

# UP 4/5 universalpump

## Artikelnr Beteckning

111768 UP 4/5:1,1/3x400/G32

### Installation

Vikt 15,3 kg

Anslutning G32 inv

### Övrigt

Max Tryck 67 mVp

Max Flöde 120,0 l/min

### Elektrisk Data

Effekt 1,10 kW

Märkström 2,8 A

Spänning 3x400



### PEDROLLO 5" UP

universalpumpar är speciellt utformade för installation i en grävd brunn eller bassäng. Vattnet tvingas förbi motorn för att kyla, vilket gör det möjligt att installera i en större brunn eller tank. Pumpen suger vattnet in i pumphuset och cirkulerar vattnet runt motorn för att uppnå motorns kylningskrav. Vertikal och horisontell installation är möjlig.

UP pumpserien tillverkas med pumphjul i noryl, och övriga vätskeberörda delar i rostfritt stål för förbättrad driftsäkerhet och ökad prestanda.

Dubbla mekaniska tätningar i oljebad för ökad livslängd och driftsäkerhet.

### Snabbfakta:

- Pump- och motorhus av rostfritt stål
- Pumphjul av norylplast
- Installeras vertikalt eller horisontellt
- Utmärkt för grävda brunnar/bassäng
- Dubbla mekaniska tätningar

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min<sup>-1</sup>



MODEL		POWER (P <sub>2</sub> )		Q m <sup>3</sup> /h l/min	0	0.6	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8
Single-phase	Three-phase	kW	HP		0	10	20	40	60	80	100	120	140	160	180
UPm 2/2(-GE)	UP 2/2	0.37	0.5	H metres	33	32	31	28	23.5	17					
UPm 2/3(-GE)	UP 2/3	0.55	0.75		48	46	44.5	40.5	33.5	23					
UPm 2/4(-GE)	UP 2/4	0.75	1		63	61	59	54	45	31					
UPm 2/5(-GE)	UP 2/5	1.1	1.5		81	79	75.5	68.5	57.5	40					
UPm 2/6(-GE)	UP 2/6	1.5	2		95	93	90	82	68.5	48					
UPm 4/3(-GE)	UP 4/3	0.55	0.75		40	-	39	37	33	28	20.5	12			
UPm 4/4(-GE)	UP 4/4	0.75	1		53	-	52	49	44	37	27.5	16			
UPm 4/5(-GE)	UP 4/5	1.1	1.5		67	-	65	61.5	55	46.5	34	20			
UPm 4/6(-GE)	UP 4/6	1.5	2		80	-	78	74	66	56	41	24			
UPm 8/3(-GE)	UP 8/3	1.1	1.5		40	-	-	39	37.5	35.2	32	27.8	22.2	16	9
UPm 8/4(-GE)	UP 8/4	1.5	2	52	-	-	51	49.2	46.5	42	36.5	29.5	21.2	12	

Q = Flow rate H = Total manometric head

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

-GE = Single-phase pumps with float switch

**POS. COMPONENT CONSTRUCTION CHARACTERISTICS**

1	<b>EXTERNAL SLEEVE</b>	Stainless steel AISI 304 complete with threaded delivery port in compliance with ISO 228/1
2	<b>MOTOR SLEEVE</b>	Stainless steel AISI 304
3	<b>IMPELLERS AND DIFFUSERS</b>	Noryl FE1520PW
4	<b>DIAPHRAGMS</b>	Stainless steel AISI 304
5	<b>MOTOR SHAFT</b>	Stainless steel AISI 431
6	<b>TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER</b>	

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

7	<b>BEARINGS</b>	6303 2RS - C3 / 6203 ZZ - C3E
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8	<b>CAPACITOR</b>	
<b>Pump</b>	<b>Capacitance</b>	
<i>Single-phase</i>	<i>(230 V or 240 V)</i>	<i>(110 V)</i>
UPm 2/2(-GE)		
UPm 2/3(-GE)	16 µF - 500 VL	30 µF - 250 VL
UPm 4/3(-GE)		
UPm 2/4(-GE)	20 µF - 450 VL	-
UPm 4/4(-GE)		
UPm 2/5(-GE)		
UPm 4/5(-GE)	25 µF - 450 VL	-
UPm 8/3(-GE)		
UPm 2/6(-GE)		
UPm 4/6(-GE)	35 µF - 450 VL	-
UPm 8/4(-GE)		

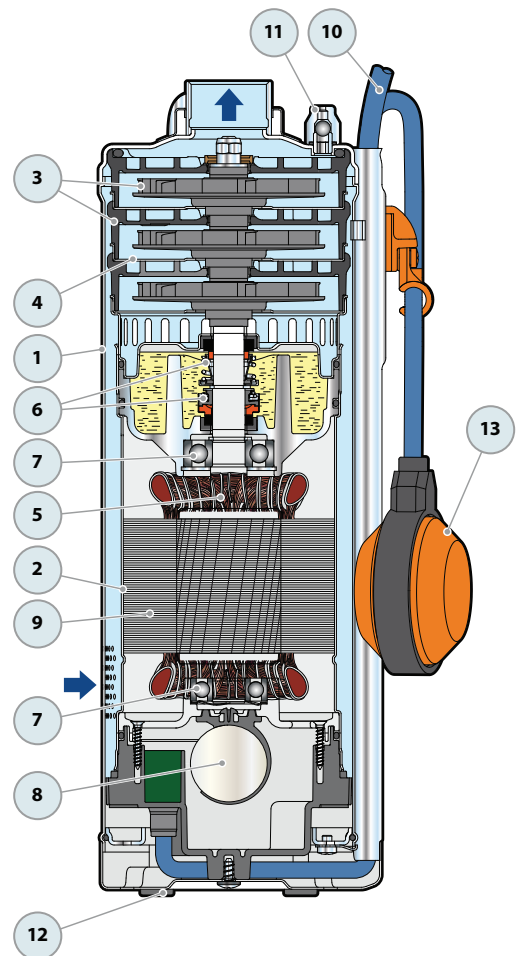
9	<b>ELECTRIC MOTOR</b>
UPm: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding.	
UP: three-phase 400 V - 50 Hz.	
- Insulation: class F	
- Protection: IP X8	

