



Sewage



Domestic use



Industrial use



TRm 1.3



TRm 2.2 AP

PERFORMANCE RANGE

- Flow rate up to **400 l/min** (24.6 m³/h)
- Head up to **36.5 m**

INSTALLATION AND USE

The **TRITUS** is constructed from thick cast iron, offering exceptional robustness, abrasion resistance, and longevity. The pumps are equipped with a robust, **hardened stainless steel blade**, expertly designed to cut through solids and fibers found in **domestic and civil** wastewater and sewage, for pressurized transfer of materials into sewage systems via small-diameter piping

INCLUDES

- ✧ Power cable length **10 m**
- ✧ Float switch (exclusive to single-phase models)
- ✧ Switchbox compatible with single-phase versions

APPLICATION LIMITS

- Depth below water level up to **10 m** (with an appropriately sized power cable)
- Liquid temperature up to **+40 °C**
- Draining capability from bottom up to:
 - **85 mm** for 0.75, 0.9, 1.1, 1.3
 - **95 mm** for 1.5, 2.2, TR 2.2 AP, TR 3 AP, TR 3, TR 4
- **Minimum immersion for continuous service:**
 - **300 mm** for 0.75, 0.9, 1.1, 1.3
 - **350 mm** for 1.5, 2.2, TR 2.2 AP, TR 3 AP, TR 3, TR 4

AVAILABLE UPON REQUEST

- ✧ Different voltage requirements or frequency

WARRANTY

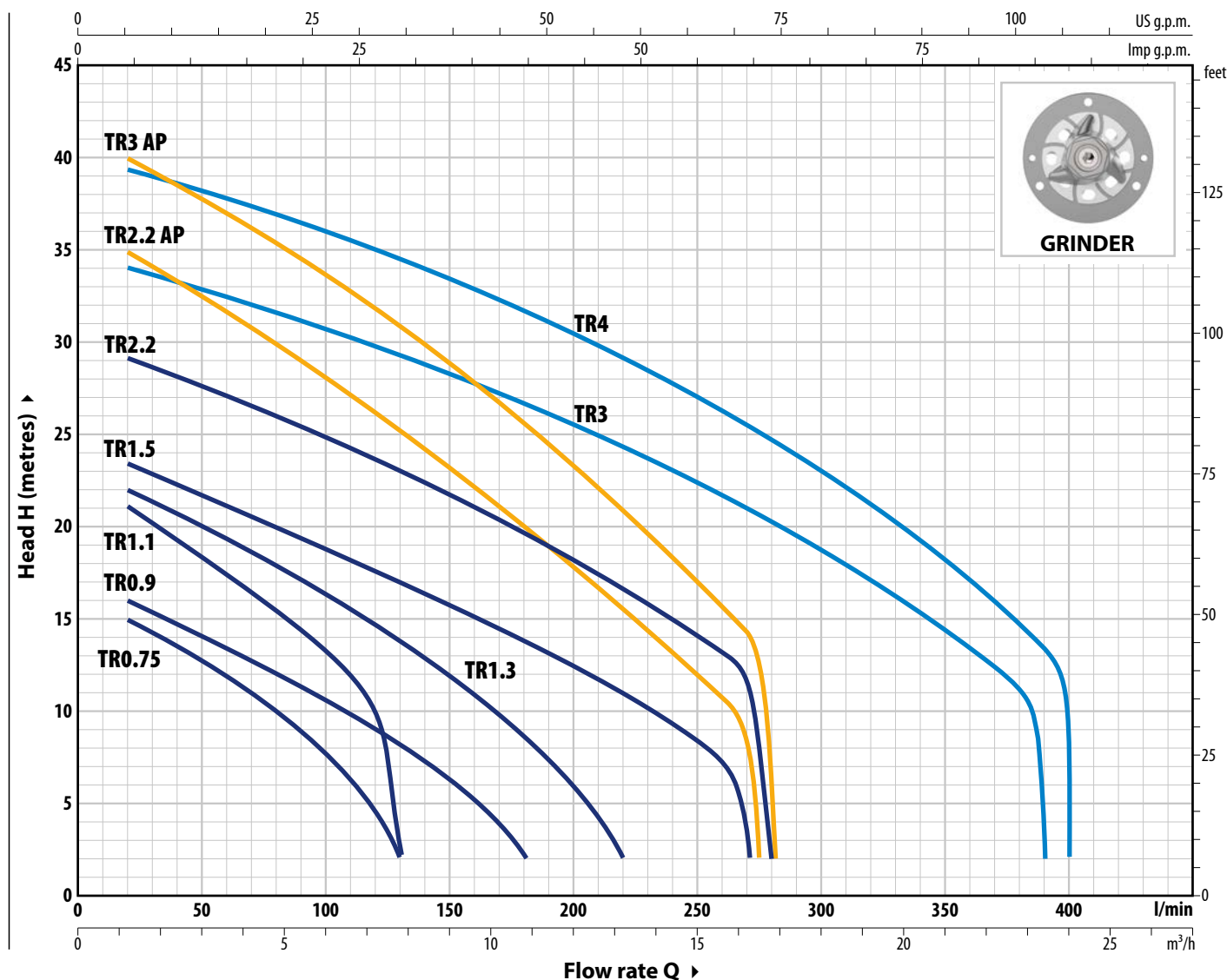
- ✧ **The warranty for the Three-Phase TR 1.5, TR 2.2, TR 2.2 AP, TR3 AP, TR3, TR 4 models remains valid only if the motor's built-in thermal protector is properly connected to the control panel. This connection is essential for the warranty's applicability.**

