

FAMILY[®]

VORTEX submersible pump
in stainless steel for dirty water



MADE IN ITALY

 **PEDROLLO[®]**
the spring of life

50 1974-2024


FAMILY®

Submersible pump for dirty water

VORTEX



Domestic use



Dirty water

- ✘ The **FAMILY®** submersible pump, made of stainless steel, is an innovative and reliable product, perfect for fixed and temporary installations in residential applications
- ✘ With a flow rate of up to 250 l/min and a head of 10 m it is the ideal solution for draining and raising domestic wastewater.



PERFORMANCE RANGE

- Flow rate up to **250 l/min** (15 m³/h)
- Head up to **10 m**

INSTALLATION AND USE

The **FAMILY** electric pump is recommended for draining waste water in the **domestic** sector, also when there are solid bodies in suspension with dimensions of up to **Ø 30 mm**.

They stand out for their ease of use and reliability in fixed installations with automatic operation.

IMPLEMENTATION

They are equipped with:

- ✘ **5 m** long power cable
- ✘ float switch
- ✘ hose coupling

APPLICATION LIMITS

- Depth below the water level down to **5 m** (with a suitable power cable length)
- Maximum liquid temperature **+40°C**
- Passage of suspended solids up to **Ø 30 mm**
- **Minimum immersion for continuous service: 160 mm**

OPTIONS AVAILABLE ON REQUEST

- ✘ Technopolymer impeller (cost-effective)
- ✘ Other voltages or 60 Hz frequency
- ✘ **FAMILY® GM version**

