FOR A GROUP OF TWO DG-BLU UNITS

Q (l/min) H (m)



TYPE	POWER			PERFORMANCE		PERFORMANCE (ADJUSTABLE SET POINT)					
	P <sub>2</sub>		▲	Q	H	Set Point Min		Set Point Calibration Std		Set Point Max	
Single-phase	kW	HP		l/min	metres	bar	l/min	bar	l/min	bar	l/min
DUAL DG-BLU 3+3	0.75+0.75	1+1	IE3	5 – 220	50 – 10	1.0	45 – 220	3.0	5 – 160	5.0	5 – 80
DUAL DG-BLU 3+5	0.75+1.1	1+1.5		5 – 240	50 – 10	1.0	45 – 240	3.0	5 – 181	5.0	5 – 107
DUAL DG-BLU 5+5	1.1+1.1	1.5+1.5		5 – 260	60 – 10	1.0	55 – 260	3.0	5 – 204	6.0	5 – 90

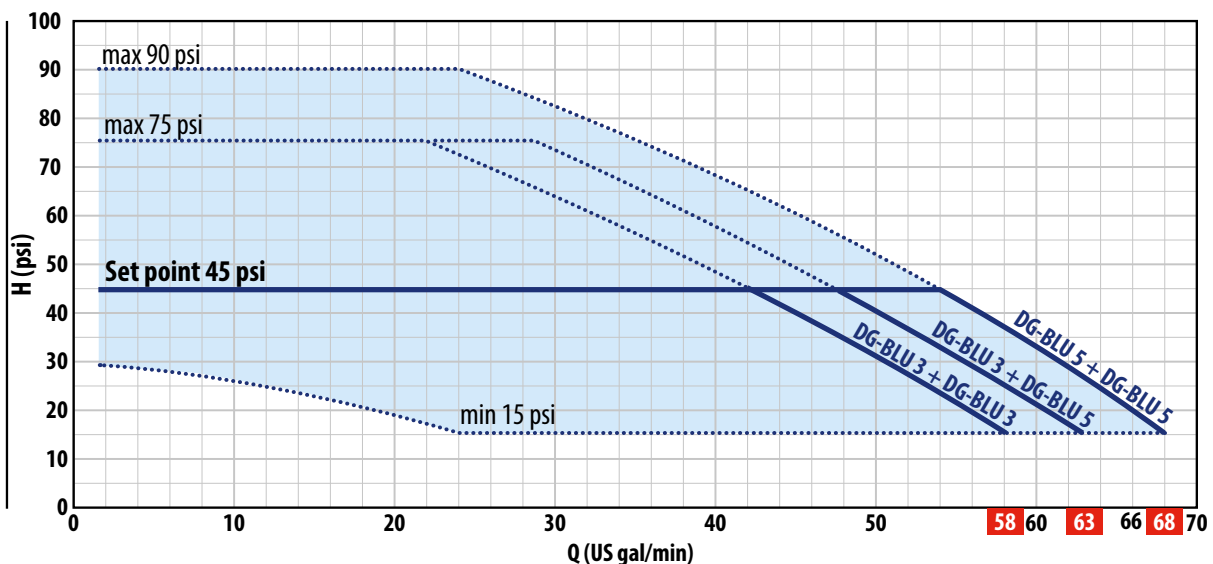
Q = Flow rate H = Total manometric head

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

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

## PERFORMANCE CURVES FOR A GROUP OF TWO DG-BLU UNITS

Q (US gal/min) H (psi)



TYPE	POWER			PERFORMANCE		PERFORMANCE (ADJUSTABLE SET POINT)					
	P <sub>2</sub>		▲	Q	H	Set Point Min		Set Point Calibration Std		Set Point Max	
Single-phase	kW	HP		US gal/min	psi	psi	US gal/min	psi	US gal/min	psi	US gal/min
DUAL DG-BLU 3+3	0.75+0.75	1+1	IE3	1.5 – 58	75 – 15	15	24 – 58	45	1.5 – 42	75	1.5 – 22
DUAL DG-BLU 3+5	0.75+1.1	1+1.5		1.5 – 63	75 – 15	15	24 – 63	45	1.5 – 48	75	1.5 – 29
DUAL DG-BLU 5+5	1.1+1.1	1.5+1.5		1.5 – 68	90 – 15	15	28 – 68	45	1.5 – 54	90	1.5 – 24

