

# ABS lifting station Nirolift

Synthetic, single pumping station, designed as a complete wastewater sump for below-ground installation and for fitting with ABS pumps from the Robusta, Coronada and MF ranges.

## Applications

For the effective dewatering of domestic and commercial wastewater from buildings and areas below the sewer level in accordance with EN 12050-2.

The Nirolift is suitable only for the pumping of faecal-free wastewater such as the discharge from washing machines, sinks, dishwashers, showers and bathtubs.

For applications where pumping cannot be interrupted the Sanissett twin pumping station unit should be installed.

## Features

- Globular shape for extra strength, with PP-30GF manhole cover featuring floor run-off and option of odour lock with aeration and venting.
- Universally adjustable in height and can be swivelled, thus allowing easy alignment with floor levels and tiling patterns, independent of the inflow or direction of the discharge lines. 150 mm sump extension kit available as an accessory
- Designed for one ABS Coronada 250 or MF 154 - 334 pump with KS float switch, or for one ABS Robusta 200 pump with built-in level control.
- Two inflow ports DN 100 at 90° offset for DIN push-on connection. One port DN 70 for venting and use as a cable duct (supplied as standard with plug/cable inlet seal). One discharge port DN 40 with 50 mm Plasson adaptor.
- Plastic cover for protection of the floor grating during installation work supplied as standard.
- Kit available as an accessory for sealing top of tank to damp proof course.
- Suitable for use as a floor drain. Alternatively a stainless steel insert for fitting into the manhole cover to close and seal the run-off vent is available as an accessory.
- Maximum allowable temperature of medium 40 °C, short term to 60 °C (max. 5 minutes).

## Tank

Synthetic, corrosion-resistant, gas- and odour-tight tank, in accordance with EN 12050-2. Supplied as standard with cover, seals, installation kit and non-return valve. Pump not included.

Capacity: 100 litres

Weight: 11.5 kg (without pump)

## Motor

Water pressure sealed, squirrel cage 2-pole induction motor.

Insulation: Class F to 155 °C;

Protection type: IP 68

## Pump Type

- ABS Robusta light drainage pump 200 WTS, for pumping of ground and rain water, and water from hand-basins, and washing machines.
- ABS Coronada light drainage pump 250 WKS, for wastewater (as Robusta above), but suitable also for aggressive ground water thanks to the stainless steel pump housing and a mechanical seal for shaft sealing.
- ABS light wastewater pump MF 154 W to 334 D, for wastewater with large solid particles present. Up to 30 mm solids passage.

Pump selection is determined by the intended application and by the volume of the medium.



## Materials

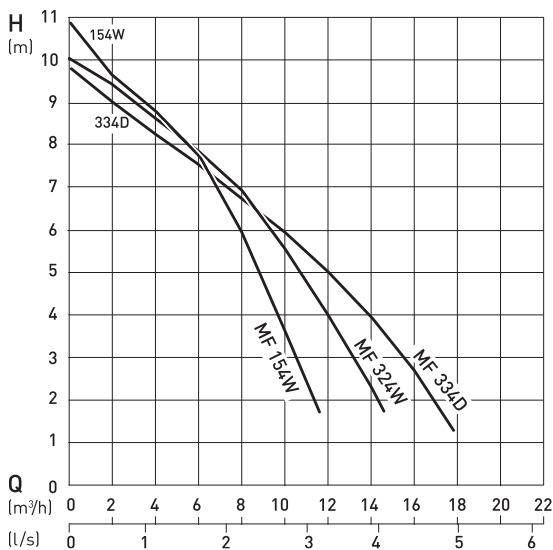
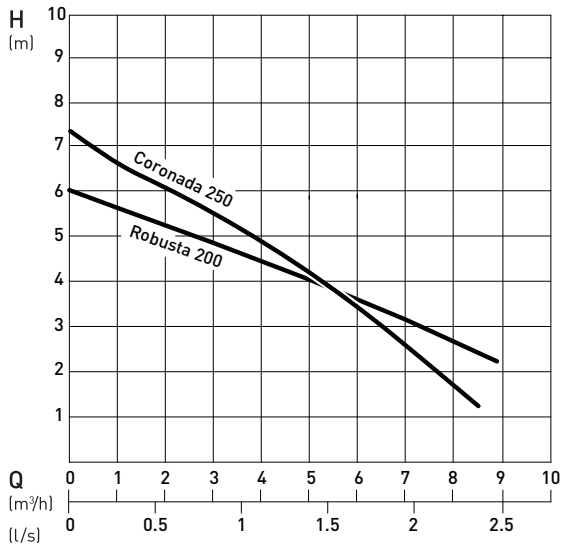
Description	Material
Tank	Polyethylene
<b>Robusta</b>	
Pump Housing	PP
Rotor Shaft	Stainless steel 1.4028 (AISI 420)
Impeller	PA
Seals	NBR
Cable	Neoprene
<b>Coronada</b>	
Pump Housing	Stainless steel 1.4301 (AISI 304)
Motor Housing	Stainless steel 1.4301 (AISI 304)
Rotor Shaft	Stainless steel 1.4305 (AISI 303)
Impeller	PPO
Cable	Neoprene
<b>MF</b>	
Upper Lid	Stainless steel 1.4301 (AISI 304)
Motor Housing	Cast iron EN-GJL-250
Rotor Shaft	Stainless steel 1.4021 (AISI 420)
Volute	Cast iron EN-GJL-250
Impeller	Polyamide
Seal	Neoprene
Fasteners	Stainless steel 1.4401 (AISI 316)