10	<b>POWER CABLE</b>
DRINCABLE® type approved for use in drinking water by "WRAS" in compliance with BS 6920, approval n. 7513 Standard length 10 metres	

11	<b>AUTOMATIC VENT VALVE</b>
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12	<b>ANTI-VIBRATION SUPPORTS</b>
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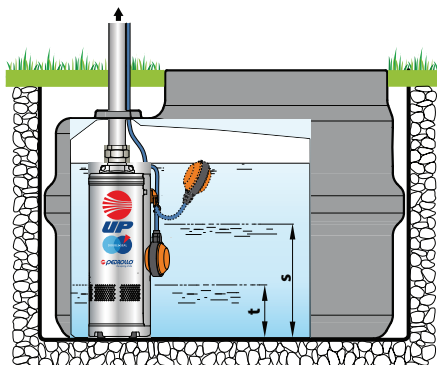
13	<b>FLOAT SWITCH</b> (only for single-phase versions)
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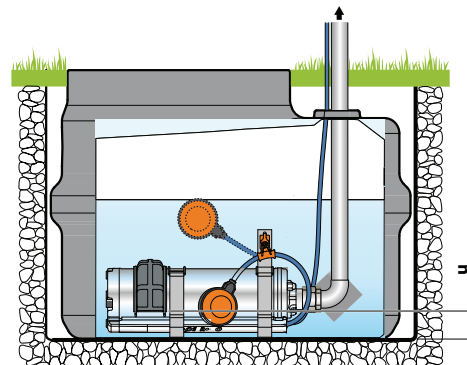
## DIMENSIONS AND WEIGHT



Vertical installation



Horizontal installation



MODEL		PORT DN	N. STAGES	DIMENSIONS mm		kg	
Single-phase	Three-phase			Ø	h	1~	3~
UPm 2/2(-GE)	UP 2/2	1 1/4"	2	150	398	12.8	12.5
UPm 2/3(-GE)	UP 2/3		3		425	13.1	13.1
UPm 2/4(-GE)	UP 2/4		4		482	14.8	13.7
UPm 2/5(-GE)	UP 2/5		5		509	16.4	15.1
UPm 2/6(-GE)	UP 2/6		6		556	18.0	16.6
UPm 4/3(-GE)	UP 4/3		3		425	12.9	12.9
UPm 4/4(-GE)	UP 4/4		4		482	14.6	13.5
UPm 4/5(-GE)	UP 4/5		5		509	16.2	15.3
UPm 4/6(-GE)	UP 4/6		6		556	18.1	16.9
UPm 8/3(-GE)	UP 8/3		3		455	15.2	13.8
UPm 8/4(-GE)	UP 8/4		4		502	17.0	15.5

MODEL	LEVELS mm		
	s	t	u
UP 2/2 UP 2/3 UP 4/3	320	135	55
UP 2/4 UP 2/5 UP 4/4 UP 4/5 UP 8/3	350		
UP 2/6 UP 4/6 UP 8/4	370		

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

## ABSORPTION

MODEL	VOLTAGE		
	230 V	240 V	110 V
Single-phase	230 V	240 V	110 V
UPm 2/2(-GE)	4.4 A	4.2 A	8.8 A
UPm 2/3(-GE)	5.4 A	5.2 A	10.8 A
UPm 2/4(-GE)	6.2 A	6.0 A	-
UPm 2/5(-GE)	7.6 A	7.3 A	-
UPm 2/6(-GE)	8.8 A	8.5 A	-
UPm 4/3(-GE)	5.0 A	4.8 A	10.0 A
UPm 4/4(-GE)	6.2 A	5.9 A	-
UPm 4/5(-GE)	7.2 A	6.9 A	-
UPm 4/6(-GE)	8.7 A	8.4 A	-
UPm 8/3(-GE)	6.8 A	6.5 A	-
UPm 8/4(-GE)	8.5 A	8.4 A	-

MODEL	VOLTAGE			
	230 V	400 V	240 V	415 V
Three-phase	230 V	400 V	240 V	415 V
UP 2/2	2.8 A	1.6 A	2.7 A	1.5 A
UP 2/3	3.3 A	1.9 A	3.2 A	1.8 A
UP 2/4	4.0 A	2.3 A	3.9 A	2.2 A
UP 2/5	5.0 A	2.9 A	4.9 A	2.8 A
UP 2/6	5.7 A	3.3 A	5.5 A	3.2 A
UP 4/3	3.2 A	1.8 A	3.1 A	1.7 A
UP 4/4	3.8 A	2.2 A	3.7 A	2.1 A
UP 4/5	4.9 A	2.8 A	4.7 A	2.7 A
UP 4/6	5.6 A	3.2 A	5.4 A	3.1 A
UP 8/3	5.0 A	2.9 A	4.9 A	2.8 A
UP 8/4	5.7 A	3.3 A	5.5 A	3.2 A