

 Sewage water

 Domestic use

 Civil use



PERFORMANCE RANGE

- Flow rate up to **650 l/min** (39 m³/h)
- Head up to **14 m**

APPLICATION LIMITS

- **10 m** maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature **+40 °C**
- Passage of solids:
 - up to **Ø 40 mm** for VXC /35
 - up to **Ø 50 mm** for VXC /45
- Minimum immersion depth for continuous service:
 - **280 mm** for VXC /35
 - **300 mm** for VXC /45

CONSTRUCTION AND SAFETY STANDARDS

- **10 m** long power cable
- Float switch for single-phase versions

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY



INSTALLATION AND USE

VXC series pumps, made from heavy gauge cast iron offering exceptional sturdiness and abrasion resistance, come equipped with a **VORTEX** impeller and are therefore suitable for draining **waste water containing suspended solids, sewage water and mixed with mud.**

PATENTS - TRADE MARKS - MODELS

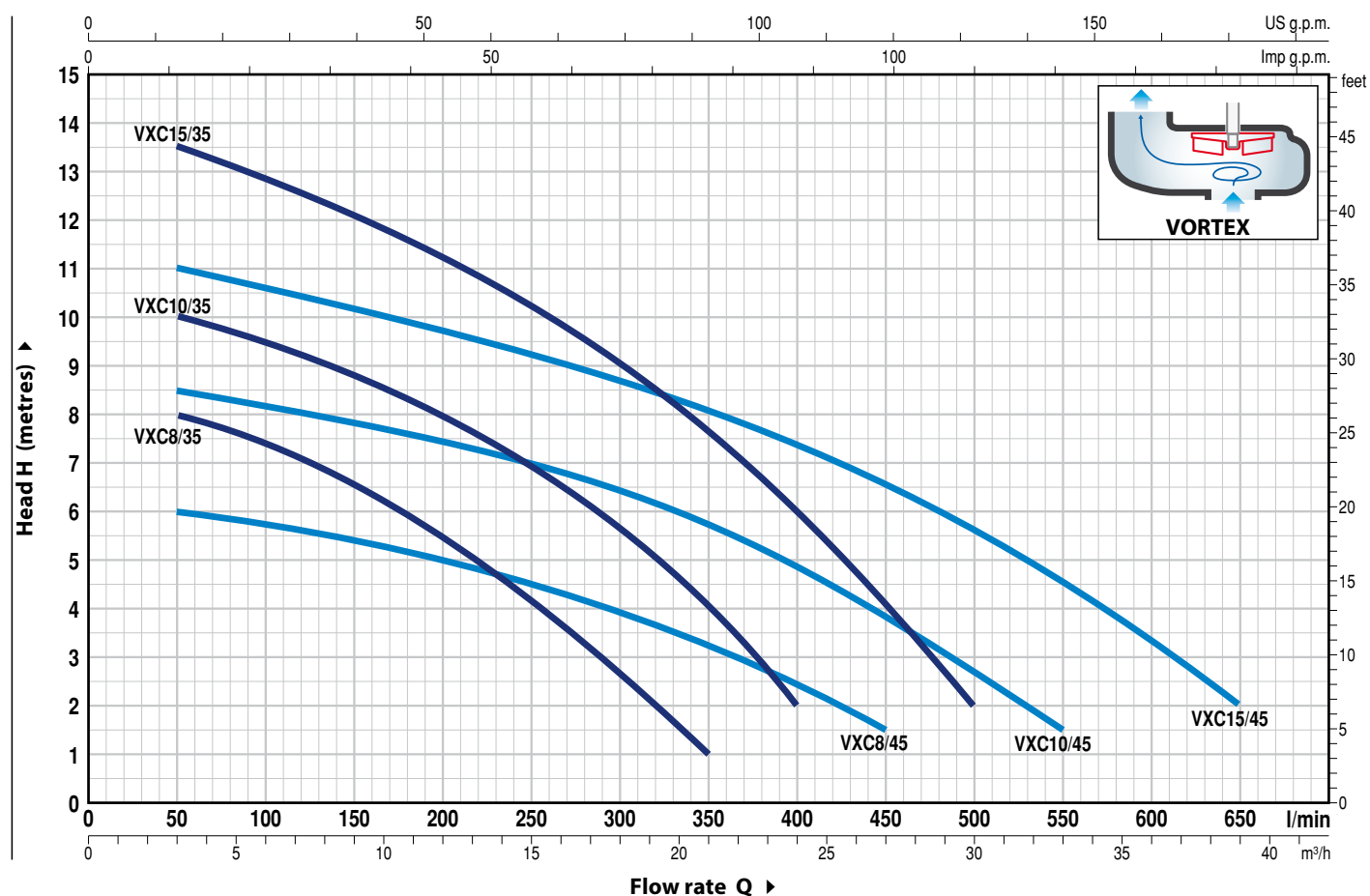
- Patent n. EP2313658
- Patent n. IT0001428923
- Registered EU Design n. 002501486-0003

OPTIONS AVAILABLE ON REQUEST

- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹



MODEL		POWER (P ₂)		Q	m³/h l/min	0	3	6	12	18	21	24	27	30	33	36	39
Single-phase	Three-phase	kW	HP			0	50	100	200	300	350	400	450	500	550	600	650
VXCm 8/35	VXC 8/35	0.55	0.75	H metres	9	8	7.5	5.5	2.7	1							
VXCm 10/35	VXC 10/35	0.75	1		11	10	9.5	8	5.7	4	2						
VXCm 15/35	VXC 15/35	1.1	1.5		14	13.5	12.8	11.2	9	7.7	6	4	2				
VXCm 8/45	VXC 8/45	0.55	0.75		6.5	6	5.8	5	4	3.3	2.5	1.5					
VXCm 10/45	VXC 10/45	0.75	1		9	8.5	8.2	7.5	6.5	5.8	5	3.8	2.5	1.5			
VXCm 15/45	VXC 15/45	1.1	1.5		11.5	11	10.5	9.8	8.7	8	7.5	6.5	5.5	4.5	3.5	2	

Q = Flow rate H = Total manometric head

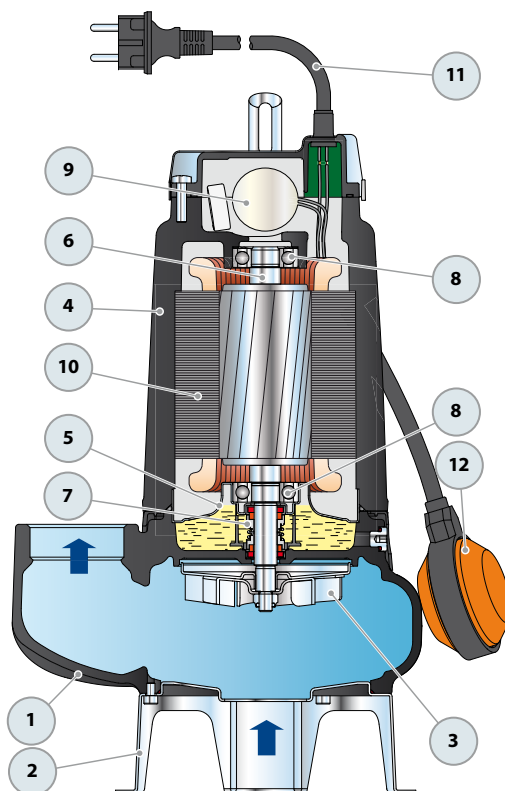
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

