

WDROO SERIES

WUP, WRAIN 50Hz/60Hz

Lightweight
Stainless Steel
Drainage Pumps

Operation
Manual



hydroo[®]

HYDROO Pump Industries SL

DECLARATION OF CONFORMITY

Name of manufacturer or supplier

HYDROO PUMP INDUSTRIES, S.L.

Full postal address including country of origin

C/ La Banyeta Nova, 11 - P.I. La Banyeta, 17843 Palol de Revardit (Girona) - Catalonia - Spain

Description of product

WRAIN and WUP are submersible sewage pumps used for pumping liquids as rain water, waste water and long fabrics.

Name, type or model, batch or serial number

Name: WRAIN and WUP Submersible sewage pumps
Model: WRAIN and WUP Series

Standards used, including number, title, issue date and other relative documents

Machinery directive 2006/42/EC	Low Voltage Directive 2014/35/EU
- Standard: EN809:1998 + A1:2009	- Standards: 60335-1:2012
Ecodesign Directive 2009/125/EC	60335-2-41:2003
- Commission Regulation 547/2012	EMC Directive 2014/30/EU
	- Standard: 60034-1:2010

Place of Issue

Palol de Revardit, Spain

Name of authorised representative

Miquel Coma

Position of authorised representative

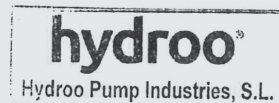
General manager

Declaration

I declare that as the authorised representative, the above information in relation to the supply / manufacture of this product, is in conformity with the provisions of the above Directives. For the most specific risks of this machine, safety and compliance with the essential requirements of the Directive has been based on elements of the above standards.

Authorized representative

Miquel Coma
CEO



CONTENTS

I. SYMBOLS USED IN THIS DOCUMENT	4
II. MODEL DEFINITION	5
III. TECHNICAL PARAMETER	5
IV. SIMPLIFIED DRAWING AND INSTALLATION DIMENSIONS	6
V. APPLICATIONS	7
VI. INSTALLATION	8
VII. HOW TO CHECK THE DIRECTION OF ROTATION	8
VIII. OPERATION	8
IX. PUMP OPERATION	9
X. MAINTENANCE	9
XI. FAULT FINDING AND TROUBLE SHOOTING	10

Prior to installation, read these installations and operating instructions. Installation and operation must comply with local regulations and accepted codes of good practice.

WARNING:



The use of this product requires experience with and knowledge of the product. Persons with reduced physical, sensory or mental capabilities must not use this product, unless they are under supervision or have been instructed in the use of the product by a person responsible for their safety. Children must not use or play with this product.

I. SYMBOLS USED IN THIS DOCUMENT

WARNING:



If these safety instructions are not observed, it may result in personal injury.

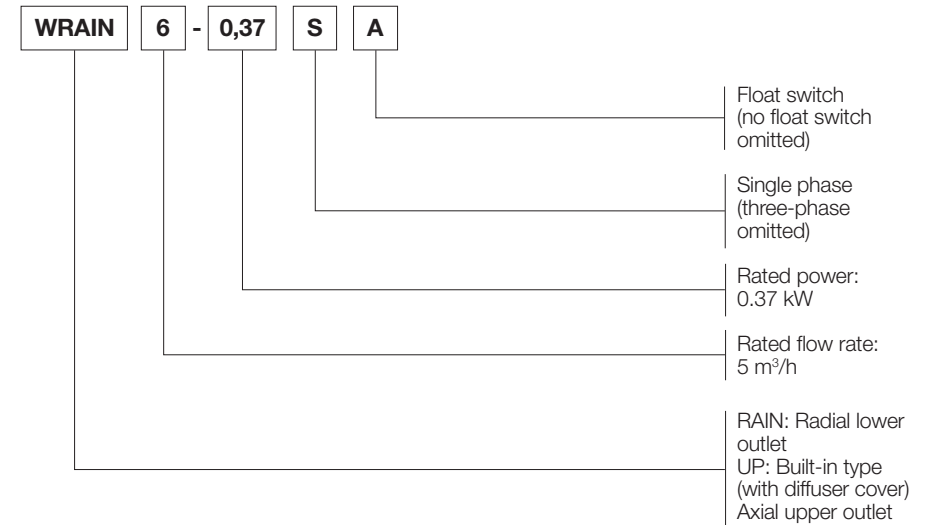
CAUTION

If these safety instructions are not observed, it may result in malfunction or damage to the equipment.

