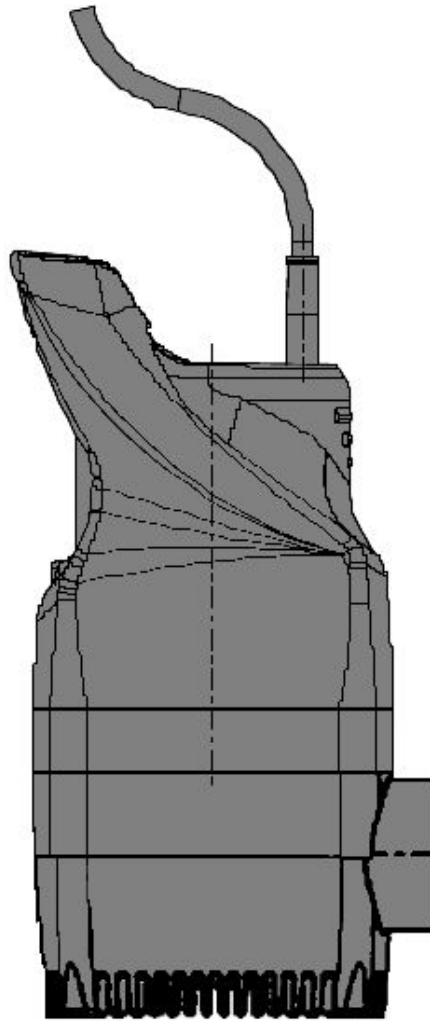
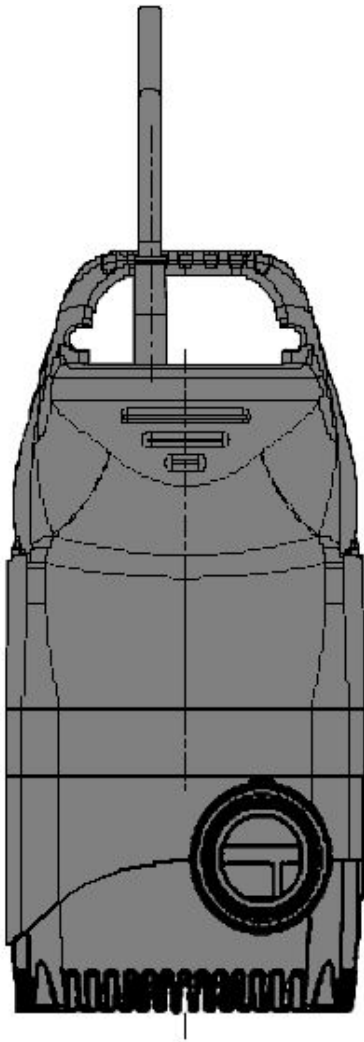


NOVA



OWNER'S MANUAL

DECLARATION OF CONFORMITY

(IT) DICHIARAZIONE DI CONFORMITÀ CE

Noi, **DAB Pumps S.p.A. - Via M.Polo, 14 – Mestrino (PD) – Italy**,
dichiariamo sotto la nostra esclusiva responsabilità che i prodotti ai quali questa di-
chiarazione si riferisce sono conformi alle
seguenti direttive:

- **2006/95/CE (Low Voltage Directive)**
- **2004/108/CE (Electromagnetic Compatibility Directive)**
- **2011/65/EU (Restriction of the use of certain hazardous substances in electrical and electronic equipment)**

ed alle seguenti norme:

- **EN 60335-1 : 10 (Household and Similar Electrical Appliances – Safety)**
- **EN 60335-2-41 : 05 (Particular Requirements for Pumps)**

(US) DECLARATION OF CONFORMITY CE

We, **DAB Pumps S.p.A. - Via M.Polo, 14 – Mestrino (PD) – Italy**,
declare under our responsibility that the products to which this declaration refers are in conformity with the following directives:

- **2006/95/CE (Low Voltage Directive)**
- **2004/108/CE (Electromagnetic Compatibility Directive)**
- **2011/65/EU (Restriction of the use of certain hazardous substances in electrical and electronic equipment)**

and with the following standards:

- **EN 60335-1 : 10 (Household and Similar Electrical Appliances – Safety)**
- **EN 60335-2-41 : 05 (Particular Requirements for Pumps)**

Mestrino (PD), 01/01/2013

IT - Ultime due cifre dell'anno di apposizione della marcatura: **13**
US - Last two figures of the year in which the mark was applied: **13**



