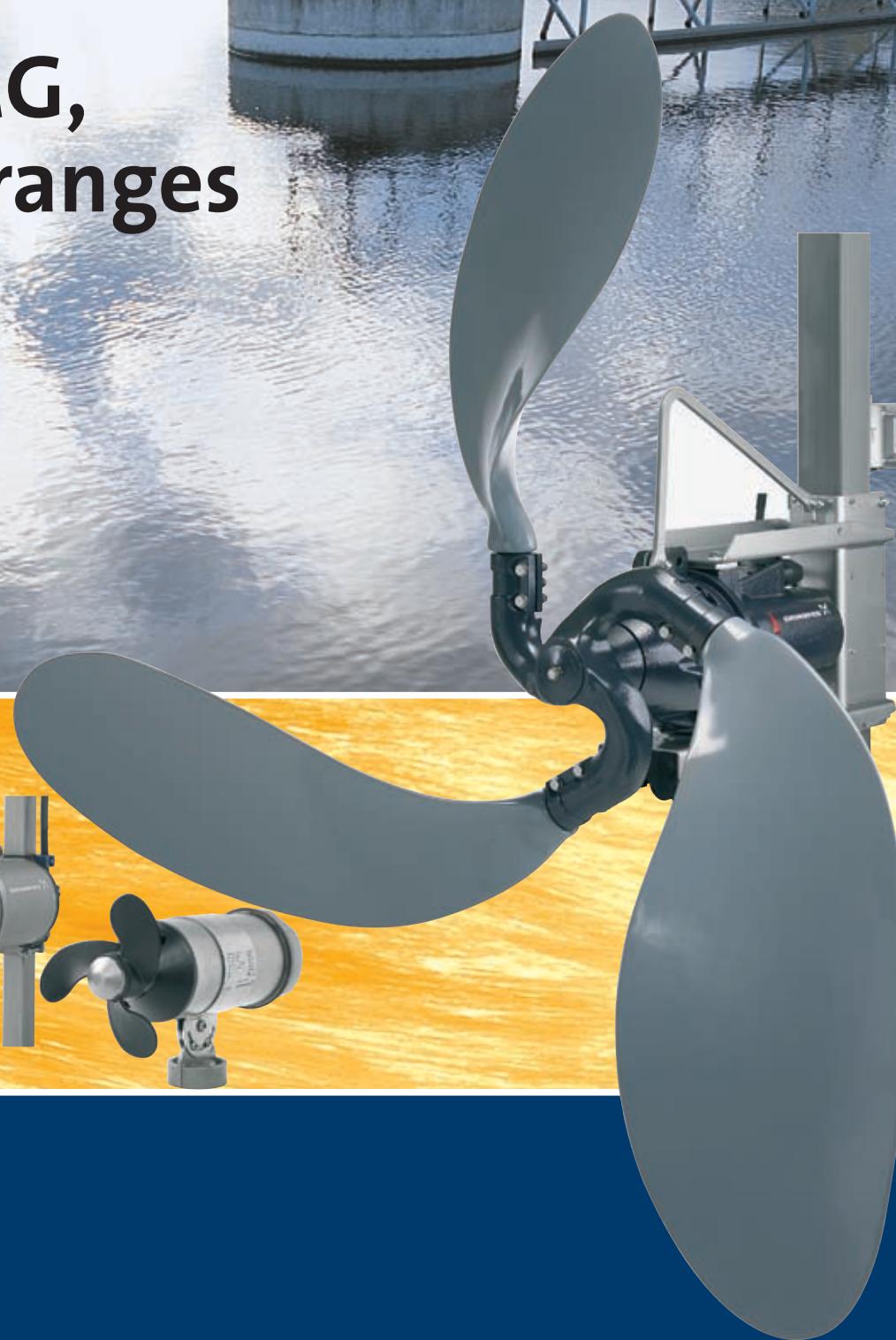
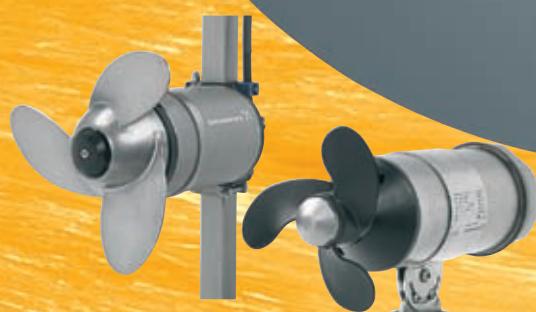


AMD, AMG, and AFG ranges



Grundfos mixers and flowmakers

Full range of efficient and reliable submersible mixers and flowmakers for wastewater and sludge

Grundfos offers a complete range of extremely dependable and highly efficient submersible mixers and flowmakers for a variety of processes in wastewater treatment plants and industrial processes.

The mixers and flowmakers are designed for use in the toughest environments. The mixers and flowmakers are of a modular design, which makes them easy to maintain and service. All parts are manufactured from specially selected materials, and each component is thoroughly tested for reliability and durability before assembly.

The Grundfos range of mixers is available either with direct or planetary gear driven propellers.

The stainless steel or polyamide propellers are designed for high efficiency even under heavy-duty operation conditions.



The direct driven mixers are available in 4- or 8-pole versions in the range from 0.75 to 4.5 kW, and gear driven mixers are available in the range from 1.5 to 18.5 kW.

Flowmakers are available in the range from 1.3 to 4.0 kW.

Powerful advantages

► Life-long reliability

Grundfos mixers and flowmakers are of a robust construction, designed for continuous operation under the most difficult operating conditions.

► Energy-saving efficiency

Modular motors and planetary gear systems make the mixers and flowmakers highly dependable and very efficient with low operating costs.

► Easy maintenance

State-of-the-art design and sturdy construction reduce wear and tear and allow for quick and easy once-a-year maintenance.



A wide variety of applications



The Grundfos range of mixers and flow-makers is ideally suited for a variety of applications in wastewater treatment and industrial aquaculture.

Municipal wastewater treatment

- Pumping stations
- Storm water tanks
- Biological treatment of activated sludge
- Treatment of primary wastewater
- Treatment of secondary wastewater
- Treatment of digested sludge
- Sludge storage tanks
- Homogenisation tanks

Industrial processes

- Paper industry
- Paint and dye-stuff mixing
- Chemical industry
- Other industrial homogenisation processes

Sludge treatment

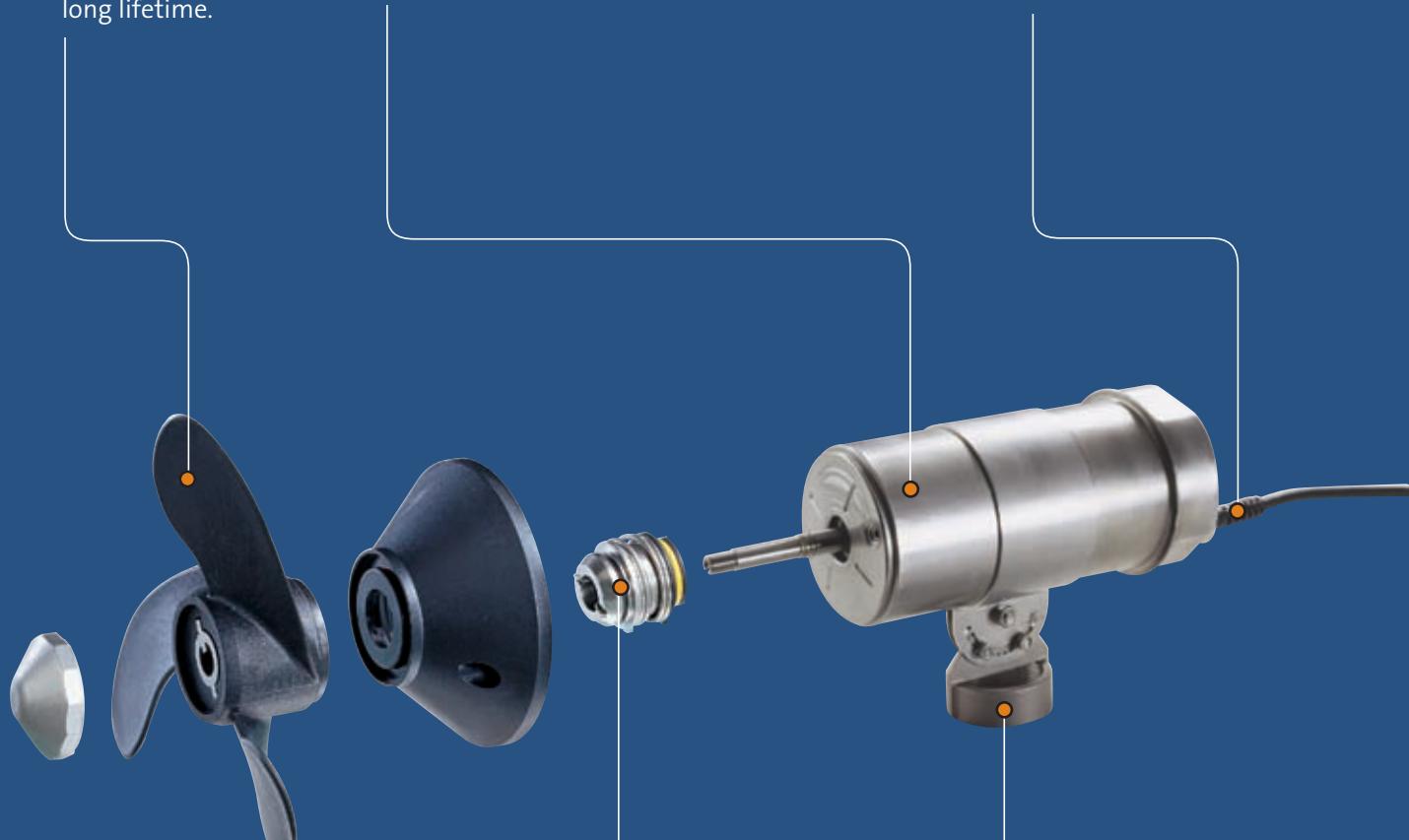
- Homogenising storage and thickener sludge
- Digesting processes
- Degassing and lime storage mixing

Agriculture

- Slurry
- Biogas



Mixer AMD.07.18.1410



Self-cleaning propeller

Made from highly wear-resistant polyamide material. This ensures reliable operation and a long lifetime.

Motor protection

The motor is protected against overload and overheating by three thermal switches placed in each motor winding.

Cable entry

The cable entry is hermetically sealed with a glass seal. In the event of damage, no water will penetrate the motor.

Shaft seal

The shaft seal is operating in an oil-filled seal housing, which ensures optimum operating conditions and a long lifetime. When it does eventually wear out, low replacement cost is another benefit.

Bracket

Supplied with a 2" bracket, ready for installation.

Mixer AMD.XX.45.XXX

Integrated motor bracket

Non-corroding polyamide motor bracket with integrated hermetically sealed cable entry. Stainless steel AISI 316 on explosive-proof versions.