POS. COMPONENT

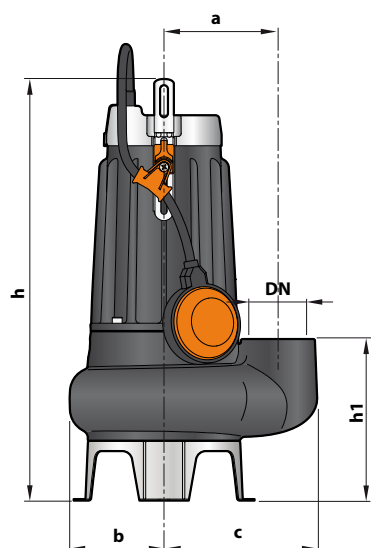
CONSTRUCTION CHARACTERISTICS

1	PUMP BODY	Cast iron with an Epoxy Electro Coating treatment, with threaded port in compliance with ISO 228/1				
2	BASE	Stainless steel AISI 304				
3	IMPELLER	Stainless steel AISI 304 VORTEX type				
4	MOTOR CASING	Cast iron with an Epoxy Electro Coating treatment				
5	MOTOR CASING PLATE	Stainless steel AISI 304				
6	MOTOR SHAFT	Stainless steel AISI 431				
7	SHAFT WITH DOUBLE MECHANICAL SEAL SEPARATED BY AN OIL CHAMBER					
Seal		Shaft	Position	Materials		
Model	Diameter			Stationary ring	Rotational ring	Elastomer
MG1-14D SIC	Ø 14 mm	Motor side		Silicon carbide	Graphite	NBR
		Pump side		Silicon carbide	Silicon carbide	NBR
8	BEARINGS	6203 ZZ / 6203 ZZ				
9	CAPACITOR					
Pump		Capacitance				
Single-phase		(230 V or 240 V)	(110 V)			
VXCm 8/35	20 µF 450 VL		30 µF - 250 VL			
VXCm 8/45						
VXCm 10/35						
VXCm 10/45						
VXCm 15/35	25 µF 450 VL		-			
VXCm 15/45						
10	ELECTRIC MOTOR					
VXCm: single-phase 230 V - 50 Hz						
with thermal overload protector incorporated into the winding						
VXC: three-phase 400 V - 50 Hz						
– Insulation: class F						
– Protection: IP X8						
11	POWER CABLE					
"H07 RN-F" type						
(with Schuko plug for single-phase versions only)						
Standard length 10 metres						
12	FLOAT SWITCH					
(only for single-phase versions)						

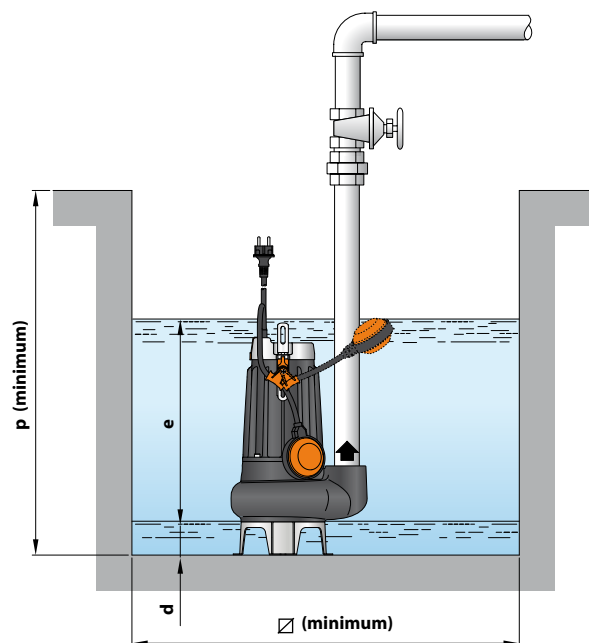
The diagram shows a vertical cross-section of a submersible pump. At the top, a power cable (11) with a Schuko plug enters the motor housing (4). Inside the housing, a capacitor (9) is connected to the motor windings. The motor shaft (6) passes through the housing, supported by bearings (8) and sealed with a double mechanical seal (7) that includes a stationary ring and a rotational ring. The shaft is connected to an impeller (3) at the bottom. The pump body (1) is at the very bottom, with an outlet port. A float switch (12) is attached to the side of the pump body. Arrows indicate the flow of water from the inlet at the bottom into the pump body and out through the outlet port.



DIMENSIONS AND WEIGHT



Standard installation



MODEL		PORT DN	Passage of solids	DIMENSIONS mm									kg	
Single-phase	Three-phase			a	b	c	h	h1	d	e	p	Ø	1~	3~
VXCm 8/35	VXC 8/35	1½"	Ø 40 mm	115	95	148	389	139	50	variable	500	500	16.8	16.7
VXCm 10/35	VXC 10/35						403						17.6	16.7
VXCm 15/35	VXC 15/35						403						19.3	18.2
VXCm 8/45	VXC 8/45	2"	Ø 50 mm	115	95	155	413	164	60	variable	500	500	17.4	17.2
VXCm 10/45	VXC 10/45						428						18.3	17.2
VXCm 15/45	VXC 15/45						428						19.8	18.8

ABSORPTION

MODEL	VOLTAGE		
	230 V	240 V	110 V
Single-phase			
VXCm 8/35	3.5 A	3.4 A	7.0 A
VXCm 10/35	4.8 A	4.6 A	11.0 A
VXCm 15/35	7.4 A	7.0 A	–
VXCm 8/45	3.7 A	3.5 A	7.4 A
VXCm 10/45	5.0 A	4.8 A	11.5 A
VXCm 15/45	7.1 A	7.0 A	–

MODEL	VOLTAGE			
	230 V	400 V	240 V	415 V
Three-phase				
VXC 8/35	2.9 A	1.7 A	2.8 A	1.65 A
VXC 10/35	3.5 A	2.0 A	3.3 A	1.95 A
VXC 15/35	5.2 A	3.0 A	5.0 A	2.9 A
VXC 8/45	3.1 A	1.8 A	2.9 A	1.75 A
VXC 10/45	3.5 A	2.0 A	3.3 A	1.95 A
VXC 15/45	5.2 A	3.0 A	5.0 A	2.9 A

PALLETIZATION

MODEL		GROUPAGE n. pumps	CONTAINER n. pumps
Single-phase	Three-phase		
VXCm 8/35	VXC 8/35	60	80
VXCm 10/35	VXC 10/35	60	80
VXCm 15/35	VXC 15/35	60	80
VXCm 8/45	VXC 8/45	54	72
VXCm 10/45	VXC 10/45	54	72
VXCm 15/45	VXC 15/45	54	72

 Sewage water

 Domestic use

 Civil use



PERFORMANCE RANGE

- Flow rate up to **750 l/min** (45 m³/h)
- Head up to **15 m**

APPLICATION LIMITS

- **10 m** maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature **+40 °C**
- Passage of suspended solids up to **Ø 50 mm**
- Minimum immersion depth for continuous service: **300 mm**

CONSTRUCTION AND SAFETY STANDARDS

- **10 m** long power cable
- Float switch for single-phase versions

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY



INSTALLATION AND USE

MC series pumps, made from heavy gauge cast iron offering exceptional sturdiness, abrasion resistance and durability, come equipped with a **DOUBLE-CHANNEL** impeller and are capable of pumping liquids containing short fibred suspended solids up to Ø 50 mm.

Recommended for conveying **drained water and sewage, waste water, water mixed with mud, groundwater and surface water** for applications in blocks of flats, industries, multi-storey and underground car parks, wash areas, etc.