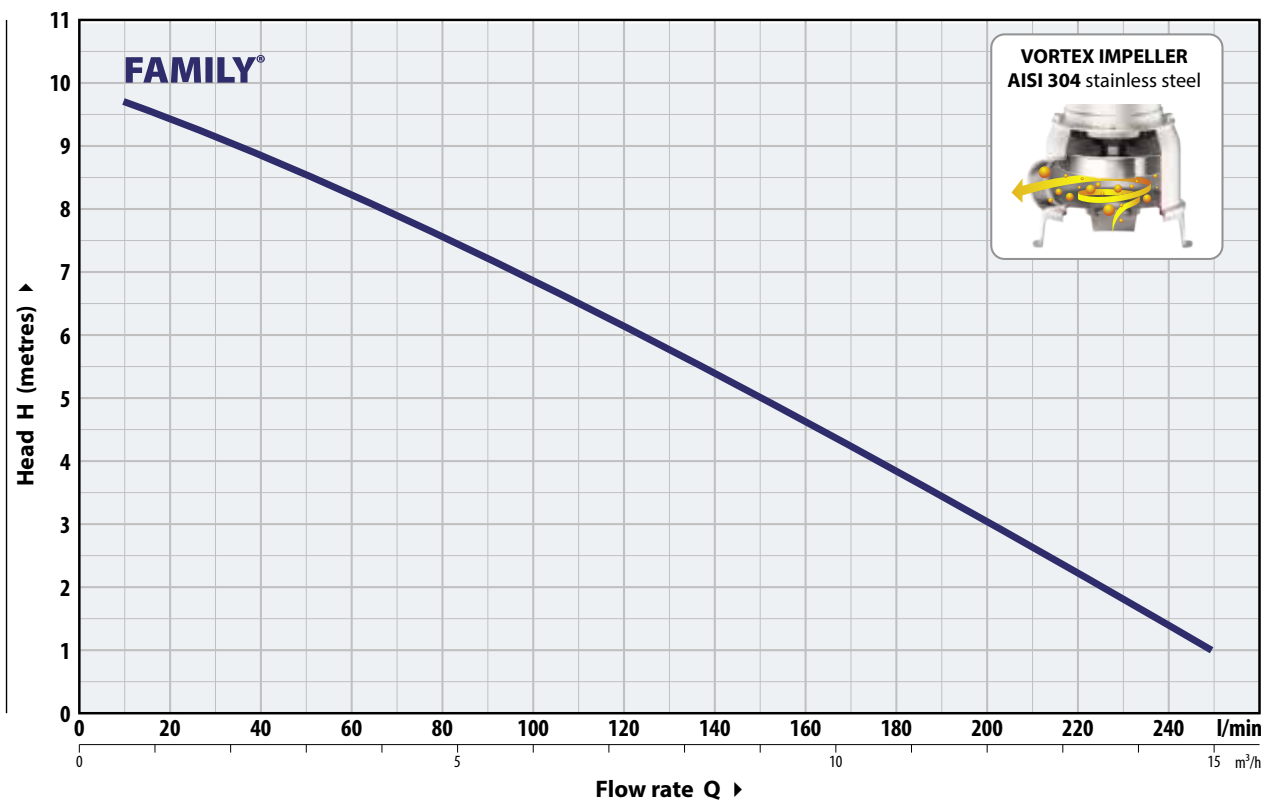
PATENTS - TRADEMARKS - MODELS

- Patent No. IT0001428923

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =



CHARACTERISTIC CURVES AND PERFORMANCE DATA | 50 Hz



MODEL	POWER (P ₂)		Q	m³/h	0	0.6	1.2	3.6	6	8.4	10.8	13.2	15	ABSORBED CURRENT
	kW	HP		l/min	0	10	20	60	100	140	180	220	250	
FAMILY	0.50	0.70	H	metres	11	10.6	10.3	8.8	7.2	5.4	3.6	2.6	1.5	3.0 A

Q = Flow rate H = Total manometric head

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

FAMILY®-GM

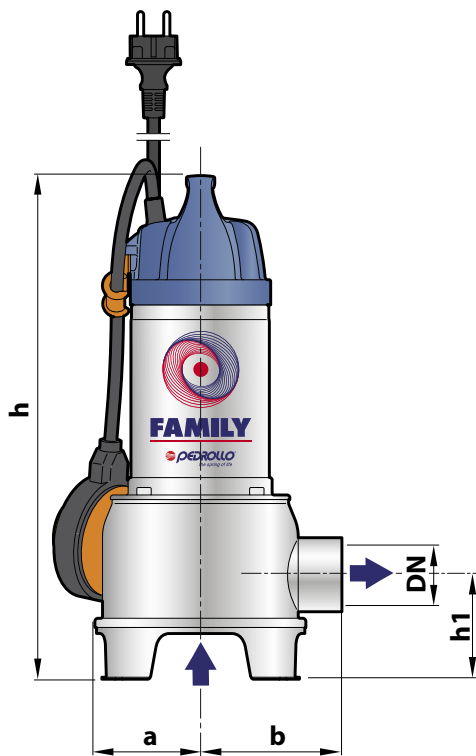
Electric pump with a magnetic float

- ※ The **FAMILY®** submersible pump is also supplied in the **GM** version, which includes a vertical sliding magnetic float.
- ※ This solution enables the pump to work in tight spaces too, offering the greatest versatility and practicality.



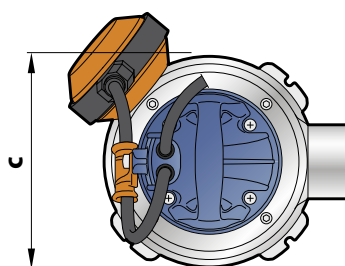
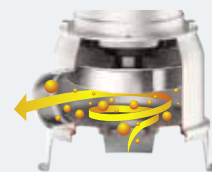
Submersible pump for dirty water

