









**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 m³/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 the household, civic and industrial sectors, 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® Registered trademark No. 013017181

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

- Single-phase electric pumps without a float switch
- Other voltages

#### **WARRANTY**

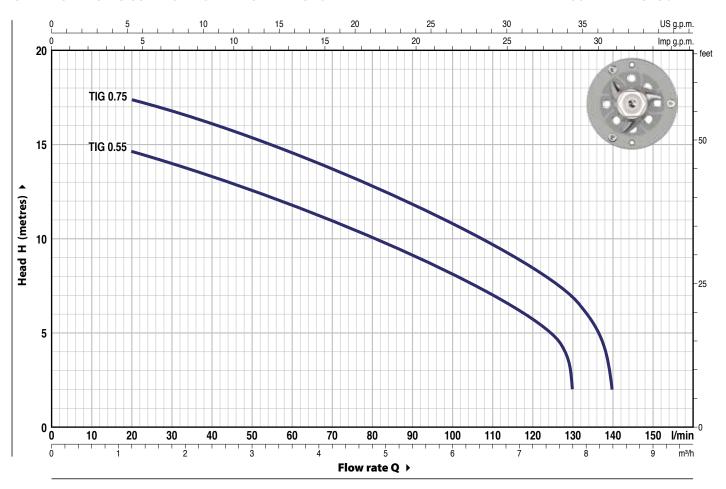
2 years as per our general terms and conditions of sale





#### **CHARACTERISTIC CURVES AND PERFORMANCE DATA**

#### 60 Hz n= 3450 min<sup>-1</sup>



MODEL	POWE	R (P2)	m³/h	0	1.2	2.4	3.6	4.8	6	7.2	7.8	8.4
Single-phase	kW	HP	Q //min	0	20	40	60	80	100	120	130	140
TIGm 0.55	0.55	0.75	<b>H</b> metres	16	14.5	13.3	11.8	10.1	8.1	5.7	2	
TIGm 0.75	0.75	1		18.5	17.5	16.1	14.6	12.8	10.8	8.4	7	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 epoxy coating, with threaded port in compliance
--

2	IMPELLER	Technopolymer open type
_	***************************************	recimopolymer open type

#### **3 GRINDER** Hardened AISI 440C stainless steel

#### 4 MOTOR SHAFT Stainless steel AISI 431

#### 5 MOTOR CASING Stainless steel AISI 304

#### 6 DOUBLE MECHANICAL SEAL IN 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
MIG 1-14D SIC	<b>9 14</b> mm	Pump side	Silicon carbide	Silicon carbide	NBR

#### 7 BEARINGS 6303 2RS-C3 / 6203 ZZ-C3E

#### 8 ELECTRIC MOTOR

**TIGm**: single-phase 220 V - 60 Hz

with thermal overload protector incorporated into

the winding

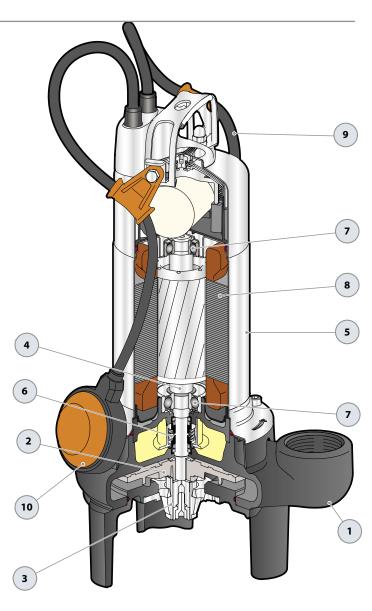
Insulation: class FProtection: IP X8

#### 9 POWER CABLE

"H07 RN-F" type

**Standard length 10 metres** 

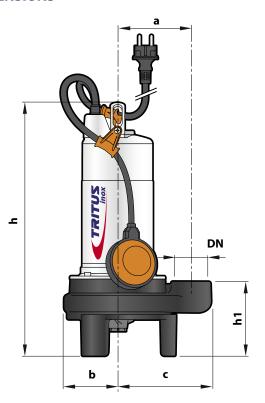
#### 10 EXTERNAL FLOAT SWITCH

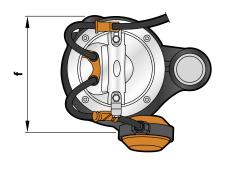


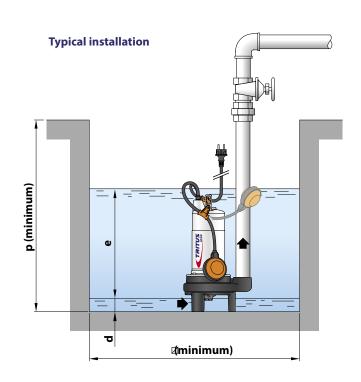




### **WEIGHT AND DIMENSIONS**







MODEL	PORT		DIMENSIONS mm								kg		
Single phase	DN	a	b	С	f	h	h1	d	e	р		1~	
TIGm 0.55	41/11	115	0.5	147	177	200	117	65	table	500	500	14,5	
TIGm 0.75	11/2"	11/2"	115	85	147	177	398	117	65	adjus	500	500	14,7





ABSORPTION		
MODEL	VOLTAGE	
Single phase	220 V	
TIGm 0.55	<b>4.5</b> A	
TIGm 0.75	<b>5.5</b> A	

#### **CAPACITOR**

MODEL	CAPACITY				
Single-phase (220 V)	Running capacitor				
TIGm 0.55	<b>35</b> (450.)//				
TIGm 0.75	<b>25</b> μF 450 VL				

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.