Pioneering for You

# Wilo-Rexa FIT-S

## Efficient submersible sewage pump in non-clog design with macerator for reliable pressure drainage in commercial properties

The Wilo-Rexa FIT-S grinder pump ensures reliable pressure drainage in accordance with EN 12050-1 in commercial applications. The radial macerator with double shear effect reliably chops the solids. Clogging is prevented and safe operation is ensured. In addition, the overall costs are significantly minimised. Firstly, the optimised hydraulics provide a high degree of efficiency along with the maximum delivery head. Secondly, the smallest possible pipework can be connected. The high-quality stainless steel motor is light and easy to maintain. On the other hand, the motor is extremely corrosion-resistant, even when the motor is non-immersed. A high-quality seal with two mechanical seals ensures a long service life.

### Recommended services

Wilo-Live Assistant | Commissioning | Maintenance

### Your advantages

- Excellent anti-clogging reliability due to radial macerator with double shear effect
- Optimised hydraulics/macerator combination for a wide coverage of delivery head
- Low overall installation costs thanks to the use of smallest possible piping
- Designed for an easy selection covering the needs of various building types
- Long service life due to high-quality motor with two mechanical seals and optional sealing chamber monitoring
- High corrosion resistance, even with non-immersed motor, thanks to stainless-steel motor housing


## Product features

1. Radial macerator with double shear effect
2. Motor made of corrosion-resistant stainless steel
3. Motor seal with two mechanical seals
4. Optional monitoring of the sealing chamber
5. Version with float switch available for level-dependent control

## Product list

| Product description | Operating mode (non-immersed) | Discharge port | Rated power $P_2$ | Connection cable length *L* | Explosion protection ATEX *ATEX* | Article number |
|---|---|---|---|---|---|---|
| Rexa FIT-S03-112A/21M011-523/A | S2-15 min | DN 32/40 | 1.1 kW | 10 m | no | 6094356 |
| Rexa FIT-S03-112A/21M011-523/P | S2-15 min | DN 32/40 | 1.1 kW | 10 m | no | 6093111 |
| Rexa FIT-S03-112A/21T011-540/O | S2-15 min | DN 32/40 | 1.1 kW | 10 m | no | 6093112 |
| Rexa FIT-S03-123A/21M015-523/A | S2-15 min | DN 32/40 | 1.5 kW | 10 m | no | 6094355 |
| Rexa FIT-S03-123A/21M015-523/P | S2-15 min | DN 32/40 | 1.5 kW | 10 m | no | 6093109 |
| Rexa FIT-S03-123A/21T015-540/O | S2-15 min | DN 32/40 | 1.5 kW | 10 m | no | 6093110 |
| Rexa FIT-S03-224A/21T025-540/O | S2-15 min | DN 32/40 | 2.5 kW | 10 m | no | 6093108 |

## Data sheet

### Hydraulic data

| | |
|---|---|
| Maximum operating pressure $p$ | 3.08 bar |
| Discharge port | DN 32/40 |
| Free ball passage of the hydraulics | 10 mm |
| Impeller type | Two-channel impeller with macerator |
| Max. immersion depth | 7 m |
| Max. delivery head $H_{max}$ | 28.0 m |
| Max. volume flow $Q_{max}$ | 18.5 m³/h |
| Min. fluid temperature $T_{min}$ | 3 °C |
| Max. fluid temperature $T_{max}$ | 40 °C |
| Min. ambient temperature $T_{min}$ | 3 °C |
| Max. ambient temperature $T_{max}$ | 40 °C |

### Motor data

| | |
|---|---|
| Motor Identifier | S 13.1-08/EAD0-2-M 1,1kW |
| Mains connection | 1~230 V, 50 Hz |
| Voltage tolerance | ±10 % |
| Rated power $P_2$ | 1.1 kW |
| Power consumption $P_{1\ max}$ | 1.59 kW |
| Rated current $I_N$ | 7.2 A |
| Starting current $I$ | 29 A |
| Operating mode (immersed) | S1 |
| Operating mode (non-immersed) | S2-15 min |
| Rated speed $n$ | 2899 1/min |
| Power factor $cos\ \varphi$ | 0.97 |
| Activation type | Direct On Line (DOL) |
| Number of poles | 2 |
| Max. switching frequency $t$ | 60 1/h |
| Insulation class | F |
| Protection class motor | IP68 |

### Cable

| | |
|---|---|
| Connection cable length $L$ | 10 m |
| Cable type | H07RN-F |
| Cable cross-section | 4G1 mm² |
| Type of connection cable | Detachable |

## Equipment/function

| | |
|---|---|
| Mains plug | CEE 7/7 (Schuko) |
| Float switch | yes |
| Macerator | yes |
| Explosion protection type | - |
| Motor protection | Bimetall |
| Motor, leakage detection | no |
| Sealing chamber, leakage detection | optional |
| Leakage chamber, leakage detection | no |