PATENTS - TRADE MARKS - MODELS

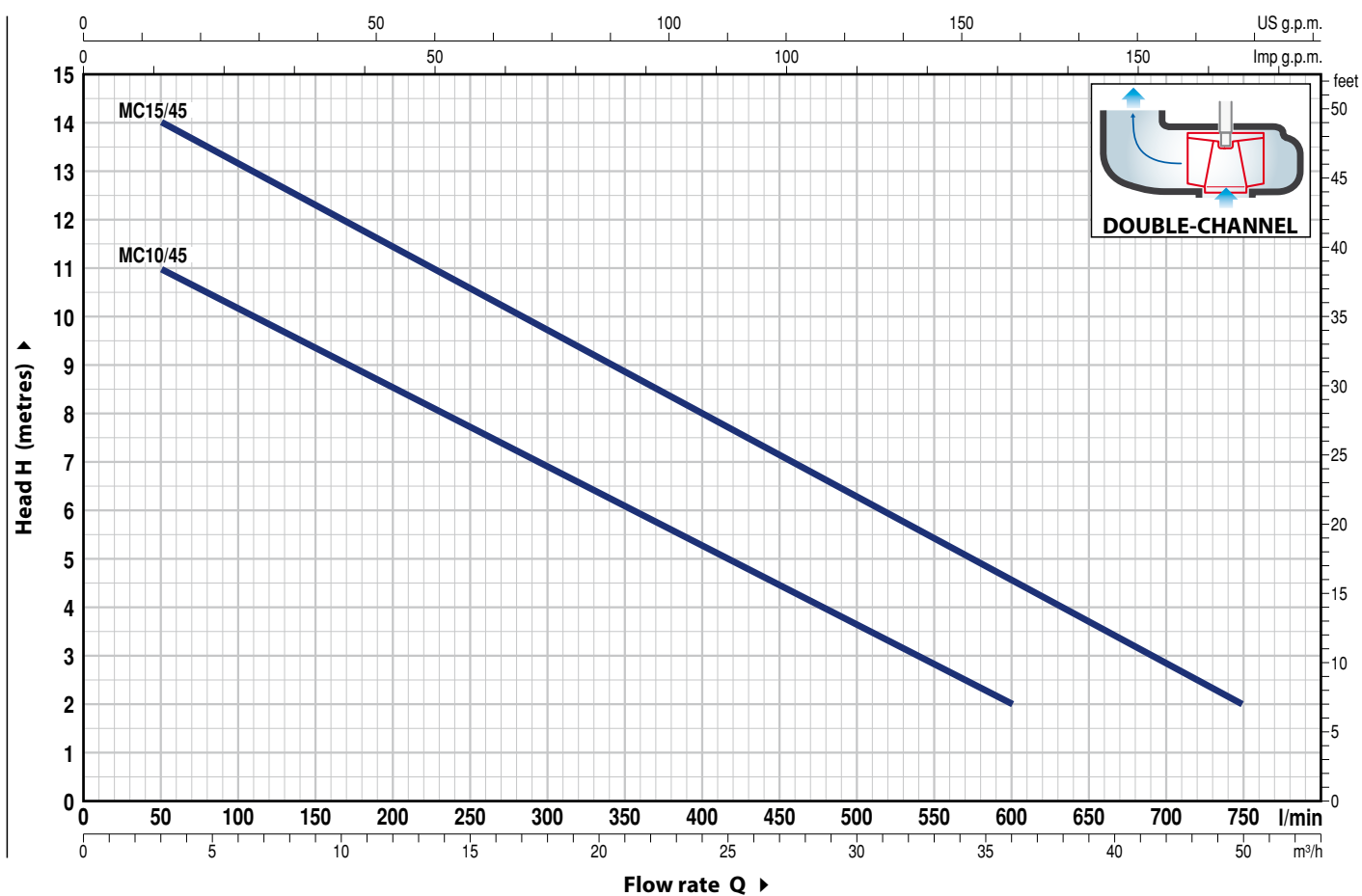
- Patent n. EP2313658
- Patent n. IT0001428923
- Registered EU Design n. 002501486-0003

OPTIONS AVAILABLE ON REQUEST

- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹



MODEL		POWER (P ₂)		Q	0	3	6	12	18	24	30	36	42	45
Single-phase	Three-phase	kW	HP		0	50	100	200	300	400	500	600	700	750
MCm 10/45	MC 10/45	0.75	1	H metres	12	11	10	8.5	7	5	3.5	2		
MCm 15/45	MC 15/45	1.1	1.5		15	14	13	11.5	9.7	8	6.3	4.5	3	2

Q = Flow rate H = Total manometric head

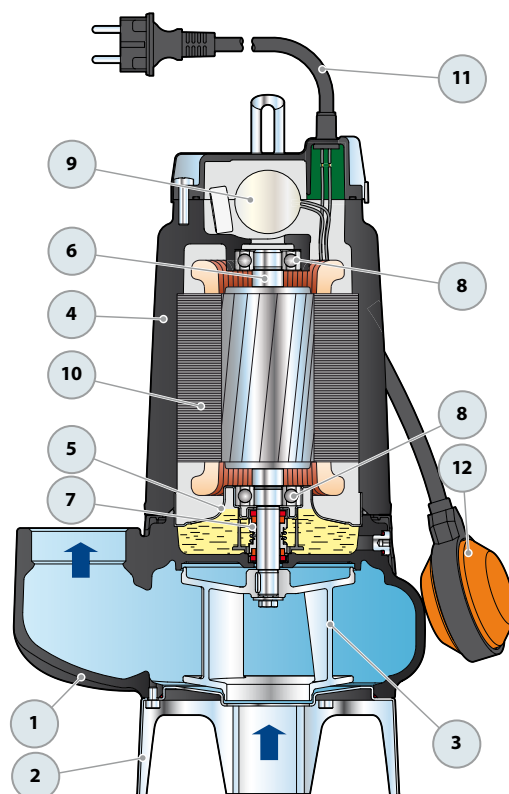
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

POS. COMPONENT

CONSTRUCTION CHARACTERISTICS

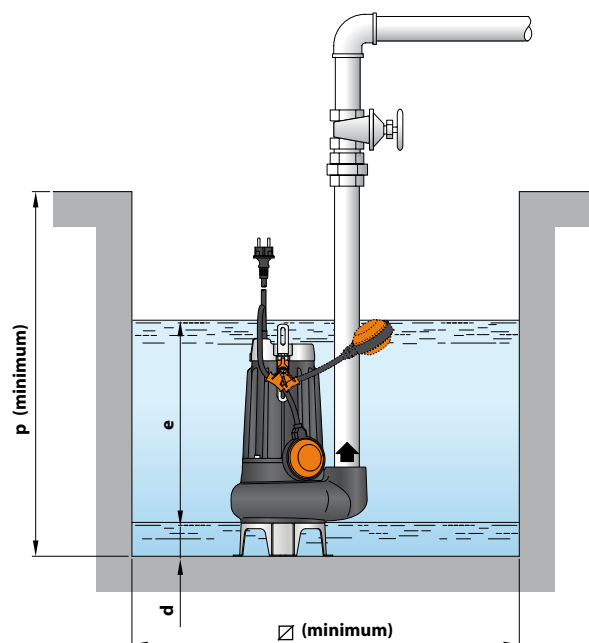
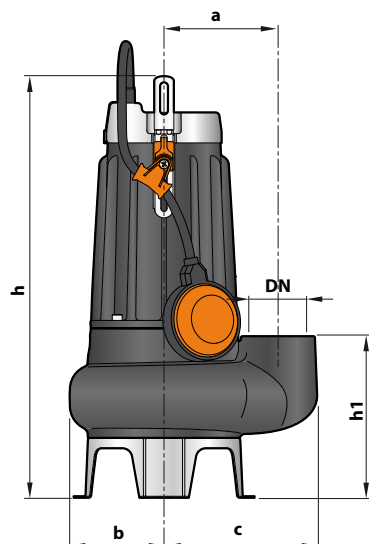
1	PUMP BODY	Cast iron with an Epoxy Electro Coating treatment, with threaded port in compliance with ISO 228/1				
2	BASE	Stainless steel AISI 304				
3	IMPELLER	Precision cast stainless steel AISI 304 DOUBLE-CHANNEL type				
4	MOTOR CASING	Cast iron with an Epoxy Electro Coating treatment				
5	MOTOR CASING PLATE	Stainless steel AISI 304				
6	MOTOR SHAFT	Stainless steel AISI 431				
7	SHAFT WITH DOUBLE MECHANICAL SEAL SEPARATED BY AN OIL CHAMBER					
Seal		Shaft	Position	Materials		
Model		Diameter		Stationary ring	Rotational ring	Elastomer
MG1-14D SIC		Ø 14 mm	Motor side	Silicon carbide	Graphite	NBR
			Pump side	Silicon carbide	Silicon carbide	NBR
8	BEARINGS	6203 ZZ / 6203 ZZ				
9	CAPACITOR					
Pump		Capacitance				
Single-phase		(230 V or 240 V)	(110 V)			
MCm 10/45		20 µF 450 VL	30 µF - 250 VL			
MCm 15/45		25 µF 450 VL	–			
10	ELECTRIC MOTOR					
MCm: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding						
MC: three-phase 400 V - 50 Hz						
– Insulation: class F						
– Protection: IP X8						
11	POWER CABLE					
"H07 RN-F" type (with Schuko plug for single-phase versions only)						
Standard length 10 metres						
12	FLOAT SWITCH					
(only for single-phase versions)						

The diagram is a vertical cross-section of the pump assembly. At the top, a power cord with a Schuko plug is connected to the motor (10). Below the motor is the motor casing (4) and motor casing plate (5). The motor shaft (6) passes through the motor casing plate and is sealed by a double mechanical seal (7) which is separated by an oil chamber. The seal consists of a stationary ring and a rotational ring, both made of silicon carbide, with NBR elastomers. The shaft is supported by bearings (8). The impeller (3) is mounted on the shaft and is precision cast stainless steel AISI 304 DOUBLE-CHANNEL type. The pump body (1) is cast iron with an Epoxy Electro Coating treatment. The base (2) is stainless steel AISI 304. The float switch (12) is connected to the power cable (11) and is used for automatic shutdown when the water level is too high. The diagram also shows the motor casing plate (5) and the motor casing (4) with the motor shaft (6) passing through them. The impeller (3) is shown at the bottom of the pump body (1).