PATENTS - TRADE MARKS - MODELS

- Patent No. IT0001428923
- Registered Community Model No. 002501486-0002, 008625685-0005, 008625685-0006
- TRITUS® Registered Trade mark No. 013017181

CURVES AND PERFORMANCE DATA

60 Hz



TYPE		POWER (P ₂)		Q	m³/h														
Single-ph.	Three-ph.	kW	HP		0	1.2	2.4	3.6	4.8	6.0	7.2	7.8	10.8	13.2	16.2	16.8			
					0	20	40	60	80	100	120	130	180	220	270	280			
TRm 0.75	TR 0.75	0.75	1	H metres	16.5	15	13.5	11.9	9.9	7.5	4.5	2							
TRm 0.9	TR 0.9	0.9	1.25		17	16	14.5	13.3	12	10.5	9	8.1	2						
TRm 1.1	TR 1.1	1.1	1.5		23	21	19.4	17.5	15.5	13	10	2							
TRm 1.3	TR 1.3	1.3	1.75		23	22	20.8	19.5	18.1	16.5	14.8	13.9	8.5	2					
TRm 1.5	TR 1.5	1.5	2		24.5	23.5	22.3	21.1	20	18.9	17.7	17.1	13.7	10.6	2				
-	TR 2.2	2.2	3		30	29	28	26.9	25.9	24.8	23.6	23	19.7	16.6	12.1	2			

TYPE		POWER (P ₂)		Q	m³/h												
Single-ph.	Three-ph.	kW	HP		0	1.2	3.0	6.0	9.0	12.0	15.0	16.2	16.5	16.8			
					0	20	50	100	150	200	250	270	275	280			
TRm 2.2 AP	TR 2.2 AP	2.2	3	H metres	36.5	35	32.5	28	23.1	17.7	11.6	9	2				
-	TR 3 AP	3	4		41.5	40	38	33.5	29	23.3	16.9	14.1	13.4	2			

TYPE		POWER (P ₂)		Q	m³/h												
Three-phase		kW	HP		0	1.2	3.6	6.0	9.6	12.0	15.0	18	21.6	23.4	24		
					0	20	60	100	160	200	250	300	360	390	400		
TR 3		3	4	H metres	34.5	34	32.3	30.6	27.8	25.7	22.5	18.7	13	2			
TR 4		4	5.5		40	39.5	37.8	35.9	32.7	30.3	27	23.1	17.2	13.4	2		

Q = Flow rate H = Total manometric head

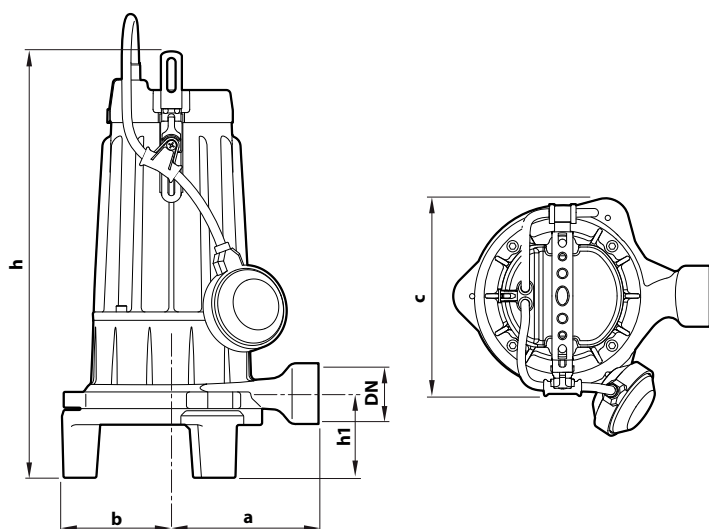
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

