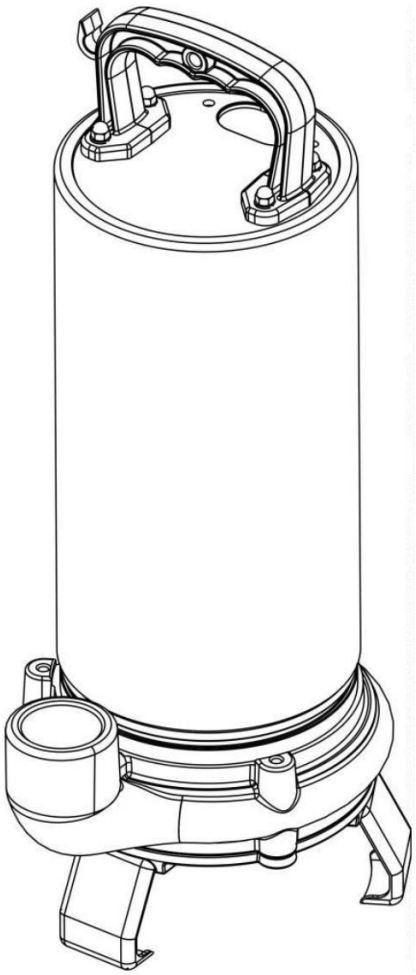
VIGICOR



EN Instruction manual

(Translation from the original Spanish)

EN: EVIDENCE OF CONFORMITY

We declare, under our responsibility, that the products in this manual comply with the following directives and standards:

- Directive 2006/42/EC (Machine Security):
Standard EN 809 and EN 60204-1
- Directive EMC 2014/30/EU (Electromagnetic compatibility):
Standard EN 61000-6-1 y EN 61000-6-3
- Directive 2014/35/EU (Low voltage):
Standard EN 60335-1, EN 60335-2-41
- Directive 2011/65/UE (Restriction of hazardous substances): Standard EN 50581.

UKCA CERTIFICATE OF CONFORMITY

EVIDENCE OF CONFORMITY

We declare, under our responsibility, that the products in this manual comply with the following directives and standards:

- Supply of Machinery (Safety) Regulations 2008: Standard BS 809 and BS 60204-1
- Electromagnetic Compatibility Regulations 2016: Standard BS 61000-6-1 and BS 61000-6-3.
- Electrical Equipment (Safety) Regulations 2016: Standard BS 60335-1 and BS 60335-2-41.
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012. Standard BS 50581.

Banyoles, August 05th 2022



Josep Unyó (Technical Manager)
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Girona - Spain

Damage prevention and safety instructions (See figure 3)

A	Warning! Observe limitations of use.
B	The name plate voltage must be the same as the mains voltage.
C	Connect the pump to the mains via an omnipolar switch with at least a 3 mm opening between contacts.
D	Install a high-sensitivity differential switch (0.03A) as extra protection against lethal electric shocks.
E	Connect the pump to the ground.
F	Use pump only within performance limits indicated on the name plate.
G	Be careful with hazardous liquids and environments.
H	Do not carry the pump by the power cable.
I	This apparatus may be used by children 8 years or older and persons with reduced physical, sensory or mental capacities, or lacking experience and knowledge, if they are supervised or receive adequate training on the safe use of the apparatus and understand the dangers. Children should not be allowed to play with the equipement. Children should not perform the ordinary cleaning and maintenance tasks without supervision.
J	The pump should only be dismantled by authorized personnel.
K	Cut out power supply before servicing pump.
L	Caution! Avoid icing.

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Safety precautions

This symbol  together with one of the following words “Danger” or “Warning” indicates the risk level deriving from failure to observe the prescribed safety precautions:



DANGER risk of electric shock — Warns that failure to observe the pre cautions involves a risk of electric shock.



DANGER — Warns that failure to observe the pre cautions involves a risk of damage to persons and/or things.



WARNING — Warns that failure to observe the pre cautions involves the risk of damaging the pump and/or the facility

1. GENERAL INFORMATION

Please observe the following instructions to achieve the best pump performance possible and a trouble free installation.



Read these instructions before installing the pump. Save them for future reference.

The VIGICOR model is a submergible, single-stage pump with stainless steel grinder for draining off grey water containing fibrous matter. The solids passage pitch is approximately 8mm (MAX).

Maximum water temperature is 35ºC.



Correct pump operation is assured providing the instructions on electrical connection, installation and use are strictly adhered to.



Failure to adhere to the instructions can result in premature failure of the pump and voiding of the warranty.



