

SPCO®
makes life easier



Sewage Pumps
50Hz

Contents



Page 06 NWE
Sewage pump -
2-pole
0.45kW-1.5kW



Page 9 NW
Sewage pump -
2-pole
0.45kW-5.5kW



Page 14 NWS
Stainless steel
sewage pump -
2-pole
0.37kW-5.5kW



Page 17 MAU
Sewage pump -
2-pole
1.5-11kW / vortex
from p.21 80mm
free passage



Page 25 MAU
Sewage pump -
4-pole
Vortex / DN80
1.5kW-7.5kW



Page 29 MAU
Sewage pump -
4-pole
Vortex / DN100
3.7kW-7.5kW



Page 33 MAE
Sewage pump -
4-pole
Single-channel /
DN80
1.5kW-7.5kW



Page 37 MAE
Sewage pump -
4-pole
Single-channel /
DN100
1.5kW-7.5kW



Page 41 MAE
Sewage pump -
4-pole
Single-channel /
DN150
5.5kW-7.5kW



Page 45 MAE
Sewage pump -
2-pole
Single-channel /
female thread type
0.75kW-1.5kW



Page 48-59 MAE
Sewage pump -
2-pole
Single-channel
0.75kW-11kW



Page 60 MAC
Grinder - 2-pole
0.75kW-7.5kW



Page 64 MAC
Grinder - 4-pole
1.5kW-7.5kW



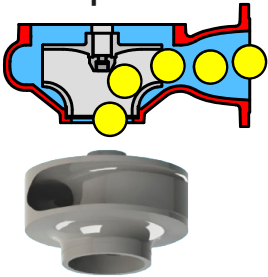
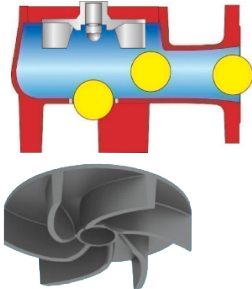
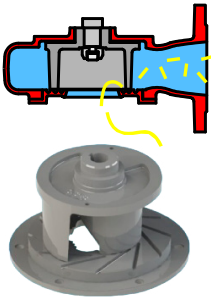
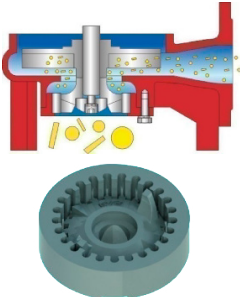
Page 68 GPK
Grinder - 2-pole
1.1kW-5.5kW



Page 71 GPK
Grinder - 2-pole
11kW

Product Introduction / Features and Applications

The submersible sewage pumps of the MAE, MAU, MAC and GPK series are based on a proven design with optimized hydraulics, robust construction, reliable sealing and efficient motor cooling. They are designed for pumping media containing solids and offer high efficiency and reliable operation. Depending on the series, different installation types are available.

MAE Series Single-channel impeller 	The MAE series is equipped with a single-channel impeller and is designed for sewage applications. The impeller has a large free passage from inlet to outlet. This reduces the risk of clogging caused by solids in the pumped medium.	1. For pumping sewage from industry, shopping centres, hospitals, hotels, etc. 2. For pumping domestic sewage and rainwater from residential areas, car parks and municipal facilities. 3. For sewage pumping in wastewater treatment plants and in agriculture.
MAU Series Vortex 	The MAU series is a versatile pump with a vortex impeller. The pumped medium is moved by the flow inside the pump casing. This makes the pump especially suitable for media containing solids and fibres and less prone to clogging.	4. For pumping muddy water and alkaline liquids on construction sites, in factories and in mining. 5. The MAU series is especially suitable for pumping sewage with larger amounts of solids on construction sites or in mining.
MAC Series Grinder 	The MAC series operates with a cutting mechanism. The interaction between the cutting element and the specially shaped impeller or suction cover cuts fibrous components, so that sewage can be pumped safely and with a reduced risk of clogging.	6. The MAC series is especially suitable for pumping sewage with soft, easily cut fibres, for example from slaughterhouses or biogas plants.
GPK Series Grinder 	The GPK series is equipped with a grinding mechanism in the suction area. Solids are cut into smaller pieces before pumping and are then conveyed by the vortex impeller. This reduces the risk of clogging in the discharge pipe.	1. For pumping sewage under higher pressure in small pressurised drainage systems. 2. For pumping domestic and building sewage. 3. For pumping sewage containing solids that need to be cut.

Construction Features

1. Pump Casing and Impeller

The pump casing and impeller are precisely matched to each other and have been improved through repeated design optimization. The hydraulics are powerful and the performance curve is flat, reducing the risk of overload. The impeller is precisely balanced to reduce vibrations to a minimum and to extend the service life of the bearings and mechanical seal as much as possible.

