

UP Series

Multi-stage submersible pumps



-  Clean water
(Maximum sand content 150 g/m³)
-  Domestic use
-  Civil use
-  Agricultural use

PERFORMANCE RANGE

- Flow rate up to **120 l/min** (7.2 m³/h)
- Head up to **67 m**

APPLICATION LIMITS

- Maximum liquid temperature **+40 °C**
- Maximum sand content **150 g/m³**
- **20 m** maximum immersion depth (with a sufficiently long power cable)
- Vertical and horizontal installation
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

- **10 m** long power cable
- Float switch for single-phase versions

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



PATENTS - TRADE MARKS - MODELS

- Patent n. EP14755156.8
- Patent n. IT0001428923
- Patent n. EP2419642.2

CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY



INSTALLATION AND USE

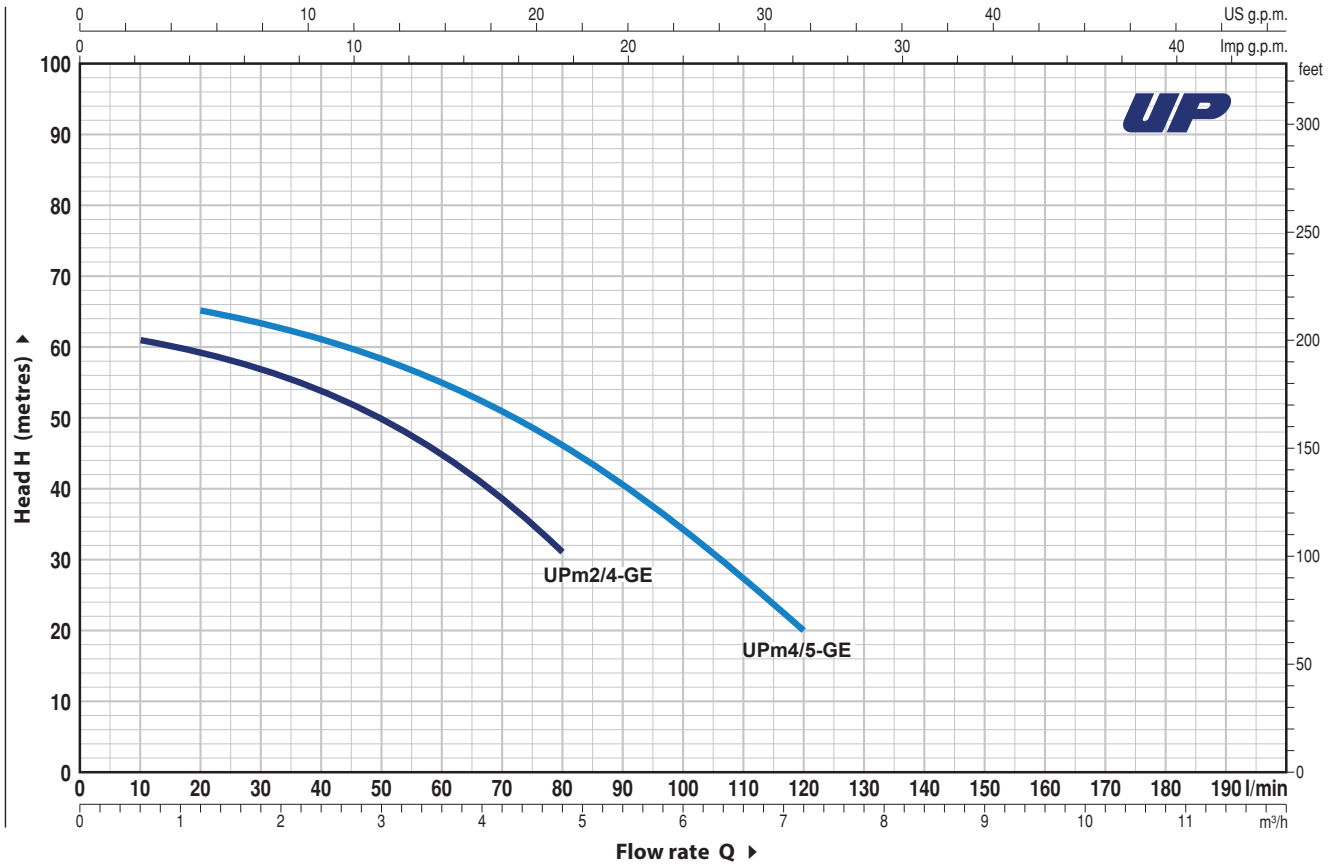
A new concept range of submersible multi-stage pumps designed guarantee even greater reliability, thanks to patented innovative technical solutions which prevent blockage of the pumps even after prolonged periods of inactivity.

Because of their high efficiency and reliability they are suitable for use with clean water in domestic, civil and agricultural applications such as the distribution of water in combination with pressure tanks, for the irrigation of gardens and orchards and for pressure boosting, etc.