DIMENSIONS AND WEIGHT

Standard installation



MODEL		PORT DN	Passage of solids	DIMENSIONS mm									kg	
Single-phase	Three-phase			a	b	c	h	h1	d	e	p	Ø	1~	3~
MCm 10/45	MC 10/45	2"	Ø 50 mm	115	95	155	413	164	60	variable	500	500	18.8	17.7
MCm 15/45	MC 15/45						428						20.1	18.9

ABSORPTION

MODEL	VOLTAGE		
	230 V	240 V	110 V
MCm 10/45	5.0 A	4.8 A	11.8 A
MCm 15/45	8.2 A	8.0 A	–

MODEL	VOLTAGE			
	230 V	400 V	240 V	415 V
MC 10/45	3.6 A	2.1 A	3.5 A	2.0 A
MC 15/45	5.5 A	3.2 A	5.4 A	3.1 A

PALLETIZATION

MODEL		GROUPAGE n. pumps	CONTAINER n. pumps
Single-phase	Three-phase		
MCm 10/45	MC 10/45	54	72
MCm 15/45	MC 15/45	54	72

Submersible drainage pumps

-  Clear water
-  Domestic use
-  Civil use



PERFORMANCE RANGE

- Flow rate up to **300 l/min** (18 m³/h)
- Head up to **26 m**

APPLICATION LIMITS

- **10 m** maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature **+40 °C**
- Passage of suspended solids up to **Ø 10 mm**
- Suction down to **17 mm** above ground level
- Minimum immersion depth for continuous service: **220 mm**

CONSTRUCTION AND SAFETY STANDARDS

- **10 m** long power cable
- Float switch for single-phase versions

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY



INSTALLATION AND USE

DC submersible pumps, made from heavy gauge cast iron offering exceptional sturdiness, abrasion resistance and durability, are suitable for draining **clear or slightly dirty water**. They distinguish themselves for their sturdiness and reliability under automatic operating conditions in fixed installations.

PATENTS - TRADE MARKS - MODELS

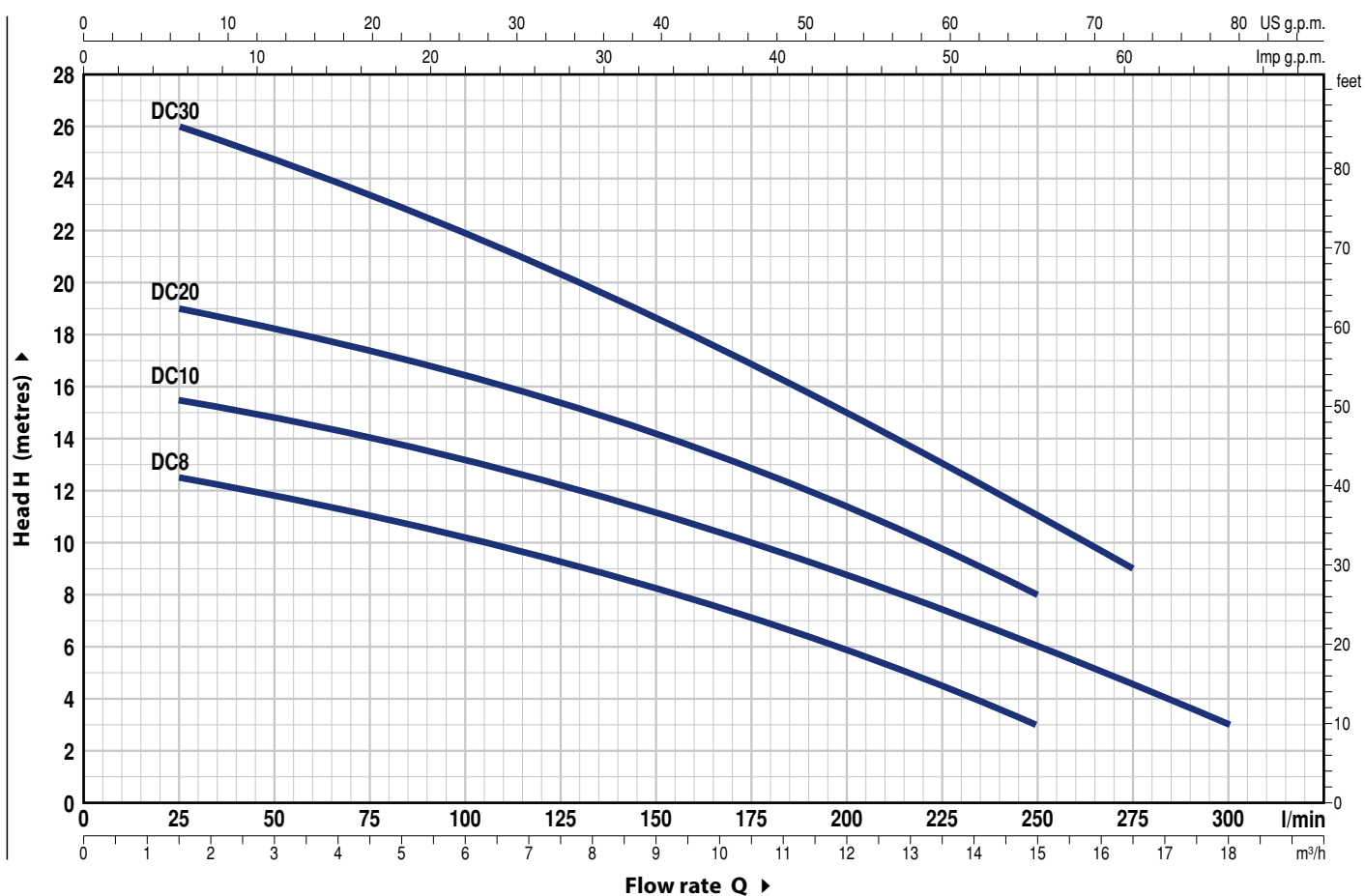
- Patent n. EP2313658
- Patent n. IT0001428923
- Registered EU Design n. 002501486-0003

OPTIONS AVAILABLE ON REQUEST

- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹



MODEL		POWER (P ₂)		Q m³/h l/min	0	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.2	15.0	16.5	18.0
Single-phase	Three-phase	kW	HP		0	25	50	75	100	125	150	175	200	220	250	275	300
DCm 8	DC 8	0.55	0.75	H metres	13	12.5	11.8	11	10.2	9.2	8.2	7	5.8	4.7	3		
DCm 10	DC 10	0.75	1		16	15.5	14.8	14	13.2	12.2	11.2	10	8.8	7.8	6	4.5	3
DCm 20	DC 20	0.75	1		20	19	18.5	17.5	16.5	15.5	14.3	13	11.5	10	8		
DCm 30	DC 30	1.1	1.5		26	26	24.8	23.5	22	20.4	18.7	16.9	15	13.5	11	9	

Q = Flow rate H = Total manometric head

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

POS. COMPONENT

CONSTRUCTION CHARACTERISTICS

1	PUMP BODY	Cast iron with an Epoxy Electro Coating treatment, with threaded port in compliance with ISO 228/1
2	SUCTION FILTER	Stainless steel AISI 304
3	SUCTION PLATE	Stainless steel AISI 304
4	IMPELLER	Technopolymer open type
5	MOTOR CASING	Cast iron with an Epoxy Electro Coating treatment
6	MOTOR CASING PLATE	Stainless steel AISI 304
7	MOTOR SHAFT	Stainless steel AISI 431

8 SHAFT WITH DOUBLE MECHANICAL SEAL SEPARATED BY AN OIL CHAMBER

<i>Pump Model</i>	<i>Seal Model</i>	<i>Shaft Diameter</i>	<i>Position</i>	<i>Stationary ring</i>	<i>Materials Rotational ring</i>	<i>Elastomer</i>
DC8	MG1-14D SIC	Ø 14 mm	Motor side	Silicon carbide	Graphite	NBR
DC10			Pump side	Silicon carbide	Silicon carbide	NBR
DC20			(Double seal on shaft with a ring seal Ø 16 x Ø 24 x H 5 mm)			
DC30	ST1-14 SIC	Ø 14 mm		Ceramic	Silicon carbide	NBR

9 BEARINGS 6203 ZZ / 6203 ZZ

10 CAPACITOR

Pump Single-phase	Capacitance (230 V or 240 V)	(110 V)
DCm8	20 µF 450 VL	30 µF - 250 VL
DCm10		
DCm20		
DCm30	25 µF 450 VL	–

