UP Multi-stage submersible pumps

Clean water

Domestic use

Civil use

Agricultural use

PERFORMANCE RANGE

- Flow rate up to **200 l/min** (12 m^3/h)
- Head up to **92 m**

INSTALLATION AND USE

A series of multi-impeller submersible pumps engineered for enhanced reliability, thanks to innovative patented solutions that prevent stalling even after prolonged periods of inactivity.

Highly efficient and reliable, these pumps are ideal for various applications, including water distribution in domestic, civil, and agricultural settings, particularly for water distribution in conjunction with pressure tanks, for irrigation, pressure boosting, and more.

APPLICATION LIMITS

- Liquid temperature up to **+40 °C**
- Maximum sand content **150 g/m^3**
- Maximum operating depth below water level up to **20 m** (with an appropriately sized power cable)
- Vertical and horizontal operation

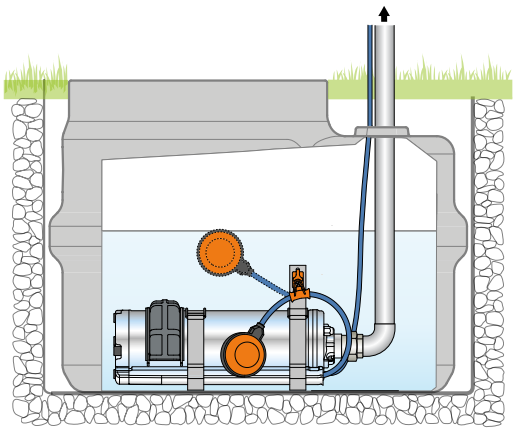
INCLUDES

※ Float switch (exclusive to single-phase models)
※ Power cable length **10 m**

AVAILABLE UPON REQUEST

※ Pumps without float switch
※ **20 m** or **30 m** power cables
※ Different voltage or frequency