## Technical Data

Pump type:	Robusta 200 W/TS	Coronada 250 W/KS	MF 154 W/KS	MF 324 W/KS	MF 334 D/KS
Pump discharge internal thread	G 1¼"	G 1¼"	G 1½"	G 1½"	G 1½"
Solids passage (mm)	10	10	20	30	30
Motor power * (kW): P <sub>1</sub>	0.36	0.50	0.65	0.83	0.83
P <sub>2</sub>	0.16	0.25	0.42	0.54	0.56
Rated current (A)	1.60	1.80	2.80	3.60	1.40
Rated voltage (V)	220-240 1~	220-240 1~	220-240 1~	220-240 1~	400 3~
Speed (r/min)	2900	2900	2900	2900	2900
Cable ** (H07RN-F)	3G 1.0	3G 1.0	3G 1.0	3G 1.0	4G 1.0
Cable length (m)	10	10	3 <sup>†</sup> , 10	3 <sup>†</sup> , 10	3 <sup>†</sup> , 10
Pump weight (kg)	3.8	4.5	9.0	9.0	9.0

\* P<sub>1</sub> = Power at mains, P<sub>2</sub> = Power at motor shaft. \*\* With EURO plug (single phase) or CEE plug (three phase). <sup>†</sup> = KS version only.

## Performance Curves 50 Hz



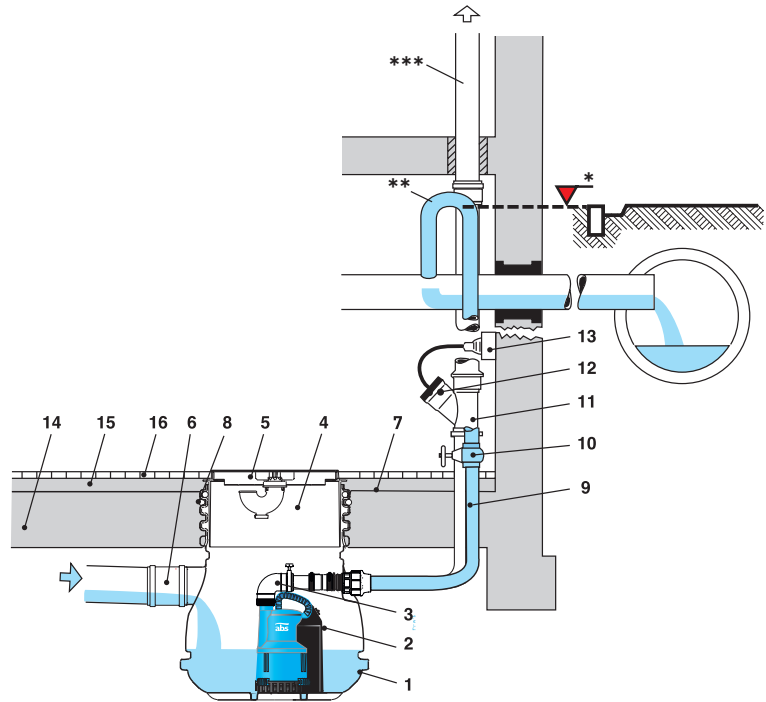
H = Total Head; Q = Discharge Volume Curves to ISO 9906