2 Year Warranty

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹



MODEL	POWER (P ₂)		Q	Flow rate											
	kW	HP		0	0.6	1.2	2.4	3.6	4.8	6.0	7.2				
UPm 2/4-GE	0.75	1	H metres	63	61	59	54	45	31						
UPm 4/5-GE	1.1	1.5		67	-	65	61.5	55	46.5	34	20				

Q = Flow rate H = Total manometric head Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

⇒ Single-phase pumps without float switch on request

UP Series

POS. COMPONENT

CONSTRUCTION CHARACTERISTICS

1	EXTERNAL SLEEVE	Stainless steel AISI 304 complete with threaded delivery port in compliance with ISO 228/1
2	MOTOR SLEEVE	Stainless steel AISI 304
3	IMPELLERS AND DIFFUSERS	Noryl FE1520PW
4	DIAPHRAGMS	Stainless steel AISI 304
5	MOTOR SHAFT	Stainless steel AISI 431

6 TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER

<i>Seal Model</i>	<i>Shaft Diameter</i>	<i>Position</i>	<i>Materials</i>		
			<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
STA-17	Ø 17 mm	Motor side	Ceramic	Graphite	NBR
ST1-16	Ø 16 mm	Pump side	Silicon carbide	Graphite	NBR

7 BEARINGS 6303 2RS - C3 / 6203 ZZ - C3E

8 CAPACITOR

<i>Pump</i>	<i>Capacitance</i>	
<i>Single-phase</i>	<i>(230 V or 240 V)</i>	<i>(110 V)</i>
UPm 2/4-GE	20 µF - 450 VL	–
UPm 4/5-GE	25 µF - 450 VL	–

9 ELECTRIC MOTOR

UPm: single-phase 230 V - 50 Hz
with thermal overload protector incorporated into the winding.

- Insulation: class F
- Protection: IP X8

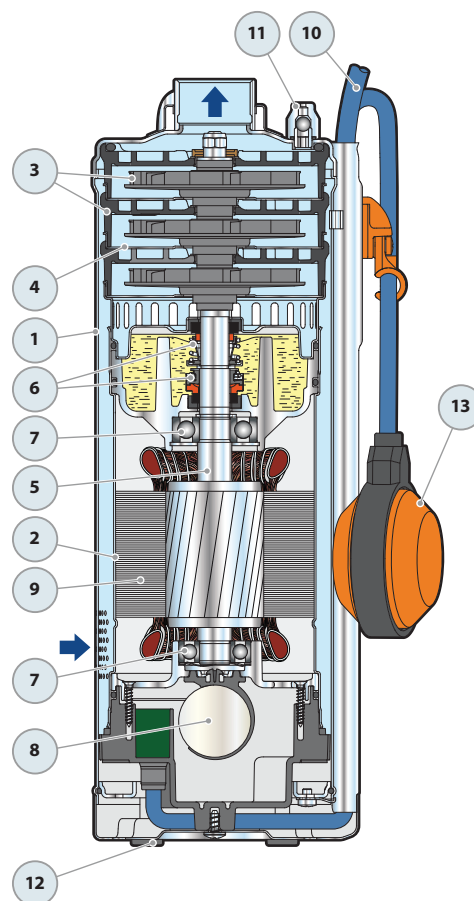
10 POWER CABLE

⇒ **DRINCABLE® type**
approved for use in drinking water by "WRAS"
in compliance with BS 6920, approval n. 7513
Standard length 10 metres

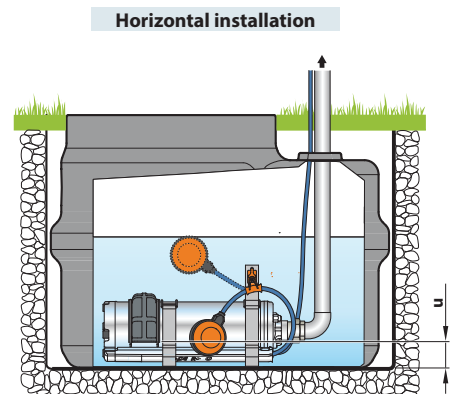
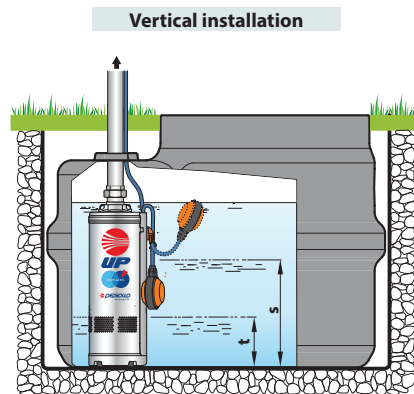
11 AUTOMATIC VENT VALVE

12 ANTI-VIBRATION SUPPORTS

13 FLOAT SWITCH



DIMENSIONS AND WEIGHT



MODEL	PORT DN	N. STAGES	DIMENSIONS mm		kg	LEVELS mm		
			Ø	h		s	t	u
UPm 2/4-GE	1¼"	4	150	482	14.8	350	135	55
UPm 4/5-GE		5		509				

s = Minimum restarting level
t = Emptying level
u = Minimum operational level

PALLETIZATION

MODEL	GROUPAGE/CONTAINER
	n. pumps
UPm 2/4-GE	30
UPm 4/5-GE	25

ABSORPTION

MODEL	VOLTAGE
	240 V
UPm 2/4-GE	6.0 A
UPm 4/5-GE	6.9 A