The pump cannot be used in a swimming-pool while there are people bathing.



Do not insert your hand or any other object into the suction inlet or discharge outlet, as the rotating turbine and blades could cause serious injury/damage.

2. HANDLING

The pumps are supplied suitably packaged to prevent damage in transit. Before unpacking, check that the packaging has not been damaged or deformed.



Lift and handle the product with care and with the right tools.

3. INSTALLATION

3.1. Fixing

The pump can rest on the floor or be suspended from a cable or the like.



The pump must never be supported by the electric cable or the discharge line (fig.2).

On the automatic version, with level float (version A), if so wished the level of water for pump starting and stopping can be set by sliding the float cable by its hook.

Check that the level float can move freely (Fig.2).

The maximum depth of immersion is 7m.

3.2. Discharge pipe assembly

The pumps are supplied ready to be connected a 1 1/4" line. However, if the geometric height is considerable and the paths are long and winding, we recommend using lines with a larger diameter, to avoid head loss due to friction as much as possible and to obtain the best hydraulic performance possible.

Pipework must be supported and their weight must not rest on the pump.

It is advisable to fit a check valve to prevent the pipes remaining empty. This check valve must allow solids of up to at least 10 mm to pass.
Ensure that the tube is not bent and that it is correctly fitted onto the outlet piece because, in addition to preventing the desired flow, proper pump operation will be hindered.

3.3. Electrical connection



The electrical installation must have a multi-pole isolator with minimum 3mm contact openings, The protection of the system will be based on a differential switch (Δfn = 30mA).

The connection and its dimensioning must be performed by a qualified installer according to the needs of the facility and following the regulations in force in each country.



The motor has built-in thermal protection which disconnects the power supply in the event of overload.

3.4. Pre-start checks

Ensure the voltage and frequency of the supply corresponds to the values indicated on the electrical data label.

Ensure that the pump is submerged as shown in Fig.2.

The manufacturer declines any responsibility for damages caused by erroneous connections.

THIS PUMP MUST NEVER BE DRY RUN.

4. STARTING

Ensure all valves in the pipework are open.

Connect the electrical panel plug into a socket. If there is an appropriate level of water, the motor will immediately start up.

Check that the absorbed current is the same as marked on the name plate.
If the motor does not start or no water flows at the end of the line, try to find the anomaly using the troubleshooting guide in point 8.

Contact with the rotating turbine or blade can cause serious injury.

5. MAINTENANCE

Under normal conditions these pumps require no special or planned maintenance.

During frosty periods, remember to drain the line.

Clean the pump by having it pump clean water when it is to be withdrawn in order to prevent deposition of sand or other materials.
If the pump is not to be operated for a long period it is recommended to remove it from the installation, drain down and store in a dry, well ventilated place.

ATTENTION: In the event of faults or damage occurring to the pump, repairs or electric cable replacement should only be carried out by an authorised service agent.

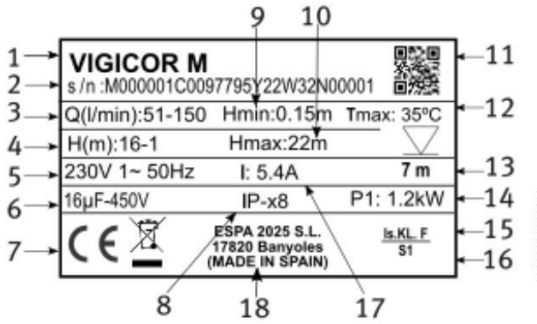
The Official Technical Services list is in www.espa.com.

6. DISPOSING OF THE PRODUCT

When the pump is eventually disposed of, please note that it contains no toxic or polluting material. All main components are material identified to allow selective disposal.

This product or parts of it must be disposed of in an environmentally sound way, use the waste collection service. If this is not possible, contact the nearest ESPA service workshop.

7. PLATE SHOWING CHARACTERISTICS



	DESCRIPTION
1	Item reference
2	Pump serial number
3	Flow
4	Pressure
5	Nominal voltage, no. stages, alternate current symbol and frequency
6	Capacitor (Single-phase model)
7	EC mark
8	Humidity protection level
9	Minimum working pressure
10	Maximum pressure
11	QR code with information serial number
12	Max. liquid temperature
13	Max. immersed depth
14	Electric pump unit absorbed power (P1)
15	Designated motor insulation
16	Continuous operation symbol
17	Maximum nominal intensity at nominal voltage
18	Name and address of vendor responsible for the product