## Installation

Attention to the backwash level is of vital importance for effective dewatering. All outflow points located below the backwash level must be protected against back flow according to standard EN 12056.

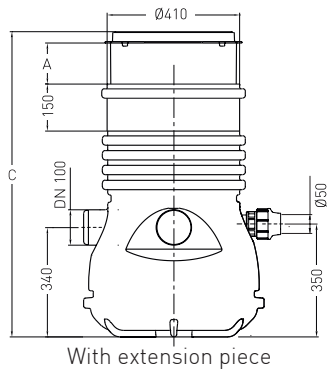
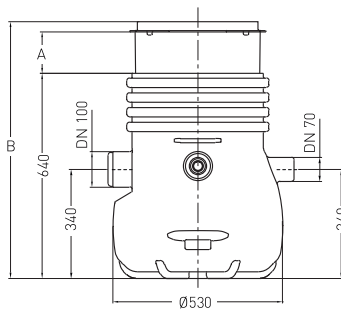
## Example

1. Polyethylene tank
2. ABS wastewater pump with TS level-control system
3. Bend with non-return valve
4. Upper fitting
5. Cover plate with floor run-off and odour lock
6. Inflow port
7. Damp-proof course
8. Seal
9. Discharge line
10. Shut-off valve
11. Vent/cable duct DN 70 brought to above roof level
12. Cable inlet, odour tight
13. Earthed socket
14. Concrete
15. Screed
16. Floor tiles

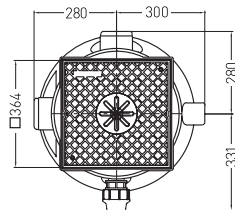


- \* Backwash level
- \*\* Backwash loop with base above the backwash level.
- \*\*\* External ventilation pipe

## Dimensions (mm)



- A = 130 max
- B = 670 min, 800 max
- C = 880 min, 950 max



## Inlet Diameters

Ø	(mm)
DN 70	+0.2 ø75 -1.0
DN 100	+0.3 ø110 -1.0

## Switching (mm) and Volume Levels (L)

Tank / Pump	On	Off	Switching Volume	Residual Volume
Nirolift / Robusta	145	50	20	7
Nirolift / Coronada	280	120	35	20
Nirolift / MF 154-334	290	90	40	15

## Accessories

Description	Part No.
<b>Sump Extension</b> - one only to max. 150 mm may be used	62665196
<b>DPC Connection Kit</b> - cast iron ring with synthetic sealing and support rings for connecting top of tank to damp-proof course.	62665198
<b>Odour-lock Kit</b>	62665195
<b>Lid Insert</b> (stainless steel) - closes and seals run-off vent in manhole cover	41025020
<b>Electrical</b>	
<b>Plug-in Alarm Kits:</b>	
Acoustic alarm with signalling unit for connection to 230 V (Euro) socket. Acoustic alarm signal, potential-free NO (Normally Opened) contact (I max 12 A / V max 250 V). Optional rechargeable accumulators for mains-independent alarm signal.	
<b>With KS float switch</b>	16025001
<b>With NSM05 "broken finger"</b>	16025003
<b>With humidistat</b>	16025004
<b>WM-Stop Alarm Kits:</b> Acoustic alarm with signalling unit for plugging in to a 230 V DIN socket, with integral 230 V earthed DIN socket into which the washing machine is plugged (I max 16 A). Optional rechargeable accumulators for mains-independent alarm signal.	
<b>With KS float switch</b>	16025002
<b>With NSM05 "broken finger"</b>	16025005
<b>With humidistat</b>	16025006
<b>NC-AKKU</b> - 9 V rechargeable battery for mains-independent operation	12820018