

GRP

Impeller with grinder system

All product images are indicative only



General characteristics

| Impeller with grinder system | |
|------------------------------|------------------------|
| motor power | 7,2 kW |
| poles | 2 |
| discharge | GAS 2" DN32 horizontal |
| free passage | - |
| max flow rate | 6.7 l/s |
| max head | 53.9 m |

Electromechanical assembly

Electromechanical assembly in GJL-250 cast iron, for submerged operation. Seal set comprising 2 (two) silicon carbide mechanical seals installed in series in inspectable oil sump and 1 (one) opposed graphite-alumina lip seal lubricated by the motor oil. Oil bath motor.

Applications

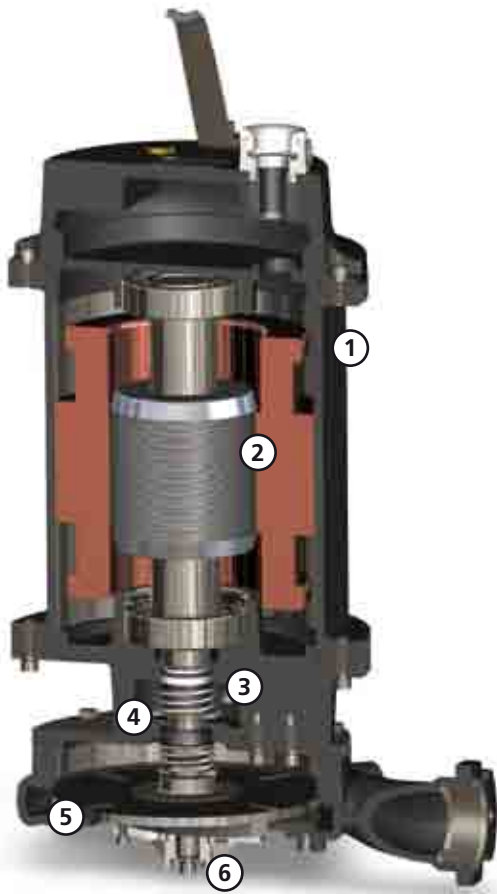
Designed for professional and industrial use, it is suitable for the treatment of liquids containing suspended solids or fibres, and low or medium density activated sludges.

Construction materials

| | |
|----------------------------------|---|
| Case | Cast iron - EN-GJL 250 |
| Impeller | Cast iron EN-GJL-250 |
| Nuts and bolts | Stainless steel - Class A2-70 |
| Standard gasket | Rubber - NBR |
| Cutter material | Chromium steel - X102 CrMo17 KU |
| Cutting disk material | Chromium steel - X102 CrMo17 KU |
| Shaft | Stainless steel - AISI 420 |
| Paint type | Ecological bicomponent epoxy (medium thickness 150 µm) |
| Set of standard mechanical seals | Two silicon carbide mechanical seals (2SiC) and one carbon-aluminium oxide mechanical seal (AL) |

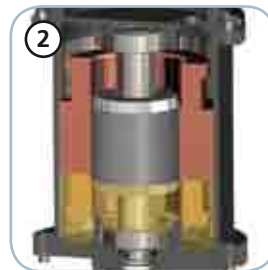
Operating limits

| | |
|-------------------------------|----------------------|
| Maximum operating temperature | 40 °C |
| PH of treated fluid | 6 ÷ 14 |
| Viscosity of treated fluid | 1 mm ² /s |
| Maximum immersion depth | 20 m |
| Density of treated fluid | 1 Kg/dm ³ |
| Maximum acoustic pressure | 70 dB |
| max starts per hour | 20 |



Structure

Constructed in GJL-250 cast iron.



Motor

Oil-bath motor with thermal protections.



Mechanical seals

Two mechanical seals in silicon carbide (2SiC) and one mechanical seal in alumina graphite (AL) for maximum reliability even in heavy-duty applications.



Oil sump

Large oil sump to guarantee longer mechanical seal lifetime.