Motor housing

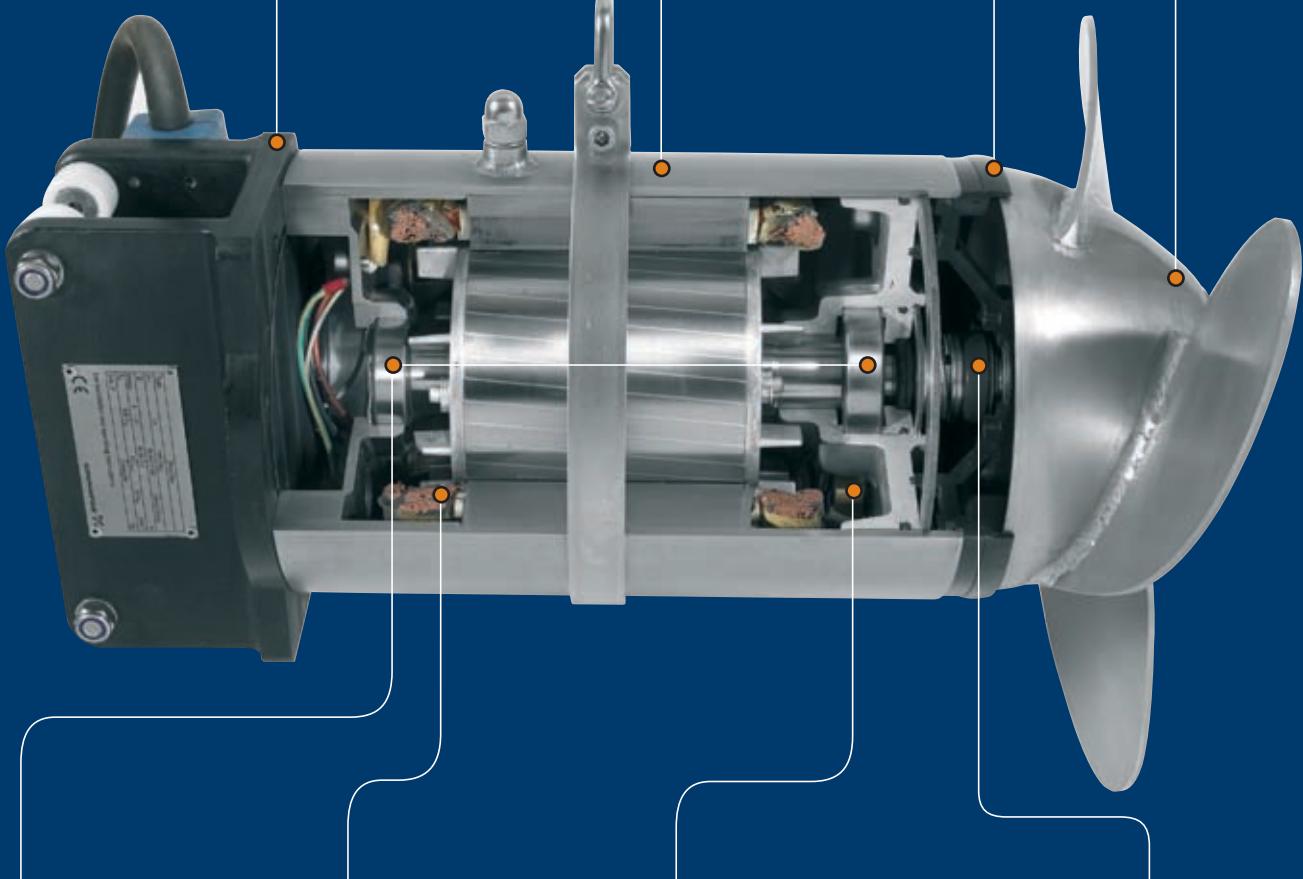
Made from stainless steel AISI 316 with a smooth self-cleaning surface.

Protection ring

Made from POM. Ensures that long-fibred materials are not caught and wound around the propeller shaft.

Self-cleaning propeller

Hydrodynamic 3-blade propeller and hub with excellent self-cleaning capabilities, made from stainless steel AISI 316.



Two ball bearings

The rotor shaft rests on two heavy-duty ball bearings.

Motor protection

The motor is protected against overload and overheating by three thermal switches placed in each motor winding.

Active electronic leak sensor

A liquid detection system prevents damage to the mixer in the event that water should penetrate into the oil chamber.

Shaft sealing

Mechanical shaft seal of silicon carbide, SiC/SiC, and secondary seal of carbon/SiC. The primary seal is protected against ingress of long-fibred materials by a stain-less steel protection sleeve. The secondary seal is mounted in an oil chamber.

AMG, AFG

Cable entry

Watertight cable entry with self-shaping seal prevents cable damage.

Motor protection

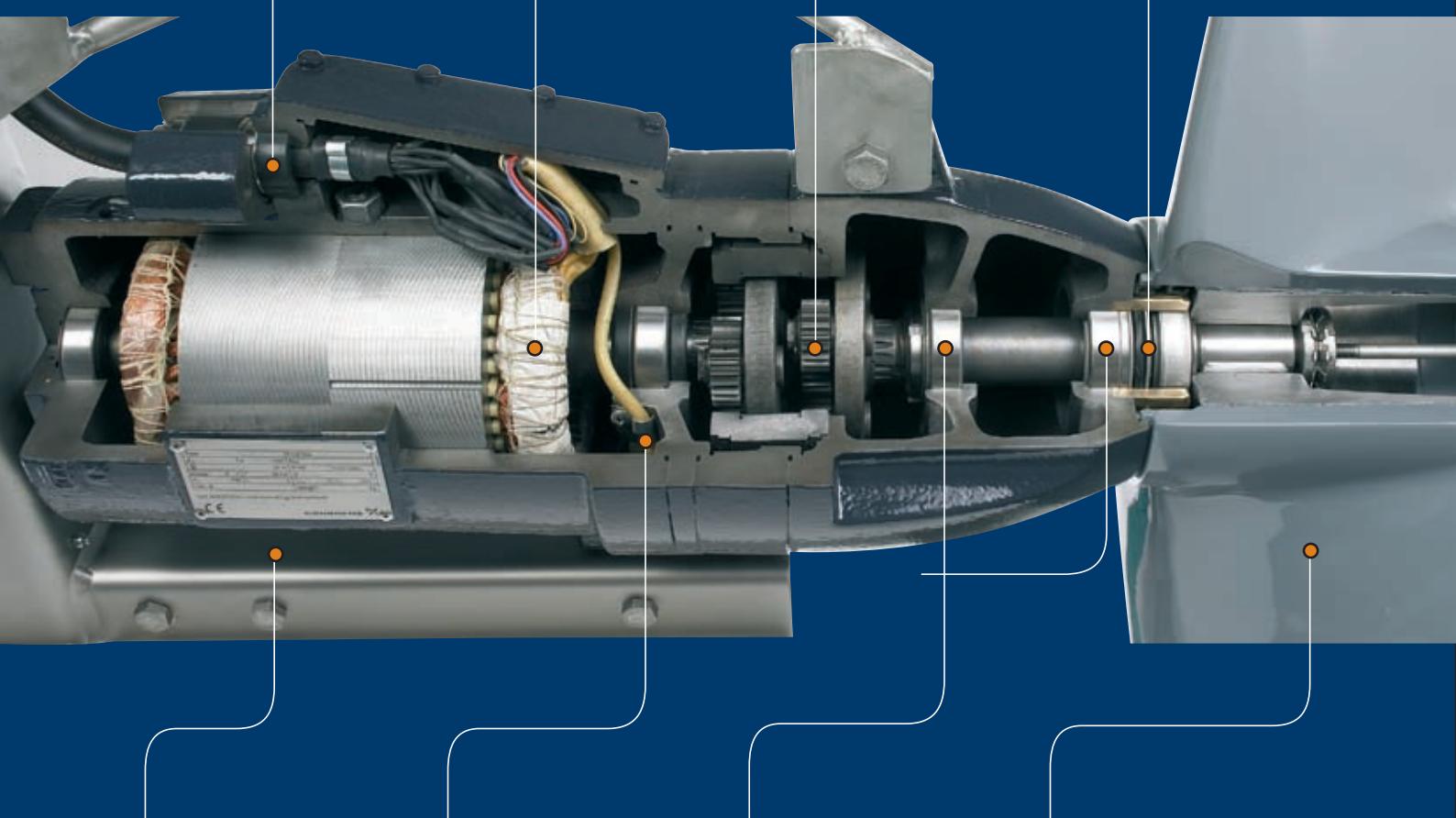
The motor is protected against overload and overheating by three thermal switches or three thermistors placed in each motor winding.

Planetary gear

The best and most efficient solution to transporting axial forces. Slim design provides optimum hydrodynamic shape.

Shaft sealing

The radial shaft seal rings protect the mechanical shaft seal system from abrasive parts. During maintenance, only the less expensive radial shaft seal rings need to be changed.



Motor bracket

Corrosion-resistant motor bracket made from stain-less steel, galvanically separated from the motor housing. The motor bracket ensures easy installation and stable operation.

Active electronic leak detector

Indicates possible liquid in the gear housing. Even the smallest quantity will be quickly detected. Thus service can be carried out before any damage is done.

Two ball bearings

The rotor shaft rests on two ball bearings, which accommodate both axial and radial forces.

Propeller hub

Hydro dynamic 2 or 3-blade propellers allow for high efficiency and non-clogging operation. The propeller hub forms a labyrinth seal for the sealing system.

Product information and type key

Material specifications

Component	Material	DIN W.-Nr./EN standard	AISI/t ASTM	Mixer/flowmaker
Bottom fixation				
Column profile tube	Stainless steel	1.4301 1.4401	304 316	All types
Depth blocker				
Mounting clamp, t with 2" bracket	Stainless steel	1.4401	316	AMD.07.18.1410
Motor bracket	Stainless steel	1.4301 1.4401	304 316	AMG, AFG
	PA12	-	-	AMD
	Stainless steel	1.4401	316	AMD Ex version
Top fixation	Stainless steel	1.4401	304	All types
	or galvanized steel	1.0037	-	
Pull and safety chain	Stainless steel	1.4404	316L	AMD, AMG
Stand with winch		1.4301	304	
Crane boom with winch	Stainless steel or galvanized steel	1.4401 1.0037	316L -	Open installation
Crane with chain t hoist and chain	Stainless steel	1.4301 1.4401	304 316	
Crane boom with winch	Galvanized steel	1.0037	-	Sealedt installation
	Aluminium	ALMg3	-	
Motor housing	Stainless steel	1.4401	316	AMD.07.18.1410
	Cast-iron, grade 25 (EN-GJL-250)	EN-JL1040	-	AMG, AFG
	Stainless steel	1.4401	316	AMD
Sealing flange	POM (polyxymethylene)	-	-	AMD
Motor flange	Aluminium	-	-	AMD
Protecting ring	POM (polyxymethylene)	-	-	AMD
Gear housing	Cast-iron, grade 25 (EN-GJL-250)	EN-JL1040	-	AMG, AFG
Propeller	Stainless steel	1.4301 1.4401	304 316	AMG AMD
	Ductile, moulded polyamide PA6G	-	-	AFG.XX.130.XX
	Epoxy resin (Baydur®) with cast-iron (EN-GJS-400-15) reinforcement	EN-JS1030	-	AFG.XX.180.XX AFG.XX.230.XX
Propeller and hub	Polyamide PA6G	-	-	AMD.07.18.1410
Hub	Stainless steel	1.4301 1.4401	304 316	AFG.XX.130.XX AMD.XX.45
	Cast-iron (EN-GJS-400-15)	EN-JS1030	-	AFG.XX.180.XX AFG.XX.230.XX

Corrosion protection

To ensure long and trouble-free operation, the cast iron parts of the mixers/flowmakers are protected against corrosion with a high-grade epoxy corrosion system. Anti-corrosive protection of submerged components. Two-component EP coating free from tar. Minimum thickness 320µ. Complies with the AA 423 standard.

Electrical

Mains voltage [V]	3 x 400-415
Voltage tolerance [%]	+6/-10
Voltage tolerance [%] Ex version	+/-6
Mains frequency required [Hz]	50
Thermal sensor type	PTC or PTO
Thermal sensor type Ex version	PTC
Thermal switch cut-out temperature [°C]	130
Enclosure class	IP 68
Insulation class	F
Max. installation depth [m]	20
Max. liquid temperature [°C]	40
Max. number of starts/hour	20
Cable length [m]	8

Type key

Example	A	M	D	.45	.45	B	.675
Type range							
Version:							
M = Mixer							
F = Flowmaker							
Drive:							
D = Direct							
G = Gear							
Power output, P_2 [kW] x 10							
Propeller diameter [cm]							
= Biology and slurry							
B = Biology*							
Propeller speed [min^{-1}]							
Non explosion-proof							
E = Explosion-proof							

* Must only be used for liquids ≤ 1.5% dry solids content (DS).