DIMENSIONS AND WEIGHT

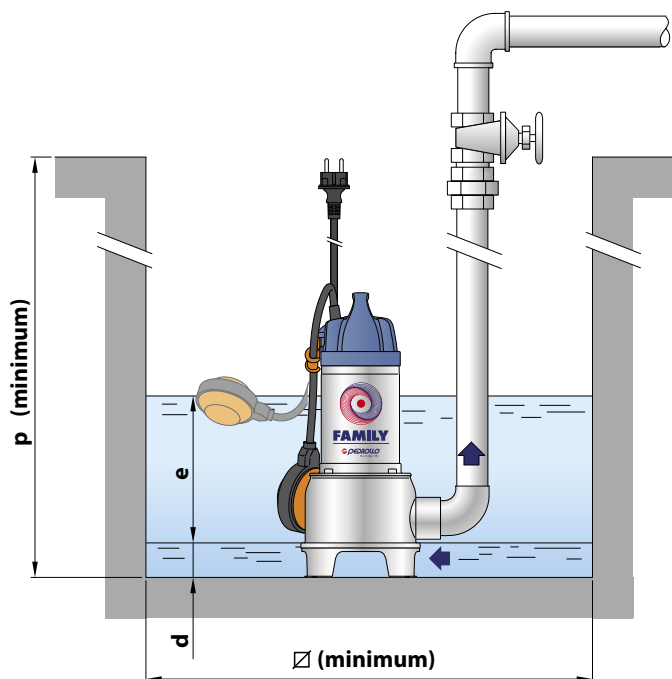


The vortex electric pump is capable of handling water containing solid bodies with a diameter of up to **30 mm**. It is made of stainless steel to ensure greater robustness and durability over time.

VORTEX IMPELLER AISI 304 stainless steel



TYPICAL INSTALLATION



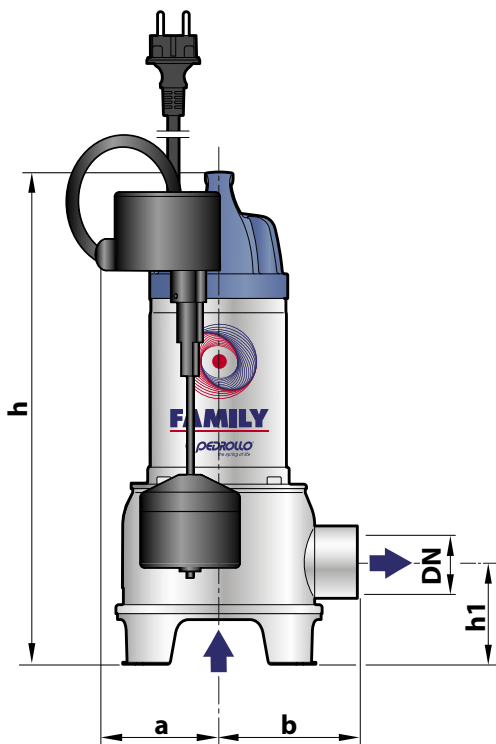
MODEL	PORT	Passage of solid bodies	DIMENSIONS mm									kg
			a	b	c	h	h1	d	e	p	Ø	
Single-phase	DN											1~
FAMILY	1½"	Ø 30 mm	70	93	140	333	68	30	adjustable	450	450	7.0

