ABS dry-installed sewage pump AFC 50/50-2046

Dry-installed sewage pump for horizontal or vertical installation, with air-cooled IEC motor from 3 to 22 kW. Suitable for the pumping of wastewater and sewage from buildings and sites in domestic, commercial, industrial and municipal areas in accordance with EN 12050-1.

Construction

- Horizontal version mounted on steel baseplate, vertical version on skirt base.
- Pull-out design allows easy removal of motor without disconnecting pump from pipework.
- PTC thermistor in windings to protect against overheating of motor.
- Motor and rotor shaft dynamically balanced, with lubricated-for-life, maintenance-free upper and lower bearings.
- Oil-free; glycol/water mixture in seal chamber.
- Shaft sealing with double mechanical seals (one at motor side, one at medium side), independent of rotation direction.
- Separation chamber with seal monitor sensor to indicate water leakage through mechanical seal.
- Tappings for lubricant draining and re-filling, priming, and pressure gauge.
- Hydraulic parts with Contrablock or vortex impellers. Option of hardened Contrablock impeller and bottomplate.
- Available in standard and explosion-proof versions in accordance with international standard ATEX.
- Hydraulic bearing with a calculated lifetime of L_{10} > 100,000 hours.
- Maximum ambient temperature: +40 °C.
- Maximum temperature of the medium: +80 °C.

Motor

Three-phase, squirrel cage induction motors, 2-, 4- and 6-pole from 3 to 22 kW.
Voltage: 230/400 V, 3~, 50 Hz (other voltages on request).
Insulation class: F to 155 °C.
Protection type: IP 55.
Start-up: direct on line (DOL) or star-delta.

Hydraulics

AFC	Impeller	DN
50/50	Vortex	50
0831	Vortex	80
0832	Vortex	80
0835	Vortex	80
80/80	Vortex	80
0841	Contrablock	80
0844	Contrablock	80
1031	Vortex	100
1032	Vortex	100

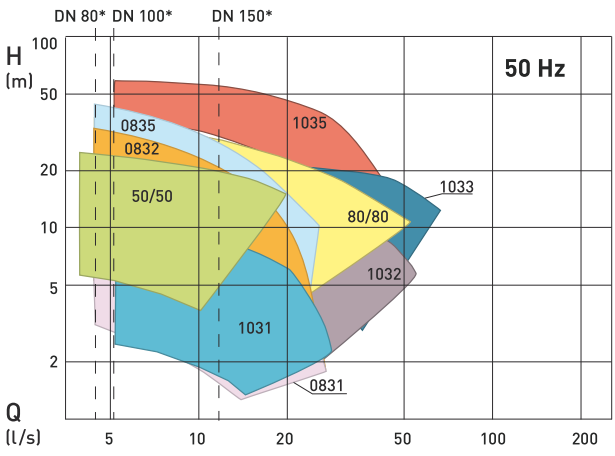
AFC	Impeller	DN
1033	Vortex	100
1035	Vortex	100
1041	Contrablock	100
1045	Contrablock	100
1049	Contrablock	100
1541	Contrablock	150
1543	Contrablock	150
1546	Contrablock*	150
2046	Contrablock*	200

* 2-channel

Pump selection

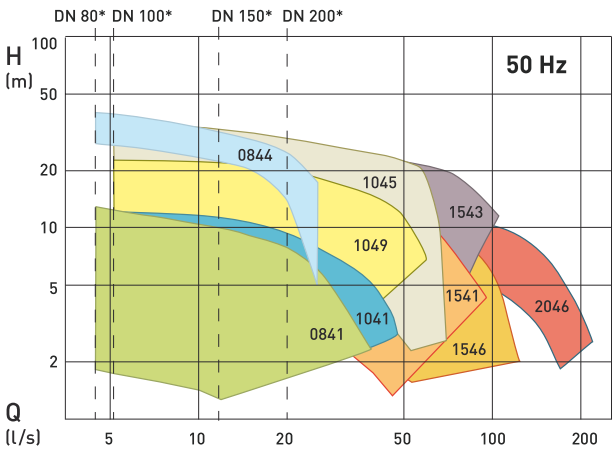
Please use the Absel program as the only valid selection tool.

Performance curves vortex



* Minimum flow rate Q

Performance curves Contrablock



Standard and options

Description	Standard	Option
Mains voltage	400 V	230; 230/400; 400/695; 690 V
Voltage tolerance	± 10%	
Motor efficiency	EFF 2	EFF 1 (selected models)
PTC thermistor	Yes	
Mechanical seal (at medium side)	SiC-SiC (NBR)	SiC-SiC (Viton)
Seal monitor (DI)	Yes	
O-rings	NBR	Viton
Protective coating	Two-component epoxy resin coating	Special coatings on request
Cathodic protection	No	Yes
Bearing monitor	No	Yes
Lubricant monitor	No	Yes

Hydraulic / Motor configuration

AFC	Motor	Motor Frame
50/50	3/6 7.5/4 15/2 22/2	132S 132M 160M 180M
0831	3/4 3/6	100L 132S
0832	4/2 7.5/2	112M 132S
0835	7.5/2 11/2	132S 160M
80/80	3/6 7.5/4 9.2/6 9.2/4 15/4 22/2	132S 132M 160L 132M 160L 180M

AFC	Motor	Motor Frame
0841	3/6 3/4	132S 100L
0844	7.5/2 11/2	132S 160M
1031	3/6 3/4	132S 100L
1032	3/6 7.5/4, 9.2/4	132S 132M
1033	15/4, 9.2/6 18.5/4	160L 180M
1035	22/2	180M
1041	3/4 3/6	100L 132S

AFC	Motor	Motor Frame
1045	15/4, 9.2/6 18.5/4 22/4	160L 180M 180L
1049	3/6 7.5/4, 9.2/4	132S 132M
1541	3/6 7.5/4, 9.2/4	132S 132M
1543	15/4, 9.2/6 18.5/4 22/4	160L 180M 180L
1546	3/6 7.5/4, 9.2/4	132S 132M
2046	11/6, 9.2/6 15/6	160L 180L

Materials

Motor	Standard	Option
Seal chamber	Cast iron EN-GJL-250	
Motor housing	Cast iron EN-GJL-250	
Motor shaft	Stainless steel 1.4021 (AISI 420)	Stainless steel 1.4401 (AISI 316)
Hydraulics		
Volute	Cast iron EN-GJL-250	
Impeller	Cast iron EN-GJL-250	Stainless steel 1.4460 (AISI 329) *
Bottom plate	Cast iron EN-GJL-250	
Mounting		
Skirt base	Steel EN-3B (painted)	
Baseplate	Steel EN-3B (painted)	

* not available for AFC 0835, 1035, 1546 (9.2/4 motor), 50/50 and 80/80.

SULZER

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Global Water

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For more information or request a quote

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