Technical data

Standard versions

Mixer/flowmaker	Power output, P_N [kW]	Power input, P_1 [kW]	Rated motor voltage [V]	Cable type (8 m long)	Number of poles	Operating mode ²⁾	Propeller speed [min^{-1}]	I_N [A^2]	$\cos \phi$	Starting current [A]	Number of blades	Capacity [m^3/h]	Mean velocity [m/s]	Product numbers		
AMD.07.18.1410	0.75	1.3	400	H07RN-F4G1	4	S1, delta	1410	1.9	0.75	9.3	3	231	2.6	96113490		
AMD.15.45B.710	1.5	2.01	230/400			S1, star	710	5.9	0.53	26.7		874	1.9	96496413		
AMD.25.45B.690	2.5	3.21				S1, star	690	7.2	0.69	26.7		1058	2.3	96496412		
AMD.35.45B.705	3.5	4.86	400			S1, delta	705	11.3	0.65	45.8		1245	2.71	96496411		
AMD.45.45B.675	4.5	6.08				S1, delta	675	12.5	0.72	45.8		1435	3.12	96560925		
AMD.20.45.700	2.0	2.62	230/400			S1, star	700	6.5	0.62	26.7		966	2.1	96560926		
AMD.30.45.710	3.0	4.23				S1, delta	710	10.4	0.61	45.8		1151	2.51	96560927		
AMD.40.45.695	4.0	5.48	400			S1, delta	695	12.0	0.68	45.8		1340	2.92	96560928		
AMG.15.40.325	1.5	1.88				S1, star	325	4.2	0.75	21.0	2	1058	2.15	96094843		
AMG.22.45.325	2.2	2.75	230/400			S1, star	325	6.0	0.78	30.0		1350	2.34	96094844		
AMG.30.47.328	3.0	3.75				S1, delta	328	7.3	0.79	38.7		1629	2.50	96094845		
AMG.40.52.326	4.0	5.00	400/690			S1, delta	326	9.2	0.78	42.3		2118	2.72	96094846		
AMG.55.50.335	5.5	6.88				S1, delta	335	12.9	0.82	65.8		2315	3.21	96094847		
AMG.75.58.336	7.5	9.38	400/690			S1, delta	336	16.4	0.84	98.4		3234	3.40	96094848		
AMG.110.68.334	11.0	13.70				S1, delta	334	24.0	0.87	124.8		4563	3.49	96094849		
AMG.150.73.354	15.0	18.70	400			S1, delta	354	33.0	0.76	191.4		5907	3.92	96094850		
AMG.185.78.351	18.5	23.10				S1, delta	351	39.0	0.80	241.8		6985	4.06	96094851		
AFG.15.130.76	1.5	1.84	230/400			S1, star	76	4.2	0.67	21.0	2	5874	1.23	96094852		
AFG.22.130.77	2.2	2.70				S1, star	77	6.0	0.78	30.0		6782	1.42	96094853		
AFG.30.130.92	3.0	3.75	400/690			S1, delta	92	7.3	0.78	38.7		7546	1.58	96094854		
AFG.40.130.93	4.0	5.00				S1, delta	93	9.2	0.83	42.3		8453	1.77	96094855		
AFG.13.180.30	1.3	1.63	230/400			S1, star	30	3.9	0.61	17.6		7461	0.81	96560917		
AFG.18.180.34	1.8	2.25				S1, star	34	4.5	0.74	20.3		8770	0.96	96560919		
AFG.24.180.39	2.4	3.00	400			S1, delta	39	7.1	0.61	32.0		10075	1.10	96560921		
AFG.37.180.46	3.7	4.63				S1, delta	46	8.0	0.80	36.0		12147	1.33	96560922		
AFG.15.230.22	1.5	1.88	230/400			S1, star	22	5.2	0.52	24.0	3	10470	0.70	96094856		
AFG.22.230.25	2.2	2.75				S1, star	25	6.4	0.63	29.0		12265	0.82	96094857		
AFG.30.230.29	3.0	3.75	400/690			S1, delta	29	8.6	0.66	41.3		15556	1.04	96094858		
AFG.40.230.35	4.0	5.00				S1, delta	35	10.0	0.73	43.7		17500	1.17	96094859		

1) If the liquid viscosity exceeds that of water, the mixer can operate up to this figure without any problems.

Operation in water gives lower values.

2) Applies to 400 V mains voltage.

On request AMD.XX.45.XXX are available with motor bracket for column profile tube 50x50 mm and 100x100 mm for the replacement market.

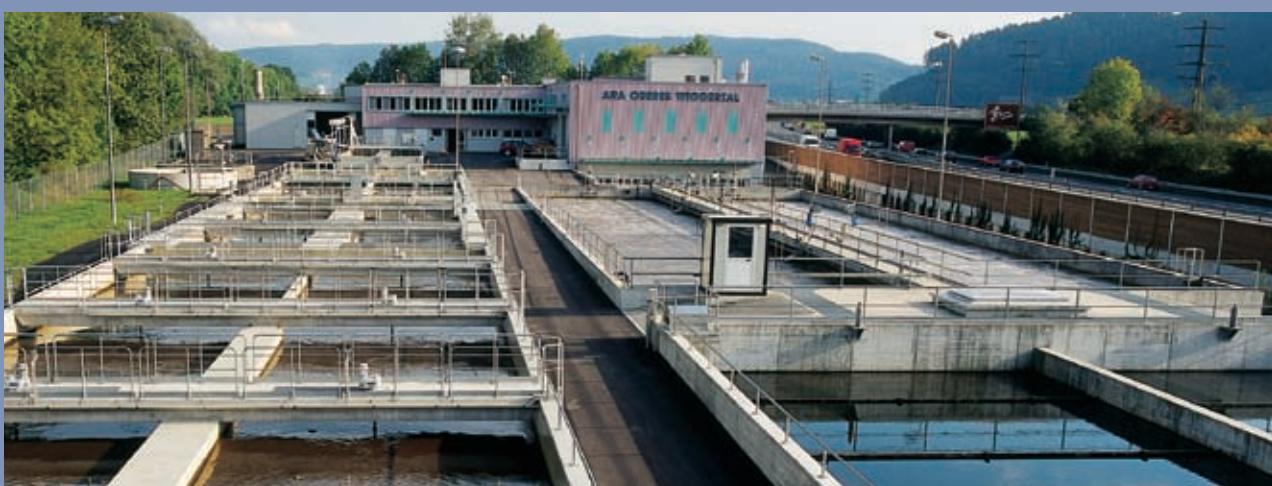
Technical data

Ex-approved versions

Mixer/flowmaker	Power output, P_N [kW]	Power input, P_1 [kW]	Rated motor voltage [V]	Cable type (8 m long)	Number of poles	Operating mode	Propeller speed [min^{-1}]	I_N [A]	$\cos \phi$	Starting current [A]	Number of blades	Capacity [m^3/h]	Mean velocity [m/s]	Product numbers
AMD.15.45B.710.E*	2.1	1.5	400	AO7RN-F12G1.5	8	S1. Y	710	5.9	0.53	26.7	3	874	1.90	96560929
AMD.25.45B.690.E*	3.3	2.5				S1. Y	690	7.2	0.69	26.7		1058	2.30	96560930
AMD.35.45B.705.E*	4.9	3.5				S1. Δ	705	11.3	0.65	45.8		1245	2.71	96560931
AMD.45.45B.675.E*	6.1	4.5				S1. Δ	675	12.5	0.72	45.8		1435	3.12	96560932
AMD.20.45.700.E*	2.7	2.0				S1. Y	700	6.5	0.62	26.7		966	2.10	96560933
AMD.30.45.710.E*	4.2	3.0				S1. Δ	710	10.4	0.61	45.8		1151	2.51	96560934
AMD.40.45.695.E*	5.6	4.0				S1. Δ	695	12.0	0.68	45.8		1340	2.92	96560935
AMG.15.40.340.E**	2.1	1.5		AO7RN-F12G2.5	4	S1. Y	340	6.6	0.46	42.0	3	1058	2.15	96257401
AMG.22.45.336.E**	2.9	2.2				S1. Y	336	7.2	0.60	42.0		1350	2.34	96257402
AMG.30.47.338.E**	3.8	3.0				S1. Δ	338	10.2	0.54	75.5	2	1629	2.50	96257403
AMG.40.52.334.E**	5.0	4.0				S1. Δ	334	11.1	0.65	75.5		2118	2.72	96257404
AMG.55.50.344.E**	6.8	5.5	AO7RN-F12G4	AO7RN-F12G1.5	4	S1. Δ	344	20.7	0.48	193.0	2	2315	3.21	96257405
AMG.75.58.343.E**	9.1	7.5				S1. Δ	343	22.5	0.59	193.0		3234	3.40	96257406
AMG.110.68.342.E**	12.6	11.0				S1. Δ	342	26.1	0.71	257.0		4563	3.49	96257407
AMG.150.73.355.E**	16.6	15.0				S1. Δ	355	34.0	0.71	284.0		5907	3.92	96257408
AMG.185.78.356.E**	20.6	18.5				S1. Δ	356	48.3	0.62	423.0		6985	4.06	96257409
AFG.15.130.79.E**	2.1	1.5	AO7RN-F12G1.5	AO7RN-F12G4	4	S1. Y	79	6.6	0.46	42.0	2	5874	1.23	96257410
AFG.22.130.78.E**	2.9	2.2				S1. Y	78	7.2	0.60	42.0		6782	1.42	96257411
AFG.30.130.95.E**	3.8	3.0				S1. Δ	95	10.2	0.54	75.5		7546	1.58	96257412
AFG.40.130.94.E**	5.0	4.0				S1. Δ	94	11.1	0.65	75.5		8453	1.77	96257413
AFG.13.180.30.E**	1.8	1.3				S1. Y	30	6.4	0.44	42.0		7461	0.81	96257414
AFG.18.180.34.E**	2.4	1.8				S1. Y	35	6.9	0.54	42.0		8770	0.96	96257415
AFG.24.180.39.E**	3.1	2.4		AO7RN-F12G1.5	6	S1. Δ	39	9.8	0.50	75.5	3	10075	1.10	96257416
AFG.37.180.46.E**	4.6	3.7				S1. Δ	47	10.8	0.62	75.5		12147	1.33	96257417
AFG.15.230.23.E**	2.1	1.5		AO7RN-F12G4	4	S1. Y	23	7.1	0.43	44.4	3	10470	0.70	96257418
AFG.22.230.26.E**	2.9	2.2				S1. Y	26	7.7	0.54	44.4		12265	0.82	96257419
AFG.30.230.30.E**	3.8	3.0		AO7RN-F12G1.5	6	S1. Δ	30	10.2	0.54	75.5	3	15556	1.04	96257420
AFG.40.230.34.E**	5.0	4.0				S1. Δ	34	11.1	0.65	75.5		17500	1.17	96257421

*) ATEX Approval II 2G EEx de IIc T4

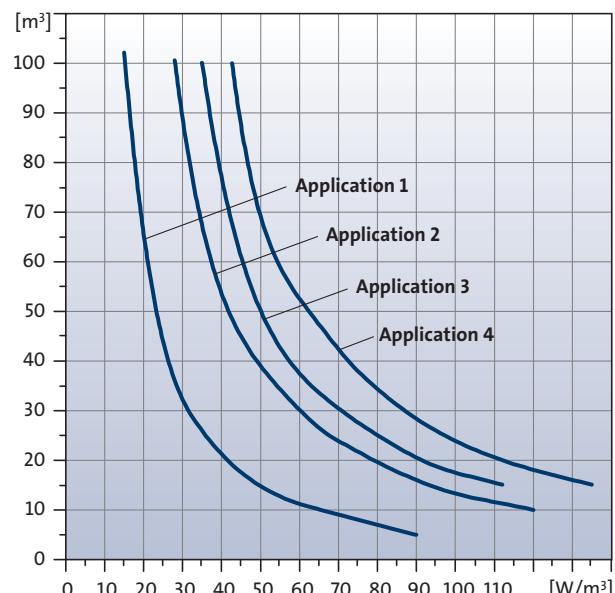
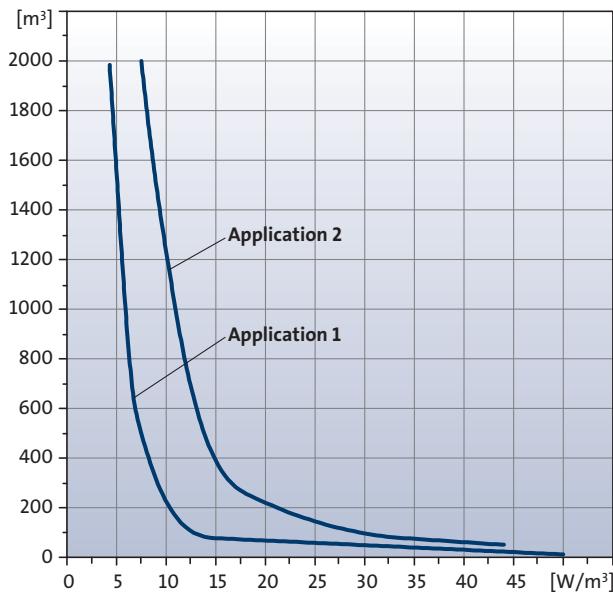
**) ATEX Approval II 2G EEx e ck ib IIc T3



Selection guide for Grundfos mixers

This selection guide is for guidance only. For further information please contact Grundfos.

