

<b>Code</b>	48SHT05A1
<b>Family</b>	TRITUS Small
<b>Group</b>	Sewage water with grinder
<b>Typology</b>	Submersible

<b>Extra UE Only</b>	No
<b>Uses</b>	Civil Household

## Application limits

<b>Liquid Type</b>	Sewage Water
<b>Minimum liquid temperature</b>	0 °C
<b>Maximum liquid temperature</b>	40 °C
<b>Maximum Chlorine Content</b>	- ppm
<b>Maximum Sand Content</b>	- ppm
<b>Manometric suction lift</b>	0 m
<b>Maximum immersion depth</b>	10.00 m
<b>Maximum Ambient Temperature</b>	- °C
<b>Minimum Ambient Temperature</b>	- °C
<b>Maximum Working Pressure</b>	- bar

## Duty Point

<b>Flow rate (actual)</b>	0.000 l/min
<b>Head (actual)</b>	0.000 m

## Pump nameplate data

<b>Flow rate</b>	20 - 220 l/min
<b>Head</b>	22.5 - 2 m
<b>Maximum head</b>	23.6 m
<b>Minimum head</b>	2 m
<b>Minimum Efficiency Index</b>	-

## Motor nameplate data

<b>Voltage</b>	220-240 V
<b>Phases</b>	1
<b>Frequency</b>	50 Hz
<b>Rotation Speed</b>	2900 rpm
<b>Rated output power</b>	1.30 kW
<b>Rated Current</b>	9 A
<b>Input power P1</b>	1.85 kW
<b>Efficiency grade</b>	Undefined
<b>Capacitor</b>	25 µF
<b>Capacitor Voltage</b>	450 V
<b>Insulation Class</b>	F
<b>Enclosure class IP</b>	X8

## Construction and safety standards

The pumps are complete with:

- 10 m long power cable
- External float switch for single-phase versions

EN 60335-1, IEC 60335-1  
EN 60034-1, IEC 60034-1

## Connections

<b>Type of connection</b>	Gas threaded
<b>Size of suction connection</b>	-
<b>Size of delivery connection</b>	1 1/4"

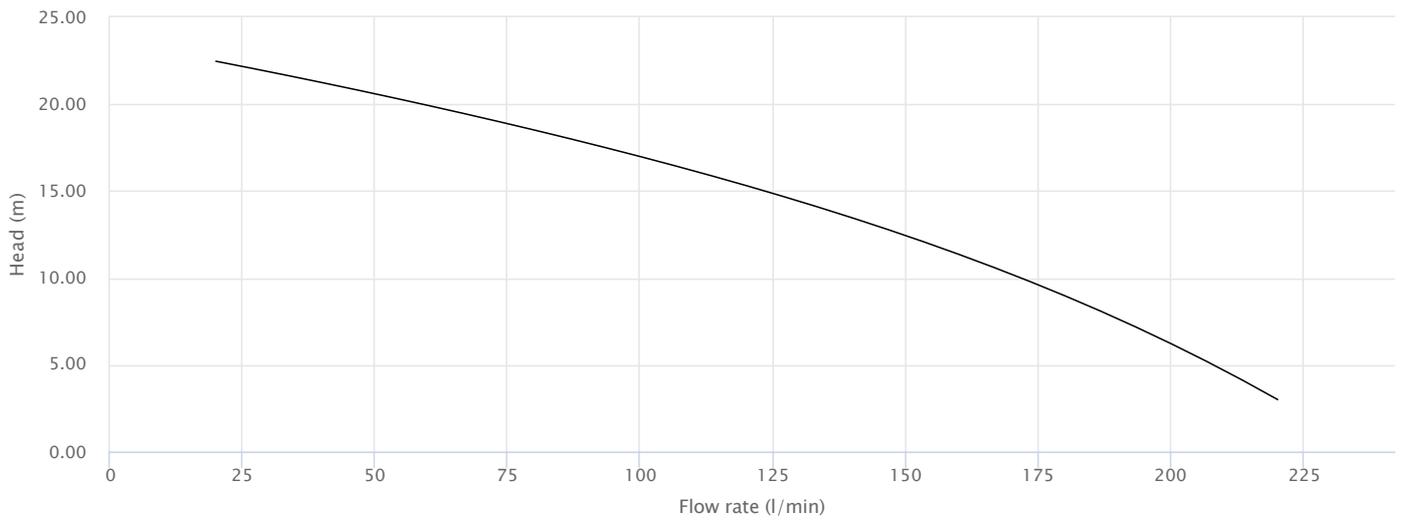
## Input Data

<b>Rated flow rate (requested)</b>	0.000 l/min
<b>Rated head (requested)</b>	0.000 m
<b>System geodetic head</b>	0.000 m
<b>System friction losses</b>	0.000 m
<b>NPSH Available</b>	0.000 m
<b>Liquid</b>	Water
<b>Temperature</b>	20 °C
<b>Density</b>	998.1 kg/m <sup>3</sup>
<b>Kinematic Viscosity</b>	1.00 mm <sup>2</sup> /s
<b>Vapour Pressure</b>	2,318 Pa

## Other Pump Data

<b>Max Sound Pressure Level (1 m)</b>	- dBA
<b>Horizontal installation</b>	No
<b>Solids free passage</b>	- mm

**Performance**



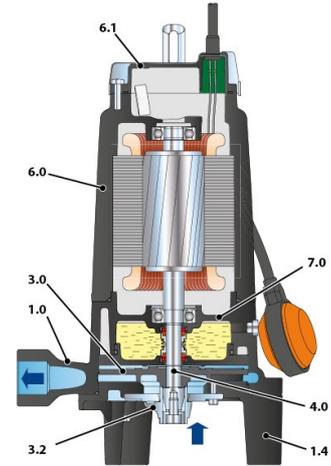
**Construction**

**Bearings**

Motor bearing - pump side	6303 ZZ-C3E
Motor bearing - opposite side	6303 ZZ-C3E

**Shaft Seal**

Seal Type	Double mechanical seal in an oil chamber
Diameter MS	14
Stationary Ring MS	Silicon Carbide
Rotating Ring MS	Graphite
Elastomer MS	NBR
Pump Side Model	MG1-14D SIC
Diameter PS	14
Stationary Ring PS	Silicon Carbide
Rotating Ring PS	Silicon Carbide
Elastomer PS	NBR



**Materials**

1.0 - Pump casing	Grey cast iron GJL 200 EN 1561
1.4 - Base	Grey cast iron GJL 200 EN 1561
3.0 - Impeller	Reinforced technopolymer
3.2 - Grinder	Stainless steel EN 1.4125 (AISI 440C) hardened
4.0 - Pump Shaft	Stainless steel EN 1.4057 (AISI 431)
6.0 - Motor casing	Grey cast iron GJL 200 EN 1561
6.1 - Motor Cover	Grey cast iron GJL 200 EN 1561
7.0 - Bracket	Grey cast iron GJL 200 EN 1561

**Dimensions**

DN2	a	b	c	d	h	h1	p	x	Kg
	[mm]								
1 1/4"	140	104	186	85	406	80	500	500	24.9