2. Motor

The motor with protection class IP68 is suitable for operation under water. This ensures effective cooling. Compared with conventional motors, it is more robust and has a longer service life.

3. Mechanical Seal

The motor is equipped with a high-quality double mechanical seal or with two separate mechanical seals. This ensures reliable sealing. Under normal operating conditions, the trouble-free operating time is more than 8000 hours.

4. Bearing

High-quality deep groove ball bearings or angular contact ball bearings are used. They provide reliable support for the motor and pump and provide high load capacity for radial and axial forces. This ensures smooth pump operation and extends the service life of the complete unit.

5. Cable and Sealing

1. The cable used is flexible, sewage-resistant, mechanically strong and oil-resistant. The cable cross-section is designed for an ambient temperature of 40°C, a standard temperature of 25°C and continuous operation. This ensures safe and long-lasting operation.
2. The rubber cable sleeve has high impact resistance and prevents the medium from entering the motor through the cable entry.
3. An additional seal is provided between the cable sheath and the core. Even if the rubber sheath is damaged, the medium can still be prevented from entering the motor through the cable.

6. Motor Housing

The top cover, upper bearing seat, bearing seat, motor housing and other parts together form the pump housing. All connection points are reliably sealed with static seals. Each unit is subjected to a strict hydraulic test to ensure tightness.

7. Protection Devices

1. Built-in motor protection: Pumps up to 7.5 kW are equipped with an integrated protection device which can prevent damage caused by overload or phase failure.

2. Oil chamber leakage sensor (optional): For 4-pole pumps from 5.5 kW, 2-pole pumps from 7.5 kW and pumps with oil chamber leakage probe, a probe can be installed in the oil chamber housing to monitor the first mechanical seal. If medium enters the oil chamber and reaches the probe, a signal is sent to stop the motor.

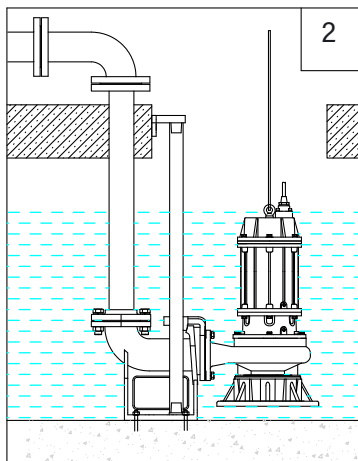
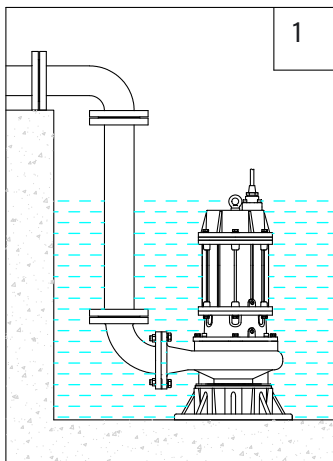
3. Overheating protection (optional): Overheating protection can be built into the motor winding. If the winding reaches a critical temperature or heats up excessively for other reasons, the protection sends a signal to stop the motor.

Installation Types

1. Fixed pipe installation (as shown)

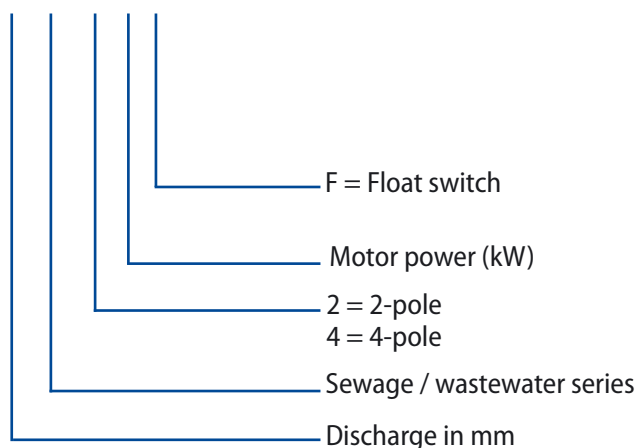
2. Guide rail coupling installation (as shown)

(Note: A complete set with guide rail coupling, upper guide holder, coupling adapter and flange $\leq 4"$ is available to fit the pump.)