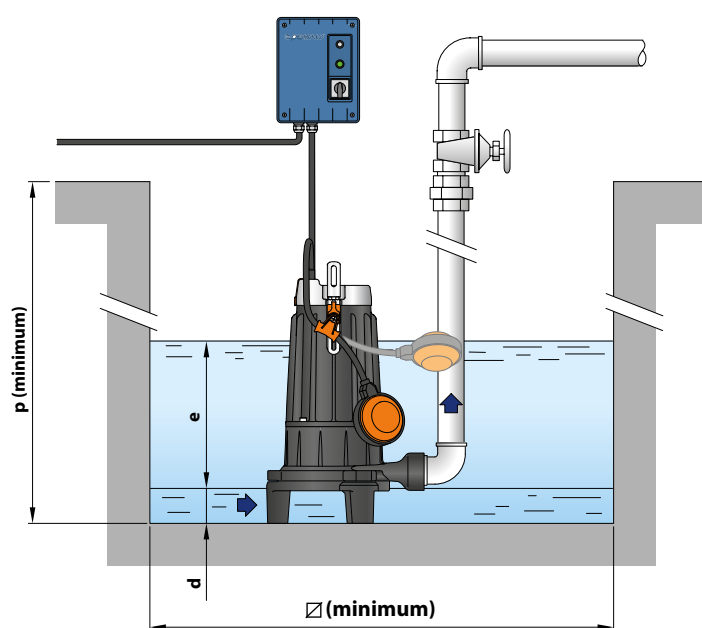
TYPE	VOLTAGE
Single-phase	220 V
TRm 0.75	5.5 A
TRm 0.9	6.5 A
TRm 1.1	7.4 A
TRm 1.3	8.5 A

TYPE	VOLTAGE
Three-phase	380 V
TR 0.75	2.5 A
TR 0.9	2.7 A
TR 1.1	3.2 A
TR 1.3	3.4 A

DIMENSIONS AND WEIGHT



Typical installation



TYPE		PORT DN	DIMENSIONS mm									kg *	
Single-ph.	Three-ph.		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	adjustable	500	500	24.0	22.2
TRm 0.9	TR 0.9											23.9	22.2
TRm 1.1	TR 1.1											25.7	23.1
TRm 1.3	TR 1.3											25.5	23.1

(* weight of pump without control panel)

PALLET CAPACITY

TYPE	NO. OF PUMPS
Single-ph.	
TRm 0.75	36
TRm 0.9	36
TRm 1.1	36
TRm 1.3	36

TYPE	NO. OF PUMPS
Three-ph.	
TR 0.75	60
TR 0.9	60
TR 1.1	60
TR 1.3	60

MATERIALS AND COMPONENTS

1 Pump body Cast iron with cataphoresis treatment

2 Impeller Open type in technopolymer

3 Grinder Hardened **AISI 440C** stainless steel

4 Motor shaft Stainless steel **AISI 431**

5 Motor holder Cast iron with cataphoresis treatment

6 Double mechanical seal in oil chamber

Seal	Shaft	Location	Materials
MG1-14D SIC	Ø 14 mm	Motor side	Silicon carbide / Graphite / NBR
		Pump side	Silicon carbide/Silicon carbide/NBR

7 Electric Motor

TRm: single-phase 220 V - 60 Hz with thermal motor protection

TR: three-phase 380 V - 60 Hz

- Insulation: class F
- Protection rating: IP X8

8 Power cord

※ 10 metres 'H07 RN-F' type

9 Float switch

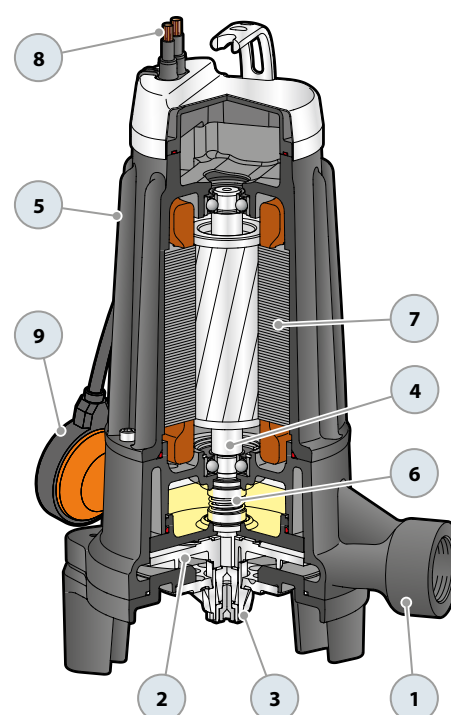
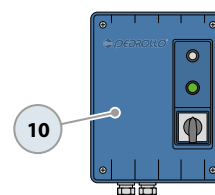
(exclusive to single-phase models)

10 Control panel (exclusive to single-phase models)

Including:

- ON/OFF switch
- manual reset motor protection
- operating capacitor (permanently switched on)
- starting capacitor

Control panel
(standard for single-phase versions)