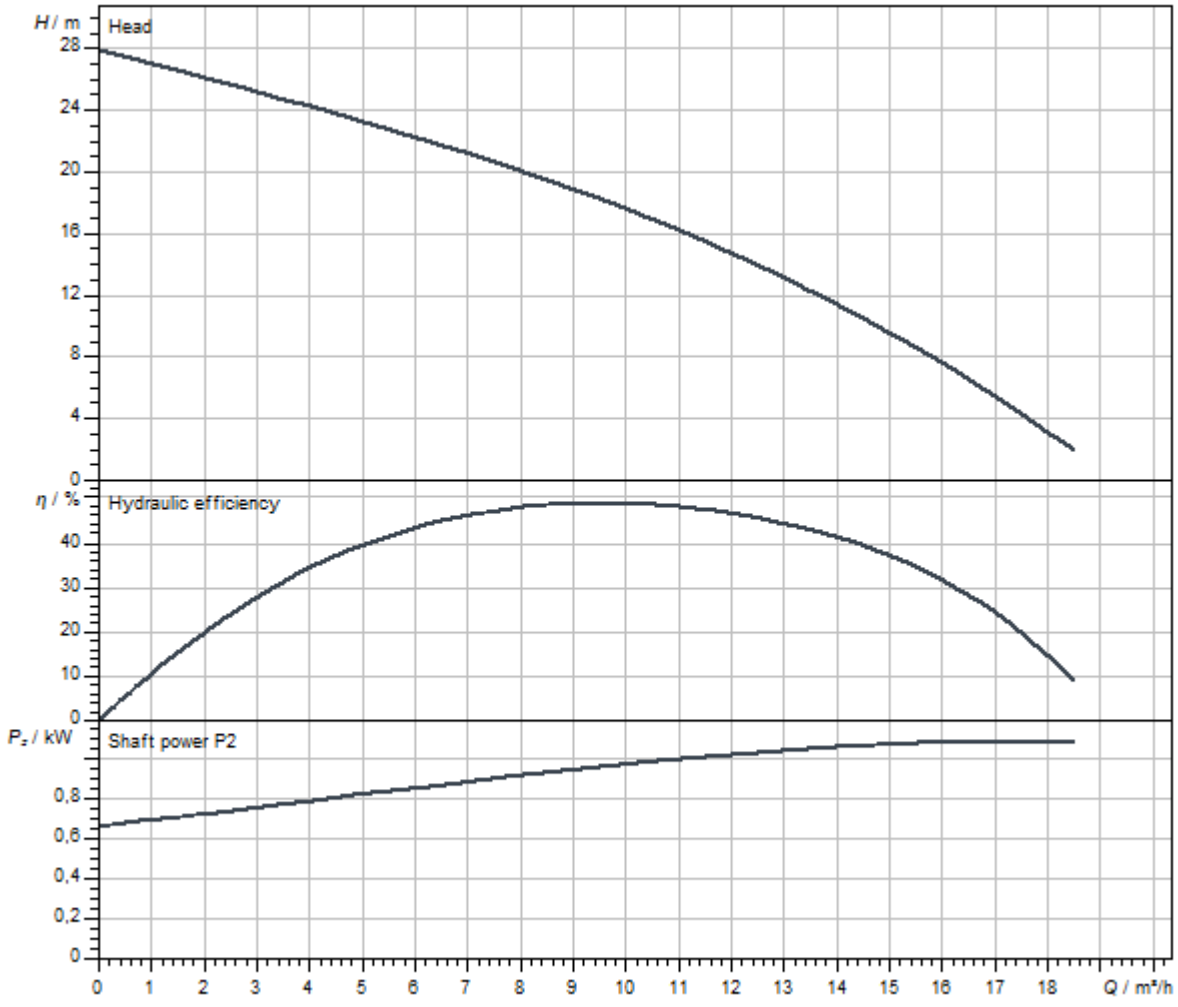
## Materials

| | |
|---|---|
| Pump housing | Grey cast iron |
| Impeller | Grey cast iron |
| Shaft | Stainless steel |
| Sealing on pump side | Silicon carbide |
| Sealing on motor side | NBR |
| Gasket material | NBR |
| Motor housing | Stainless steel |

## Installation dimensions

| | |
|---|---|
| Inlet connection | - |
| Outlet connection | DN 32/40 |

## Pump curves



## Data sheet

### Hydraulic data

| | |
|---|---|
| Maximum operating pressure $p$ | 3.08 bar |
| Discharge port | DN 32/40 |
| Free ball passage of the hydraulics | 10 mm |
| Impeller type | Two-channel impeller with macerator |
| Max. immersion depth | 7 m |
| Max. delivery head $H_{max}$ | 28.0 m |
| Max. volume flow $Q_{max}$ | 18.5 m³/h |
| Min. fluid temperature $T_{min}$ | 3 °C |
| Max. fluid temperature $T_{max}$ | 40 °C |
| Min. ambient temperature $T_{min}$ | 3 °C |
| Max. ambient temperature $T_{max}$ | 40 °C |

### Motor data

| | |
|---|---|
| Motor Identifier | S 13.1-08/EAD0-2-M 1,1kW |
| Mains connection | 1~230 V, 50 Hz |
| Voltage tolerance | ±10 % |
| Rated power $P_2$ | 1.1 kW |
| Power consumption $P_{1\ max}$ | 1.59 kW |
| Rated current $I_N$ | 7.2 A |
| Starting current $I$ | 29 A |
| Operating mode (immersed) | S1 |
| Operating mode (non-immersed) | S2-15 min |
| Rated speed $n$ | 2899 1/min |
| Power factor $cos\ \varphi$ | 0.97 |
| Activation type | Direct On Line (DOL) |
| Number of poles | 2 |
| Max. switching frequency $t$ | 60 1/h |
| Insulation class | F |
| Protection class motor | IP68 |

### Cable

| | |
|---|---|
| Connection cable length $L$ | 10 m |
| Cable type | H07RN-F |
| Cable cross-section | 4G1 mm² |
| Type of connection cable | Detachable |

## Equipment/function

| | |
|---|---|
| Mains plug | CEE 7/7 (Schuko) |
| Float switch | no |
| Macerator | yes |
| Explosion protection type | - |
| Motor protection | Bimetall |
| Motor, leakage detection | no |
| Sealing chamber, leakage detection | optional |
| Leakage chamber, leakage detection | no |