The selection charts (curves) for the Grundfos mixers are based on square and circular tank shapes.



Mixer type	Motor power P_2 [kW]	Maximum tank length for one mixer [m]			
		Application 1	Application 2	Application 3	Application 4
AMD.07.18.1410	0.75	6 m	2.5 m	2.0 m	1.5 m
AMD.15.45B.XXX.(E)	1.50	16 m	-	5.5 m	4.5 m
AMD.25.45B.XXX.(E)	2.50	20 m	-	6.0 m	5.0 m
AMD.35.45B.XXX.(E)	3.50	24 m	-	6.5 m	5.5 m
AMD.45.45B.XXX.(E)	4.50	28 m	-	7.0 m	6.0 m
AMD.20.45.XXX.(E)	2.00	16 m	11 m	5.0 m	4.5 m
AMD.30.45.XXX.(E)	3.00	20 m	13 m	6.0 m	5.0 m
AMD.40.45.XXX.(E)	4.00	24 m	14 m	6.5 m	5.5 m
AMG.15.40.XXX.(E)	1.50	20 m	10 m	5.5 m	4.0 m
AMG.22.45.XXX.(E)	2.20	22 m	11 m	6.0 m	4.5 m
AMG.30.47.XXX.(E)	3.00	24 m	12 m	6.5 m	5.0 m
AMG.40.52.XXX.(E)	4.00	26 m	13 m	7.0 m	5.5 m
AMG.55.50.XXX.(E)	5.50	31 m	15 m	8.6 m	6.0 m
AMG.75.58.XXX.(E)	7.50	37 m	18 m	10.0 m	7.5 m
AMG.110.68.XXX.(E)	11.00	45 m	22 m	12.5 m	9.0 m
AMG.150.73.XXX.(E)	15.00	55 m	27 m	15.0 m	11.0 m
AMG.185.78.XXX.(E)	18.50	65 m	30 m	18.0 m	13.0 m

Application 1
Activated sludge, Selector zones
Anoxic zones, Bivalent zones,
Anaerobic zones

Application 2
Primary sludge \leq 3% solid contents
Secondary sludge \leq 6% solid contents
Digested sludge \leq 8% solid contents

Application 3
Pump sump without screen

Application 4
Pump sump with sand

Example, mixers:

For tank volumes larger than 2000 m³, please use the required energy value for 2000 m³.

Step 1 Select curve for application in question using the above definitions, for instance Application 2.

Step 2 Select tank volume, for instance 1200 m³.

Step 3 Use the curve chart to determine required energy. This example = 10 W/m³ primary sludge.

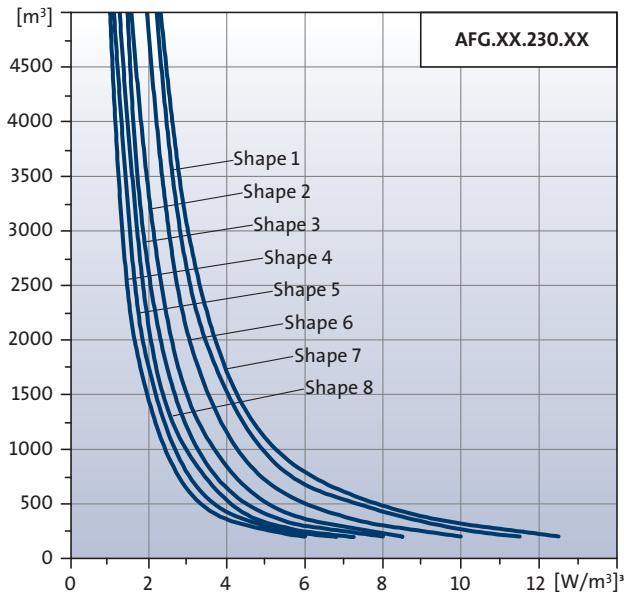
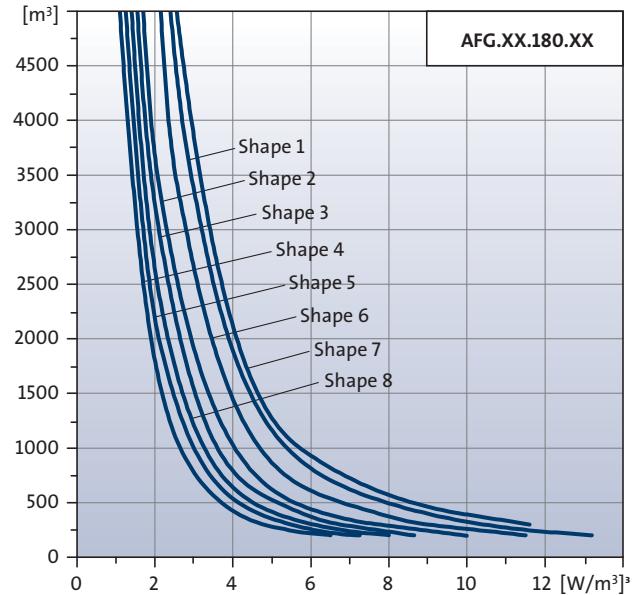
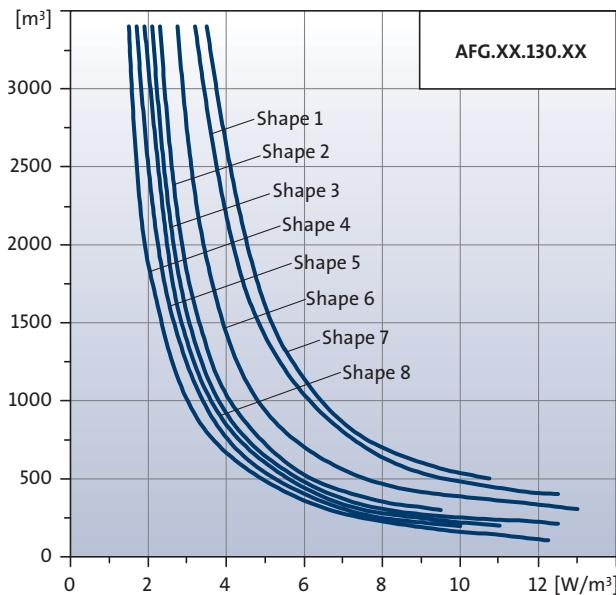
Step 4 Calculate required power input, using this formula:

$$\text{Req. energy } 10 \text{ W/m}^3 \times \text{tank volume } 1200 \text{ m}^3 = 12 \text{ kW.}$$

Result: 1 unit of AMG.150.73.354, which will provide a power output of 15 kW (12 kW is required). Alternatively select 2 units of AMG.75.98.336. **Check** that the maximum tank length is not exceeded. If this is the case the required energy must be split onto more mixers installed in series.

Selection guide for Grundfos flowmakers

The selection charts (curves) for the Grundfos flowmakers are based on activated sludge and a velocity of 0.3 m/sec., and a relation between tank length and width of 4:1. The curves are based on tanks with aeration. If there is no aeration, an energy saving of 25% can be expected compared to the curves shown.



Example, flowmakers:

If the tank space allows it, choose an AFG.XX.230, using the following procedure.

For tank volumes larger than 5000 m³, please use the required energy value for 5000 m³.

Step 1 Select the shape of tank for instance shape 4.

Step 2 Select volume for instance 1500 m³.

Step 3 Use the curve chart to determine required energy.

This example = 1.9 W/m³ activated sludge.

Step 4 Calculate required power input:

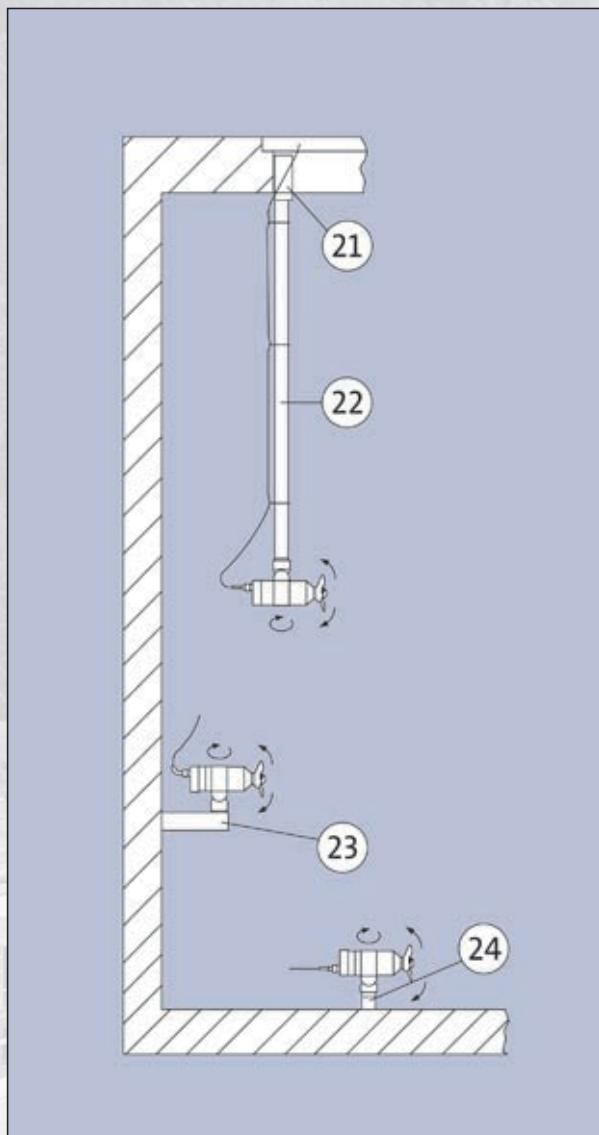
$$\text{Req. energy } 1.9 \text{ W/m}^3 \times \text{tank volume } 1500 \text{ m}^3 = 2.85 \text{ kW}$$

Result: 1 unit of AFG.30.230.29, which will provide a power output of 3 kW (2.85 kW is required).