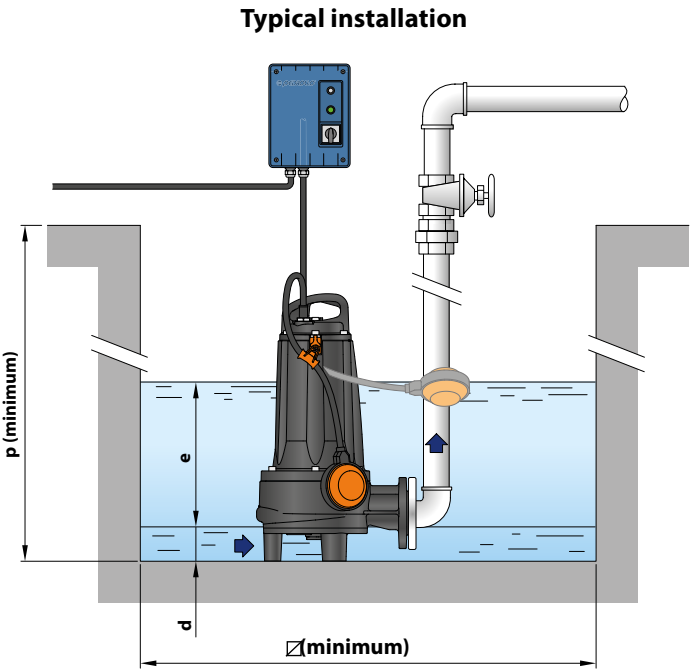
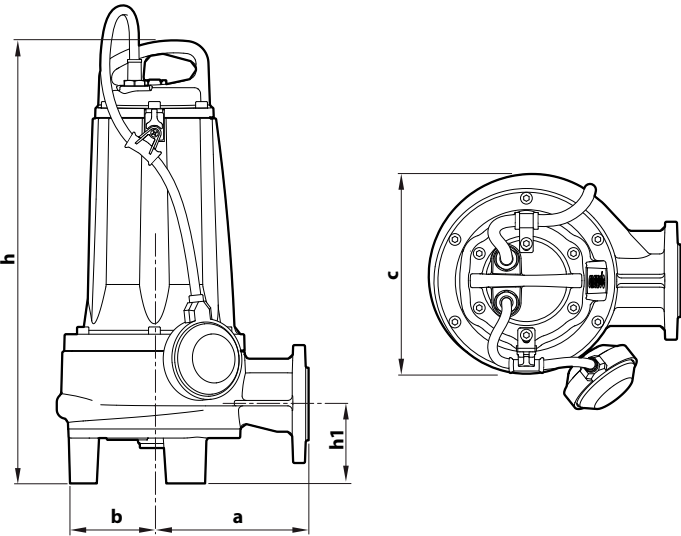


ABSORPTION

TYPE	VOLTAGE
Single-phase	220 V
TRm 1.5	11.0 A

TYPE	VOLTAGE
Three-phase	380 V
TR 1.5	4.5 A
TR 2.2	6.5 A

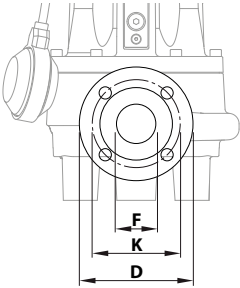
DIMENSIONS AND WEIGHT



TYPE		DIMENSIONS mm									kg	
Single-phase	Three-phase	a	b	c	h	h1	d	e	p	Ø	1~	3~
TRm 1.5	TR 1.5	172	105	221	489	87.5	95	adjustable	800	800	45.0	44.0
-	TR 2.2										-	44.0

PORT FLANGE

TYPE		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						



PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-phase	Three-phase	
TRm 1.5	TR 1.5	12
-	TR 2.2	12

MATERIALS AND COMPONENTS

1 Pump body Cast iron with cataphoresis treatment

2 Impeller Micro-cast **AISI 304** stainless steel

3 Grinder Hardened **AISI 440C** stainless steel

4 Motor shaft Stainless steel **AISI 431**

5 Motor holder Cast iron with cataphoresis treatment

6 Double mechanical seal with interposed oil chamber

Seal	Shaft	Location	Materials
STA-20	Ø 20 mm	Motor side	Ceramic / Graphite / NBR
STA-19	Ø 19 mm	Pump side	Silicon carbide/Silicon carbide/NBR

7 Electric Motor

TRm: single-phase 220 V - 60 Hz with thermal motor protection

TR: three-phase 380 V - 60 Hz

✘ with winding integrated thermal motor protection to be connected to the Control panel