NOTE

Notes or instructions that make the job easier and ensure safe operation.

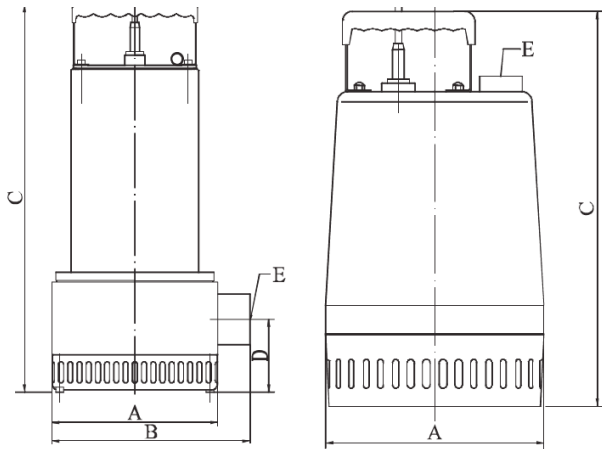
II. MODEL DEFINITION



III. TECHNICAL PARAMETER

Model	kw	Q (m ³ /h)	H (m)	Options*			Amperage (A)	Outlet mm
				S	T	A		
WUP3-018	0.2	3	7	•		•	1.7	G1.25"F
WUP5-025	0.3	5	5	•		•	2.0	G1.25"F
WUP7-055	0.6	7	9.5	•	•	•	5.0	G1.5"F
WUP10-075	0.8	10	9	•	•	•	5.4/2.0	G1.5"F
WUP12-110	1.1	12	9	•	•	•	6.5/2.6	G1.5"F
WUP15-110	1.1	15	7	•	•	•	6.5/2.6	G1.5"F
WRAIN6-037	0.4	6	9	•		•	4.2	G1.5"F
WRAIN7-075	0.8	7	15	•	•	•	5.4/2.0	G2"F
WRAIN11-055	0.6	11	9	•	•	•	5.0/1.7	G1.5"F
WRAIN16-075	0.8	16	9	•	•	•	5.4/2.0	G1.5"F
WRAIN20-110	1.1	20	9	•	•	•	6.5/2.6	G2"F
WRAIN28-150	1.5	28	6	•	•	•	8.0/3.6	G2"F

IV. SIMPLIFIED DRAWING AND INSTALLATION DIMENSIONS



Model	A mm	B mm	C mm	D mm	E	Packaging mm	Weight Kg
WUP3-018	130	-	280	-	G1.25"F	170x190x300	6
WUP5-025	150	-	290	-	G1.25"F	200x200x340	7
WUP7-055	220	-	360	-	G1.5"F	230x270x380	14
WUP10-075	220	-	380	-	G1.5"F	230x270x400	14
WUP12-110	220	-	380	-	G1.5"F	230x270x400	16
WUP15-110	220	-	380	-	G1.5"F	230x270x400	16
WRAIN6-037	170	195	360	68	G1.5"F	170x240x390	12
WRAIN7-075	170	195	385	68	G2"F	170x240x420	14
WRAIN11-055	170	195	360	68	G1.5"F	170x240x390	13
WRAIN16-075	170	195	385	68	G1.5"F	170x240x420	14
WRAIN20-110	170	195	385	68	G2"F	170x240x420	23
WRAIN28-150	170	210	405	68	G2"F	170x240x420	23

V. APPLICATIONS

- Garden irrigation, cultivation, municipal flood drainage and fountain
- Sea water or similar as water which contains normal corrosive liquid
- Drainage for river or lake water, rain water...



WARNING:

Do not use the pump in or at swimming pools, gardens ponds, etc. when there are persons in the water.