11 ELECTRIC MOTOR

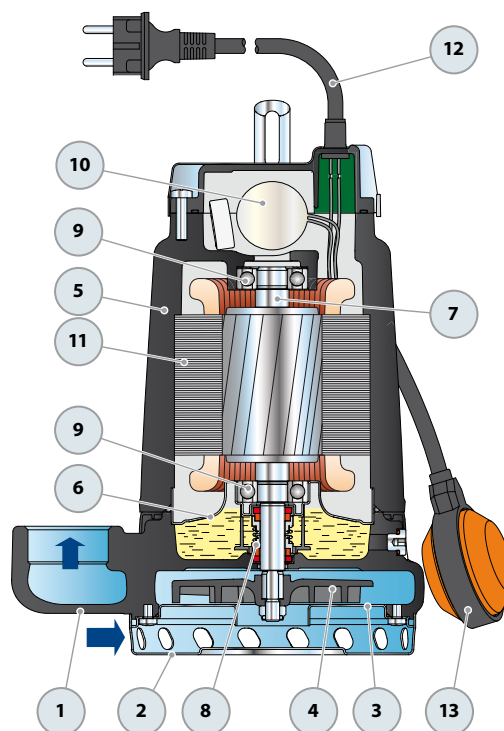
DCm: single-phase 230 V - 50 Hz
with thermal overload protector incorporated into the winding
DC: three-phase 400 V - 50 Hz
– Insulation: class F
– Protection: IP X8

12 POWER CABLE

"H07 RN-F" type
(with Schuko plug for single-phase versions only)
Standard length 10 metres

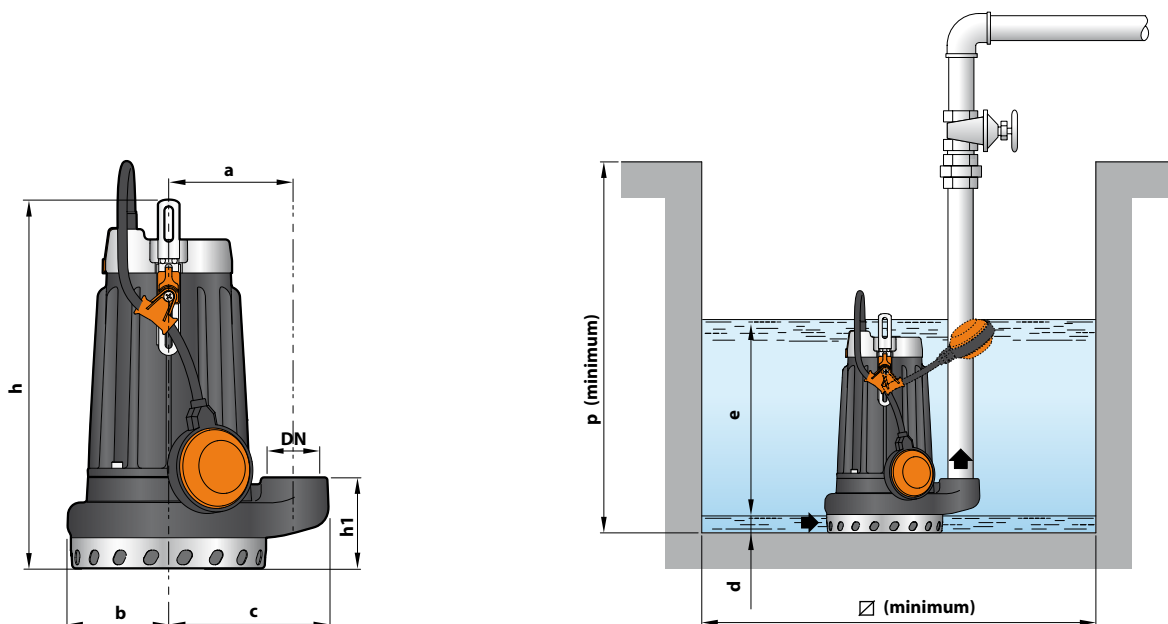
13 FLOAT SWITCH

(only for single-phase versions)



DIMENSIONS AND WEIGHT

Standard installation



MODEL		PORT DN	DIMENSIONS mm									kg	
Single-phase	Three-phase		a	b	c	h	h1	d	e	p	Ø	1~	3~
DCm 8	DC 8	1½"	115	85	147	322	72	17	variable	500	500	15.8	15.8
DCm 10	DC 10											16.9	15.8
DCm 20	DC 20											17.0	15.9
DCm 30	DC 30			93		337	84					18.8	17.7

ABSORPTION

MODEL	VOLTAGE		
	230 V	240 V	110 V
DCm 8	3.2 A	3.1 A	6.4 A
DCm 10	4.7 A	4.5 A	–
DCm 20	5.7 A	5.6 A	11.4 A
DCm 30	7.2 A	7.0 A	–

MODEL	VOLTAGE			
	230 V	400 V	240 V	415 V
DC 8	2.8 A	1.6 A	2.6 A	1.5 A
DC 10	3.5 A	2.0 A	3.3 A	1.9 A
DC 20	4.2 A	2.4 A	4.0 A	2.3 A
DC 30	5.2 A	3.0 A	5.0 A	2.9 A

PALLETIZATION

MODEL		GROUPAGE n. pumps	CONTAINER n. pumps
Single-phase	Three-phase		
DCm 8	DC 8	60	80
DCm 10	DC 10	60	80
DCm 20	DC 20	60	80
DCm 30	DC 30	60	80



Sewage water



Domestic use



Civil use



PERFORMANCE RANGE

- Flow rate up to **260 l/min** (15.6 m³/h)
- Head up to **31 m**

APPLICATION LIMITS

- **10 m** maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature **+40 °C**
- Suction down above ground level:
 - **85 mm** for TR 0.75-0.9-1.1-1.3
 - **95 mm** for TR 1.5-2.2
- Minimum immersion depth for continuous service:
 - **300 mm** for TR 0.75-0.9-1.1-1.3
 - **350 mm** for TR 1.5-2.2

CONSTRUCTION AND SAFETY STANDARDS

- **10 m** long power cable
- External float switch and control box for single-phase versions

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY



INSTALLATION AND USE

The **TRITUS** series of grinder pumps manufactured from heavy gauge robust cast iron, resistant to abrasion and long-lasting, are fitted with a **GRINDER in tempered stainless steel of great resistance** which completely grinds up solid bodies and fibres in waste and reflux water from domestic and civil applications and conveys it under pressure into the sewers through small diameter pipes.