- Insulation: class F
- Protection rating: IP X8

8 Power cord

✘ 10 metres 'H07 RN-F' type

9 Float switch

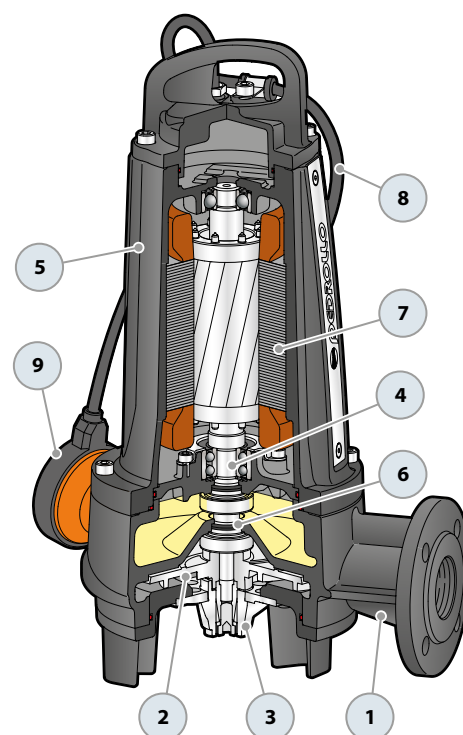
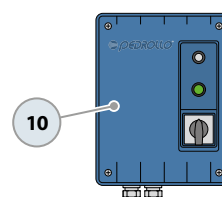
(exclusive to single-phase models)

10 Control panel (exclusive to single-phase models)

Including:

- ON/OFF switch
- manual reset motor protection
- operating capacitor (permanently switched on)
- starting capacitor

Control panel
(standard for single-phase versions)

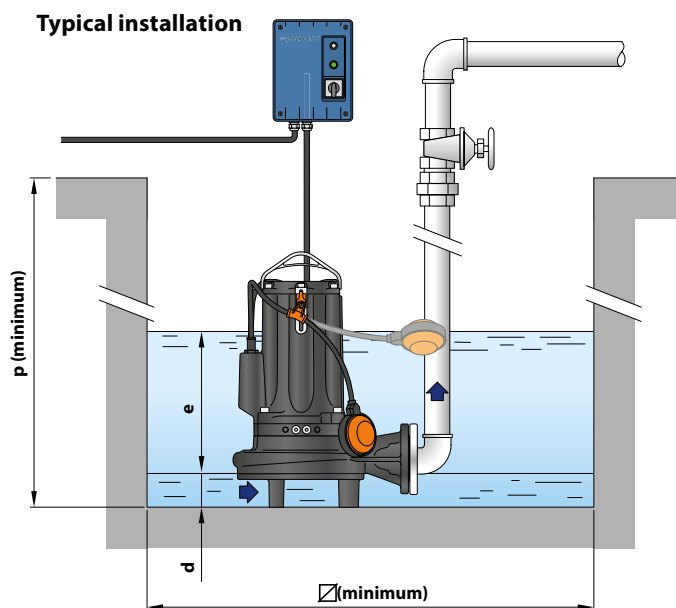
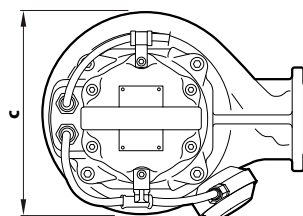
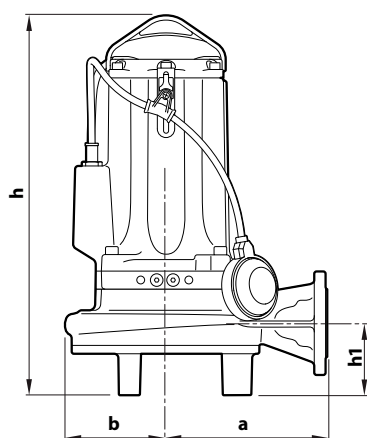


ABSORPTION

TYPE	VOLTAGE
Single-phase	220 V
TRm 2.2 AP	15.0 A

TYPE	VOLTAGE
Three-phase	380 V
TR 2.2 AP	6.5 A
TR 3 AP	7.0 A
TR 3	7.0 A
TR 4	8.0 A

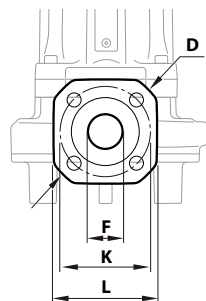
DIMENSIONS AND WEIGHT



TYPE		DIMENSIONS mm									kg		
Single-phase	Three-phase	a	b	c	h		h1	d	e	p	Ø	1~	3~
TRm 2.2 AP	TR 2.2 AP	203	126	256	480	453	90	95	adjustable	800	800	53.5	47.0
—	TR 3 AP				480							—	53.0
—	TR 3											—	53.0
—	TR 4											—	54.0

PORT FLANGE

TYPE	FLANGE	F	K	D	L	HOLES
Single-phase	DN		mm	mm	mm	N° Ø mm
TRm 2.2 AP	40 (PN10)	1½"	110	150	130	4 18
-						
-						
-						



PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-phase	Three-phase	
TRm 2.2 AP	TR 2.2 AP	18
–	TR 3 AP	18
–	TR 3	18
–	TR 4	18