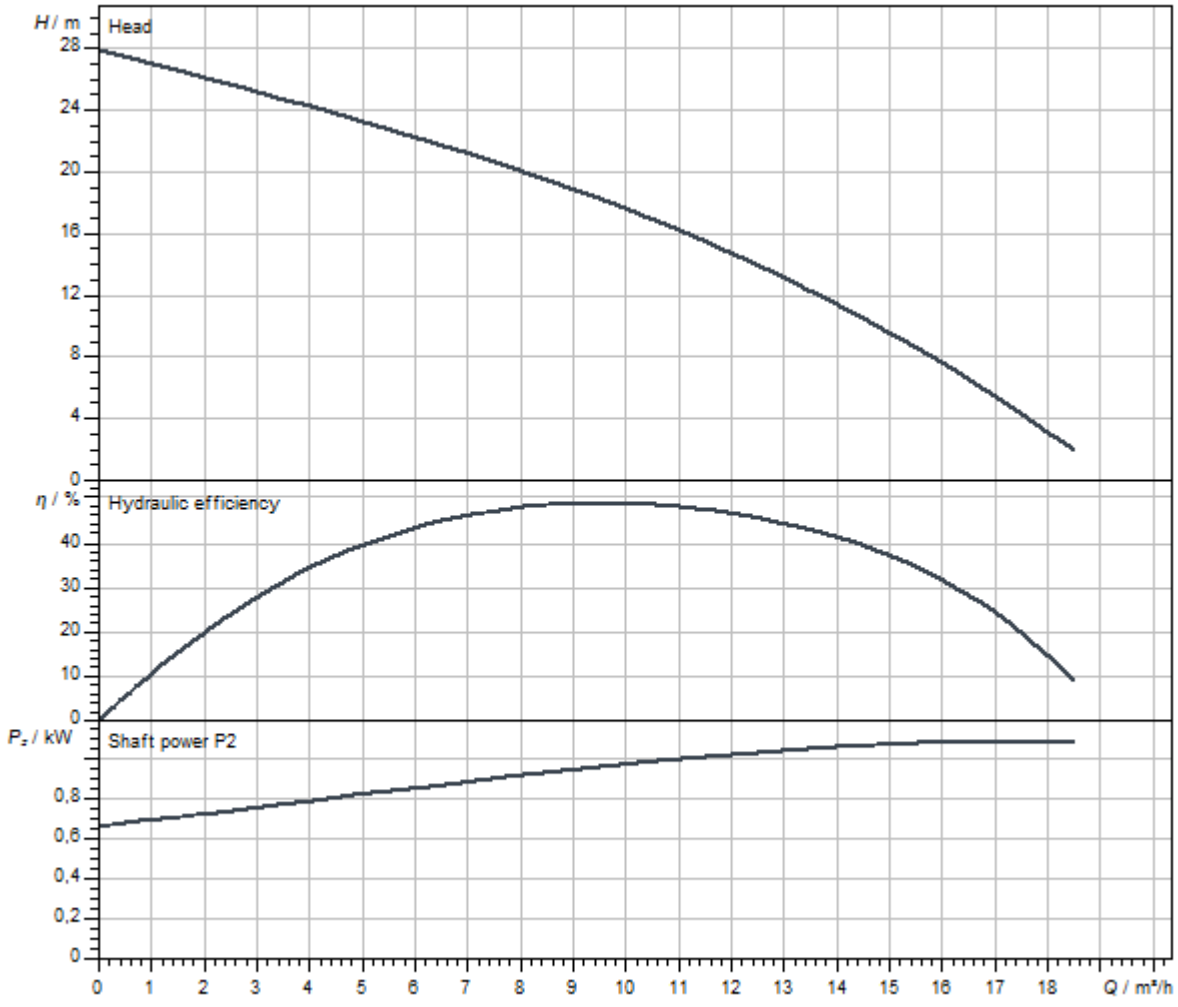
## Materials

| | |
|---|---|
| Pump housing | Grey cast iron |
| Impeller | Grey cast iron |
| Shaft | Stainless steel |
| Sealing on pump side | Silicon carbide |
| Sealing on motor side | NBR |
| Gasket material | NBR |
| Motor housing | Stainless steel |

## Installation dimensions

| | |
|---|---|
| Inlet connection | - |
| Outlet connection | DN 32/40 |

## Pump curves



## Data sheet

### Hydraulic data

| | |
|---|---|
| Maximum operating pressure $p$ | 3.08 bar |
| Discharge port | DN 32/40 |
| Free ball passage of the hydraulics | 10 mm |
| Impeller type | Two-channel impeller with macerator |
| Max. immersion depth | 7 m |
| Max. delivery head $H_{max}$ | 28.0 m |
| Max. volume flow $Q_{max}$ | 18.5 m³/h |
| Min. fluid temperature $T_{min}$ | 3 °C |
| Max. fluid temperature $T_{max}$ | 40 °C |
| Min. ambient temperature $T_{min}$ | 3 °C |
| Max. ambient temperature $T_{max}$ | 40 °C |

### Motor data

| | |
|---|---|
| Motor Identifier | S 13.1-08/EAD1-2-T 1,1kW |
| Mains connection | 3~400 V, 50 Hz |
| Voltage tolerance | ±10 % |
| Rated power $P_2$ | 1.1 kW |
| Power consumption $P_{1\ max}$ | 1.53 kW |
| Rated current $I_N$ | 2.9 A |
| Starting current $I$ | 20.5 A |
| Operating mode (immersed) | S1 |
| Operating mode (non-immersed) | S2-15 min |
| Rated speed $n$ | 2893 1/min |
| Power factor $cos\ \varphi$ | 0.76 |
| Activation type | Direct On Line (DOL) |
| Number of poles | 2 |
| Max. switching frequency $t$ | 60 1/h |
| Insulation class | F |
| Protection class motor | IP68 |

### Cable

| | |
|---|---|
| Connection cable length $L$ | 10 m |
| Cable type | H07RN-F |
| Cable cross-section | 6G1 mm² |
| Type of connection cable | Detachable |

## Equipment/function

| | |
|---|---|
| Mains plug | no |
| Float switch | no |
| Macerator | yes |
| Explosion protection type | - |
| Motor protection | Bimetall |
| Motor, leakage detection | no |
| Sealing chamber, leakage detection | optional |
| Leakage chamber, leakage detection | no |