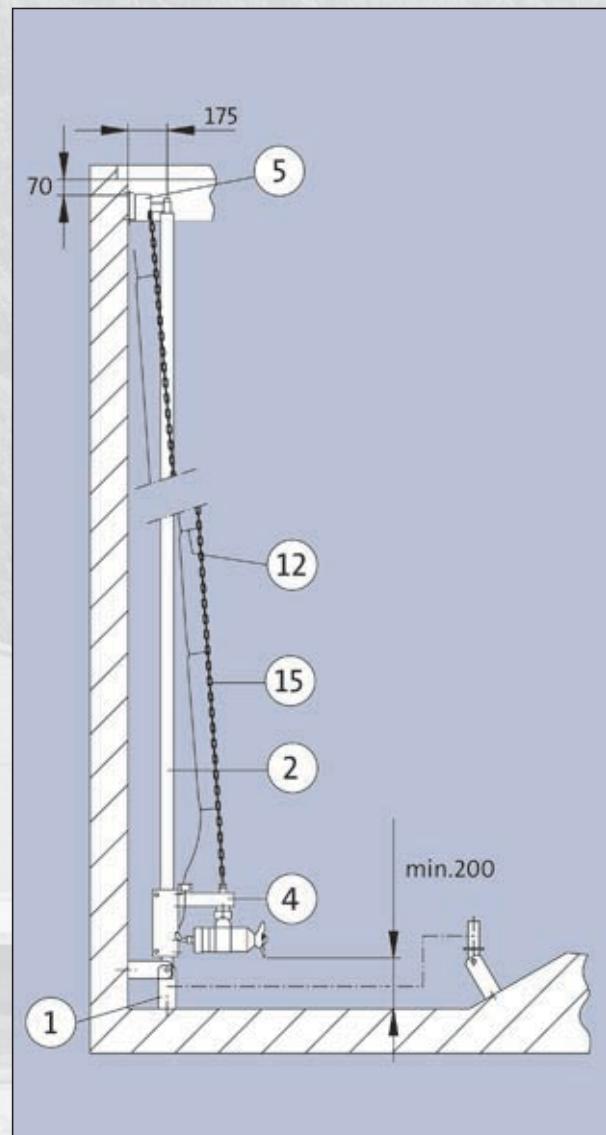
Shape 1:	Shape 2:	Shape 3:	Shape 4:	Shape 5:	Shape 6:	Shape 7:	Shape 8:

AFG.XX.130.XX	Power output (kW)	AFG.XX.180.XX	Power output (kW)	AFG.XX.230.XX	Power output (kW)
AFG.15.130.XX.(E)	1.5	AFG.13.180.XX.(E)	1.3	AFG.15.230.XX.(E)	1.5
AFG.22.130.XX.(E)	2.2	AFG.18.180.XX.(E)	1.8	AFG.22.230.XX.(E)	2.2
AFG.30.130.XX.(E)	3.0	AFG.24.180.XX.(E)	2.4	AFG.30.230.XX.(E)	3.0
AFG.40.130.XX.(E)	4.0	AFG.37.180.XX.(E)	3.7	AFG.40.230.XX.(E)	4.0

Suspended mounting, wall mounting and floor mounting



Column profile tube mounting



Bottom fixation

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
1	AMD.07.18.1410	Horizontal/inclined (0-90°)	60/60	Stainless steel	1.4301 1.4401	304 316	96490666 96490667

Column profile tube

Pos.	Mixer	Description
2	AMD.07.18.1410	See column profile tube, page 24

Motor bracket

Pos.	Mixer	Column size	Material	DIN W.-Nr.	AISI	Product number
4	AMD.07.18.1410	60/60	Stainless steel	1.4401	316	96115295

Top fixation

Pos.	Mixer	Column size	Material	DIN W.-Nr.	AISI	Product number
5	AMD.07.18.1410	60/60	Stainless steel	1.4301 1.4401	304 316	96489522 96489523

Cable clamp

Pos.	Mixer	Column size	Material	DIN W.-Nr.	AISI	Product number
12	AMD.07.18.1410	-	Stainless steel	1.4404	316	96565202

Pull and safety chain, length 6 m

Pos.	Mixer	Column size	Material	DIN W.-Nr.	AISI	Product number
15	AMD.07.18.1410	-	Stainless steel	1.4404	316	96490869

Fixation bracket for suspended mounting

Pos.	Mixer	Column size	Material	DIN W.-Nr.	AISI	Product number
21	AMD.07.18.1410	2"	Stainless steel	1.4401	316	96115293

Tube for suspended mounting, length 3 m

Pos.	Mixer	Column size	Material	DIN W.-Nr.	AISI	Product number
22	AMD.07.18.1410	2"	Stainless steel	1.4401	316	96115294

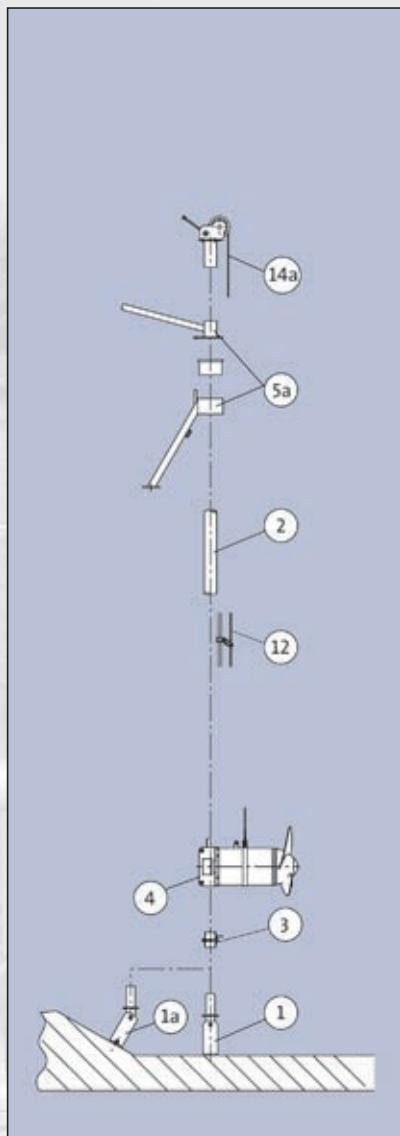
Fixation bracket for wall mounting

Pos.	Mixer	Column size	Material	DIN W.-Nr.	AISI	Product number
23	AMD.07.18.1410	-	Stainless steel	1.4401	316	96115291

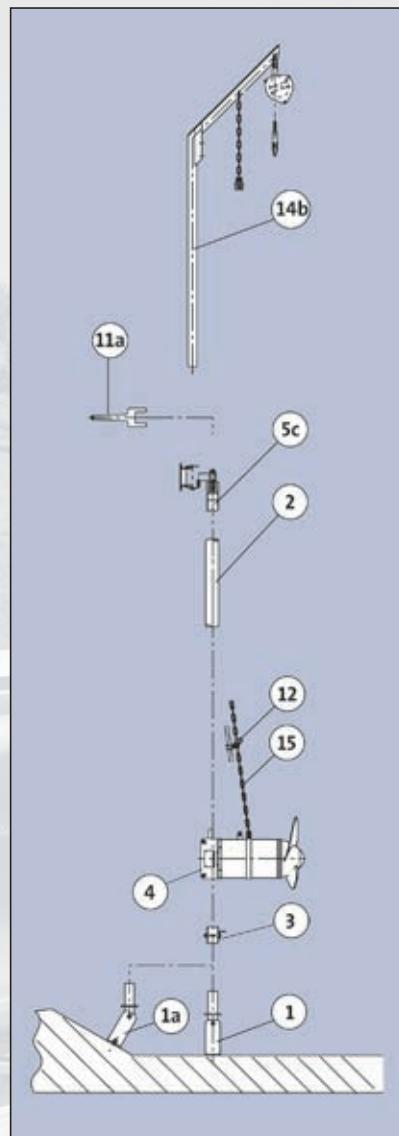
Fixation base for floor mounting

Pos.	Mixer	Column size	Material	DIN W.-Nr.	AISI	Product number
24	AMD.07.18.1410	-	Stainless steel	1.4401	316	96115292

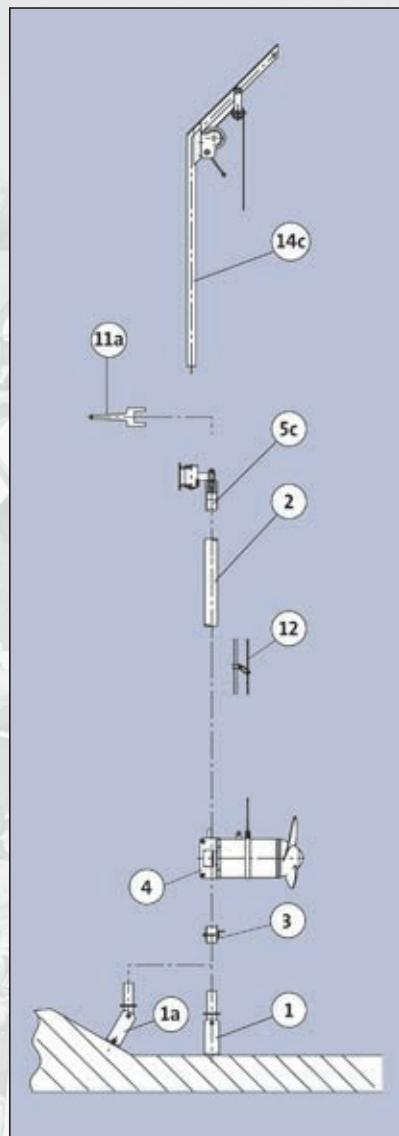
Open installation



Sealed installation



Sealed installation



Bottom fixation

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
1/1a	AMD.XX.45.XXX.(E)	Horizontal/inclined (0-90°)	60/60	Stainless steel	1.4301	304	96490666
					1.4401	316	96490667

Column profile tube

Pos.	Mixer	Description
2	AMD.XX.45.XXX.(E)	See column profile tube, page 24

Depth blocker

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
3	AMD.XX.45.XXX.(E)	For clamping	60/60	Stainless steel	1.4301	304	96561074
					1.4401	316	96505606

Top fixation

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
5a	AMD.XX.45.XXX.(E)	Open installation	60/60	Stainless steel	1.4301	304	96490756
					1.4401	316	96490757
		Sealed installation		Galvanised steel	1.0037	-	96490758
				Stainless steel	1.4301 1.4401	304 316	96489522 96489523

Turning key

Pos.	Mixer	Description	Product number
11a	AMD.XX.45.XXX.(E)	Key for turning the column profile tube	96494522

Cable clamp

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
12	AMD.XX.45.XXX.(E)	Cable clamp set	-	Stainless steel	1.4404	316L	96494352

Stand with winch, incl. 8 m wire

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
14a	AMD.XX.45.XXX.(E)	Open installation	60/60	Stainless steel	1.4301	304	96490816
					1.4401	316	96490817
					1.0037	-	96489561

Crane with chain hoist, incl. chain

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
14b	AMD.XX.45.XXX.(E)	Sealed installation	-	Stainless steel	1.4301	304	96490862
					1.4401	316	96490863
					1.0037	-	96490864

Crane boom with winch, incl. 8 m wire

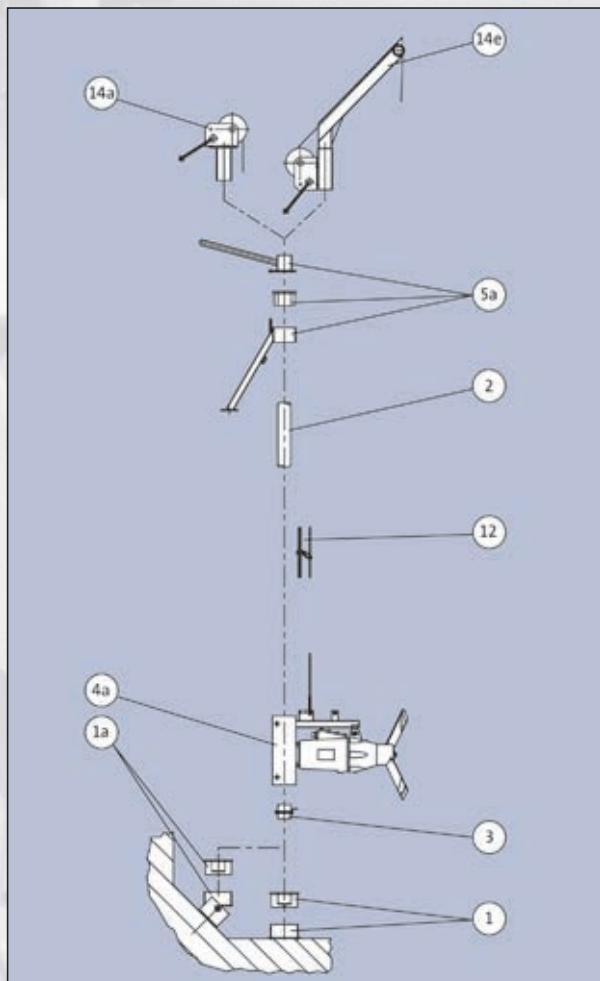
Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
14c	AMD.XX.45.XXX.(E)	Sealed installation	-	Stainless steel	1.4301	304	96562078
					1.4401	316	96562079
					1.0037	-	96562120