Q = Flow rate H = Total manometric head

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

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

# DG-BLU

## 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



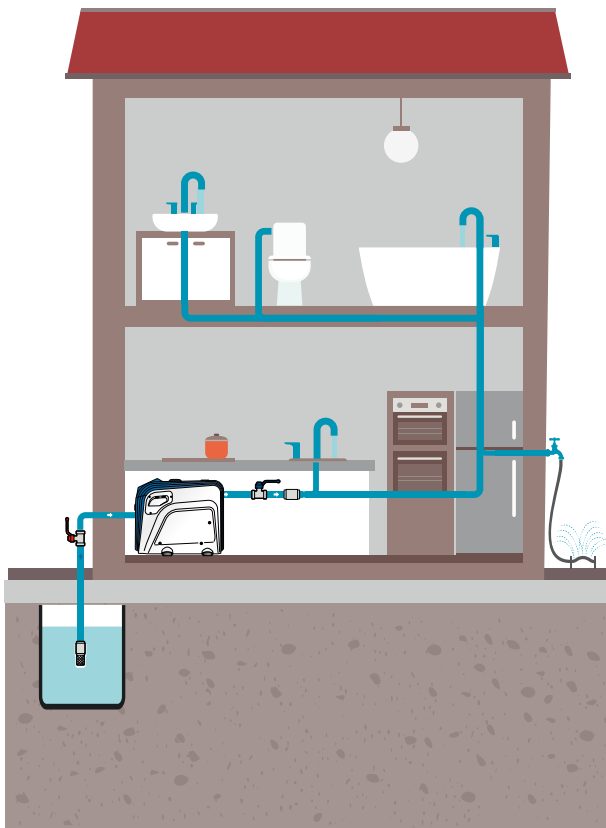
### INSTALLABLE ANYWHERE

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

## TYPICAL INSTALLATION

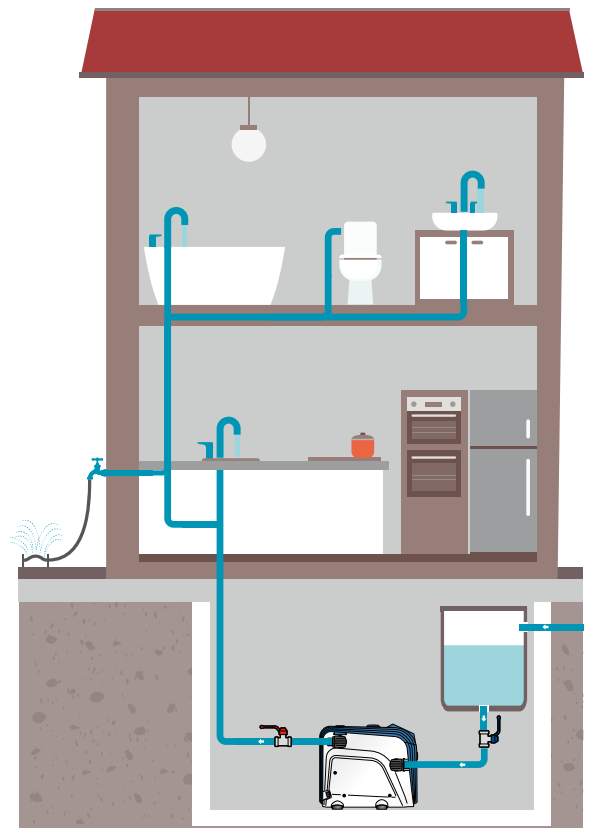
### ABOVE GROUND

(drawing from a shallow tank or well)