Anti-clogging system

The special design of the hydraulic part ensures the expulsion of suspended solids and prevents fouling of the impeller.



Grinder system

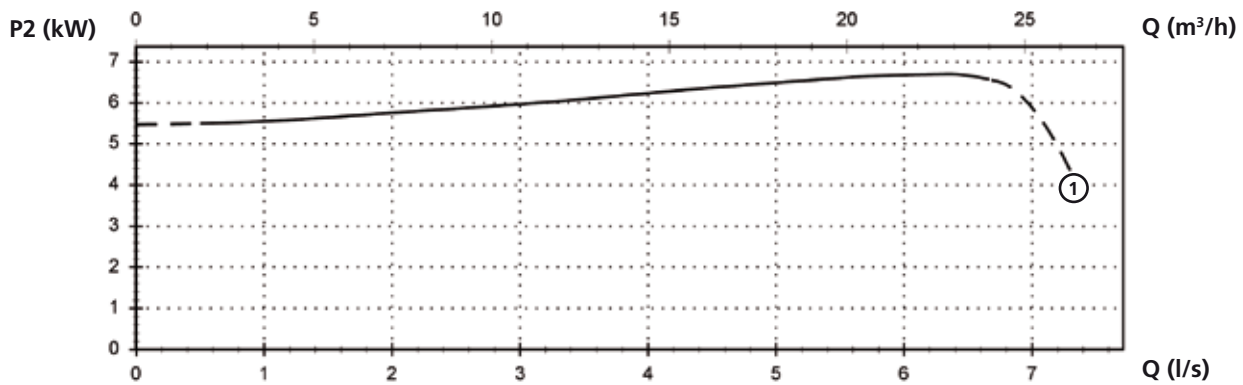
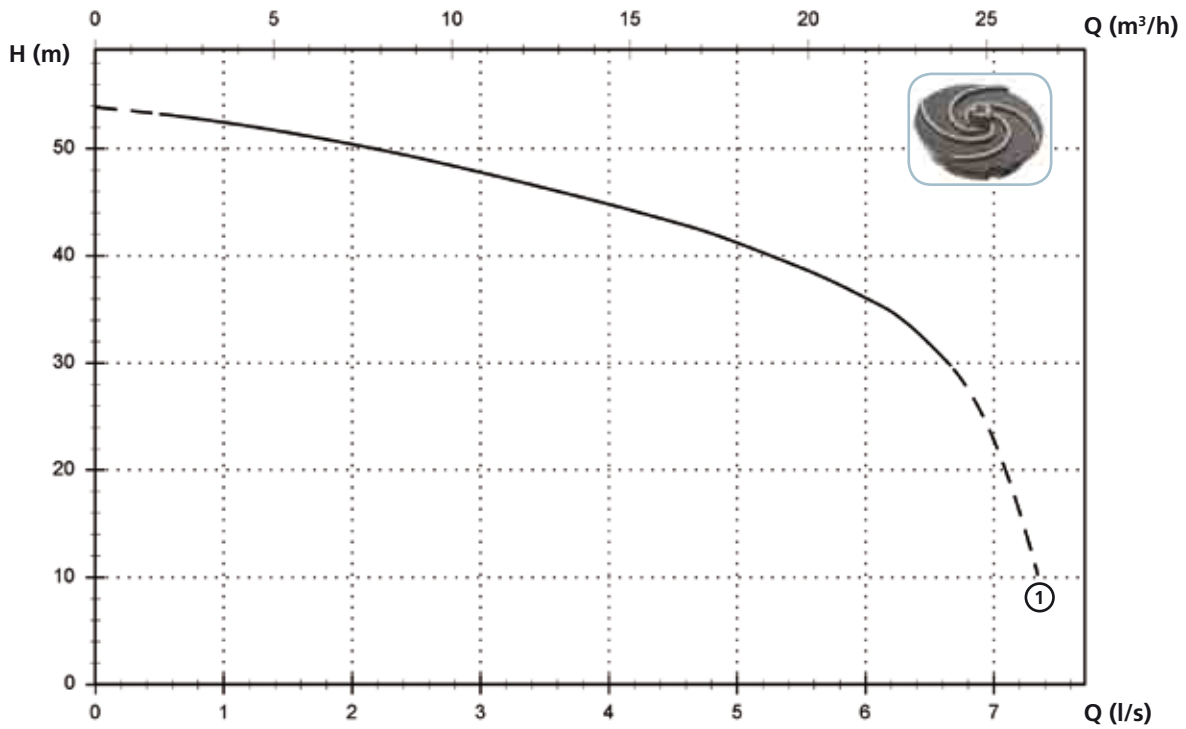
Grinder system comprising a revolving cutter and a plate with holes with sharpened edges that fine-chops filaments, preventing fouling of the impeller.