※ **Support kit for horizontal operation**

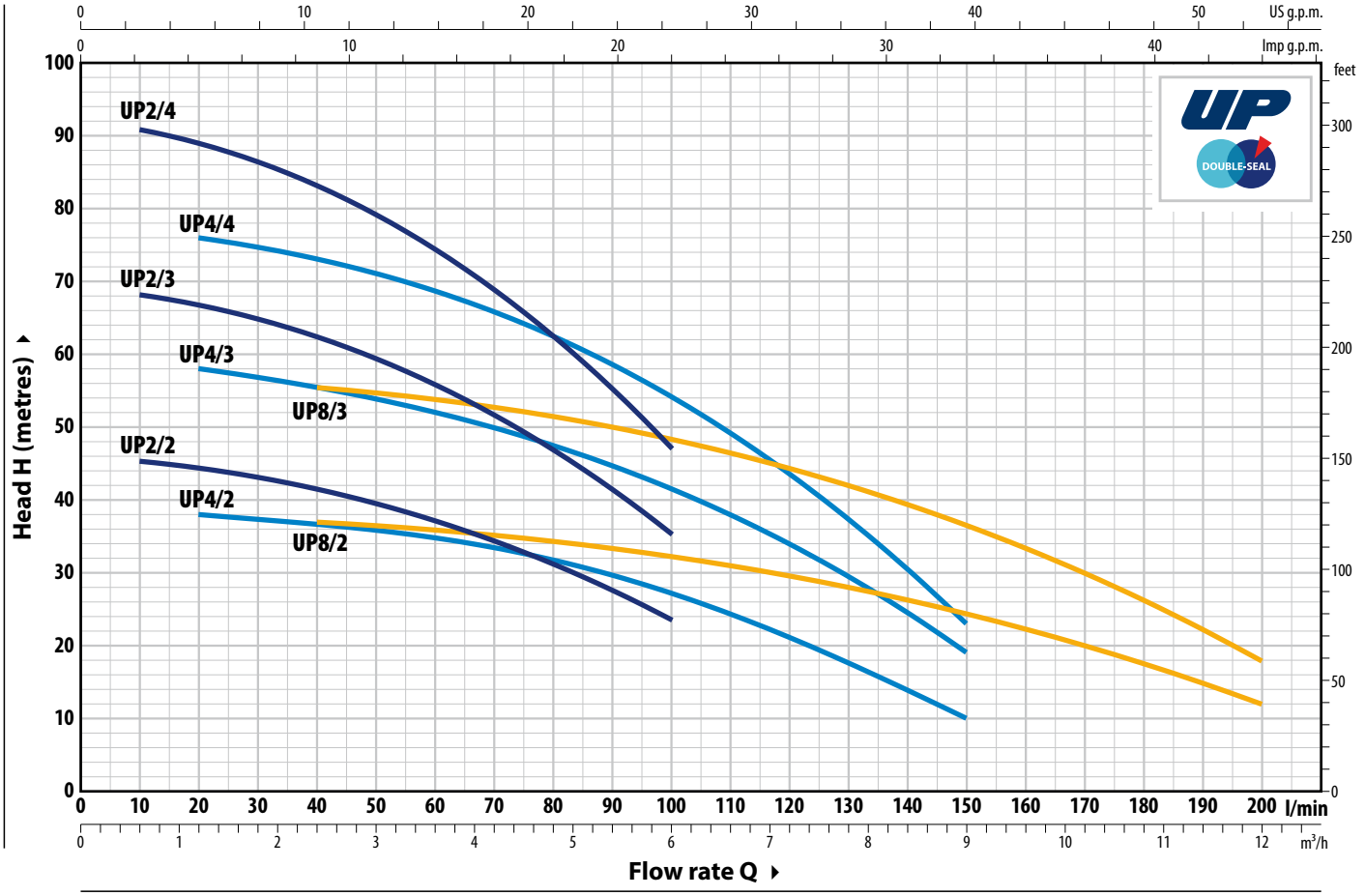


PATENTS - TRADE MARKS - MODELS

- Patent No. IT0001428923
- Patent No. EP2419642

CURVES AND PERFORMANCE DATA

60 Hz



MODEL		POWER (P2)		Q	m³/h	0	0.6	1.2	2.4	3.6	4.8	6.0	7.2	9.0	10.2	12
Single-phase	Three-phase	kW	HP		l/min	**0**	**10**	**20**	**40**	**60**	**80**	**100**	**120**	**150**	**170**	**200**
UPm 2/2-GE	**UP 2/2**	0.75	1			46	45.5	44.5	41.5	37	31	23.5				
UPm 2/3-GE	**UP 2/3**	1.1	1.5			69	68	66.5	62.5	55.5	47	35				
UPm 2/4-GE	**UP 2/4**	1.5	2			92	91	89	83	74	62.5	47				
UPm 4/2-GE	**UP 4/2**	0.75	1	**H**	m	40	–	38	36.5	35	32	27	21	10		
UPm 4/3-GE	**UP 4/3**	1.1	1.5			60	–	58	55.5	52	47.5	41.5	34	19		
UPm 4/4-GE	**UP 4/4**	1.5	2			78	–	76	73	68.5	62.5	54	43.5	23		
UPm 8/2-GE	**UP 8/2**	1.1	1.5			38	–	–	37	36	34.5	32.5	29.5	24.4	20	12
UPm 8/3-GE	**UP 8/3**	1.5	2			57	–	–	55.5	54	51.5	48.5	44.5	36.5	30	18

Q = Flow rate **H** = Total manometric head

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

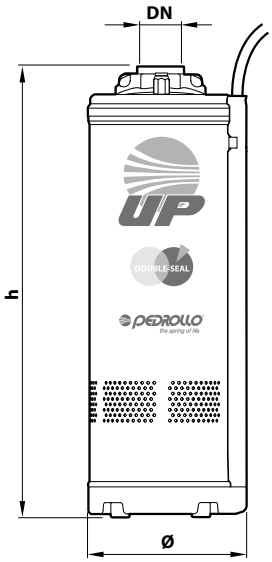
➠ On request single-phase pumps without float switch

ABSORPTION

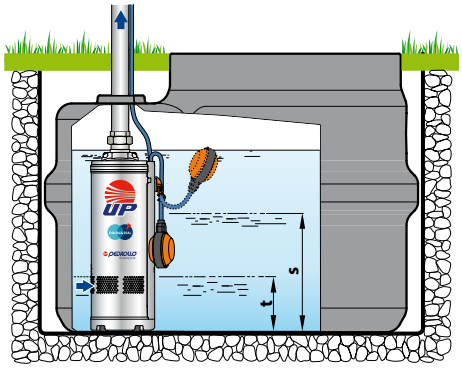
TYPE Single-phase	VOLTAGE 220 V
UPm 2/2-GE	5.6 A
UPm 2/3-GE	8.0 A
UPm 2/4-GE	10.0 A
UPm 4/2-GE	5.8 A
UPm 4/3-GE	7.7 A
UPm 4/4-GE	10.0 A
UPm 8/2-GE	8.0 A
UPm 8/3-GE	10.0 A