MATERIALS AND COMPONENTS

1 Pump body	Cast iron with cataphoresis treatment
2 Impeller	Open type in micro-cast AISI 304 stainless steel
3 Grinder	Hardened AISI 440C stainless steel
4 Motor shaft	Stainless steel AISI 431
5 Motor holder	Cast iron with cataphoresis treatment
6 Motor bracket	Cast iron with cataphoresis treatment

7 Double mechanical seal with interposed oil chamber

Seal	Shaft	Location	Materials
STA-24	Ø 24 mm	Motor side	Ceramic / Graphite / NBR
STA-22 SIC	Ø 22 mm	Pump side	Silicon Carbide/Silicon Carbide/NBR

8 Electric Motor

TRm: single-phase 220 V - 60 Hz with thermal motor protection

TR: three-phase 380 V - 60 Hz

✘ with winding integrated thermal motor protection to be connected to the Control panel

- Insulation: class F
- Protection rating: IP X8

9 Power cord

✘ 10 metres 'H07 RN-F' type

10 Float switch

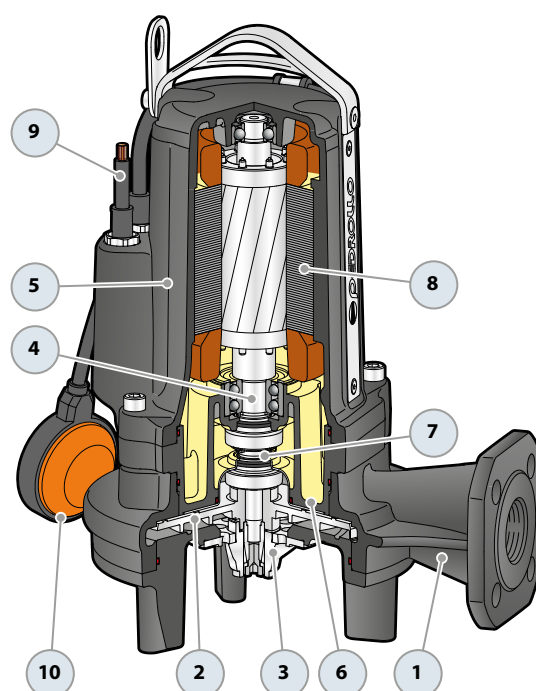
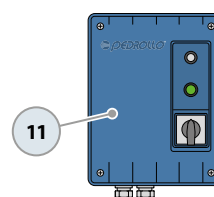
(exclusive to single-phase models)

11 Control panel (exclusive to single-phase models)

Including:

- ON/OFF switch
- manual reset motor protection
- operating capacitor (permanently switched on)
- starting capacitor

Control panel
(standard for single-phase versions)



SEWAGE LIFTING SYSTEM (TRITUS 0.75 - 2.2)

VERSION WITH HORIZONTAL DELIVERY AND ¾" GUIDE PIPES

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

※ Kit consisting of:



Coupling foot



Guide rail



Support for guide tubes



VERSION WITH VERTICAL DELIVERY AND ¾" GUIDE PIPES

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

※ Kit consisting of:



Coupling foot complete with counter-flange



Guide rail



Support for guide tubes



● ACCESSORIES AVAILABLE FOR ORDER

RUNNING GUIDE

※ For TR 0.75, 0.9, 1.1, 1.3	Code ASSFL003
※ For TR 1.5, 2.2	Code ASSFL004

Complete with ring nut and gasket for 0.75, 0.9, 1.1, 1.3

Complete with screws and seals for TR 1.5, 2.2

GUIDE TUBE SUPPORT

※ For Ø ¾ " guide tubes	Code 859SV340INTFA
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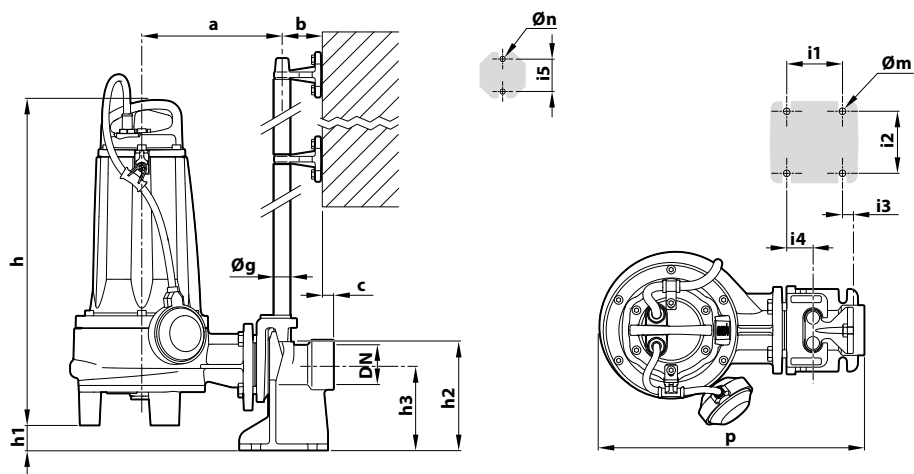
To ensure stability, insert a support every 2 metres along the guide tube