Type Code

50 MAE 2 1.5 F



NWE • Vortex Impeller • 0.45 kW ~ 1.5 kW

50Hz (synchronous speed: 3000 rpm) 2-pole

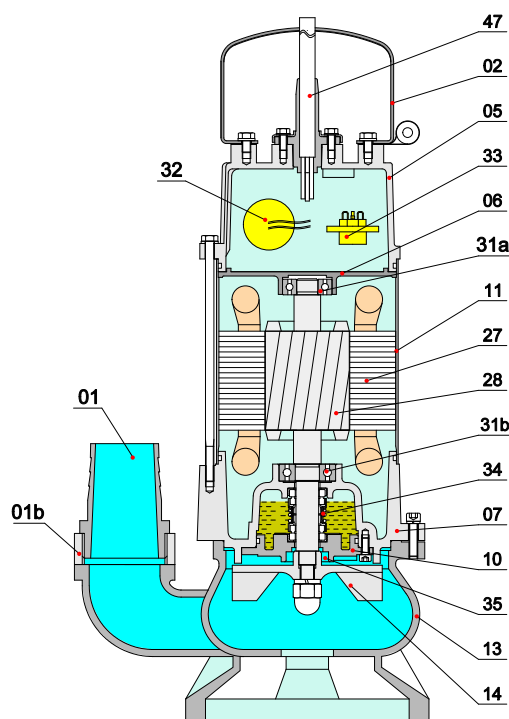
Technical Data

- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40 °C
- pH value: 6 to 10
- Density of pumped medium: up to 1.3 g/cm³
- Power supply:
Three-phase 400V ± 10%, 50Hz
Single-phase 230V ± 10%, 50Hz
- Motor protection: integrated
- Flow rate: up to 28 m³/h
- Head: up to 18 m
- Maximum submersion depth: 10 m
- Cable length: 10 m

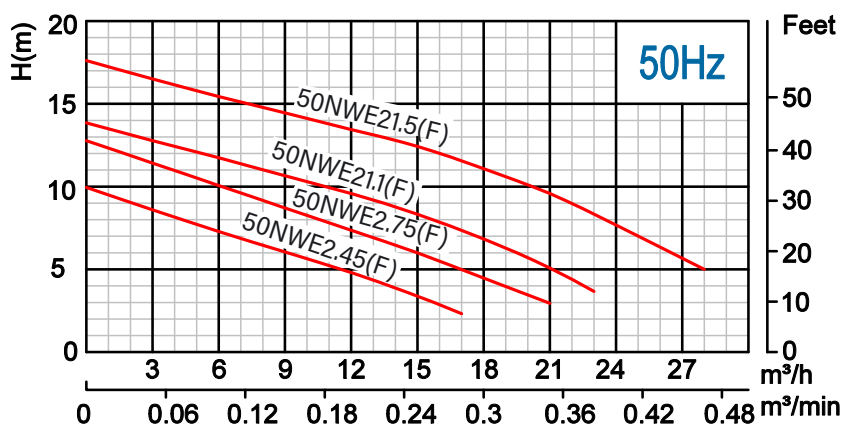


Parts List

Pos. No.	Component	Material
01	Discharge	ABS
01b	Discharge	Cast iron
02	Handle	Stainless steel
05	Top cover	Cast iron
06	Upper bearing housing	Cast iron
07	Bearing housing	Cast iron
10	Seal holder	Cast iron
11	Motor housing	Stainless steel
13	Pump casing	Cast iron
14	Impeller	Cast iron
27	Stator	
28	Rotor	Shaft: AISI304SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
32	Capacitor	(single-phase only)
33	Motor protection	
34	Mechanical seal	SiC/Ceramic / Carbon/Ceramic
35	Oil seal	
47	Cable	H07RN-F