8. POSSIBLE FAULTS, CAUSES AND SOLUTIONS

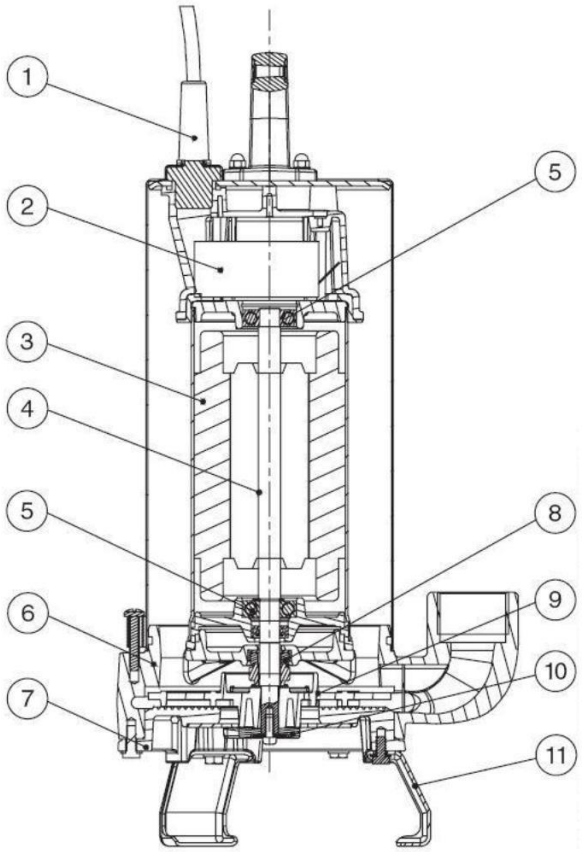
1) The pump does not start.
2) Pump runs but there is no flow.
3) Pump stops automatically.
4) Pump does not deliver rated capacity.

1	2	3	4	POSSIBLE PROBLEM	SOLUTIONS
X				Lack of electricity	Replace fuses or switch RCCB (30mA)
X		X		Improper thermal protection	Switch thermal protector or check that voltage is correct
X				Float switch disconnected	Wait for water level to be back to adequate level
X		X		Wet end blocked	Call Service Engineer
X				Blocked float switch	Check the free operation of the float switch
	X			Disconnected discharge pipe	Connect it and fix the discharge pipe correctly
	X			Air trapped at the pump body	Move the pump laterally to empty the air
	X			Check valve assembled way round	Assemble the valve correctly
	X			Pump partially covered of water	Submerge the pump or wait to have the suitable level
	X		X	Inlet filter obstructed	Clean the suction filter
			X	Total manometric head higher than expected	Check the geometric head and loss of head
			X	Impeller worn	Contact a Service Engineer
			X	Deteriorated discharge pipe	Replace it by a new one

9. TECHNICAL DATA

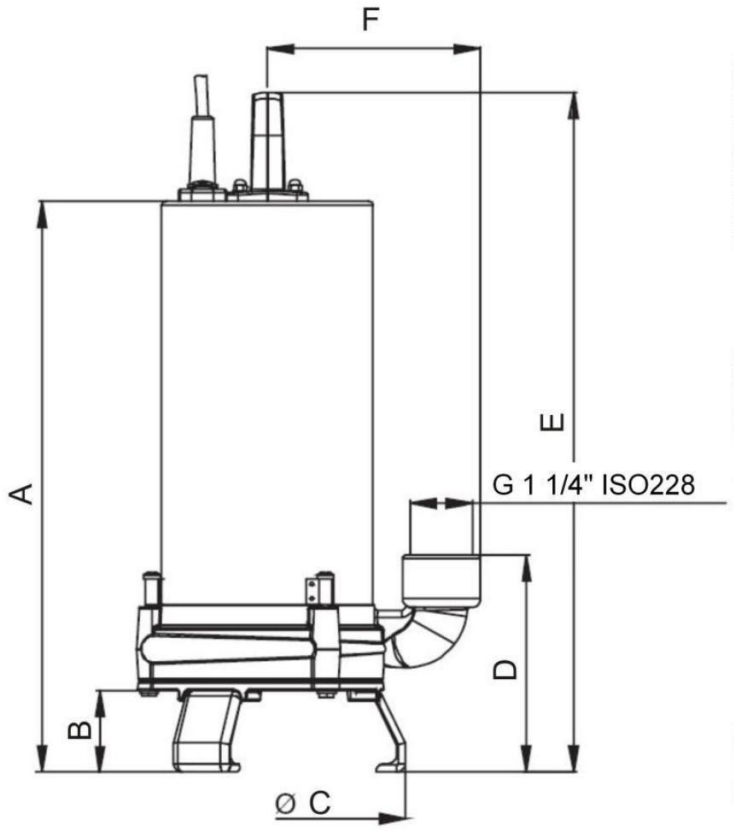
Liquid temperature… .....4ºC - 35ºC
Ambient temperature: .....0ºC - 40ºC
Storage temperature:.....-10ºC - 50ºC
Ambient relative humidity, max.: 95%
Motor class I.
Other data see Figure 1.