5.1. Pumped liquids

The pump is not suitable for these liquids:

- Liquid containing long fibres
- Inflammable liquids (oil, petrol, etc)
- Aggressive liquids.

5.2. Operating conditions

- Submersible pump, max. submerged depth is 5 m
- Pumped liquid: 40 °C
- The sand containing percentage or not dissolved solid volume is less than 0.1%, solid diameter is less than 0.2 mm.
- Motor: insulation class F, protection class: IP68
- Single phase pump, built in protection
- PH range 4-10
- Others: Standard cable length is 10 m, flow switch is optional for single phase pump.

NOTE

The pump contains approx. 70 ml of non-toxic rotor liquid which will be mixed with the pumped liquid in case of a leak.

VI. INSTALLATION

NOTE

Do not install the pump hanging from the electric cable or the discharge pipe. Do not lower or lift the pump by means of the electric cable. Lift the pump using the pipe/hose or a rope secured to the pump handle.

VII. HOW TO CHECK THE DIRECTION OF ROTATION

If the pump is connected to a piping system, carry out the check of direction of rotation in this way:

1. Start the pump and check the quantity of water.
2. Stop the pump and interchange two phases in the mains connection.
3. Start the pump and check the quantity of water.
4. Stop the pump.
5. Compare the results taken under points 1 and 3. The largest quantity of water indicates the correct direction of rotation.

VIII. OPERATION

The pump will start and stop automatically, depending on the liquid level and the cable length of the float switch.

Forced operation

If the pump is used for draining liquid below the stop level of the float switch, the float switch can be held in a higher position by fastening it to the pump discharge pipe.

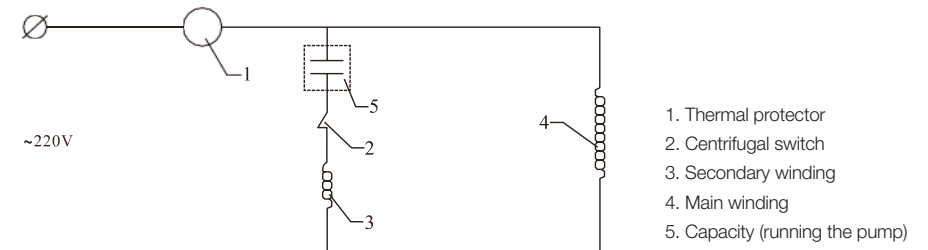
During forced operation, the liquid level should be checked regularly to avoid dry running.

IX. PUMP OPERATION

- The pump shall be submerged 2/3 for long time operation.
- The submerged depth shall be less than 5 min.
- The lead cable of single phase pump is three-core rubber covered cables, one of them yellow-green cable is grounding cable, for safety, the grounding cable shall be connected safely. At the same time, MUST NOT connect the three-core cables to THREE phase power supply.
- When running, if the pump suddenly stopped, or pumped water reduced, or there is a noise, must shut off immediately, stop the pump, check the pump, find the reason, after trouble solved, then switch on to use.
- Because the thermal protection is built-in the pump, when running, if the pump stopped suddenly after running again, if most part of the pump is running on the water, the pump was overload or pump temperature is high, the thermal protection will take action, it will shut off the power supply, no need to worry, after some time, when the motor temperature decrease, the thermal protection will be reset automatically, will continue to run the pump, it is normal. If there is other trouble, or the pump start-stop, start-stop repeatedly, shall shut off the power supply, check the trouble reason, after trouble solved, then run the pump.

X. MAINTENANCE

- When the pump will be not used for long time, the pump shall not be submerged in water for long time, it shall be lifted, clean it, paint with rust prevention oil. Put it in the well ventilated and dry room.
- Must check pump power cables usually, check if cracking, if cracking, need to replace it immediately.
- The two faces mechanical seal, after ran 500 hours, need to replace the oil in the oil chamber with 10# machine oil.
- When repair pump or replace parts, connect as below, must not connect wrongly.



hydroo®

Be pumping partners

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subject to amendments