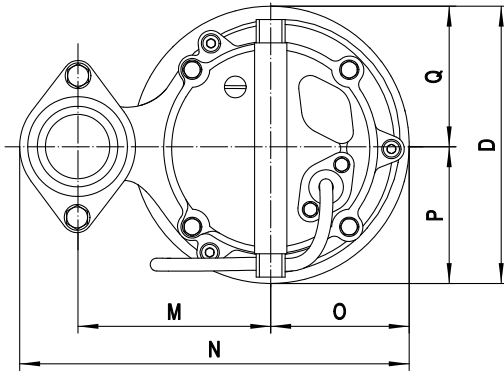


Performance Curve

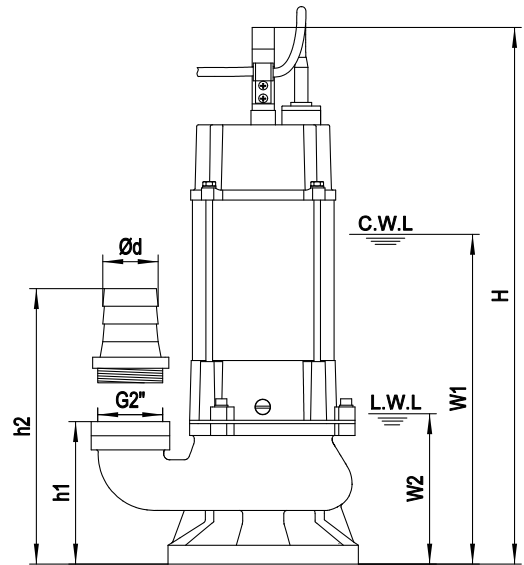


Model (50Hz)	Voltage and rated current		Discharge		Motor power		Optimal flow rate and head		Max. flow rate and head		Free passage	Cable H07RN-F 10 m
	V	A	mm	inch	kW	HP	m³/h	m	m³/h	m	mm	mm²
50NWE2.45	400	1.3	50	2"	0.45	0.6	10	6	17	10	35	1.0
50NWE2.45F	230	3.5	50	2"	0.45	0.6	10	6	17	10	35	1.0
50NWE2.75	400	2.0	50	2"	0.75	1	10	8	21	13	35	1.0
50NWE2.75F	230	5.2	50	2"	0.75	1	10	8	21	13	35	1.0
50NWE21.1	400	2.8	50	2"	1.1	1.5	15	8	23	14	35	1.0
50NWE21.1F	230	7.2	50	2"	1.1	1.5	15	8	23	14	35	1.0
50NWE21.5	400	3.2	50	2"	1.5	2	15	12	28	18	35	1.0
50NWE21.5F	230	10	50	2"	1.5	2	15	12	28	18	35	1.5

Dimensions with discharge elbow



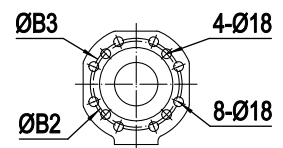
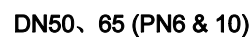
C.W.L. = Continuous water level
L.W.L. = Lowest water level



Model	Ød	h1	h2	W1	W2	H	O	P	Q	D	M	N	N.W kg	G.W kg	Packaging mm
50NWE2.45	50	137	204	280	130	464	86	86	86	172	120	242	17.5	19	495×260×220
50NWE2.45F	50	137	204	280	130	464	86	86	86	172	120	242	17.5	19	495×260×220
50NWE2.75	50	137	204	300	130	474	86	86	86	172	120	242	19	20.5	505×260×220
50NWE2.75F	50	137	204	300	130	484	86	86	86	172	120	242	19.5	21	515×260×220
50NWE21.1	50	139	206	305	125	488	91	91	91	182	140	267	20	21.5	520×285×225
50NWE21.1F	50	139	206	320	125	503	91	91	91	182	140	267	21	22.5	535×285×225
50NWE21.5	50	139	206	305	125	503	91	91	91	182	140	267	22	23.5	535×285×225
50NWE21.5F	50	139	206	320	125	523	91	91	91	182	140	267	23.5	25	555×285×225