EN List of main components



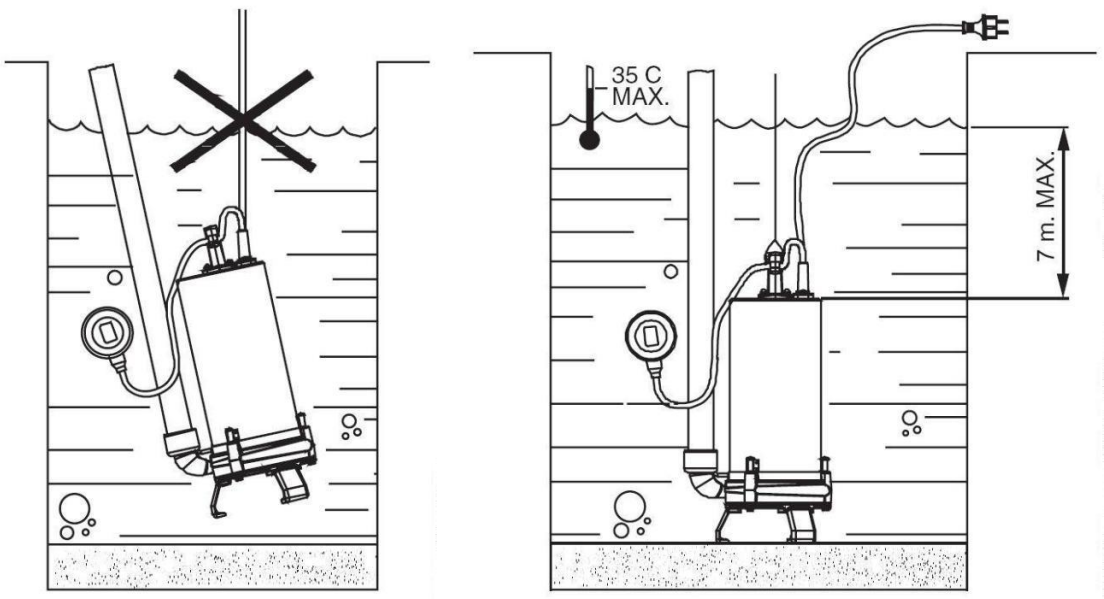
	EN
1	Cable
2	Capacitor
3	Stator
4	Motor shaft
5	Bearing
6	Pump cassing
7	Suction cover
8	Mechanical seal
9	Impeller
10	Blade
11	Foot

Fig.1



230V 50Hz	Q max. [l/min]	H max. [m]	A 1~ 220V	C µF	P1 [kW]	IP	η (%)	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	⚖ [kg]
VIGICOR 150M	150	22	5,3	16	1,2	68	21	395,5	56,5	191	150,7	471	148	15,0