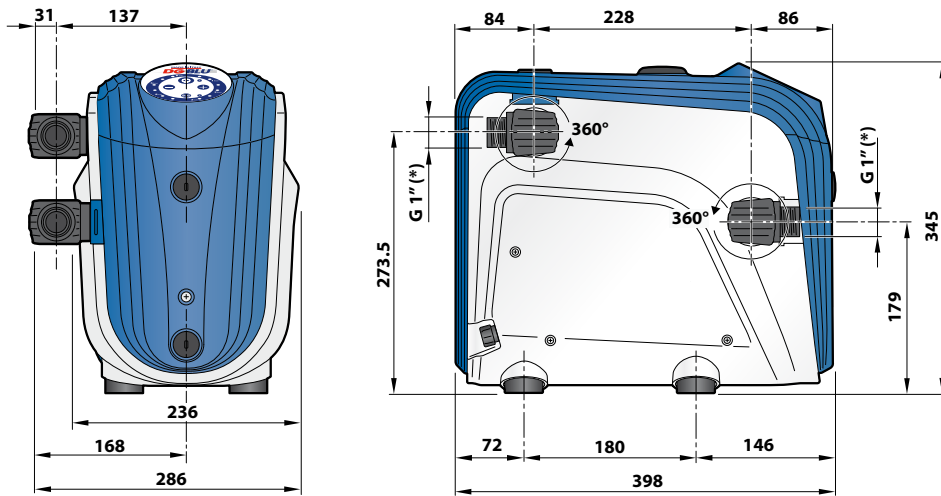


### BELOW GROUND

(tank or aqueduct)



**DIMENSIONS AND WEIGHTS (mm)**

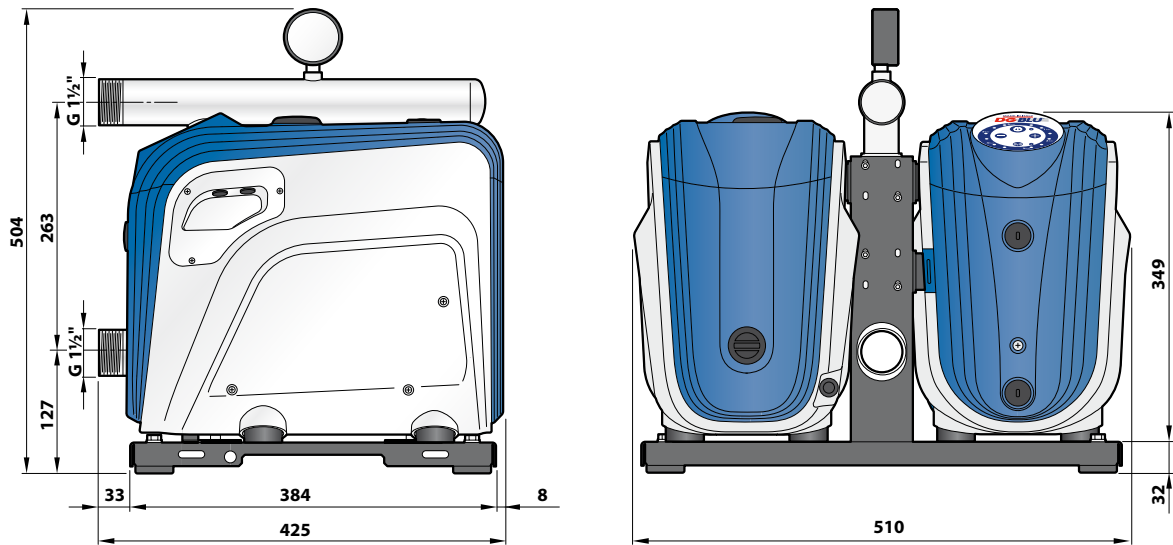


(\*) NPT on request



DG-BLU 3: 15 kg  
DG-BLU 5: 16 kg

**DUAL DG-BLU DIMENSIONS AND WEIGHTS (mm)**



DUAL DG-BLU 3+3: 43 kg  
DUAL DG-BLU 3+5: 44 kg  
DUAL DG-BLU 5+5: 45 kg

**OPTIONAL ACCESSORIES**



Connection kit for two DG-BLU units



Electronic expansion board



Kit for wall installation of a single DG-BLU



Wall installation kit of a two-unit group