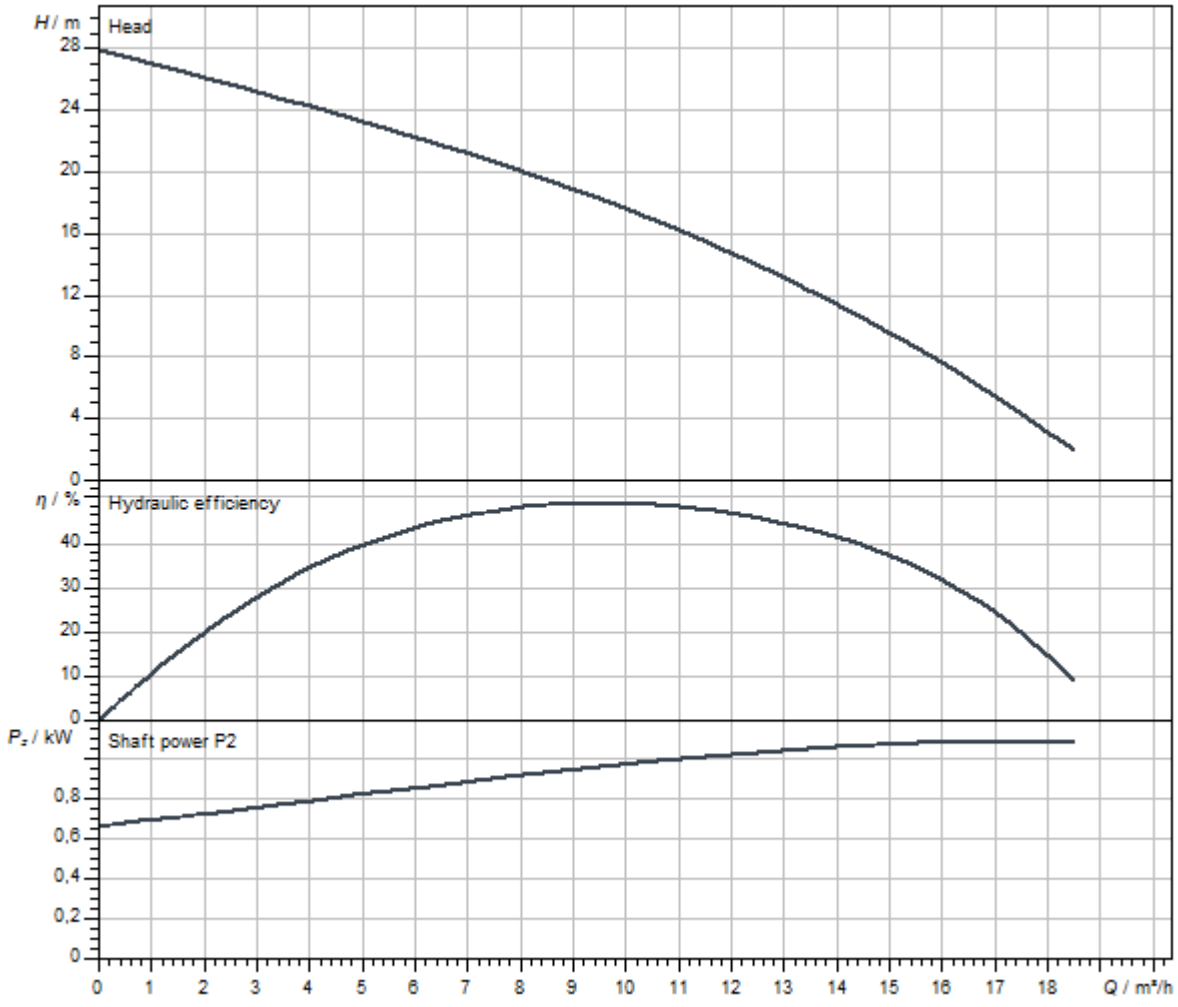
## Materials

| | |
|---|---|
| Pump housing | Grey cast iron |
| Impeller | Grey cast iron |
| Shaft | Stainless steel |
| Sealing on pump side | Silicon carbide |
| Sealing on motor side | NBR |
| Gasket material | NBR |
| Motor housing | Stainless steel |

## Installation dimensions

| | |
|---|---|
| Inlet connection | - |
| Outlet connection | DN 32/40 |

## Pump curves



## Data sheet

### Hydraulic data

| | |
|---|---|
| Maximum operating pressure $p$ | 3.52 bar |
| Discharge port | DN 32/40 |
| Free ball passage of the hydraulics | 10 mm |
| Impeller type | Two-channel impeller with macerator |
| Max. immersion depth | 7 m |
| Max. delivery head $H_{max}$ | 32.0 m |
| Max. volume flow $Q_{max}$ | 19.8 m³/h |
| Min. fluid temperature $T_{min}$ | 3 °C |
| Max. fluid temperature $T_{max}$ | 40 °C |
| Min. ambient temperature $T_{min}$ | 3 °C |
| Max. ambient temperature $T_{max}$ | 40 °C |

### Motor data

| | |
|---|---|
| Motor Identifier | S 13.1-08/EAD0-2-M 1,5kW |
| Mains connection | 1~230 V, 50 Hz |
| Voltage tolerance | ±10 % |
| Rated power $P_2$ | 1.5 kW |
| Power consumption $P_{1\ max}$ | 2.10 kW |
| Rated current $I_N$ | 9.3 A |
| Starting current $I$ | 29 A |
| Operating mode (immersed) | S1 |
| Operating mode (non-immersed) | S2-15 min |
| Rated speed $n$ | 2852 1/min |
| Power factor $cos\ \varphi$ | 0.98 |
| Activation type | Direct On Line (DOL) |
| Number of poles | 2 |
| Max. switching frequency $t$ | 60 1/h |
| Insulation class | F |
| Protection class motor | IP68 |

### Cable

| | |
|---|---|
| Connection cable length $L$ | 10 m |
| Cable type | H07RN-F |
| Cable cross-section | 4G1 mm² |
| Type of connection cable | Detachable |

