





**TRITUS INOX** is a submersible electric pump with grinder system, versatile and reliable for handling domestic wastewater, especially toilet blackwater.

It is equipped with a professional offset cutting grinder system combined with a low-energy motor, which guarantees efficient operation and prevents clogging caused by particularly problematic objects such as: soft plastic, cloth objects, sanitary towels, wet wipes, latex gloves and other hygiene products.

The grinder unit reduces destructible suspended solids and filamentous substances into small pieces, allowing domestic wastewater to be easily pumped either vertically or horizontally over long distances to the sewer mains or through relatively small diameter pipes.

**TRITUS INOX** is ideal in single- or two-family houses when gravity sewage systems are not available and there are high gradients or pressure drops; its design features also make it easy to install and simple to handle in the event of maintenance.

- The grinder is made entirely of high-strength hardened AISI 440C stainless steel
- \* Double mechanical seal separated by an oil chamber
- \* All the cast iron parts are epoxy coated
- \* The motor case is made of stainless steel





# **PERFORMANCE RANGE**

- Flow rate up to **140 l/min** (8.4 m<sup>3</sup>/h)
- Head up to 18.5 m

#### **APPLICATION LIMITS**

- Installation depth below the water level down to **5 m** (with a suitable power cable length)
- Maximum liquid temperature +40°C
- Suction down to:
  85 mm
- Minimum immersion depth for continuous service: **250 mm**

# **CONSTRUCTION AND SAFETY STANDARDS**

- Power cable length 10 m
- External float switch

# **INSTALLATION AND USE**

**TRITUS INOX** series grinding pumps are equipped with a **high-strength hardened stainless steel GRINDER** that thoroughly grinds solid bodies and fibres contained in drainwater and wastewater in domestic systems, for conveying under pressure in the sewerage system through small diameter pipes.

# **PATENTS - TRADEMARKS - MODELS**

- Patent No. EP2313658
- Patent No. IT0001428923
- Registered EU Design
- No. 002501486-0002, 008625685-0005, 008625685-0006
- TRITUS<sup>®</sup> Registered trademark No. 013017181

#### **OPTIONS AVAILABLE ON REQUEST**

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

#### WARRANTY

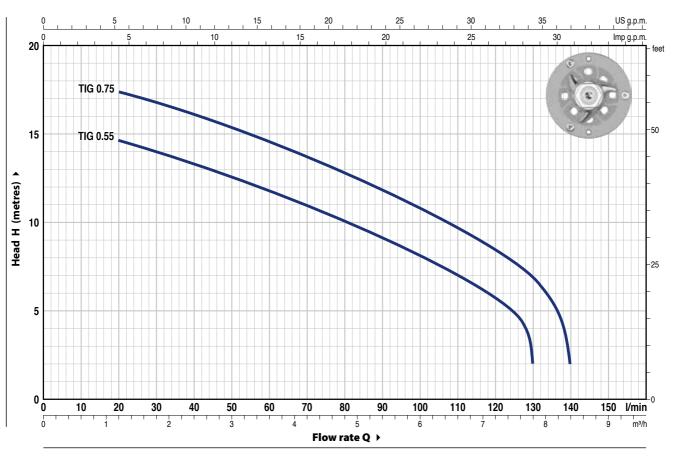
2 years as per our general terms and conditions of sale





# **CHARACTERISTIC CURVES AND PERFORMANCE DATA**

# 50 Hz n= 2900 min<sup>-1</sup>



MODEL	POWE	R (P2)	$\mathbf{Q} \frac{\mathrm{m}^{3}/\mathrm{h}}{\mathrm{l/min}}$	0	1.2	2.4	3.6	4.8	6	7.2	7.8	8.4
Single-phase	kW	HP		0	20	40	60	80	100	120	130	140
TIGm 0.55	0.55	0.75		16	14.5	13.3	11.8	10.1	8.1	5.7	2	
TIGm 0.75	0.75	1	<b>H</b> metres	18.5	17.5	16.1	14.6	12.8	10.8	8.4	7	2