GUIDE TUBE (AISI 304 stainless steel)

※ 2 metres Ø ¾" guide tube	Code 54SARTG0052F
※ 3 metres Ø ¾" guide tube	Code 54SARTG0053F
※ 6 metres Ø ¾" guide tube	Code 54SARTG0056F

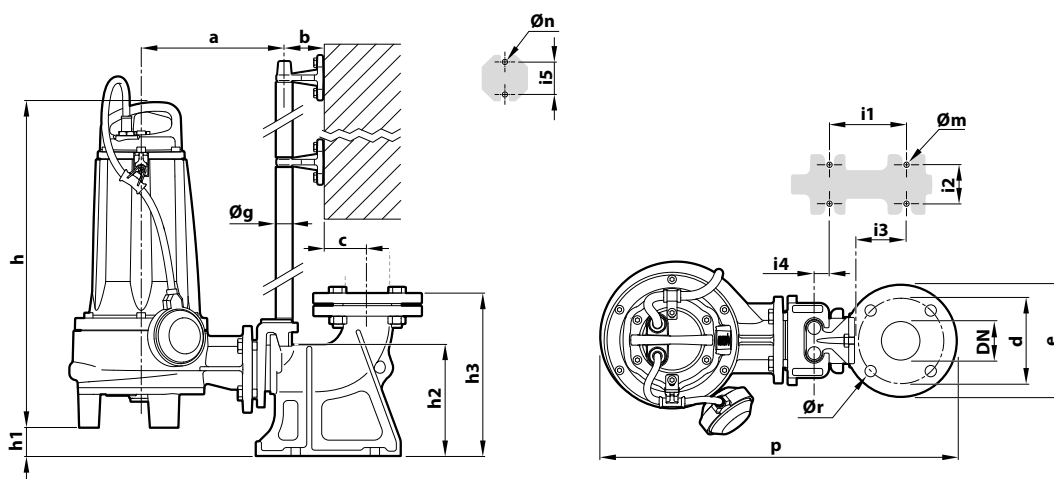


DIMENSIONS (Version with horizontal outlet)



TYPE		PORT DN	Solid bodies	DIMENSIONS mm														
Single-ph.	Three-ph.			a	b	c	p	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn
TRm 0.75	TR 0.75	2"	Ø 7 mm															
TRm 0.9	TR 0.9			212	61	17	395	50	165	130	85	94	16	40	50	¾"	14	11
TRm 1.1	TR 1.1																	
TRm 1.3	TR 1.3																	
TRm 1.5	TR 1.5	2"	Ø 7 mm	215	61	17	400	42.5	165	130	85	94	16	40	50	¾"	14	11
-	TR 2.2																	

DIMENSIONS (Version with vertical delivery)



TYPE		PORT DN	Solid bodies	DIMENSIONS mm														
Single-ph.	Three-ph.			a	b	c	d	e	p	h1	h2	h3	i1	i2	i3	i4	i5	Øg
TRm 0.75	TR 0.75	2½"	Ø 7 mm															
TRm 0.9	TR 0.9			206	61	51.5	125	165	505	48	163.5	215.5	120	72	62	3	50	¾"
TRm 1.1	TR 1.1																	
TRm 1.3	TR 1.3																	
TRm 1.5	TR 1.5	2½"	Ø 7 mm	211	61	51.5	125	165	514	40	163.5	215.5	120	72	62	3	50	¾"
-	TR 2.2																	

SEWAGE LIFTING SYSTEM (TRITUS 2.2 AP - 3 AP - TR3 - TR4)

VERSION WITH HORIZONTAL DELIVERY AND 3/4" GUIDE PIPES

For TR 2.2 AP, 3 AP, 3, 4	Code ASSPTRITUS61	DN 2"
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※ Kit consisting of:



VERSION WITH VERTICAL DELIVERY AND 3/4" GUIDE PIPES

For TR 2.2 AP, 3 AP, 3, 4	Code ASSPTRITUS61V	DN 2 1/2"
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※ Kit consisting of:



● ACCESSORIES AVAILABLE FOR ORDER

RUNNING GUIDE

※ For TR 2.2 AP, 3 AP, 3, 4	Code ASSFL014
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Complete with screws and seals