## Equipment/function

| | |
|---|---|
| Mains plug | CEE 7/7 (Schuko) |
| Float switch | yes |
| Macerator | yes |
| Explosion protection type | - |
| Motor protection | Bimetall |
| Motor, leakage detection | no |
| Sealing chamber, leakage detection | optional |
| Leakage chamber, leakage detection | no |

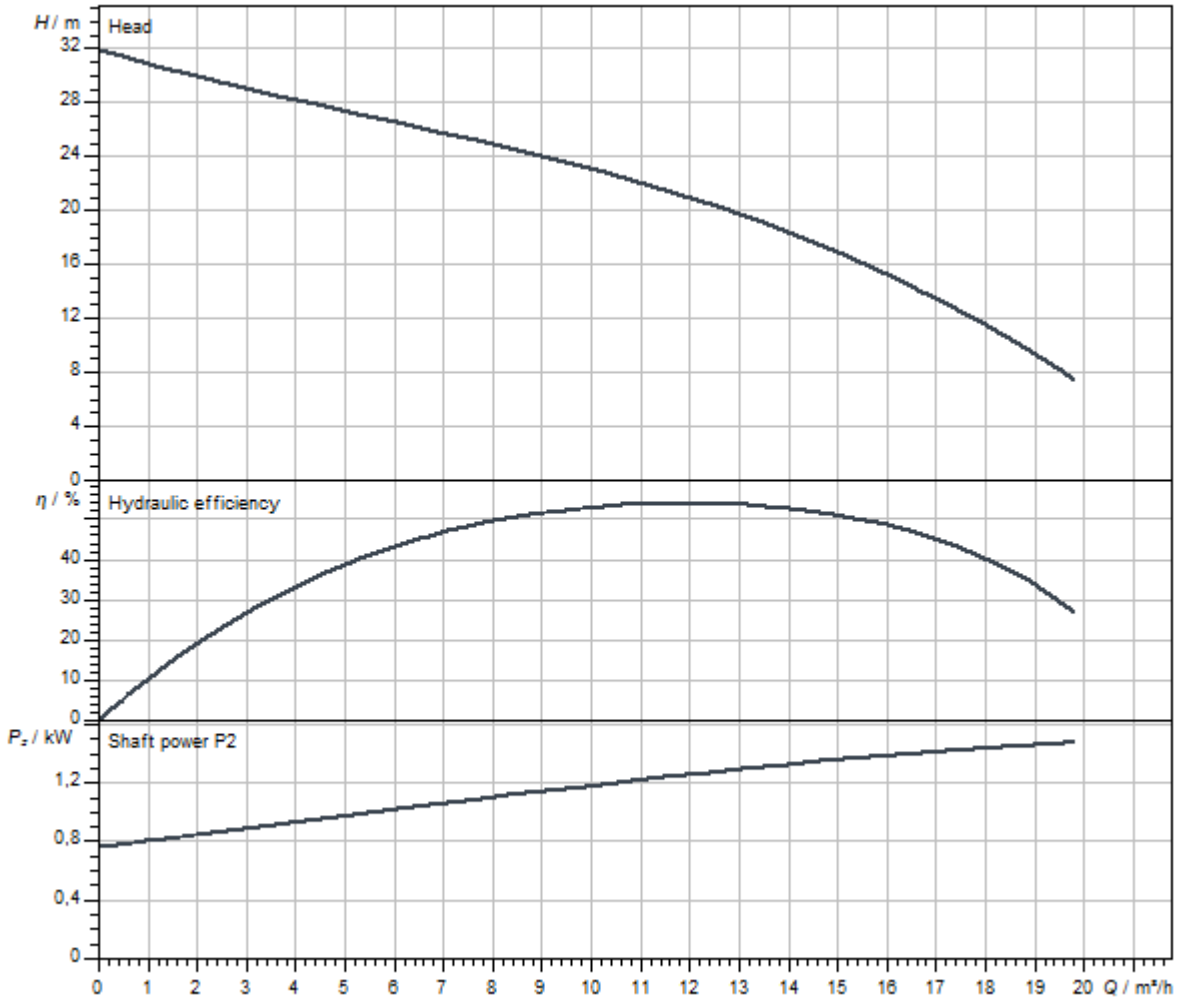
## Materials

| | |
|---|---|
| Pump housing | Grey cast iron |
| Impeller | Grey cast iron |
| Shaft | Stainless steel |
| Sealing on pump side | Silicon carbide |
| Sealing on motor side | NBR |
| Gasket material | NBR |
| Motor housing | Stainless steel |

## Installation dimensions

| | |
|---|---|
| Inlet connection | - |
| Outlet connection | DN 32/40 |

## Pump curves



## Data sheet

### Hydraulic data

| | |
|---|---|
| Maximum operating pressure $p$ | 3.52 bar |
| Discharge port | DN 32/40 |
| Free ball passage of the hydraulics | 10 mm |
| Impeller type | Two-channel impeller with macerator |
| Max. immersion depth | 7 m |
| Max. delivery head $H_{max}$ | 32.0 m |
| Max. volume flow $Q_{max}$ | 19.8 m³/h |
| Min. fluid temperature $T_{min}$ | 3 °C |
| Max. fluid temperature $T_{max}$ | 40 °C |
| Min. ambient temperature $T_{min}$ | 3 °C |
| Max. ambient temperature $T_{max}$ | 40 °C |

### Motor data

| | |
|---|---|
| Motor Identifier | S 13.1-08/EAD0-2-M 1,5kW |
| Mains connection | 1~230 V, 50 Hz |
| Voltage tolerance | ±10 % |
| Rated power $P_2$ | 1.5 kW |
| Power consumption $P_{1\ max}$ | 2.10 kW |
| Rated current $I_N$ | 9.3 A |
| Starting current $I$ | 29 A |
| Operating mode (immersed) | S1 |
| Operating mode (non-immersed) | S2-15 min |
| Rated speed $n$ | 2852 1/min |
| Power factor $cos\ \varphi$ | 0.98 |
| Activation type | Direct On Line (DOL) |
| Number of poles | 2 |
| Max. switching frequency $t$ | 60 1/h |
| Insulation class | F |
| Protection class motor | IP68 |