PATENTS - TRADE MARKS - MODELS

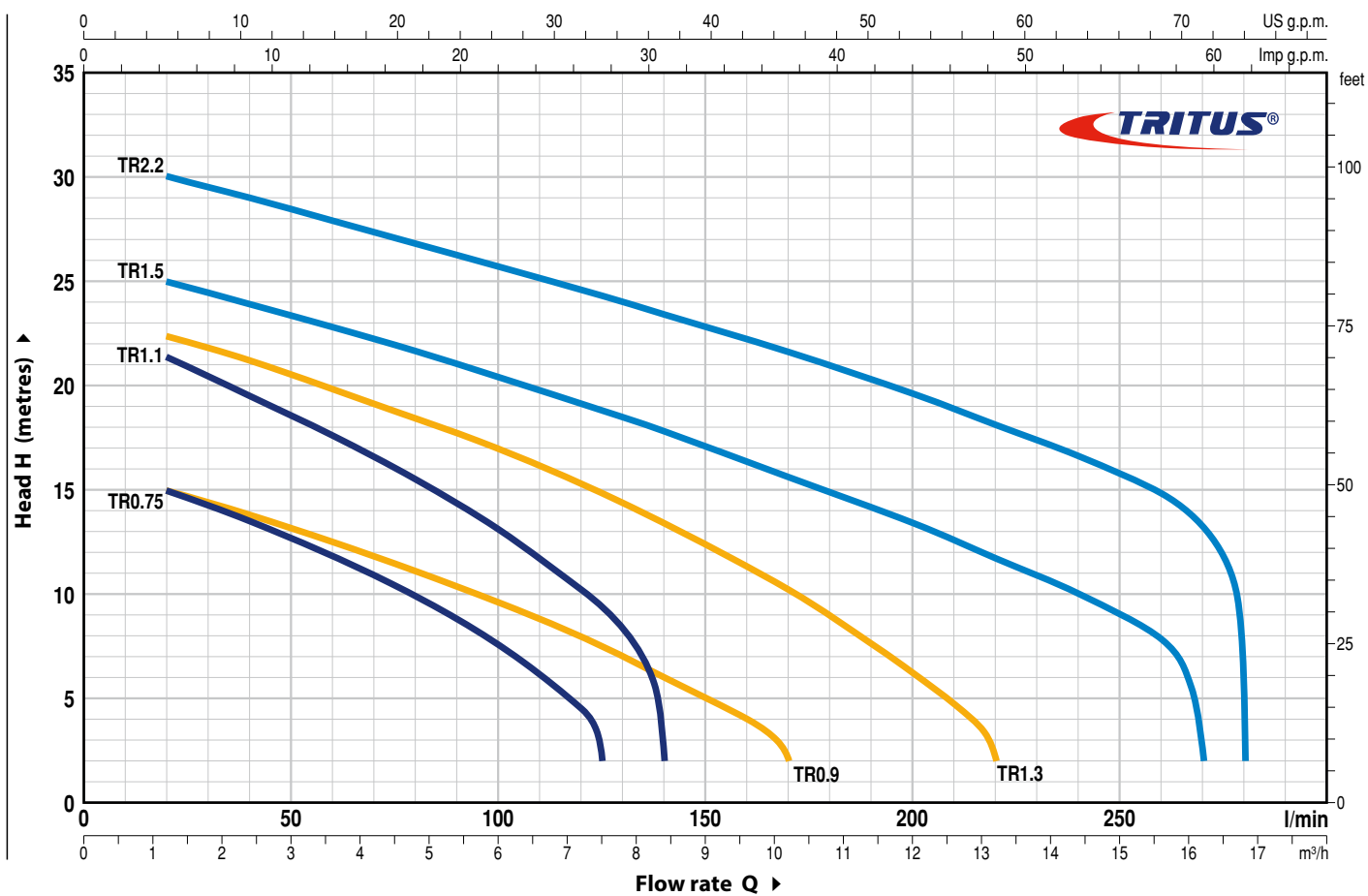
- Patent n. EP2313658
- Patent n. IT0001428923
- Registered EU Design n. 002501486-0002 (TR 0.75, TR 0.9, TR 1.1, TR 1.3)
- TRITUS® Registered trade mark n. 013017181

OPTIONS AVAILABLE ON REQUEST

- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹



MODEL		POWER (P ₂)		Q m³/h l/min	0	1.2	2.4	3.6	4.8	6.0	7.5	8.4	10.2	12	13.2	14.4	16.2	16.8
Single-phase	Three-phase	kW	HP		0	20	40	60	80	100	125	140	170	200	220	240	270	280
TRm 0.75	TR 0.75	0.75	1	H metres	16.5	15	13.5	11.8	10	7.5	2							
TRm 0.9	TR 0.9	0.9	1.25		16	15	13.8	12.5	11.1	9.6	7.5	6	2					
TRm 1.1	TR 1.1	1.1	1.5		23	21.5	19.5	17.5	15.5	13	9.5	2						
TRm 1.3	TR 1.3	1.3	1.75		23.5	22.5	21.2	19.8	18.4	17	14.8	13.4	10.2	6.2	2			
TRm 1.5	TR 1.5	1.5	2		26	25	24	22.8	21.7	20.4	18.8	17.8	15.6	13.4	11.7	10	2	
–	TR 2.2	2.2	3		31	30	29	28	26.8	25.7	24.3	23.5	21.5	19.5	18	16.5	13.2	2

Q = Flow rate H = Total manometric head

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

TRITUS 0.75 – 0.9 – 1.1 – 1.3

POS.

COMPONENT

CONSTRUCTION CHARACTERISTICS

1

PUMP BODY

Cast iron with an Epoxy Electro Coating treatment, with threaded port in compliance with ISO 228/1

2

IMPELLER

Technopolymer open type

3

GRINDER

Tempered AISI 440C stainless steel

4

MOTOR SHAFT

Stainless steel AISI 431

5

MOTOR CASING

Cast iron with an Epoxy Electro Coating treatment

6

SHAFT WITH DOUBLE MECHANICAL SEAL SEPARATED BY AN OIL CHAMBER

Seal	Shaft	Position	Materials		
Model	Diameter		Stationary ring	Rotational ring	Elastomer
MG1-14D SIC	Ø 14 mm	Motor side	Silicon carbide	Graphite	NBR
		Pump side	Silicon carbide	Silicon carbide	NBR

7

BEARINGS

6203 ZZ-C3E / 6203 ZZ-C3E

8

ELECTRIC MOTOR

TRm: single-phase 230 V - 50 Hz
with thermal overload protector incorporated into the winding

TR: three-phase 400 V - 50 Hz

– Insulation: class F

– Protection: IP X8

9

POWER CABLE

"H07 RN-F" type

Standard length 10 metres

10

FLOAT SWITCH

(only for single-phase versions)

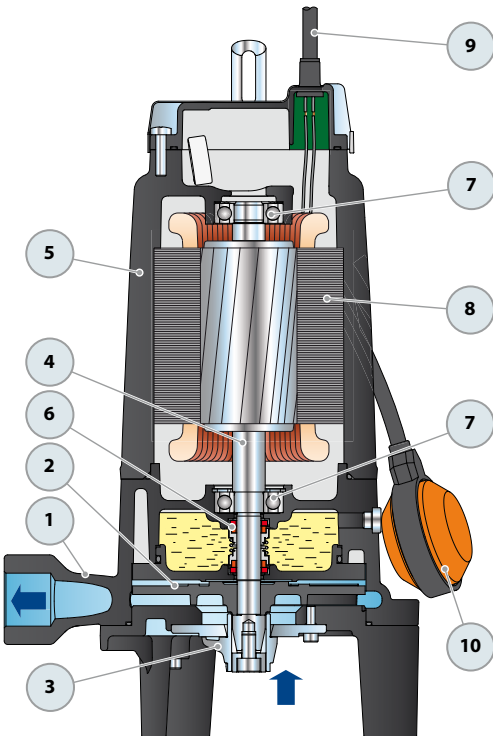
11

CONTROL BOX

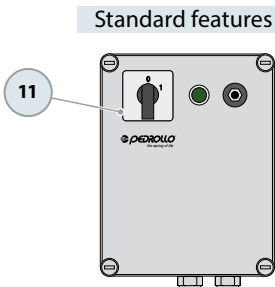
(only for single-phase versions)

With manual overload cut-out and with capacitors for starting and operating.

Pump Single-phase (230 V or 240 V)	Capacitance of the operating capacitor	Capacitance of the starting capacitor
TRm 0.75	25 µF 450 VL	80 µF 450 VL
TRm 0.9		
TRm 1.1		
TRm 1.3		



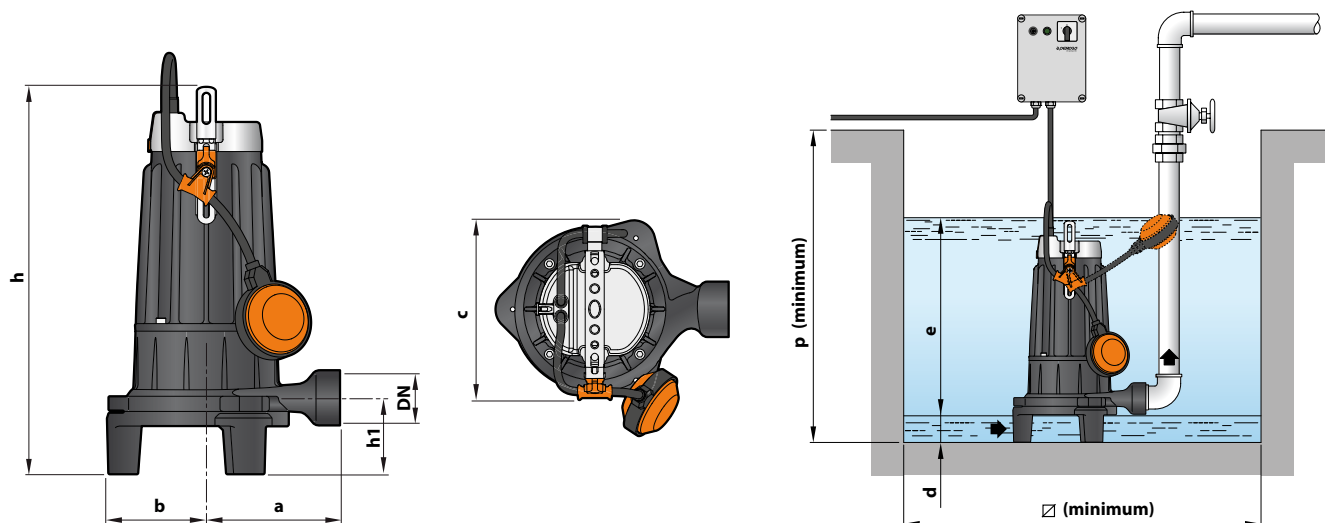
Standard features



Control box
(only for single-phase versions)