GUIDE TUBE SUPPORT

※ For Ø 3/4 " guide tubes	Code 859SV340INTFA
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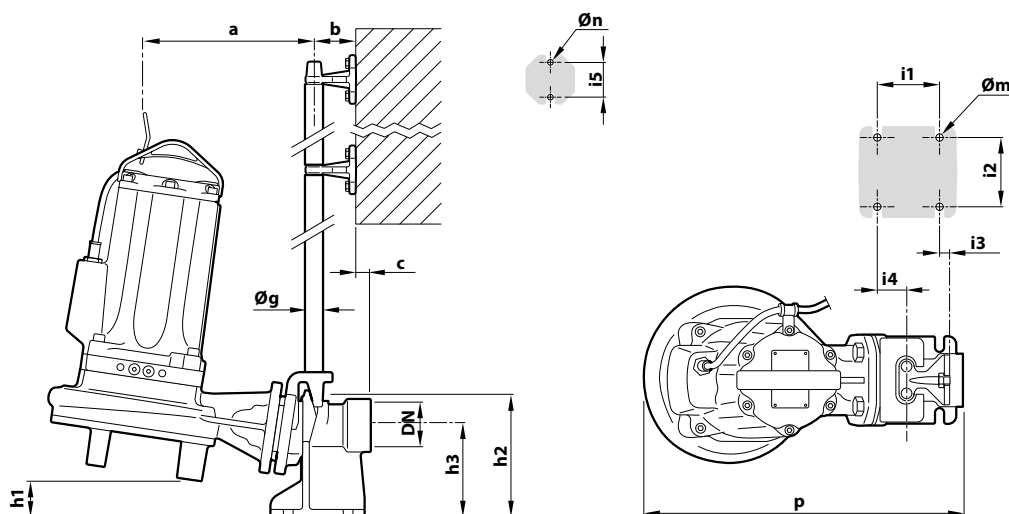
To ensure stability, insert a support every 2 metres along the guide tube

GUIDE TUBE (AISI 304 stainless steel)

※ 2 metres Ø 3/4" guide tube	Code 54SARTG0052F
※ 3 metres Ø 3/4" guide tube	Code 54SARTG0053F
※ 6 metres Ø 3/4" guide tube	Code 54SARTG0056F

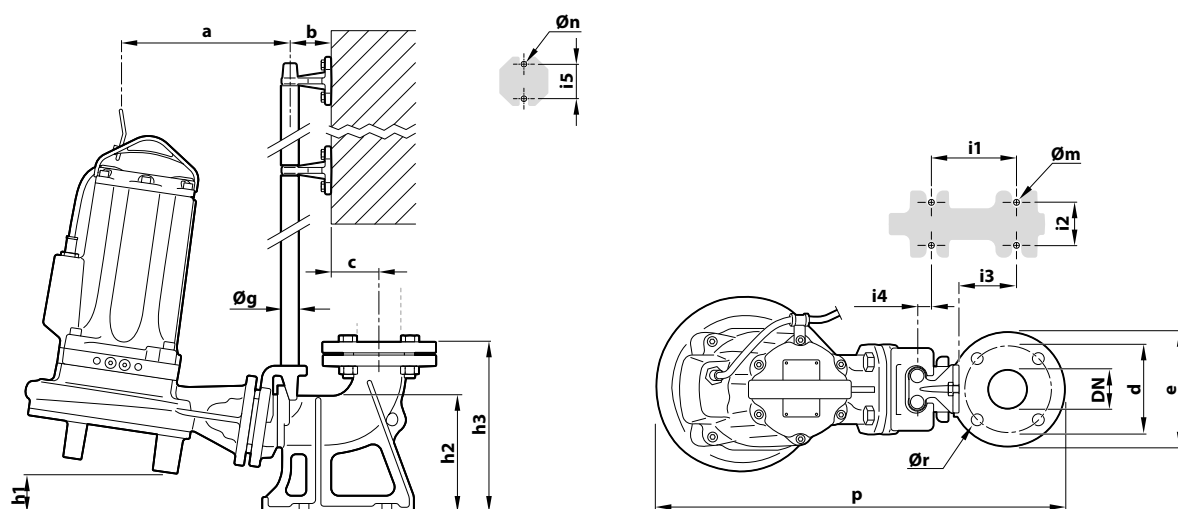


DIMENSIONS (Version with horizontal outlet)



TYPE	PORT DN	Solid bodies	DIMENSIONS mm														
			a	b	c	p	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn
TR 2.2 AP	2"	Ø 7 mm	228	61	17	455	71	165	130	85	94	16	40	50	3/4	14	11
TR 3 AP																	
TR 3																	
TR 4																	

DIMENSIONS (Version with vertical delivery)



TYPE	PORT DN	Solid bodies	DIMENSIONS mm																	
			a	b	c	d	e	p	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn	Ør
TR 2.2 AP	2½"	Ø 7 mm	225	61	51.5	125	165	569	69	163.5	215.5	120	72	62	3	50	3/4	14	11	18
TR 3 AP																				
TR 3																				
TR 4																				