### Cable

| | |
|---|---|
| Connection cable length $L$ | 10 m |
| Cable type | H07RN-F |
| Cable cross-section | 4G1 mm² |
| Type of connection cable | Detachable |

## Equipment/function

| | |
|---|---|
| Mains plug | CEE 7/7 (Schuko) |
| Float switch | no |
| Macerator | yes |
| Explosion protection type | - |
| Motor protection | Bimetall |
| Motor, leakage detection | no |
| Sealing chamber, leakage detection | optional |
| Leakage chamber, leakage detection | no |

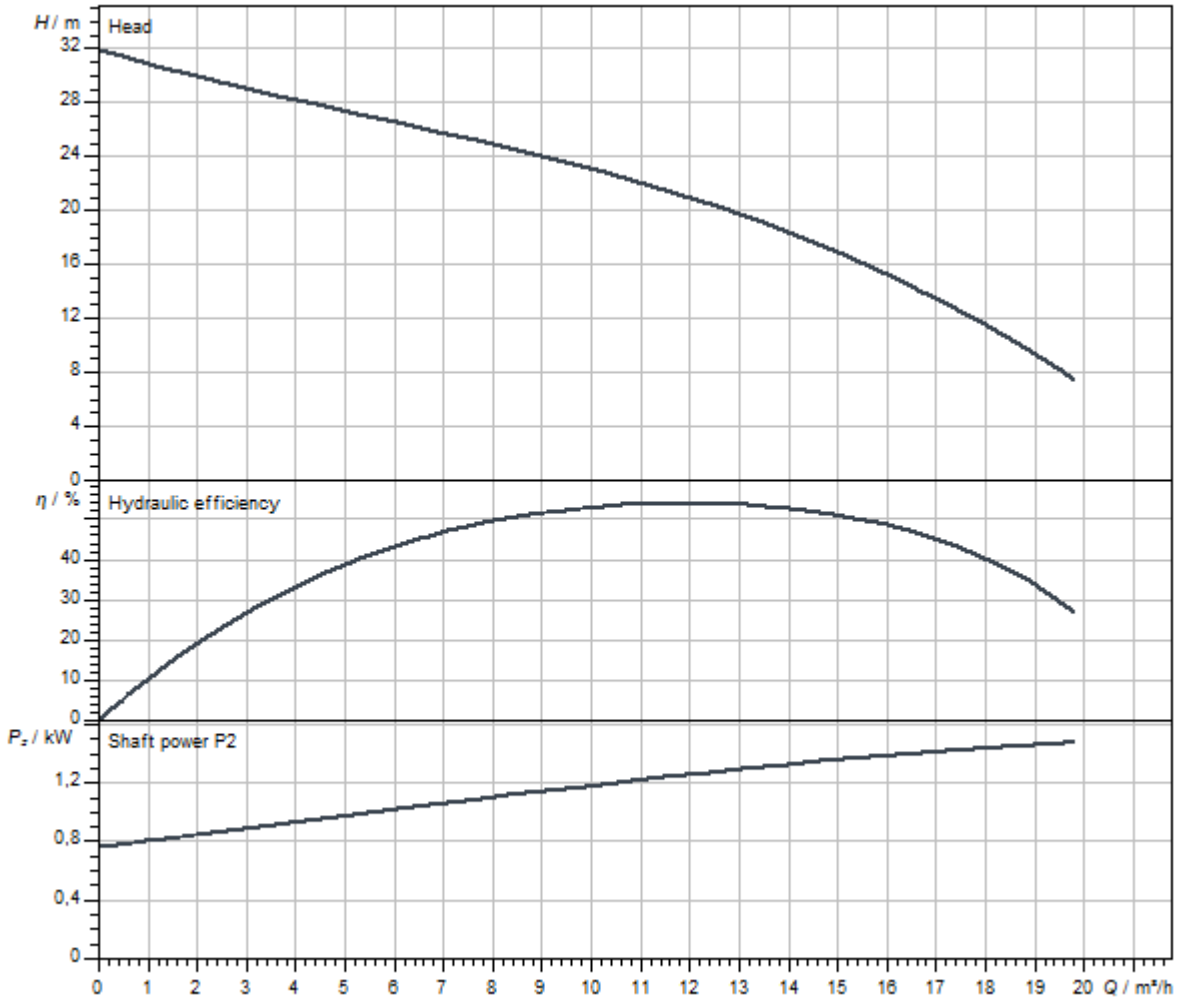
## Materials

| | |
|---|---|
| Pump housing | Grey cast iron |
| Impeller | Grey cast iron |
| Shaft | Stainless steel |
| Sealing on pump side | Silicon carbide |
| Sealing on motor side | NBR |
| Gasket material | NBR |
| Motor housing | Stainless steel |

## Installation dimensions

| | |
|---|---|
| Inlet connection | - |
| Outlet connection | DN 32/40 |

## Pump curves



## Data sheet

### Hydraulic data

| | |
|---|---|
| Maximum operating pressure $p$ | 3.52 bar |
| Discharge port | DN 32/40 |
| Free ball passage of the hydraulics | 10 mm |
| Impeller type | Two-channel impeller with macerator |
| Max. immersion depth | 7 m |
| Max. delivery head $H_{max}$ | 32.0 m |
| Max. volume flow $Q_{max}$ | 19.8 m³/h |
| Min. fluid temperature $T_{min}$ | 3 °C |
| Max. fluid temperature $T_{max}$ | 40 °C |
| Min. ambient temperature $T_{min}$ | 3 °C |
| Max. ambient temperature $T_{max}$ | 40 °C |