50Hz (synchronous speed: 3000 rpm) 2-pole

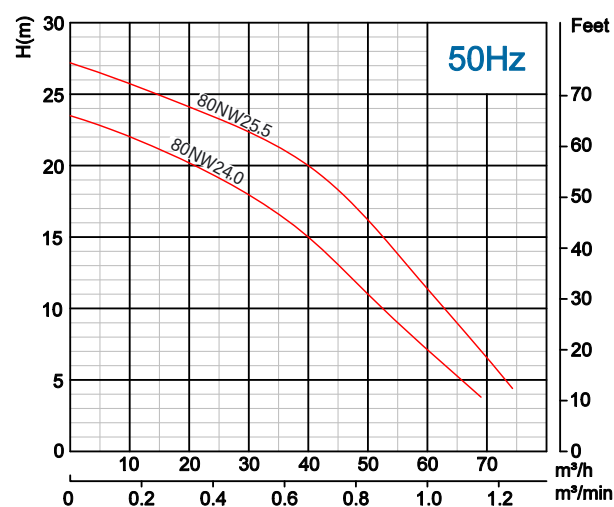
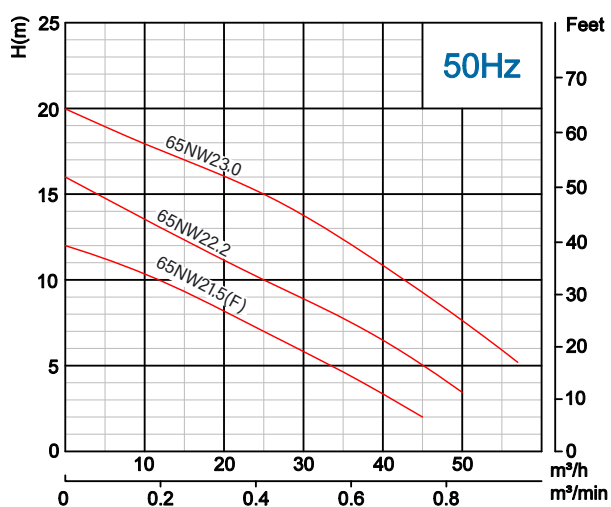
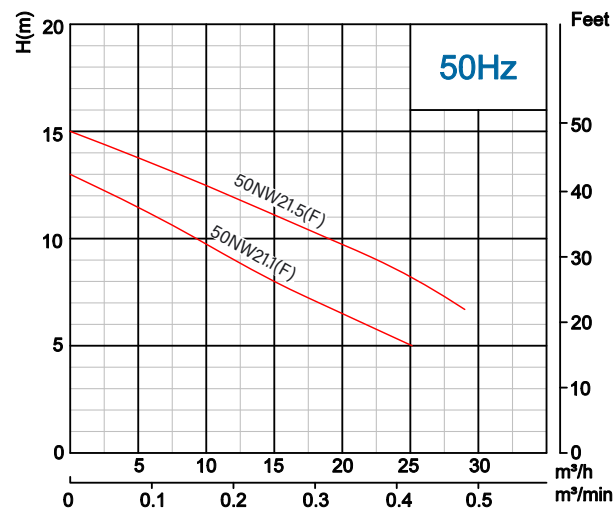
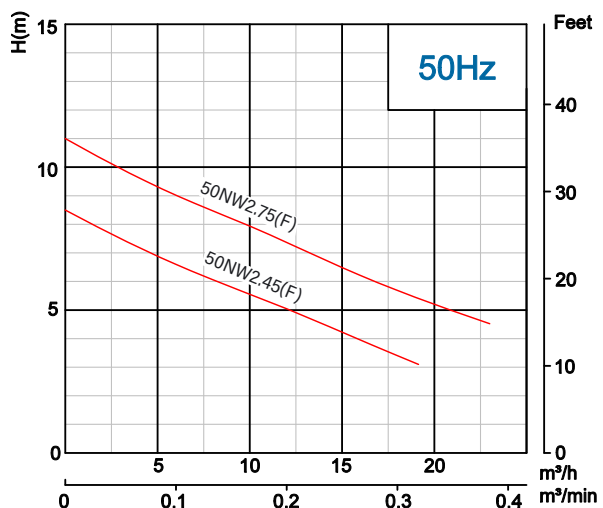
- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40 °C
- pH value: 6 to 10
- Density of pumped medium: up to 1.3 g/cm³
- Power supply:
Three-phase 400V ± 10%, 50Hz
Single-phase 230V ± 10%, 50Hz
- Motor protection: integrated
- Flow rate: up to 74 m³/h
- Head: up to 27 m
- Maximum submersion depth: 10 m
- Cable length: 10 m



Pos. No.	Component	Material
01	Discharge	Cast iron
01a	Discharge	Cast iron
02	Handle	
05	Top cover	Cast iron
07	Bearing housing	Cast iron
10	Seal holder	Cast iron
11	Motor housing	Stainless steel
13	Pump casing	Cast iron
14	Impeller	Cast iron
17	Coupling adapter	Cast iron
22a	Coupling seat	Cast iron
22b	Upper guide holder	Cast iron
27	Stator	
28	Rotor	Shaft: AISI304SS
30	Flange	Cast iron
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
33	Motor protection	
34	Mechanical seal	SiC/SiC / Carbon/Ceramic
35	Oil seal	
47	Cable	H07RN-F