DIMENSIONS AND WEIGHT

Standard installation (for single-phase version)



MODEL		PORT	DIMENSIONS mm									kg *	
Single-phase	Three-phase	DN	a	b	c	h	h1	d	e	p	Ø	1~	3~
TRm 0.75	TR 0.75	1 1/4"	140	104	186	406	80	85	variable	500	500	24.0	22.0
TRm 0.9	TR 0.9											23.9	22.2
TRm 1.1	TR 1.1											25.7	23.2
TRm 1.3	TR 1.3											25.5	23.1

(* weight of pump without control box)

ABSORPTION

MODEL	VOLTAGE	
Single-phase	230 V	240 V
TRm 0.75	5.5 A	5.4 A
TRm 0.9	6.0 A	5.8 A
TRm 1.1	7.4 A	7.1 A
TRm 1.3	9.0 A	8.6 A

MODEL	VOLTAGE			
Three-phase	230 V	400 V	240 V	415 V
TR 0.75	4.3 A	2.5 A	4.2 A	2.4 A
TR 0.9	4.5 A	2.6 A	4.3 A	2.5 A
TR 1.1	5.2 A	3.0 A	5.0 A	2.9 A
TR 1.3	6.6 A	3.8 A	6.2 A	3.6 A

PALLETIZATION

MODEL	GROUPAGE
Single-phase	n. pumps
TRm 0.75	36
TRm 0.9	36
TRm 1.1	36
TRm 1.3	36

MODEL	GROUPAGE
Three-phase	n. pumps
TR 0.75	60
TR 0.9	60
TR 1.1	60
TR 1.3	60

TRITUS 1.5 – 2.2

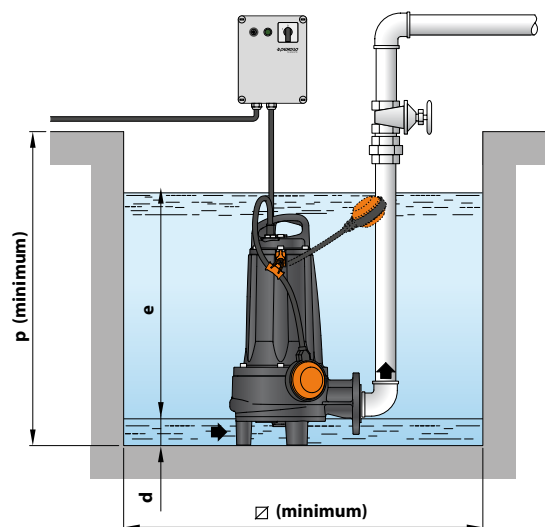
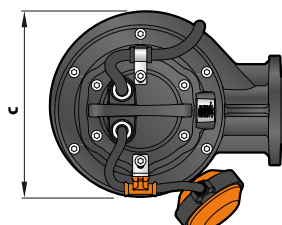
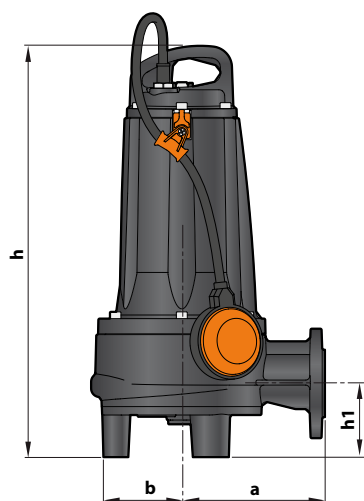
POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS									
1	PUMP BODY	Cast iron with an Epoxy Electro Coating treatment, with threaded port in compliance with ISO 228/1									
2	IMPELLER	Precision cast stainless steel AISI 304 open type									
3	GRINDER	Tempered AISI 440C stainless steel									
4	MOTOR SHAFT	Stainless steel AISI 431									
5	MOTOR CASING	Cast iron with an Epoxy Electro Coating treatment									
6	SHAFT WITH DOUBLE MECHANICAL SEAL SEPARATED BY AN OIL CHAMBER										
	<i>Seal</i>	<i>Shaft</i>									
	<i>Model</i>	<i>Diameter</i>									
	<i>Position</i>	<i>Stationary ring</i>									
	<i>Materials</i>	<i>Rotational ring</i>									
		<i>Elastomer</i>									
	STA-20	Ø 20 mm									
	STA-19	Ø 19 mm									
		Motor side									
		Pump side									
		Graphite									
		Silicon carbide									
		Graphite									
		Silicon carbide									
		NBR									
		NBR									
7	BEARINGS	3304 B-ZZ-C3 / 6304 ZZ-C3									
8	ELECTRIC MOTOR										
	TRm:	single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding									
	TR:	three-phase 400 V - 50 Hz <u>with thermal overload protector incorporated into the winding to be connected to the control box</u>									
		– Insulation: class F – Protection: IP X8									
9	POWER CABLE	"H07 RN-F" type Standard length 10 metres									
10	FLOAT SWITCH	(only for single-phase versions)									
11	CONTROL BOX	(only for single-phase versions) With manual overload cut-out and with capacitors for starting and operating. <table><tr><td><i>Pump</i></td><td><i>Capacitance of the operating capacitor</i></td><td><i>Capacitance of the starting capacitor</i></td></tr><tr><td><i>Single-phase (230 V or 240 V)</i></td><td></td><td></td></tr><tr><td>TRm 1.5</td><td>50 µF 450 VL</td><td>80 µF 450 VL</td></tr></table>	<i>Pump</i>	<i>Capacitance of the operating capacitor</i>	<i>Capacitance of the starting capacitor</i>	<i>Single-phase (230 V or 240 V)</i>			TRm 1.5	50 µF 450 VL	80 µF 450 VL
<i>Pump</i>	<i>Capacitance of the operating capacitor</i>	<i>Capacitance of the starting capacitor</i>									
<i>Single-phase (230 V or 240 V)</i>											
TRm 1.5	50 µF 450 VL	80 µF 450 VL									

Standard features

Control box
(only for single-phase versions)

DIMENSIONS AND WEIGHT

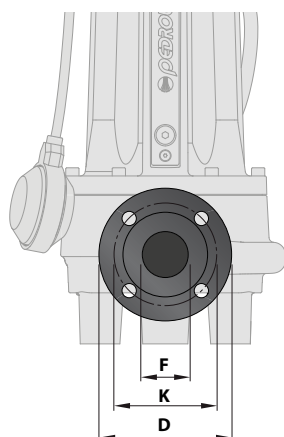
Standard installation (for single-phase version)



MODEL		DIMENSIONS mm									kg	
Single-phase	Three-phase	a	b	c	h	h1	d	e	p	∅	1~	3~
TRm 1.5	TR 1.5	172	105	221	489	87.5	95	variable	800	800	45.5	42.1
-	TR 2.2										-	44.4

PORT FLANGE

MODEL		FLANGE	F	K	D	HOLES	
Single-phase	Three-phase	DN		mm	mm	N°	Ø (mm)
TRm 1.5	TR 1.5	40 (PN6)	1½"	100	130	4	14
-	TR 2.2						



ABSORPTION

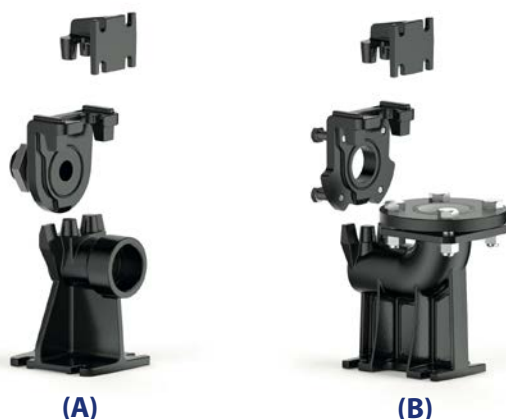
MODEL	VOLTAGE
Single-phase	230 V
TRm 1.5	10.0 A