Up to 69.000 cuts per minute

GRP

Models with horizontal GAS 2" threaded - DN32 PN6 flanged discharge - 2 poles

Performances



Technical data

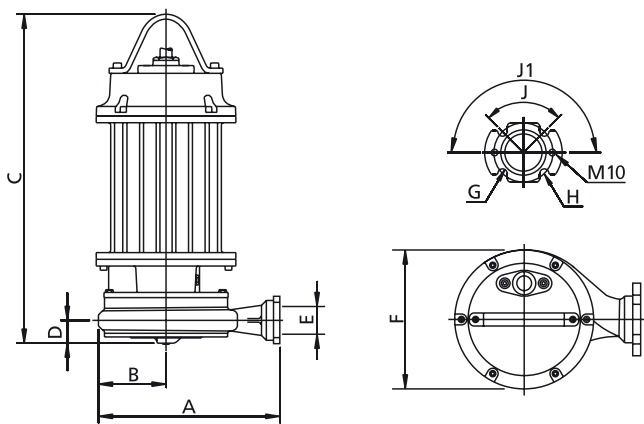
| | V | Phases | P1 (kW) | P2 (kW) | A | Rpm | Start | Ø | Free passage | |
|---|------------------------|--------|---------|---------|-----|------|-------|-----|--------------|---|
| ① | GRP 750/2/G50H A0HT/50 | 400 | 3 | 8.8 | 7.2 | 14.5 | 2900 | Y Δ | G2"-DN32 PN6 | - |

Versions available

(Key to versions on page 16)

| | Electrical variants | | | | | | | | | | Cooling | | | | Mechanical seals | | | | | |
|------------------------|---------------------|---|--------|-------------|------------------|-----------------------|-------------|------------------|-----------------------|--------|---------|-------------|---|-----------|------------------|------------------|------|------|-------|--------|
| | N A E | T | T C | T C D | T C D T | T C D G T | T C G | T C S T | T C S G T | T S | T R | T R G | N | CC CCE | FT | C G F T | 2SIC | SICM | SICAL | 2SICAL |
| GRP 750/2/G50H A0HT/50 | ● | | | | | | | | | ● | | | ● | | | | | | | ● |

Overall dimensions and weights



| | A | B | C | D | E | F | G | H | J | J1 | kg |
|------------------------|-----|-----|-----|----|------|-----|----|----|-----|------|----|
| GRP 750/2/G50H A0HT/50 | 350 | 130 | 670 | 80 | G 2" | 270 | 14 | 90 | 90° | 180° | 91 |

Dimensions in mm

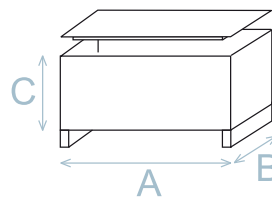
All weights and dimensions are indicative only

Packaging dimension

| | A | B | C |
|------------------------|-----|-----|-----|
| GRP 750/2/G50H A0HT/50 | 725 | 445 | 415 |

Dimension in mm

All weights and dimensions are indicative only



Installations available