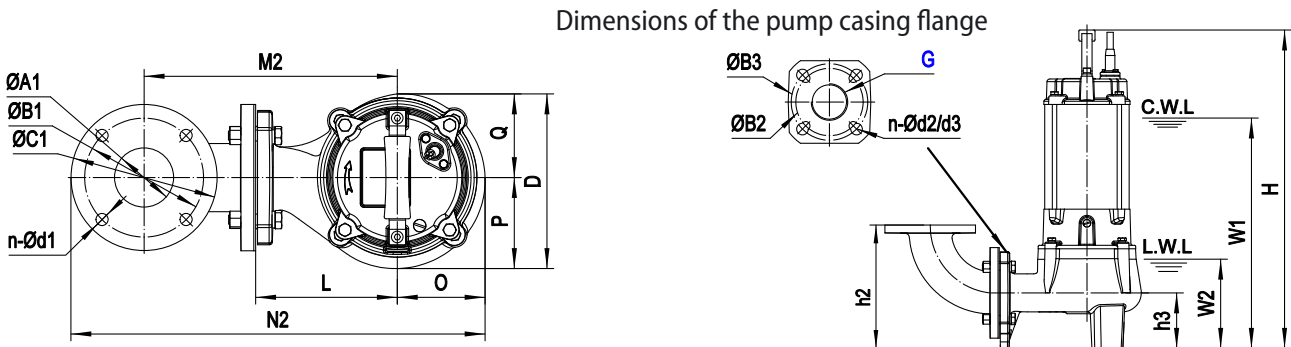


Performance Curve



Model (50Hz)	Voltage and rated current		Discharge		Motor power		Optimal flow rate and head		Max. flow rate and head		Free passage	Cable H07RN-F 10 m
	V	A	mm	inch	kW	HP	m³/h	m	m³/h	m	mm	mm²
50NW2.45	400	1.3	50	2"	0.45	0.6	12	5	19	8.5	50	1
50NW2.45F	230	3.5	50	2"	0.45	0.6	12	5	19	8.5	50	1
50NW2.75	400	2	50	2"	0.75	1	15	6	23	11	50	1
50NW2.75F	230	5.2	50	2"	0.75	1	15	6	23	11	50	1
50NW21.1	400	2.8	50	2"	1.1	1.5	15	8	25	13	50	1
50NW21.1F	230	7.2	50	2"	1.1	1.5	15	8	25	13	50	1
50NW21.5	400	3.2	50	2"	1.5	2	18	10	29	15	50	1
50NW21.5F	230	10	50	2"	1.5	2	18	10	29	15	50	1.5
65NW21.5	400	3.2	65	2½"	1.5	2	25	7	45	12	56	1
65NW21.5F	230	10	65	2½"	1.5	2	25	7	45	12	56	1.5
65NW22.2	400	5	65	2½"	2.2	3	25	10	50	16	56	1
65NW23.0	400	6.5	65	2½"	3	4	25	15	57	20	56	1.5
80NW24.0	400	8.9	80	3"	4	5.5	40	15	69	23.5	56	1.5
80NW25.5	400	11.7	80	3"	5.5	7.5	40	20	74	27	56	2.5

Dimensions with discharge elbow



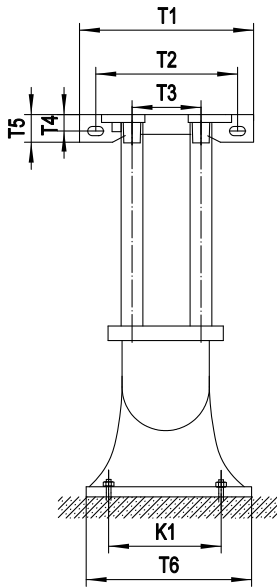
C.W.L.: Continuous water level

L.W.L.: Lowest water level

Model	G	Ø A1	Ø B1	Ø B2	Ø B3	Ø C1	n-Ød1	n-Ød2	n-Ød3	h2	h3	W1	W2	H	O	P	Q	L	D	M2	N2
50NW2.45	G2"	50	110	110	125	140	4-Ø14	4-Ø14	4-Ø18	188	88	310	150	449	85	79	72	138	151	240	395
50NW2.45F	G2"	50	110	110	125	140	4-Ø14	4-Ø14	4-Ø18	188	88	330	150	487	85	79	72	138	151	240	395
50NW2.75	G2"	50	110	110	125	140	4-Ø14	4-Ø14	4-Ø18	188	88	330	150	459	85	79	72	138	151	240	395
50NW2.75F	G2"	50	110	110	125	140	4-Ø14	4-Ø14	4-Ø18	188	88	330	150	507	85	79	72	138	151	240	395
50NW21.1	G2"	50	110	110	125	140	4-Ø14	4-Ø14	4-Ø18	188	88	350	150	474	81	84	77	138	161	240	391
50NW21.1F	G2"	50	110	110	125	140	4-Ø14	4-Ø14	4-Ø18	188	88	350	150	527	81	84	77	138	161	240	391
50NW21.5	G2"	50	110	110	125	140	4-Ø14	4-Ø14	4-Ø18	188	88	370	150	489	81	84	77	138	161	240	391
50NW21.5F	G2"	50	110	110	125	140	4-Ø14	4-Ø14	4-Ø18	188	88	370	150	547	81	84	77	138	161	240	391
65NW21.5	-	65	130	130	145	160	4-Ø14	4-Ø14	4-Ø18	218	98	395	170	543	96	100	91	155	191	277	453
65NW21.5F	-	65	130	130	145	160	4-Ø14	4-Ø14	4-Ø18	218	98	415	170	623	96	100	91	155	191	277	453
65NW22.2	-	65	130	130	145	160	4-Ø14	4-Ø14	4-Ø18	218	98	415	170	563	96	100	91	155	191	277	453
65NW23.0	-	65	130	130	145	160	4-Ø14	4-Ø14	4-Ø18	218	98	455	170	603	96	100	91	155	191	277	453
80NW24.0	-	80	150	150	160	190	4-Ø18	4-Ø18	8-Ø18	245	105	460	170	608	105	108	100	175	208	317	517
80NW25.5	-	80	150	150	160	190	4-Ø18	4-Ø18	8-Ø18	245	105	490	170	638	105	108	100	175	208	317	517