FRANCESCO SINICO
TECHNICAL DIRECTOR

1. SAFETY MEASURES



Before starting the pump, read this instruction booklet carefully.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

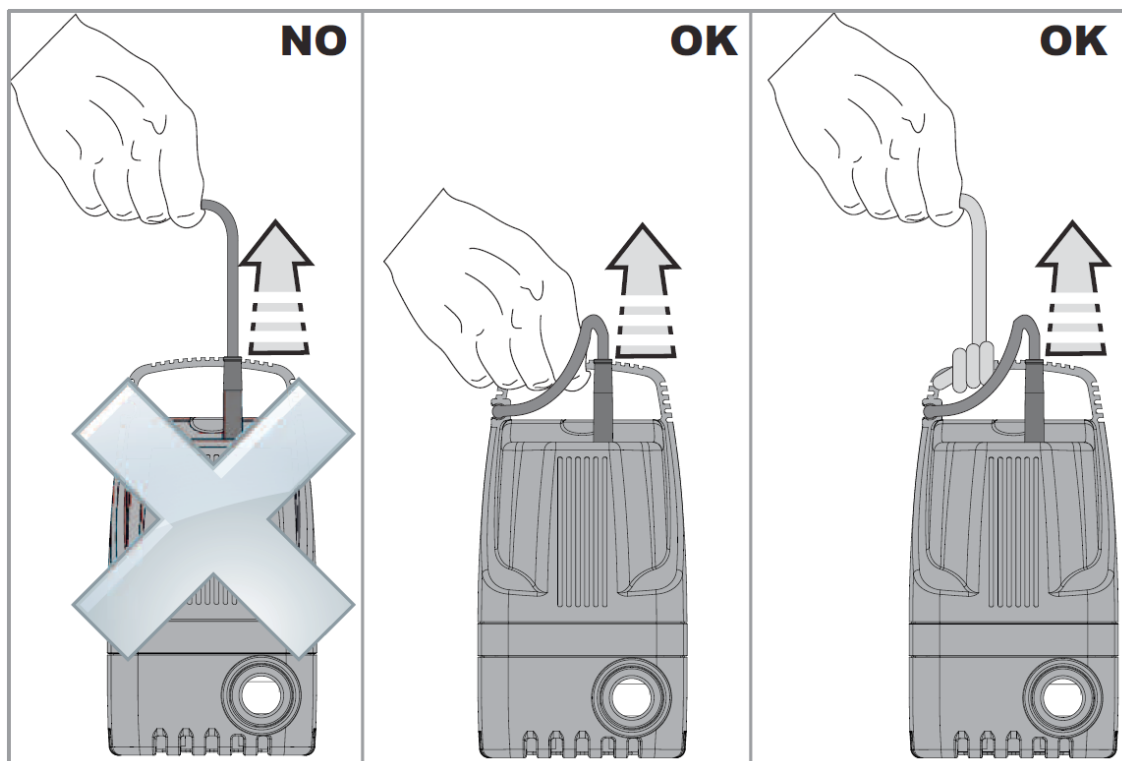
Children should be supervised to ensure that they do not play with the appliance.



A 10mA or 30mA Residual Current Device (GFI)) MUST be fitted to the mains supply of the pump only.



**The power cord must never be used to carry or move the pump.
Always use the pump's handle.**



Before taking any action on the pump, always remove the plug from the power socket.



Never remove the plug by pulling on the power cord.



If the power supply cord has been damaged, it must be replaced by the manufacturer or his authorized customer support service in order to avoid all risks.

1. SAFETY MEASURES



OVERLOAD PROTECTION:

The pump has a thermal overload safety device. In the event of any overheating of the motor, this device automatically switches off the pump. The cooling time is roughly 15 to 20 minutes, then the pump automatically comes on again. If the overload cutout is tripped, it is essential to identify and deal with the cause of the overheating. See Troubleshooting.

2. USE

Multi-purpose submersible pumps with a high degree of reliability and safety designed to circulate water in garden ponds, create water falls and play water features.

Designed to work in both horizontal and vertical installations

NOVA 4100 models are suitable to pump clean water, without fibres and with particles with maximum diam. 0.393" (10 mm).

- Circulating water in Garden ponds.
- Water falls.
- Fountains.
- Water features.

The temperature of the fluid being pumped must never exceed 95°F (35°C).



The pump must not be used to pump salty water, sewage, inflammable, corrosive or explosive liquids (e.g. petrol, fuel, diluents), greases, oils or foodstuffs.



If the power supply cord has been damaged, it must be replaced by the manufacturer or his authorized customer support service in order to avoid all risks.