MODEL	VOLTAGE
Three-phase	400 V
TR 1.5	3.7 A
TR 2.2	5.5 A

PALLETIZATION

MODEL	GROUPAGE
	n. pumps
TRm 1.5	10
TR 1.5	12
TR 2.2	12

SEWAGE LIFTING SYSTEM TRITUS



A) HORIZONTAL DELIVERY VERSION WITH 3/4" GUIDE TUBES

For TR 0.75, TR 0.9, TR 1.1, TR 1.3	Cod. ASSPTRITUS11	DN 2"
For TR 1.5, TR 2.2	Cod. ASSPTRITUS22	DN 2"

Kit consisting of:

- footing connection
- slide guide
(with ring nut and seal for TR 0.75, TR 0.9, TR 1.1, TR 1.3,
with screws and seal for TR 1.5 and TR 2.2)
- support for the guide tubes

B) VERTICAL DELIVERY VERSION WITH 3/4" GUIDE TUBES

For TR 0.75, TR 0.9, TR 1.1, TR 1.3	Cod. ASSPTRITUS11V	DN 2½"
For TR 1.5, TR 2.2	Cod. ASSPTRITUS22V	DN 2½"

Kit consisting of:

- footing connection complete with counterflange
- slide guide
(with ring nut and seal for TR 0.75, TR 0.9, TR 1.1, TR 1.3,
with screws and seal for TR 1.5 and TR 2.2)
- support for the guide tubes

● INTERMEDIATE SUPPORT (To be ordered separately)

Cod. 859SV340INTFA	For Ø 3/4" guide tubes
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In order to ensure stability, insert one intermediate support every two metres of guide tube

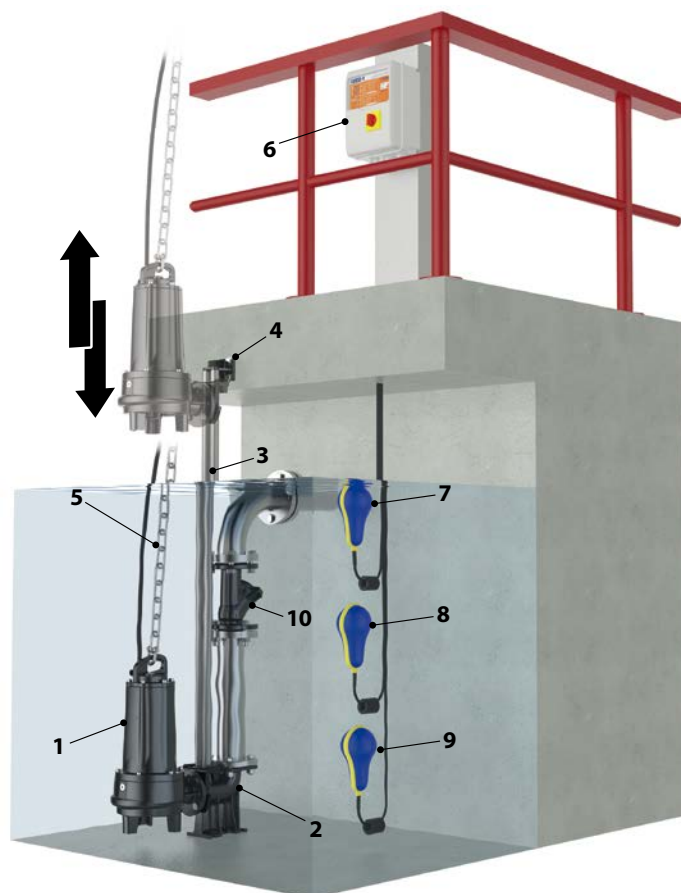
GUIDE TUBES (AISI 304 stainless steel)

Cod. 54SARTG005	Ø 3/4"
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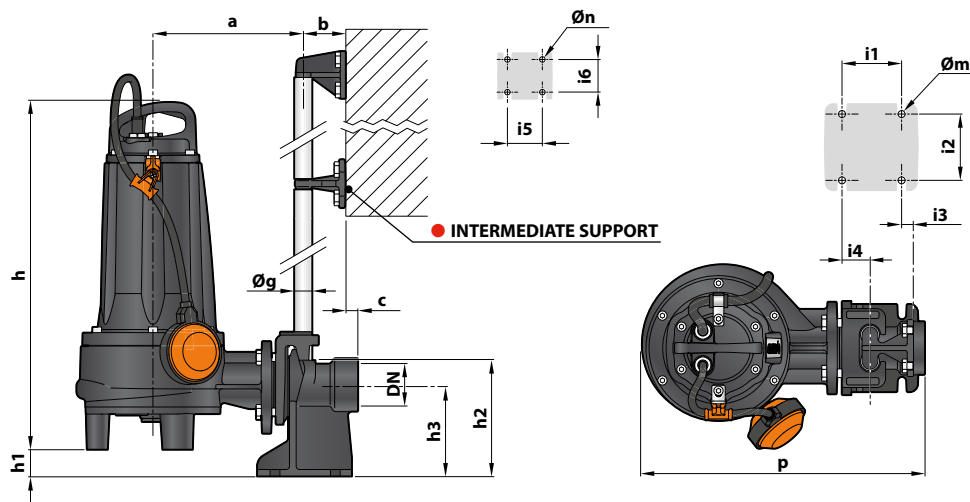
Maximum length of the tube plank: 6 metres

STANDARD INSTALLATION

1. Pump
2. Footing connection
3. Guide tubes
4. Support for the guide tubes
5. Lifting chain
6. Control box
7. Alarm float switch
8. Starting float switch
9. Stop float switch
10. Non-return valve

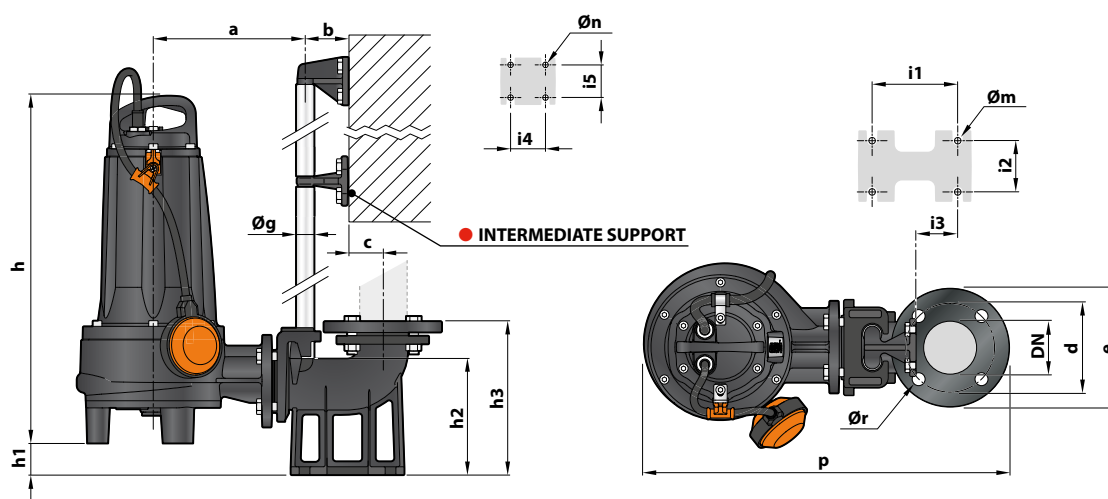


DIMENSIONS (Horizontal delivery version)



MODEL		PORT	DIMENSIONS mm																
Single-phase	Three-phase	DN	a	b	c	p	h	h1	h2	h3	i1	i2	i3	i4	i5	i6	Øg	Øm	Øn
TRm 0.75	TR 0.75	2"	210	61	17	392	405	50	165	130	85	94	40	16	50	48	¾"	12	11
TRm 0.9	TR 0.9																		
TRm 1.1	TR 1.1																		
TRm 1.3	TR 1.3																		
TRm 1.5	TR 1.5	2"	216	61	17	401	489	40	165	130	85	94	40	16	50	48	¾"	12	11
-	TR 2.2																		

DIMENSIONS (Vertical delivery version)



MODEL		PORT	DIMENSIONS mm																		
Single-phase	Three-phase	DN	a	b	c	d	e	p	h	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn	Ør
TRm 0.75	TR 0.75	2½"	202	61	52	125	165	501	405	48	164	216	120	72	62	50	48	¾"	14	11	18
TRm 0.9	TR 0.9																				
TRm 1.1	TR 1.1																				
TRm 1.3	TR 1.3																				
TRm 1.5	TR 1.5	2½"	212	61	52	125	165	515	489	38	164	216	120	72	62	50	48	¾"	14	11	18
-	TR 2.2																				