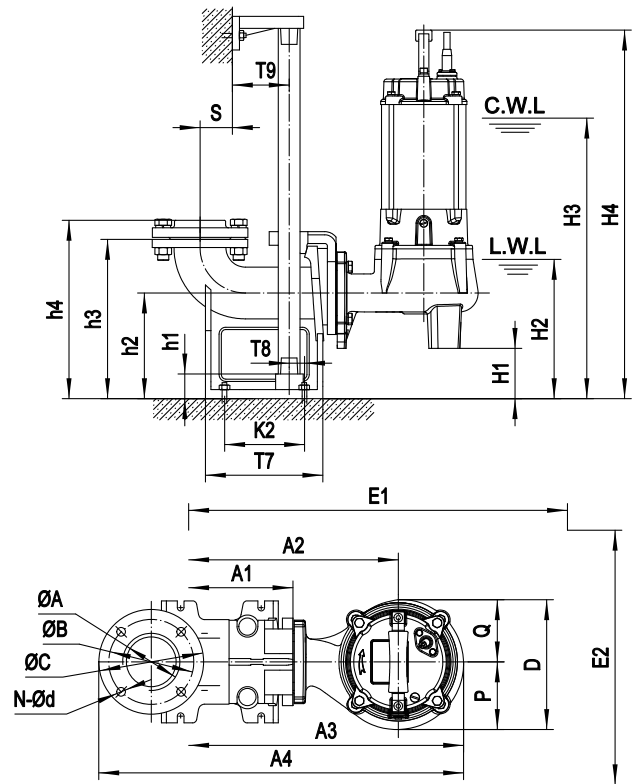
Model	N.W / kg	G.W / kg	Packaging mm
50NW2.45	21.5	23	485×265×280
50NW2.45F	21.5	23	525×265×280
50NW2.75	22	23.5	495×265×280
50NW2.75F	23	24.5	540×265×280
50NW21.1	23.5	25	510×265×290
50NW21.1F	24.5	26	565×265×290
50NW21.5	25.5	27	525×265×290
50NW21.5F	27	28.5	580×265×290
65NW21.5	33	38	610×230×305
65NW21.5F	38	43	690×230×305
65NW22.2	36	41	630×230×305
65NW23.0	40	45	670×230×305
80NW24.0	51	56	700×240×335
80NW25.5	56	62	730×240×335

Guide Rail Coupling Dimensions



C.W.L.: Continuous water level

L.W.L.: Lowest water level



Guide rail coupling	ØA	ØB	ØC	N-Ød	T1	T2	T3	T4	T5	T6	T7	T8	T9	K1	K2	S	h1	h2	h3	h4
TO 50-50(PN6)	Ø50 / G2"	110	140	4-Ø14	265	215	105	22	42	200	215	15	67	163	135	65	25	160	250	276
TO 65-65(PN6)	Ø65 / G2½"	130	160	4-Ø14	280	235	125	25	50	230	235	20	70	190	155	90	25	170	265	291
TO 80-80(PN10)	Ø80 / G3"	150	190	4-Ø18	315	265	145	27	50	255	230	35	78	215	155	79	25	185	305	335

Guide Rail Coupling Dimensions

Model	Guide rail coupling	H1	H2	H3	H4	A1	A2	A3	A4
50NW2.45	50-50 (PN6)	73	222	382	521	157	295	380	515
50NW2.45F	50-50 (PN6)	73	222	382	560	157	295	380	515
50NW2.75	50-50 (PN6)	73	222	402	531	157	295	380	515
50NW2.75F	50-50 (PN6)	73	222	402	560	157	295	380	515
50NW21.1	50-50 (PN6)	73	222	422	546	157	295	376	511
50NW21.1F	50-50 (PN6)	73	222	422	590	157	295	376	511
50NW21.5	50-50 (PN6)	73	222	442	581	157	295	376	511
50NW21.5F	50-50 (PN6)	73	222	442	619	157	295	376	511
65NW21.5	65-65 (PN6)	72	247	487	615	157	312	408	578
65NW21.5F	65-65 (PN6)	72	247	487	695	157	312	408	678
65NW22.2	65-65 (PN6)	72	247	527	635	157	312	408	578
65NW23.0	65-65 (PN6)	72	247	527	675	157	312	408	578
80NW24.0	80-80 (PN10)	80	255	540	688	183	358	463	637
80NW25.5	80-80 (PN10)	80	255	570	718	183	358	463	637