 $\mathbf{Q} = Flow rate \mathbf{H} = Total manometric head$ 

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















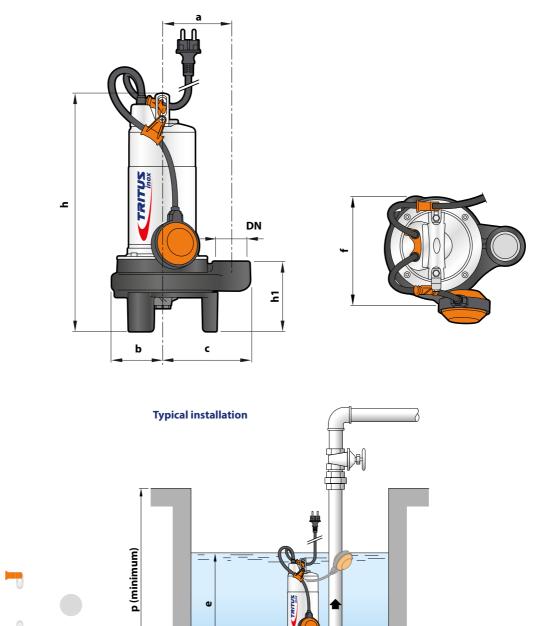
POS.	COMPONENT	CONSTRUCT		RISTICS						
1	PUMP BODY	Cast iron with epoxy coating, with threaded port in compliance with ISO 228/1								
2	IMPELLER	Technopolyme	Technopolymer open type							
3	GRINDER	Hardened AISI	Hardened AISI 440C stainless steel							
4	MOTOR SHAFT	Stainless steel A	NISI 431							
5	MOTOR CASING	Stainless steel A	AISI 304							
6	DOUBLE MECHANICA	L SEAL IN OIL CHA	MBER							
	Seal	Shaft	Position		Materials					
	Model	Diameter		Stationary ring	Rotational ring	Elastomer				
	MG1-14D SIC	<b>Ø 14</b> mm	Motor side Pump side	Silicon carbide Silicon carbide	Graphite Silicon carbide	NBR NBR				
7	BEARINGS	6303 2RS-C3 /	6203 ZZ-C3E							
8	ELECTRIC MOTOR									
	<b>TIGm</b> : single-phase 230 with thermal ove the winding	) V - 50 Hz erload protector inc	corporated into		A B	9				
	– Insulation: class F – Protection: IP X8									
9	POWER CABLE					7				
	"H07 RN-F" type <u>Standard length 10 me</u>	<u>etres</u>				8				
10	EXTERNAL FLOAT SWI	тсн				5				
				4						
				6						
				2						
					TARAD					
				10		1				

3





# **WEIGHT AND DIMENSIONS**



MODEL	PORT	DIMENSIONS mm									kg	
Single phase	DN	a	b	с	f	h	h1	d	e	р		1~
TIGm 0.55	1½"	115	0.5	147	477	200			ustable			15.0
TIGm 0.75		- 1½"	115	85	147	177	398	117	65	adjus	500	500

ばminimum)

σ





#### **ABSORPTION**

MODEL	VOLTAGE					
Single phase	230 V	240 V				
TIGm 0.55	<b>4.5</b> A	<b>4.3</b> A				
TIGm 0.75	5.5 A	<b>5.3</b> A				

# CAPACITOR

MODEL	CAPACITY				
Single-phase (230 V or 240 V)	Running capacitor				
TIGm 0.55	<b>25</b> μF 450 VL				
TIGm 0.75					

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.

#### Pedrollo S.p.A.

Via Enrico Fermi, 7 - 37047 San Bonifacio (Verona) Italy tel. +39 045 6136311 - fax +39 045 7614663 vendite@pedrollo.com - sales@pedrollo.com - www.pedrollo.com https://szivattyuk.hu **MADE IN ITALY** 

Z-DPL90089UK\_01