TYPE Three-phase	VOLTAGE 380 V
UP 2/2	2.3 A
UP 2/3	3.5 A
UP 2/4	4.1 A
UP 4/2	2.3 A
UP 4/3	3.5 A
UP 4/4	4.0 A
UP 8/2	3.5 A
UP 8/3	4.0 A

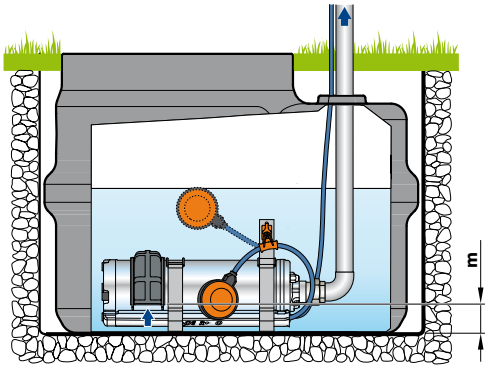
DIMENSIONS AND WEIGHT



VERTICAL INSTALLATION



HORIZONTAL INSTALLATION



MODEL		PORT	N. STAGES	DIMENSIONS mm		kg	
Single-ph.	Three-ph.	DN		Ø	h	1~	3~
UPm 2/2-GE	UP 2/2	1¼"	2	150	384	12.6	12.3
UPm 2/3-GE	UP 2/3		3		441	14.6	14.3
UPm 2/4-GE	UP 2/4		4		488	17.1	16.8
UPm 4/2-GE	UP 4/2		2		384	12.6	12.3
UPm 4/3-GE	UP 4/3		3		441	14.6	14.3
UPm 4/4-GE	UP 4/4		4		488	17.1	16.8
UPm 8/2-GE	UP 8/2		2		414	14.5	14.2
UPm 8/3-GE	UP 8/3		3		461	17.0	16.7

MODEL	LEVELS mm		
	s	t	m
UP 2/2 UP 4/2	310	113	55
UP 2/3 UP 4/3 UP 8/2	340		
UP 2/4 UP 4/4 UP 8/3	360		

s = Minimum restart level
t = Draining capability
m = Minimum operating level

PALLET CAPACITY

MODEL		GROUPAGE	CONTAINER
Single-ph.	Three-ph.	n. pumps	n. pumps
UPm 2/2-GE	UP 2/2	30	54
UPm 2/3-GE	UP 2/3	30	54
UPm 2/4-GE	UP 2/4	25	45
UPm 4/2-GE	UP 4/2	30	54
UPm 4/3-GE	UP 4/3	30	54
UPm 4/4-GE	UP 4/4	25	45
UPm 8/2-GE	UP 8/2	30	54
UPm 8/3-GE	UP 8/3	30	54

MATERIALS AND COMPONENTS

1	**Outer sleeve**	**AISI 304** stainless steel with ISO 228/1 threaded delivery port
2	**Internal motor jacket**	Stainless steel **AISI 304**
3	**Impellers and diffusers**	Noryl™
4	**Diaphragms**	Stainless steel **AISI 304**
5	**Motor shaft**	Stainless steel **AISI 431**

6 Double mechanical seal with interposed oil chamber

Seal	Shaft	Location	Materials
STA-17	Ø 17 mm	Motor side	Ceramic / Graphite /NBR
ST1-16	Ø 16 mm	Pump side	Silicon carbide / Graphite / NBR

7 Capacitor

8 Electric motor

UPm: single-phase 220 V - 60 Hz with winding integrated thermal motor protection
UP: three-phase 380 V - 60 Hz

- Continuous running duty S1
- Insulation: Class F
- Protection rating: IP X8

9 Power cord

➠ **DRINCABLE®** type
approved for use in drinking water by **WRAS**
according to BS 6920, approval no. 7513

※ Standard length 10 metres

10 Automatic vent valve

11 Anti-vibration feet

12 Float switch
(exclusive to single-phase models)