Before starting the pump, make sure that:

- the voltage and frequency specified on the pump's nameplate coincide with those of the available power supply; these pumps are designed for 115 Volt / 60 Hz or 230Volt / 60Hz operation.
- there are no signs of damage to the pump or its power cord;
- the electric connection is made in a dry place, protected against any risk of flooding;
- Conformity with local and State electric codes is mandatory. The National Electric Code requires that a ground fault circuit interrupter (GFCI) be used in the branch circuit supplying sump, utility, effluent and all fountain pumps, pool pumps and other pond equipment. Consult a licensed electrician or your power company if in doubt.

Note: given the different provisions applicable to the safety of electric systems in different countries, make sure that the pump system, as concerns its intended use, is in accordance with current local or state legislation.

3. STARTING THE PUMP

Insert the plug on the power cord in a suitable power socket.

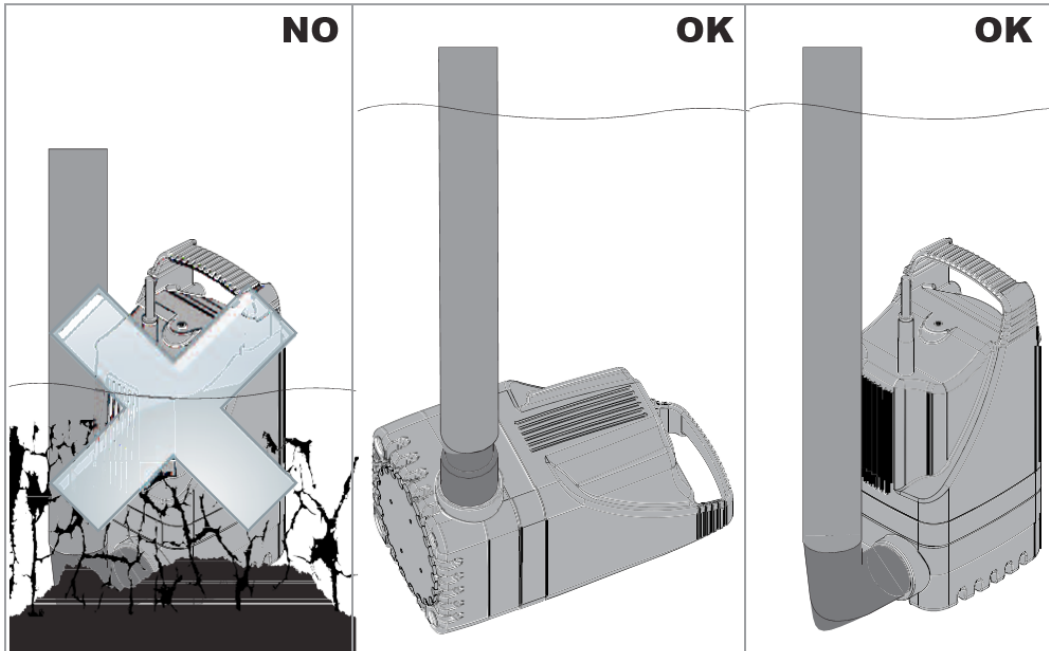


Start the pump. 20 times per hour Max.