PALLETIZATION
no. of pumps
80

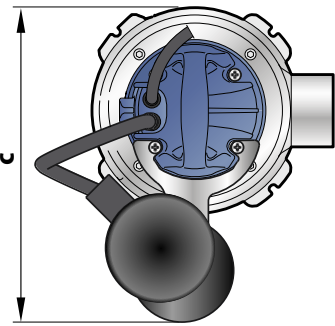
FAMILY[®]-GM

Submersible pump for dirty water with a magnetic float

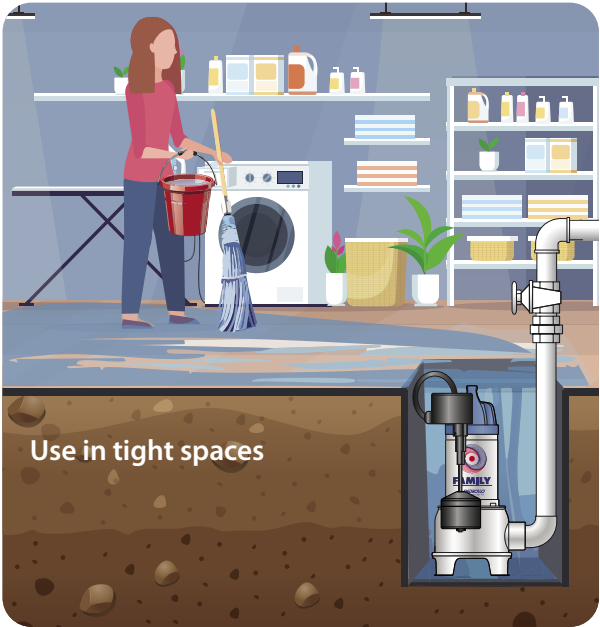
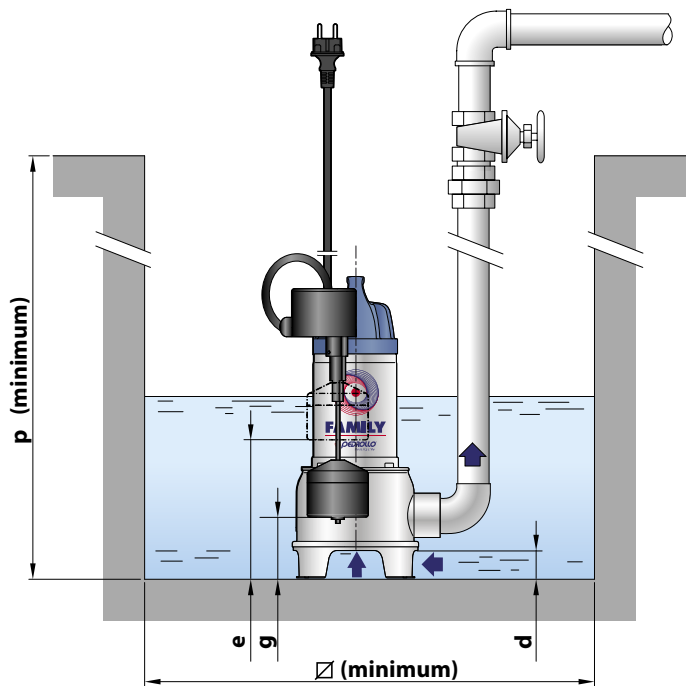
DIMENSIONS AND WEIGHT



The vortex electric pump is capable of handling water containing solid bodies with a diameter of up to **30 mm**. It is made of stainless steel to ensure greater robustness and durability over time.



TYPICAL INSTALLATION



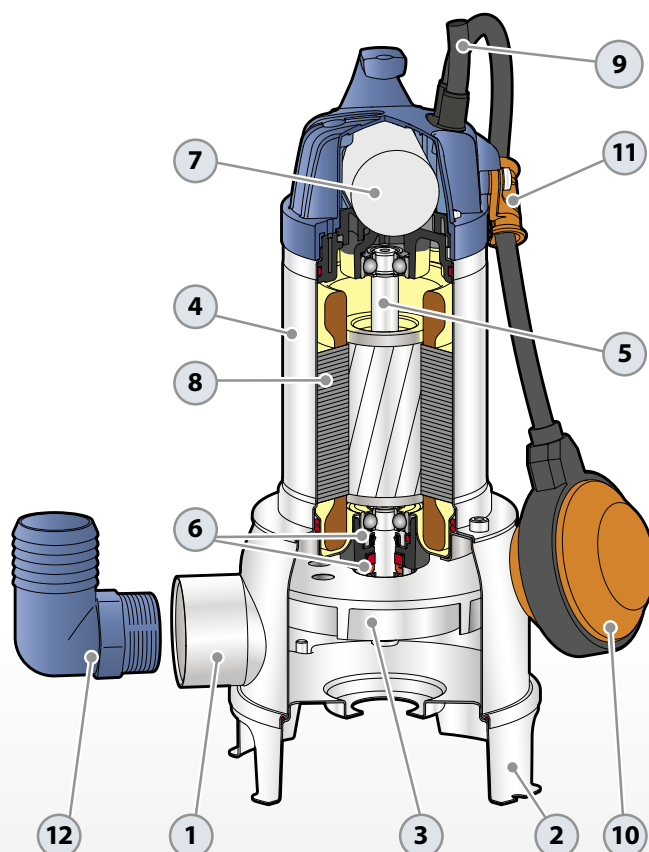
MODEL	PORT	Passage of solid bodies	DIMENSIONS mm										kg
			a	b	c	h	h1	d	e	g (adjustable)	p	Ø	
Single-phase	DN												1~
FAMILY-GM	1½"	Ø 30 mm	75	93	210	333	69	30	180	80	450	230	7.0