Fig.2



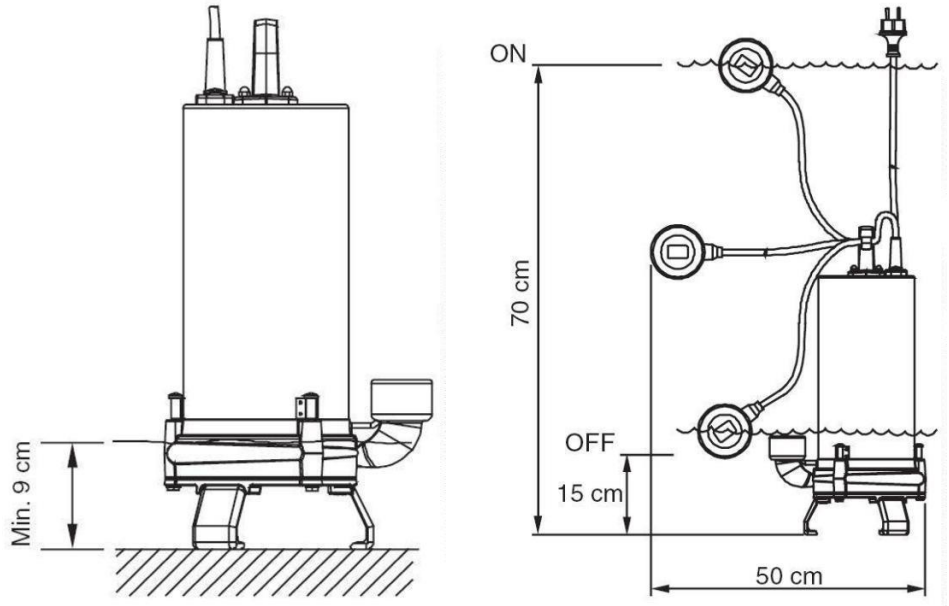
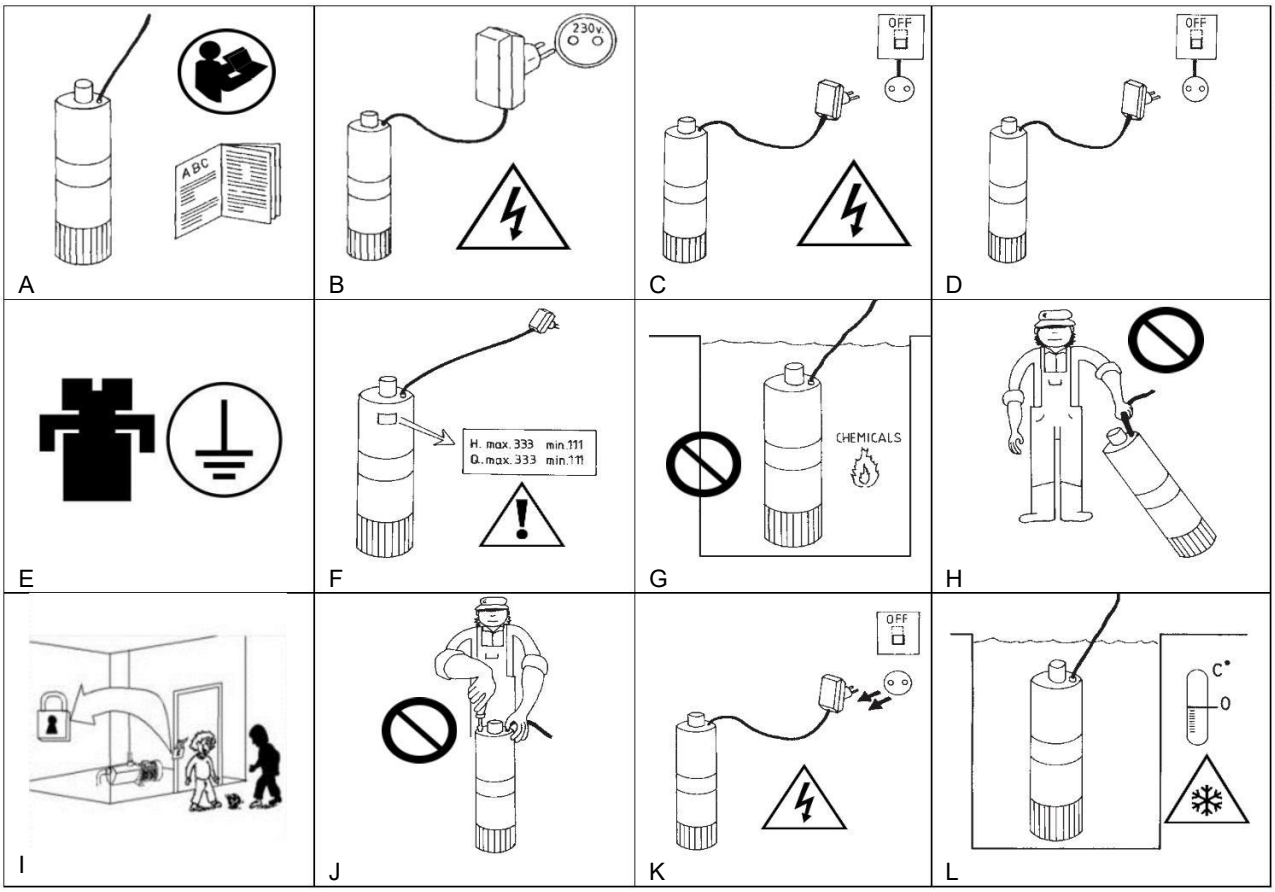

ON
70 cm
OFF
15 cm
50 cm
Min. 9 cm

Fig.3


A
B
230V
C
OFF
D
OFF
E
F
H. max. 333 min.111
Q. max. 333 min.111
G
CHEMICALS
H
I
J
K
OFF
L
C°
0

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