### Motor data

| | |
|---|---|
| Motor Identifier | S 13.1-08/EAD1-2-T 1,5kW |
| Mains connection | 3~400 V, 50 Hz |
| Voltage tolerance | ±10 % |
| Rated power $P_2$ | 1.5 kW |
| Power consumption $P_{1\ max}$ | 2.10 kW |
| Rated current $I_N$ | 3.6 A |
| Starting current $I$ | 20.5 A |
| Operating mode (immersed) | S1 |
| Operating mode (non-immersed) | S2-15 min |
| Rated speed $n$ | 2850 1/min |
| Power factor $cos\ \varphi$ | 0.84 |
| Activation type | Direct On Line (DOL) |
| Number of poles | 2 |
| Max. switching frequency $t$ | 60 1/h |
| Insulation class | F |
| Protection class motor | IP68 |

### Cable

| | |
|---|---|
| Connection cable length $L$ | 10 m |
| Cable type | H07RN-F |
| Cable cross-section | 6G1 mm² |
| Type of connection cable | Detachable |

## Equipment/function

| | |
|---|---|
| Mains plug | no |
| Float switch | no |
| Macerator | yes |
| Explosion protection type | - |
| Motor protection | Bimetall |
| Motor, leakage detection | no |
| Sealing chamber, leakage detection | optional |
| Leakage chamber, leakage detection | no |

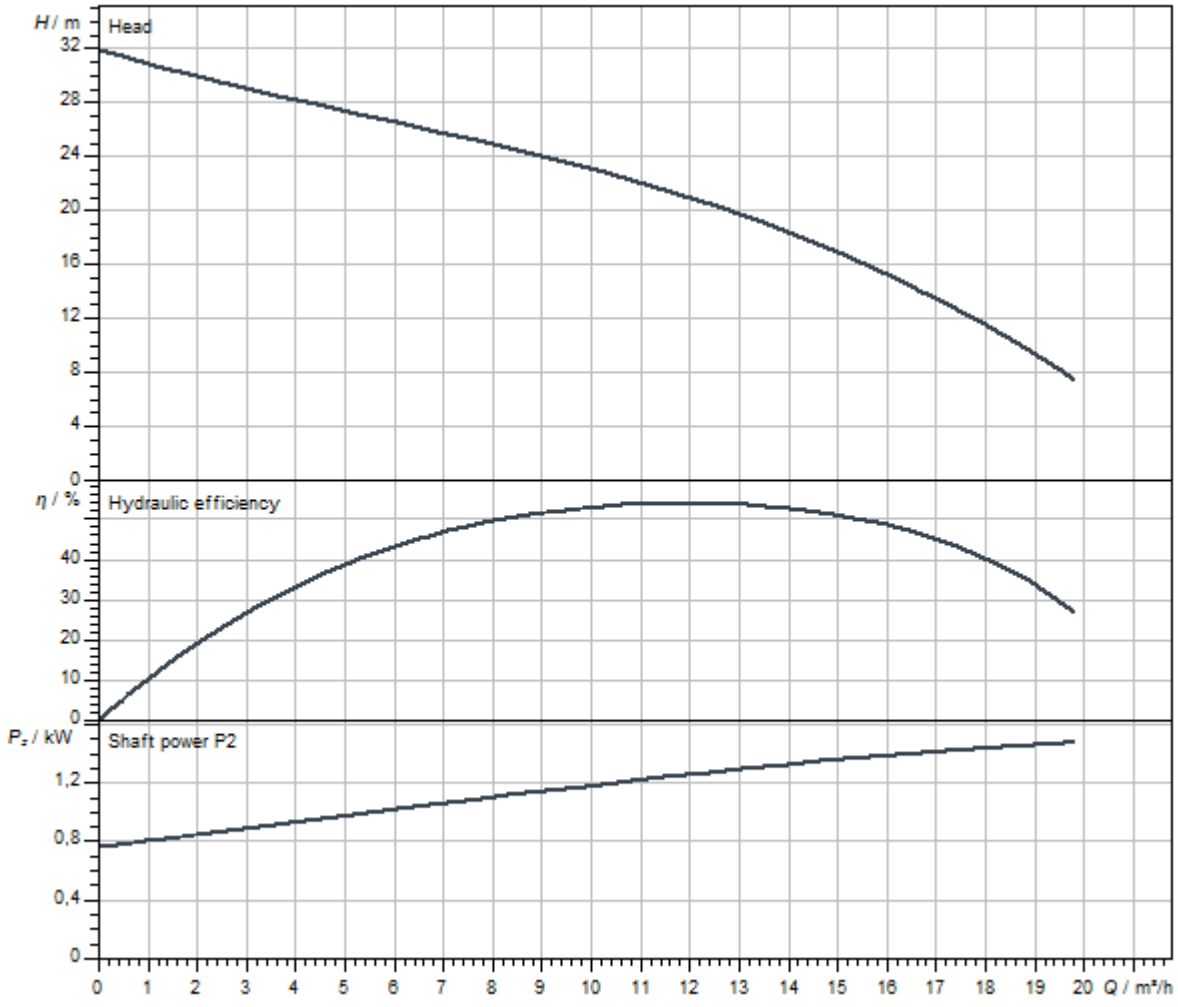
## Materials

| | |
|---|---|
| Pump housing | Grey cast iron |
| Impeller | Grey cast iron |
| Shaft | Stainless steel |
| Sealing on pump side | Silicon carbide |
| Sealing on motor side | NBR |
| Gasket material | NBR |
| Motor housing | Stainless steel |

## Installation dimensions

| | |
|---|---|
| Inlet connection | - |
| Outlet connection | DN 32/40 |

## Pump curves



## Data sheet

### Hydraulic data

| | |
|---|---|
| Maximum operating pressure $p$ | 4.73 bar |
| Discharge port | DN 32/40 |
| Free ball passage of the hydraulics | 11 mm |
| Impeller type | Two-channel impeller with macerator |
| Max. immersion depth | 7 m |
| Max. delivery head $H_{max}$ | 43.0 m |
| Max. volume flow $Q_{max}$ | 20.2 m³/h |
| Min. fluid temperature $T_{min}$ | 3 °C |
| Max. fluid temperature $T_{max}$ | 40 °C |
| Min. ambient temperature $T_{min}$ | 3 °C |
| Max. ambient temperature $T_{max}$ | 40 °C |

