

GRUNDFOS UNILIFT APG

DOMESTIC WASTEWATER PUMPING MADE RELIABLE, QUICK, AND EASY

Designed to lift and transport domestic wastewater, prevent flooding, and reduce odours, the UNILIFT APG is a versatile and reliable grinder pump solution that pumps domestic sewage, especially toilet blackwater, from domestic buildings. It is equipped with a professional grinder system that is based on decades of innovation and used in Grundfos' commercial SEG pump range. It cuts solids and particles into small pieces, which allows domestic sewage and blackwater to be easily pumped both vertically and horizontally over long distances to the sewer mains.

Suited to a variety of applications, whether that is for single family homes or low-rise residential buildings, the UNILIFT APG can be used inside a building within a lifting station, usually in a basement below sewer level, or outside a building within a pumping station. It can also be installed as a stand-alone solution.



This pump is equipped with a well-proven grinder system.



BENEFITS

CUTS INSTALLATION TIME AND COST

The UNILIFT APG's professional grinder system is designed to cut solids into smaller pieces, which makes it easier for domestic sewage to be led through outlet pipes of smaller diameters. As a result, it is possible to install smaller pipes (min. DN32), helping to cut installation times and cost.

REDUCES BAD ODOURS

The UNILIFT APG can be installed in an airtight, odour-proof collecting tank with venting ports to help eliminate bad smells and any potential leakages. In basement applications, your customers are free to use the space for a home office or new toilet facility without experiencing bad odours.

FLOOD PREVENTION

Instead of relying on gravity, the UNILIFT APG acts as part of a lifting station in a pressurised system, moving water above sewer level and out into the sewer system. According to EN12056-4, a lifting station is the best solution for preventing flooding caused by backflow from sewer mains.

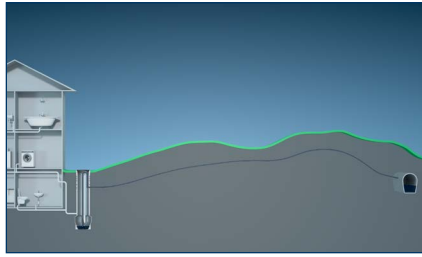
HIGHLY RELIABLE AND EASY TO MAINTAIN

Combining cast-iron pump housing with a professional grinder system and a well-proven, lightweight motor concept that has in-built protection and mechanical shaft seals, the UNILIFT APG is designed to deliver reliable, long-lasting functionality. Its lightweight design means it's easy to install and handle in maintenance cases – removing the need for extra lifting devices. It also fits onto several auto couplings with flanges (DN32/40) and pipe threads (Rp 1 1/2").

UNILIFT APG applications



Lifting station (inside buildings)
Installed in a tank solution in basements and other building spaces below sewer level.



Pumping station (outside buildings)
Installed outside buildings in a pumping station that leads to a public sewer or a component in pressurised sewage systems in rural areas.



Stand alone
The product can be used as a standalone product for use in a pit solution.

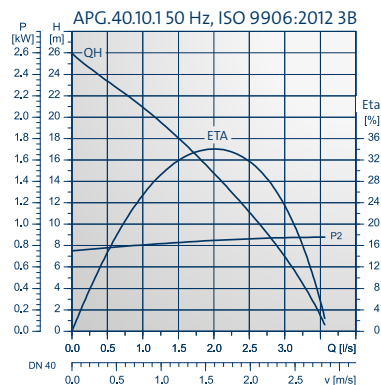
One family house

One pump solution with a float switch at the pump or as a pump with controller for enhanced safety and additional alarm options.

Multiple family house or low-rise residential building

Two pump solution with controller

Technical overview



Performance curve

UNILIFT APG pumps are performance tested according to the following standards:

- 50 Hz DIN: ISO 9906:2012, grade 3B

	UNILIFT APG.40.10.1 UNILIFT APG.40.10.A1	UNILIFT APG.40.10.3 UNILIFT APG.40.10.A3	UNILIFT APG.40.10.3 UNILIFT APG.40.10.A3
Voltage/Frequence	1x220-240V, 50Hz 1x230V, 50Hz	3x380V, 50Hz 3x400V, 50Hz	3x200-220V, 50Hz
Power consumption P1/P2 [kW]		1,3/1,0	
Nominal [A]	6,8	2,6	4,5
Max Q [l/s]/H [m]		3,3/26	
Float switch	UNILIFT APG.40.10.AX is with float switch		
Dimensions H x D x W [mm]	498 x 254 x 209		
Starts per hour	30		
Operation duty	S3 50%, 1 minute		
Liquid Temperature [°C]	40° (70° for 3 minutes)		
Net weight [kg]	25		



Scan the QR code to download the data booklet and find out more.