Pull and safety chain, length 6 m

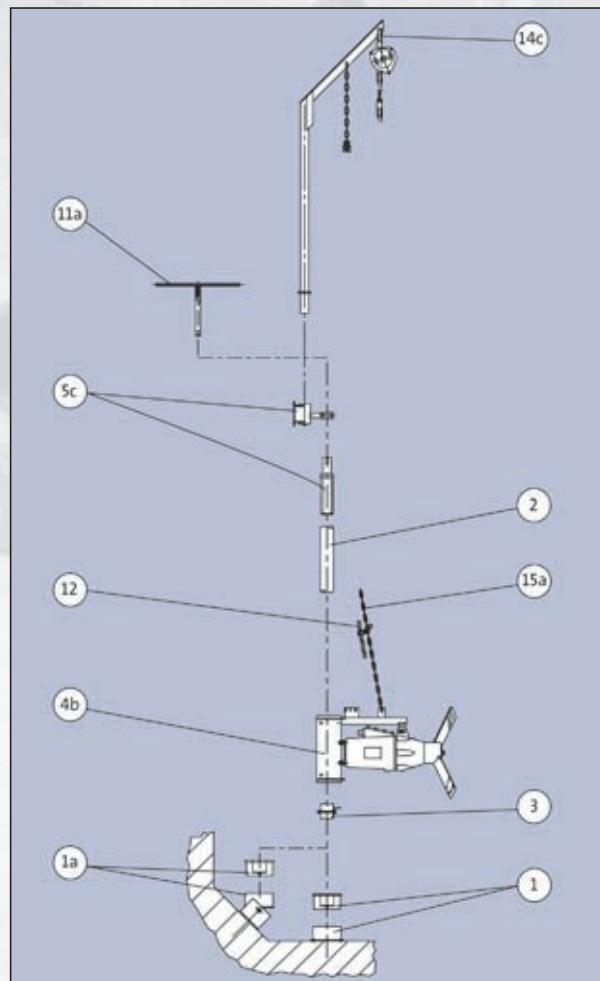
Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
15	AMD.XX.45.XXX.(E)	Sealed installation	-	Stainless steel	1.4404	316L	96494529

AMG.15.XX to AMG.40.XX

Open installation



Sealed installation



Bottom fixation

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
1	AMG.15.40.XXX.(E) AMG.22.45.XXX.(E)	Horizontal	80/80	Stainless steel	1.4301	304	96490669
1a	AMG.30.47.XXX.(E) AMG.40.52.XXX.(E)				1.4401	316	96489417
					1.4301	304	96490673
					1.4401	316	96489418

Column profile tube

Pos.	Mixer	Description
2	AMG.15.40.XXX.(E) AMG.22.45.XXX.(E) AMG.30.47.XXX.(E) AMG.40.52.XXX.(E)	See column profile tube, page 24

Depth blocker

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
3	AMG.15.40.XXX.(E) AMG.22.45.XXX.(E) AMG.30.47.XXX.(E) AMG.40.52.XXX.(E)	For clamping	80/80	Stainless steel	1.4301	304	96490714
					1.4401	316	96490717

AMG.15.XX to AMG.40.XX

Motor bracket

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
4a	AMG.15.40.XXX.(E)	Open installation	80/80	Stainless steel	1.4301	304	96489465
	AMG.22.45.XXX.(E)				1.4401	316	96489466
4b	AMG.30.47.XXX.(E)	Sealed installation	80/80	Stainless steel	1.4301	304	96490735
	AMG.40.52.XXX.(E)				1.4401	316	96490736

Top fixation

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
5a	AMG.15.40.XXX.(E)	Open installation	80/80	Stainless steel	1.4301	304	96489491
	AMG.22.45.XXX.(E)				1.4401	316	96489492
	AMG.30.47.XXX.(E)			Galvanised steel	1.0037	-	96489493
5c	AMG.40.52.XXX.(E)	Sealed installation	80/80	Stainless steel	1.4301	304	96489524
					1.4401	316	96489525

Turning key

Pos.	Mixer	Description				Product number
11a	AMG.15.40.XXX.(E) AMG.22.45.XXX.(E) AMG.30.47.XXX.(E) AMG.40.52.XXX.(E)	Key for turning the column profile tube				96494545

Cable clamp

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
12	AMG.15.40.XXX.(E) AMG.22.45.XXX.(E) AMG.30.47.XXX.(E) AMG.40.52.XXX.(E)	Cable clamp set	-	Stainless steel	1.4404	316L	96494352

Stand with winch, incl. 8 m wire

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
14a	AMG.15.40.XXX.(E)	Open installation	80/80	Stainless steel	1.4301	304	96490818
	AMG.22.45.XXX.(E)				1.4401	316	96490819
	AMG.30.47.XXX.(E)			Galvanised steel	1.0037	-	96489562

Crane boom with winch, incl. 8 m wire

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
14e	AMG.15.40.XXX.(E)	Open installation	80/80	Stainless steel	1.4301	304	96490774
	AMG.22.45.XXX.(E)				1.4401	316	96490776
	AMG.30.47.XXX.(E)			Galvanised steel	1.0037	-	96490777

Crane with chain hoist, incl. chain

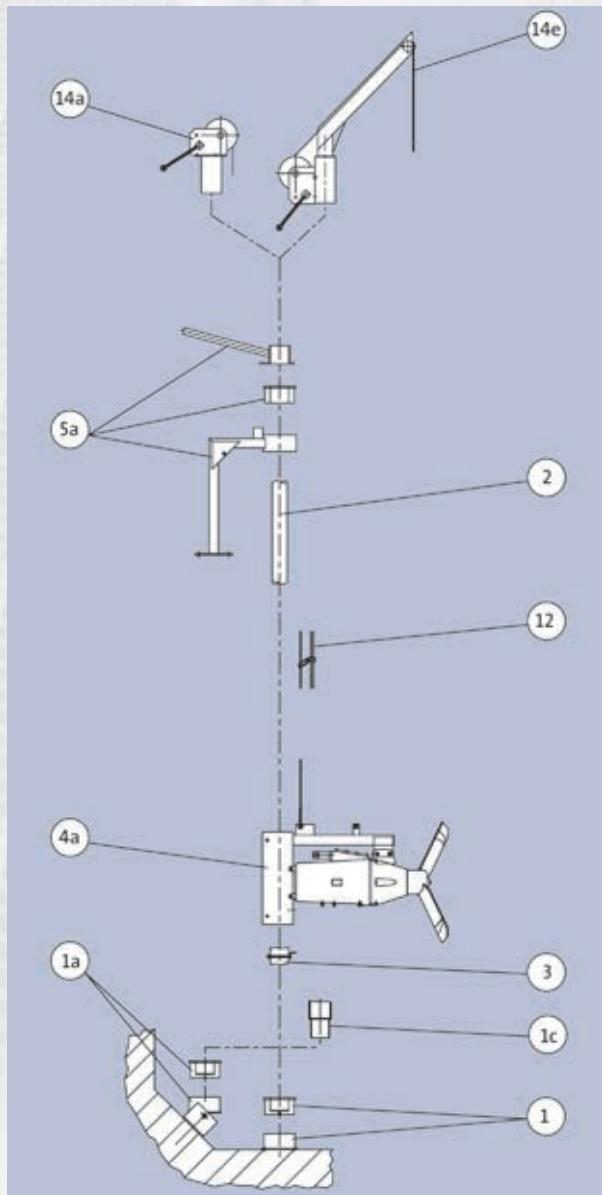
Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
14c	AMG.15.40.XXX.(E)	Sealed installation	80/80	Stainless steel	1.4301	304	96490862
	AMG.22.45.XXX.(E)				1.4401	316	96490863
	AMG.30.47.XXX.(E)			Galvanised steel	1.0037	-	96490864

Pull and safety chain, length 6 m

Pos.	Mixer	Description	Material	DIN W.-Nr.	AISI	Product number
15a	AMG.15.40.XXX.(E) AMG.22.45.XXX.(E) AMG.30.47.XXX.(E) AMG.40.52.XXX.(E)	Sealed installation	Stainless steel	1.4404	316L	96494529

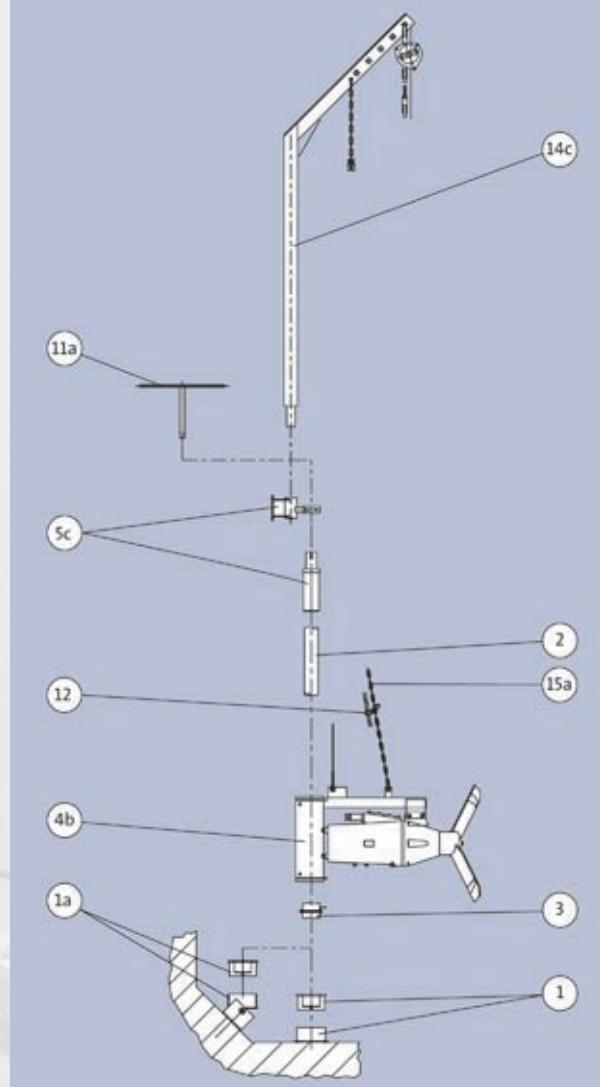
AMG.55.XX to AMG.185.XX

Open installation



Sealed installation

(Only possible for AMG.55 to AMG.110)



Bottom fixation

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
1	AMG.55.50.XXX.(E) AMG.75.58.XXX.(E) AMG.110.68.XXX.(E)	Horizontal	100/100	Stainless steel	1.4301	304	96490675
					1.4401	316	96490676
1a	AMG.150.73.XXX.(E) AMG.185.78.XXX.(E)	Horizontal/inclined (0-90°)	100/100	Stainless steel	1.4301	304	96490679
					1.4401	316	96490700

Reduction piece

Pos.	Mixer	Column size	Material	DIN W.-Nr.	AISI	Product number
1c	AMG.55.50.XXX.(E) AMG.75.58.XXX.(E) AMG.110.68.XXX.(E) AMG.150.73.XXX.(E) AMG.185.78.XXX.(E)	120/100	Stainless steel	1.4301 1.4401	304 316	96490702 96490706

AMG.55.XX to AMG.185.XX

Column profile tube

Pos.	Mixer	Description				
2	AMG.55.50.XXX.(E) AMG.75.58.XXX.(E) AMG.110.68.XXX.(E) AMG.150.73.XXX.(E) AMG.185.78.XXX.(E)	See column profile tube, page 24				

Depth blocker

Pos.	Mixer	Column size	Material	DIN W.-Nr.	AISI	Product number	
3	AMG.55.50.XXX.(E) AMG.75.58.XXX.(E) AMG.110.68.XXX.(E) AMG.150.73.XXX.(E) AMG.185.78.XXX.(E)	100/100	Stainless steel	1.4301	304	96490722	
				1.4401	316	96490723	
		120/120		1.4301	304	96490725	
				1.4401	316	96490726	

Motor bracket for AMG.55.XX to AMG.110.XX

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
4a	AMG.55.50.XXX.(E) AMG.75.58.XXX.(E) AMG.110.68.XXX.(E)	Open installation	100/100	Stainless steel	1.4301	304	96489469
					1.4401	316	96489480
		Sealed installation	120/120	Stainless steel	1.4301	304	96489481
					1.4401	316	96489482
					1.4301	304	96493202
4b			100/100	Stainless steel	1.4401	316	96493203

Motor bracket for AMG.150.XX to AMG.185.XX

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
4a	AMG.150.73.XXX.(E) AMG.185.78.XXX.(E)	Open installation	100/100	Stainless steel	1.4301	304	96490741
					1.4401	316	96490742
			120/120	Stainless steel	1.4301	304	96490745
					1.4401	316	96490746