### Motor data

| | |
|---|---|
| Motor Identifier | S 13.1-10/EAD1-2-T 2,5kW |
| Mains connection | 3~400 V, 50 Hz |
| Voltage tolerance | ±10 % |
| Rated power $P_2$ | 2.5 kW |
| Power consumption $P_{1\ max}$ | 3.20 kW |
| Rated current $I_N$ | 5.5 A |
| Starting current $I$ | 31 A |
| Operating mode (immersed) | S1 |
| Operating mode (non-immersed) | S2-15 min |
| Rated speed $n$ | 2848 1/min |
| Power factor $cos\ \varphi$ | 0.84 |
| Activation type | Direct On Line (DOL) |
| Number of poles | 2 |
| Max. switching frequency $t$ | 60 1/h |
| Insulation class | F |
| Protection class motor | IP68 |

### Cable

| | |
|---|---|
| Connection cable length $L$ | 10 m |
| Cable type | H07RN-F |
| Cable cross-section | 6G1 mm² |
| Type of connection cable | Detachable |

## Equipment/function

| | |
|---|---|
| Mains plug | no |
| Float switch | no |
| Macerator | yes |
| Explosion protection type | - |
| Motor protection | Bimetall |
| Motor, leakage detection | no |
| Sealing chamber, leakage detection | optional |
| Leakage chamber, leakage detection | no |

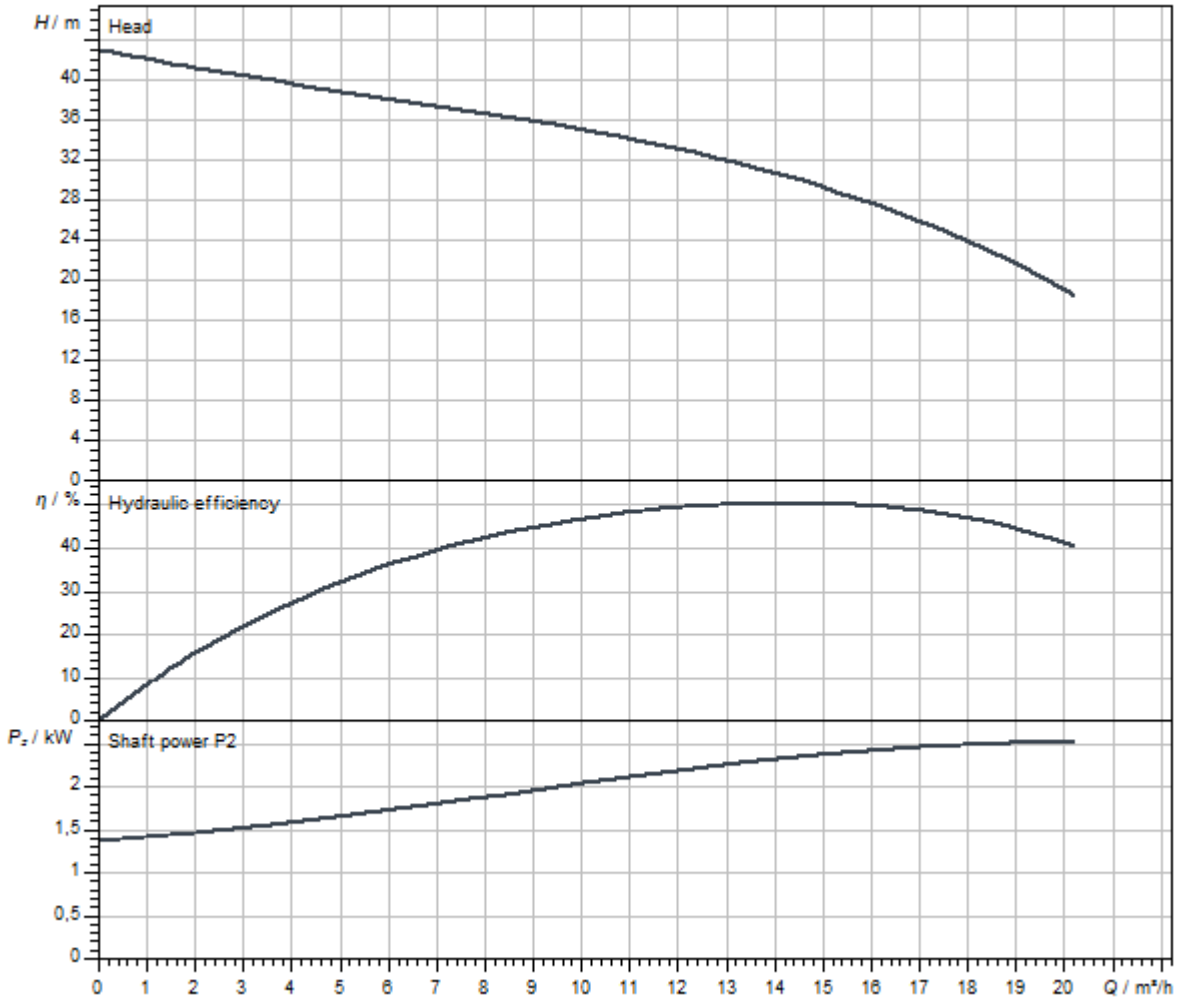
## Materials

| | |
|---|---|
| Pump housing | Grey cast iron |
| Impeller | Grey cast iron |
| Shaft | Stainless steel |
| Sealing on pump side | Silicon carbide |
| Sealing on motor side | NBR |
| Gasket material | NBR |
| Motor housing | Stainless steel |

## Installation dimensions

| | |
|---|---|
| Inlet connection | - |
| Outlet connection | DN 32/40 |

## Pump curves



Pioneering for You

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