PALLETIZATION
no. of pumps
80

FAMILY[®]

CONSTRUCTION CHARACTERISTICS

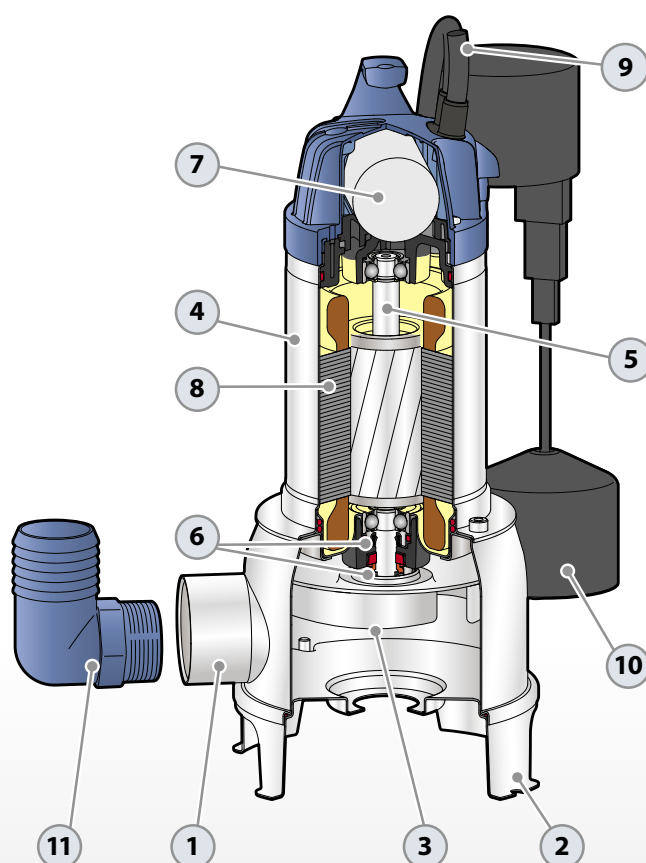
1 Pump body	AISI 304 stainless steel with threaded port in compliance with ISO 228/1	
2 Base	AISI 304 stainless steel	
3 Impeller	AISI 304 stainless steel VORTEX type	
4 Motor sleeve	AISI 304 stainless steel	
5 Motor shaft	AISI 431 stainless steel	
6 Double seal on shaft		
Seal	Shaft	Materials
STA-12R	Ø 12 mm	Ceramic / Graphite / NBR
Lip seal	Ø 12 x Ø 19 x H 5 mm	
7 Capacitor		
8 Electric motor	oil filled, with thermal overload protector incorporated into the winding Single-phase 230 V - 50 Hz – Insulation: class F – Protection: IP X8	
9 Power supply cable	Type “H07 RN-F” with Schuko plug ※ Standard length 5 metres	
10 Float switch		
11 Tilting device for the float cable	Patent No. IT0001428923	
12 Hose coupling (included in the scope of delivery)	Ø 50 mm	



FAMILY[®]-GM

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9 Power supply cable	Type "H07 RN-F" with Schuko plug ※ Standard length 5 metres	
10 Vertical sliding magnetic float switch		
11 Hose coupling (included in the scope of delivery)	Ø 50 mm	



The data contained in this publication are not to be considered binding. Pedrollo S.p.A. reserves the right to make any changes it deems appropriate to improve its production.

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MADE IN ITALY

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