Top fixation

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
5a	AMG.55.50.XXX.(E) AMG.75.58.XXX.(E) AMG.110.68.XXX.(E) AMG.150.73.XXX.(E) AMG.185.78.XXX.(E)	Open installation	100/100	Stainless steel	1.4301	304	96489494
					1.4401	316	96489495
				Galvanised steel	1.0037	-	96489496
		Sealed installation	120/120	Stainless steel	1.4301	304	96489389
					1.4401	316	96489520
				Galvanised steel	1.0037	-	96489521

Turning key

Pos.	Mixer	Description				Product number
11a	AMG.55.50.XXX.(E) AMG.75.58.XXX.(E) AMG.110.68.XXX.(E)	Key for turning column profile tube				96494545

Cable clamp

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
12	AMG.55.50.XXX.(E) AMG.75.58.XXX.(E) AMG.110.68.XXX.(E) AMG.150.73.XXX.(E) AMG.185.78.XXX.(E)	Cable clamp set	-	Stainless steel	1.4404	316L	96494354



AMG.55.XX to AMG.185.XX

Stand with winch for AMG.55.XX to AMG.110.XX, incl. 8 m wire

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
14a	AMG.55.50.XXX.(E) AMG.75.58.XXX.(E) AMG.110.68.XXX.(E)	Open installation	100/100	Stainless steel	1.4301	304	96490820
				1.4401	316	96490821	
				Galvanised steel	1.0037	-	96489563
			120/120	Stainless steel	1.4301	304	96490822
				1.4401	316	96490823	
				Galvanised steel	1.0037	-	96489564

Stand with winch for AMG.150.XX to AMG.185.XX, incl. 8 m wire

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
14a	AMG.150.73.XXX.(E) AMG.185.78.XXX.(E)	Open installation	100/100	Stainless steel	1.4301	304	96490824
				1.4401	316	96490825	
				Galvanised steel	1.0037	-	96490826
			120/120	Stainless steel	1.4301	304	96490829
				1.4401	316	96490860	
				Galvanised steel	1.0037	-	96490861

Crane boom with winch for AMG.55.XX to AMG.110.XX, incl. 8 m wire

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
14e	AMG.55.50.XXX.(E) AMG.75.58.XXX.(E) AMG.110.68.XXX.(E)	Open installation	100/100	Stainless steel	1.4301	304	96489559
				1.4401	316	96490778	
				Galvanised steel	1.0037	-	96490779
			120/120	Stainless steel	1.4301	304	96489560
				1.4401	316	96490780	
				Galvanised steel	1.0037	-	96490783

Crane boom with winch for AMG.150.XX to AMG.185.XX, incl. 8 m wire

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
14e	AMG.150.73.XXX.(E) AMG.185.78.XXX.(E)	Open installation	100/100	Stainless steel	1.4301	304	96490810
				1.4401	316	96490811	
				Galvanised steel	1.0037	-	96490812
			120/120	Stainless steel	1.4301	304	96490813
				1.4401	316	96490814	
				Galvanised steel	1.0037	-	96490815

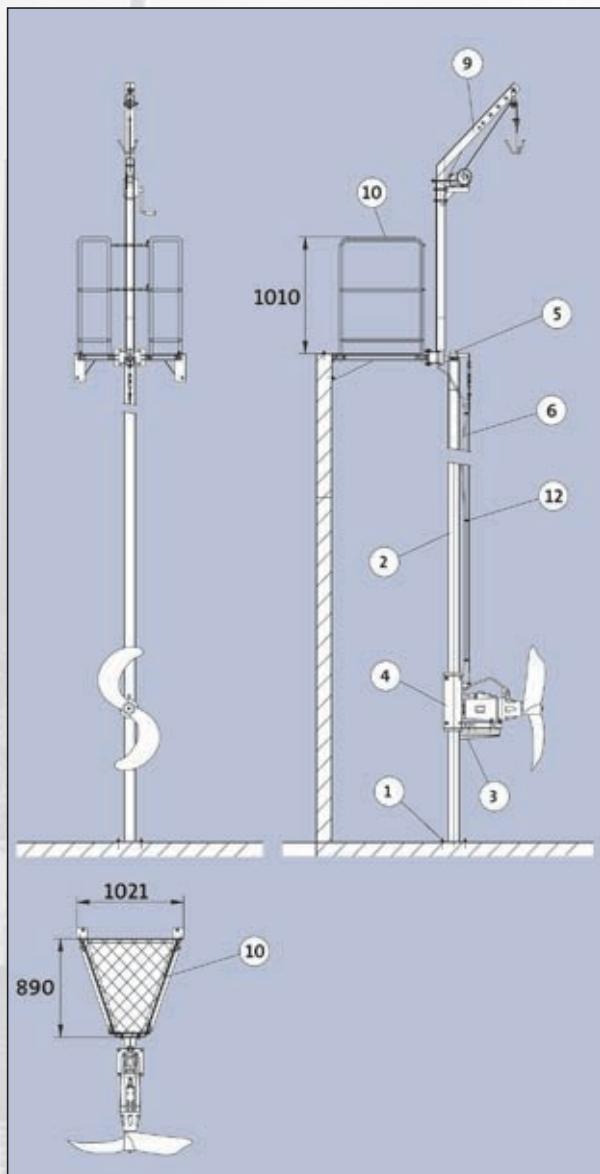
Crane with chain hoist for AMG.55.XX to AMG.110.XX, incl. chain

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
14c	AMG.55.50.XXX.(E) AMG.75.58.XXX.(E) AMG.110.68.XXX.(E)	Sealed installation	-	Aluminium	-	-	96489565

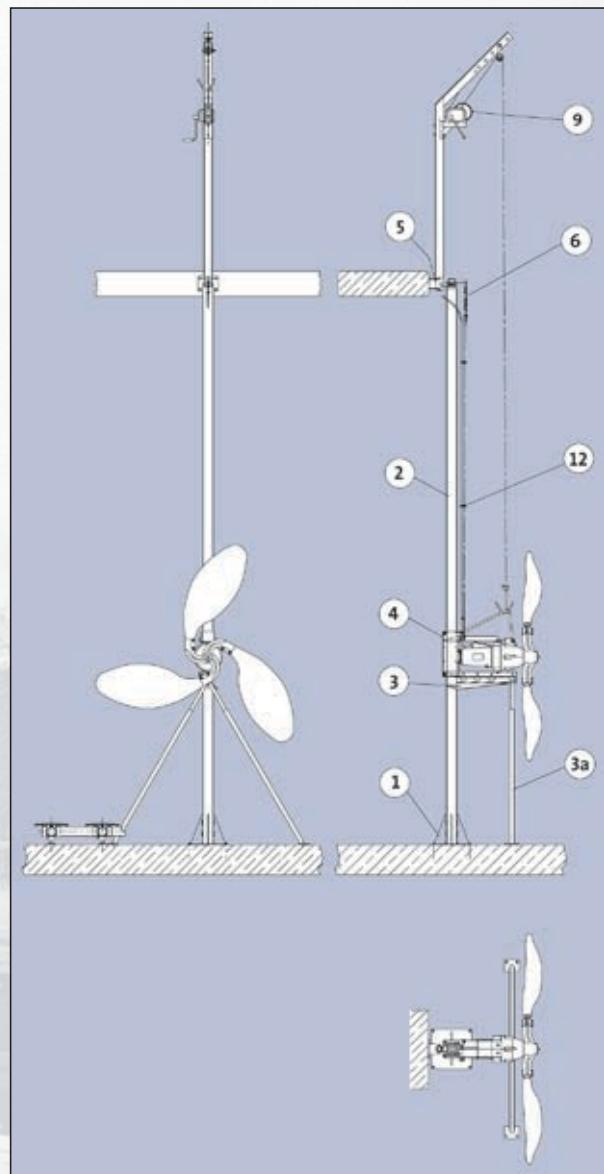
Pull and safety chain, length 6 m

Pos.	Mixer	Description	Column size	Material	DIN W.-Nr.	AISI	Product number
15a	AMG.55.50.XXX.(E) AMG.75.58.XXX.(E) AMG.110.68.XXX.(E)	Sealed installation	-	Stainless steel	1.4404	316L	96494529

AFG flowmaker installation



AFG.xx.130.xx



AFG.xx.180.xx and AFG.xx.230.xx

Bottom plate, fixed

Pos.	Flowmaker	Column size	Material	DIN W.-Nr.	AISI	Product number
1	AFG.XX.130.XX.(E)	100/100	Stainless steel	1.4301	304	96489415
	AFG.XX.180.XX.(E)			1.4401	316	96489416
	AFG.XX.230.XX.(E)			1.4301	304	96489411
				1.4401	316	96489414

Column profile

Pos.	Flowmaker	Description
2	All AFG	See column profile tube, page 24

Depth blocker

Pos.	Flowmaker	Column size	Material	DIN W.-Nr.	AISI	Product number
3	AFG.XX.130.XX.(E)	100/100	Stainless steel	1.4301	304	96489449
	AFG.XX.180.XX.(E)			1.4401	316	96489460
	AFG.XX.230.XX.(E)			1.4301	304	96489461
				1.4401	316	96489462

Support for depth blocker (to be used at risk of vibration)

Pos.	Flowmaker	Column size	Material	DIN W.-Nr.	AISI	Product number
3a	AFG.XX.130.XX.(E)	100/100	Stainless steel	1.4301	304	96115262
	AFG.XX.180.XX.(E)			1.4401	316	96115263
	AFG.XX.230.XX.(E)			1.4301	304	96115264
				1.4401	316	96115265

Motor bracket

Pos.	Flowmaker	Column size	Material	DIN W.-Nr.	AISI	Product number
4	AFG.XX.130.XX.(E)	100/100	Stainless steel	1.4301	304	96490749
	AFG.XX.180.XX.(E)			1.4401	316	96490750
	AFG.XX.230.XX.(E)			1.4301	304	96490752
				1.4401	316	96490753

Top fixation

Pos.	Flowmaker	Column size	Material	DIN W.-Nr.	AISI	Product number
5	All AFG	100/100	Stainless steel	1.4301	304	96489526
				1.4401	316	96489527

Relief wire, length 4 m incl. tension adjuster

Pos.	Flowmaker	Column size	Material	DIN W.-Nr.	AISI	Product number
6	All AFG	-	Stainless steel	1.4404	316L	96494548

Crane with winch, incl. 8 m wire

Pos.	Flowmaker	Column size	Material	DIN W.-Nr.	AISI	Product number
9	All AFG	-	Aluminium	-	-	96489566

Platform

Pos.	Flowmaker	Column size	Material	DIN W.-Nr.	AISI	Product number
10	AFG.XX.130.XX.(E)	-	Galvanised steel	1.0037	-	96490867

Cable clamp

Pos.	Flowmaker	Column size	Material	DIN W.-Nr.	AISI	Product number
12	All AFG	-	Stainless steel	1.4404	316L	96494352

AMD, AMG, AFG

Maximum permissible length of column profile tube

Product type	Maximum permissible length of column profile tube					
	60 x 60 x 3 mm	80 x 80 x 3 mm	100 x 100 x 3 mm	100 x 100 x 4 mm	100 x 100 x 5 mm	120 x 120 x 5 mm
AMD.07.18.1410	> 10 m					
AMD.15.45B.XXX.(E)	> 10 m					
AMD.25.45B.XXX.(E)	8.0 m		> 10 m (*			
AMD.35.45B.XXX.(E)	6.0 m		> 10 m (*			
AMD.45.45B.XXX.(E)	5.5 m		> 10 m (*			
AMD.20.45.XXX.(E)	10 m		> 10 m (*			
AMD.30.45.XXX.(E)	8.0 m		> 10 m (*			
AMD.40.45.XXX.(E)	6.0 m		> 10 m (*			
AMG.15.40.XXX.(E)		> 10 m				
AMG.22.45.XXX.(E)		> 10 m				
AMG.30.47.XXX.(E)		> 10 m				
AMG.40.52.XXX.(E)		> 10 m				
AMG.55.50.XXX.(E)		> 10 m				
AMG.75.58.XXX.(E)			10 m	> 10 m		
AMG.110.68.XXX.(E)			7.0 m	9 m	> 10 m	
AMG.150.73.XXX.(E)			5.0 m	6.5 m	7.5 m	10 m
AMG.185.78.XXX.(E)			4.0 m	5.0 m	6.0 m	7.5 m
AFG.15.130.XX.(E)				7 m (**		
AFG.22.130.XX.(E)				7 m (**		
AFG.30.130.XX. (E)				7 m (**		
AFG.40.130.XX. (E)				7 m (**		
AFG.13.180.XX.(E)				7 m (**		
AFG.18.180.XX.(E)				7 m (**		
AFG.24.180.XX.(E)				7 m (**		
AFG.37.180.XX.(E)				7 m (**		
AFG.15.230.XX.(E)				7 m (**		
AFG.22.230.XX.(E)				7 m (**		
AFG.30.230.XX.(E)				7 m (**		
AFG.40.230.XX.(E)				7 m (**		

(* Requires special motor bracket, please contact Grundfos)

(** For larger tank depths, please contact Grundfos)

Column profile tube

Material specification and product numbers of column profile tube. The numbers include 1 m column tube. When ordering, please state desired length.