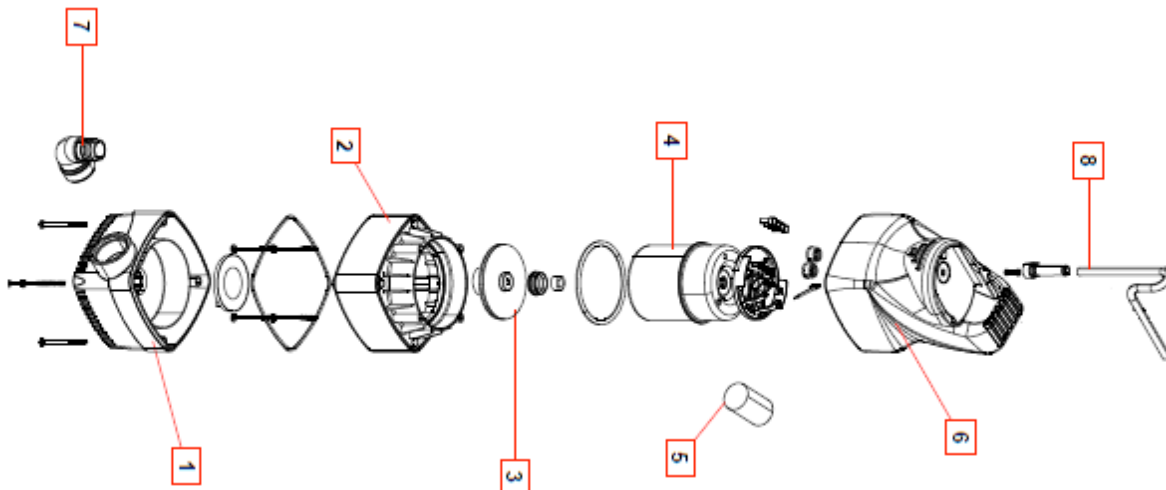
4. RECOMMENDATIONS

To ensure the proper operation of the pump, it is important to comply with the following recommendations:

- The pump must never be allowed to run dry.
- Never leave the pump in operation when the delivery pipe is clogged.
- Place the pump in a vertical or horizontal position on a flat surface at the bottom of the pond.
Care should be taken not to seat the intake of the pump directly into mud or pond debris as this may cause the strainer to initially block.



- The pump must only be used when it is immersed in water. If the water runs out, the pump must be stopped immediately by removing the plug from the power supply.
- It is absolutely essential to prevent any risk of the pump freezing. In the event of freezing temperatures, remove the pump from the liquid, empty it and keep it in a place where it cannot freeze.
- Check the pump installation regularly to ensure the base inlet is clear of debris and that water is flowing unrestricted. Occasionally it may be necessary to clean the water intake chamber. Unscrew the four screws from bottom plate (pos 1) from the main body (pos. 2). Thoroughly flush the inner cavity and impeller with clean water. Refit the base taking care not to damage the o-ring



5. TECHNICAL DATA

MODEL	POWER INPUT 60 Hz	P1 Max		P2		In A	Max Submersion
		HP	W	HP	W		
NOVA 4100	1 x 115~	0.9	670	0.5	380	7.1	22 ft
NOVA 4100	1 x 230~	0.9	670	0.5	380	3.2	22 ft

MODEL	A	B	H	DNM GAS	PACKING DIMENSIONS			CABLE LENGHT	WEIGHT lbs
					L	B	H		
NOVA 4100 16'	5.512	6.102	12.795	1" ¼	7.598	7.598	14.764	16 ft	14.8
NOVA 4100 100'	5.512	6.102	12.795	1" ¼	7.598	7.598	14.764	100 ft	15.9

6. GUARANTEE

Any material or manufacturing defects will be corrected during the guarantee period established by current law in the country where the product is purchased. It is up to the manufacturer to decide whether to repair or replace any faulty parts.

The manufacturer's guarantee covers all substantial defects attributable to manufacturing or material defects, providing the product has been used correctly and in compliance with the instructions.

The guarantee becomes null and void in the event of the following:

- unauthorized attempts to repair the appliance;
- unauthorized technical changes to the appliance;
- use of non-original spare parts;
- manhandling;
- inappropriate use, e.g. for industrial purposes.

The guarantee does not cover:

- parts liable to rapid wear and tear.

For any action under guarantee, contact an authorized customer support service, presenting your receipt for the purchase of the product.

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7. TROUBLESHOOTING



OVERLOAD PROTECTION:

The pump has a thermal overload safety device. In the event of any overheating of the motor, this device automatically switches off the pump. The cooling time is roughly 15 to 20 minutes, then the pump automatically comes on again. If the overload cutout is tripped, it is essential to identify and deal with the cause of the overheating. See Troubleshooting.

Fault	Possible causes	Solutions
The pump does not run.	Power cord unplugged.	Plug cord securely into the socket and check if there is voltage on the line.
	Impeller jammed.	Disconnect the power cord, disassemble hydraulic part and check if impeller is free to run.
Suction filter clogged.	Water level under the suction minimum.	Stop the pump. Reposition pump to ensure pump is always fully submerged.
	Air bubble in the pump, produced during the plunge.	Get the air out by plunging again the pump while in a tilted position and shake it with the discharge tube open
	Suction filter clogged.	Disconnect the power cord, clean the hydraulic part.
	Discharge tube clogged or obstructed.	Disconnect the power cord: take off the tube and clean it.
Suction filter clogged.	The thermal overload protection in the pump has activated.	Clean water intake area. Allow pump to cool for approximately 30 minutes.
	Water Temperature exceeds 95°F.	Maximum water temperature must not exceed 95°F.
	The pump ran dry	Reposition pump to ensure pump is always fully submerged.

DNA[®]

PUMPS SELECTOR



On-line selection tool



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