Column size	Material	DIN W.-Nr.	AISI	Product number
60/60/3	Stainless steel	1.4301	304	96489420
		1.4401	316	96489421
80/80/3	Stainless steel	1.4301	304	96489426
		1.4401	316	96489427
100/100/3	Stainless steel	1.4301	304	96489429
		1.4401	316	96489440
100/100/4	Stainless steel	1.4301	304	96489441
		1.4401	316	96489442
100/100/5	Stainless steel	1.4301	304	96489443
		1.4401	316	96489444
120/120/5 *	Stainless steel	1.4301	304	96489445
		1.4401	316	96489446

* Use of column profile tube 120 x 120 mm for AMG requires reduction piece, 120 to 100 mm, for bottom fixation, see page 18.



Miscellaneous

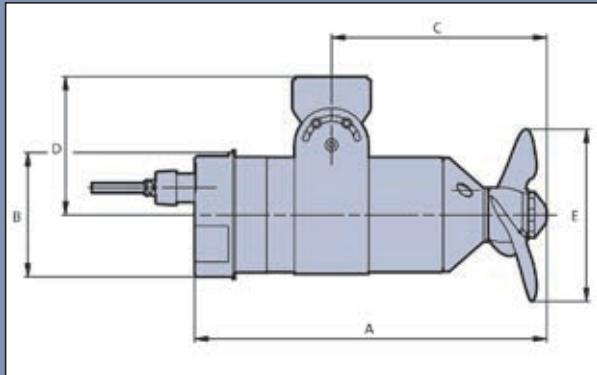
Description	Material	DIN W.-Nr.	AISI	Product number
Relay for leakage sensor	Type ALR-20/A	-	-	96489569
Relay for leakage sensor Ex version	Type ALR-20/A-Ex	-	-	96257400
Power cable ¹⁾	A07RN-F 12G1.5	-	-	96489580
Power cable ¹⁾	A07RN-F 12G2.5	-	-	96489581
Power cable ¹⁾	A07RN-F 12G4	-	-	96494351
Pull and safety chain for AMD and AMG ¹⁾	Stainless steel	1.4404	316L	96489583
Wire cable, Ø4 mm for AMD ¹⁾	Stainless steel	1.4404	316L	96490921
Wire cable, Ø6 mm for AMG and AFG ¹⁾	Stainless steel	1.4404	316L	96489590

¹⁾ The numbers include 1 m cable/wire. When ordering, please state the desired length.

Note: Mixers and flowmakers are delivered with 8 m power cable as standard.

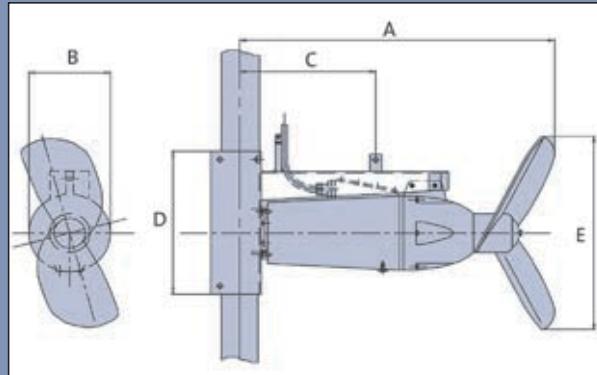
Dimensions

Mixer types AMD.07.18.1410



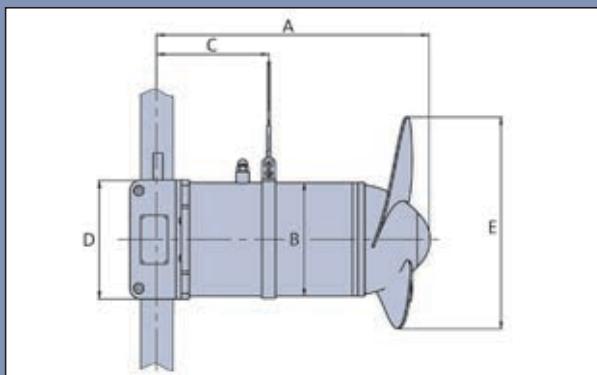
Type	Dimensions [mm]					Weight 1)
	A	B	C	D	E	
AMD.07.18.1410	332	117	203	130	180	11.5

Mixer types AMG



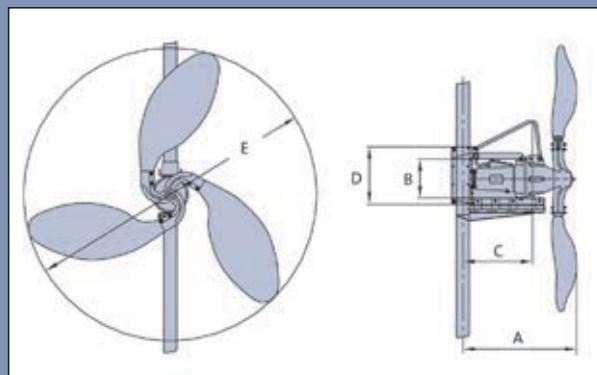
Type	Dimensions [mm]					Weight 1)
	A	B	C	D	E	
AMG.15.40.XXX.(E)	720	200	305	400	417	76
AMG.22.45.XXX.(E)	735	200	305	400	452	76
AMG.30.47.XXX.(E)	750	200	305	400	480	83
AMG.40.52.XXX.(E)	760	200	305	400	525	86
AMG.55.50.XXX.(E)	980	270	455	500	505	167
AMG.75.58.XXX.(E)	990	270	455	500	580	171
AMG.110.68.XXX.(E)	1010	270	455	500	680	182
AMG.150.73.XXX.(E)	1160	315	455	630	730	278
AMG.185.78.XXX.(E)	1180	315	455	630	780	278

Mixer types AMD.XX.45.XXX



Type	Dimensions [mm]					Weight 1)
	A	B	C	D	E	
AMD.15.45B.XXX.(E)	525	210	180	210	450	50
AMD.25.45B.XXX.(E)	525	210	180	210	450	50
AMD.35.45B.XXX.(E)	560	210	200	210	450	59
AMD.45.45B.XXX.(E)	560	210	200	210	450	59
AMD.20.45.XXX.(E)	525	210	180	210	450	50
AMD.30.45.XXX.(E)	560	210	200	210	450	59
AMD.40.45.XXX.(E)	560	210	200	210	450	59

Flowmakers type AFG



Type	Dimensions [mm]					Weight 1)
	A	B	C	D	E	
AFG.15.130.XX.(E)	795	200	353	500	1300	119
AFG.22.130.XX.(E)	795	200	353	500	1300	123
AFG.30.130.XX.(E)	795	200	353	500	1300	140
AFG.40.130.XX.(E)	795	200	353	500	1300	154
AFG.13.180.XX.(E)	1100	302	540	450	1800	190
AFG.18.180.XX.(E)	1100	302	540	450	1800	190
AFG.24.180.XX.(E)	1100	302	540	450	1800	198
AFG.37.180.XX.(E)	1100	302	540	450	1800	198
AFG.15.230.XX.(E)	1100	302	540	450	2300	185
AFG.22.230.XX.(E)	1100	302	540	450	2300	197
AFG.30.230.XX.(E)	1100	302	540	450	2300	200
AFG.40.230.XX.(E)	1100	302	540	450	2300	220

1) Note: All weights include motor bracket.

The Grundfos wastewater range

Heavy-duty submersible sewage pumps 5 – 29 kW

Brochure covers the Grundfos range of submersible channel-impeller pumps from 5 kW up to 21 kW and Super-Vortex pumps up to 29 kW. All designed for handling unscreened raw sewage. Available in 50 Hz and 60 Hz versions.



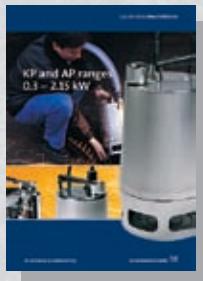
Heavy-duty submersible sewage pumps 15 – 155 kW

Brochure covers the Grundfos range of sewage pumps from 15 kW up to 155 kW for handling of raw sewage in heavy-duty applications. Available in 50 Hz and 60 Hz versions.



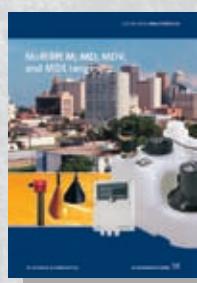
Super-heavy-duty submersible sewage and raw water pumps

Brochure covers the Grundfos range of super-heavy-duty channel pumps, axial flow pumps, and propeller pumps from 7.5 kW up to 520 kW.



The KP/AP stainless steel range

Brochure covers a wide range of high quality stainless steel pumps for a variety of domestic and commercial applications.



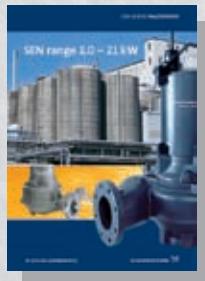
Lifting stations

Brochure covers Grundfos lifting stations for individual as well as multi-user applications.



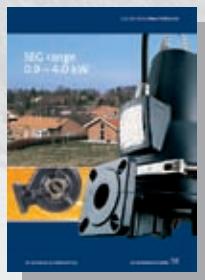
Stainless steel heavy-duty submersible pumps

Brochure covers the Grundfos range of heavy-duty stainless steel pumps (SEN) for aggressive and corrosive environments.



LC/LCD level controls

Brochure covers the Grundfos range of controls for the wastewater pumping systems.



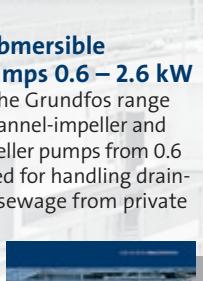
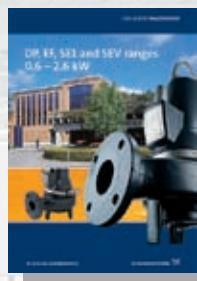
Submersible sewage grinder pumps

Brochure covers the Grundfos range of sewage grinder pumps (SEG) for pumping of wastewater with toilet discharge.



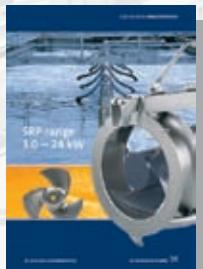
Heavy-duty submersible sewage pumps 0.6 – 2.6 kW

Brochure covers the Grundfos range of prefabricated pumping stations for collecting and removing drainwater, surface water, domestic and industrial wastewater and sewage.



Submersible recirculation pumps

Brochure covers the Grundfos range of SRP submersible recirculation pumps for wastewater treatment plants and flood control.



Heavy-duty submersible sewage pumps 1.1 – 11 kW

This brochure describes the innovative SEV/SE1 pump lines. Fitted with Super-Vortex or single-channel impellers, these pumps can meet approximately 80% of all wastewater pumping needs.

Business with an attitude

Knowledge The sharing of knowledge, experience and expertise across our global network will always lead our business forward.

Innovation Combining the best technology with fresh ways of thinking, we will continue to develop even better pumps, systems, services and standards.

Solution With a complete product range, capable of providing every conceivable water solution, we are the most complete player on the market.