Model	P	Q	D	E1×E2	Pump weight		
					N.W / kg	G.W / kg	Packaging mm
50NW2.45	79	72	151	650×550	17.5	19	475×250×200
50NW2.45F	79	72	151	650×550	17.5	19	515×250×200
50NW2.75	79	72	151	650×550	18	19.5	485×250×200
50NW2.75F	79	72	151	650×550	19	20.5	530×250×200
50NW21.1	84	77	161	650×550	19.5	21	500×245×210
50NW21.1F	84	77	161	650×550	20.5	22	555×245×210
50NW21.5	84	77	161	650×550	21.5	23	515×245×210
50NW21.5F	84	77	161	650×550	23	24.5	570×245×210
65NW21.5	100	91	191	650×550	27	32	610×230×305
65NW21.5F	100	91	191	650×550	32	37	690×230×305
65NW22.2	100	91	191	650×550	30	35	630×230×305
65NW23.0	100	91	191	650×550	34	39	670×230×305
80NW24.0	108	100	208	650×550	42	47	700×240×325
80NW25.5	108	100	208	650×550	47	53	730×240×325

NWS • Vortex Impeller • 0.37 kW ~ 5.5 kW

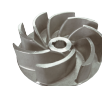
50Hz (synchronous speed: 3000 rpm) 2-pole

Technical Data

- Impeller type: Vortex impeller
- Motor type: dry type
- Insulation class: 0.37~0.75 kW: class B / 1.5~5.5 kW: class F
- Protection class: IP68
- Water temperature: 0~40 °C
- Power supply:
Single-phase 230V ± 10%, 50Hz
Three-phase 400V ± 10%, 50Hz
- Material of wetted parts: stainless steel AISI 316
- Seal: double mechanical seal
- Bearing: ball bearing
- Free passage: up to 45 mm
- Flow rate: up to 66.6 m³/h
- Head: up to 27 m
- Maximum submersion depth: 10 m
- Cable length: 10 m

Parts List

Pos. No.	Component	Material
1	Cable	H07RN-F
2	Handle	Nylon 6 (0.5~1 HP) AISI 316 (2~7.5 HP)
3	Motor cover	AISI 316
4	Bracket	EN-GJL-200
5	Motor housing + Stator	AISI 316
6	Shaft with rotor	AISI 316
7	Oil chamber	EN-GJL-200 (0.5~1 HP) AISI 316 (2~7.5 HP)
8	Mechanical seal	Upper: CA / CE (EKK Eagle Burgmann) Lower: SiC / SiC
9	Seal housing	AISI 316
10	Oil seal	Viton
11	Impeller	AISI 316
12	Pump casing	AISI 316
13	Motor protection	KLIXON
15-1	Upper bearing	NTN/TPI
15-2	Lower bearing	NTN/TPI



Vortex impeller
Stainless steel AISI 316



Mechanical seal
(EKK Eagle Burgmann)



Long-life bearing



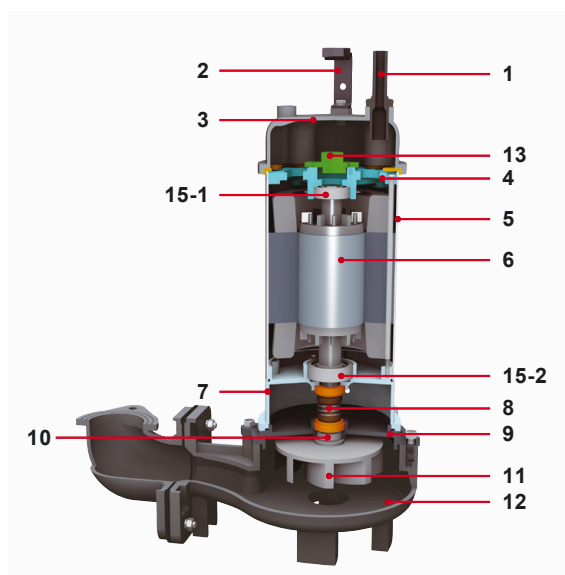
Gaskets, O-rings, lip seal
and cable gland made of
Viton SQS (0.5 HP~1 HP),
AISI 316



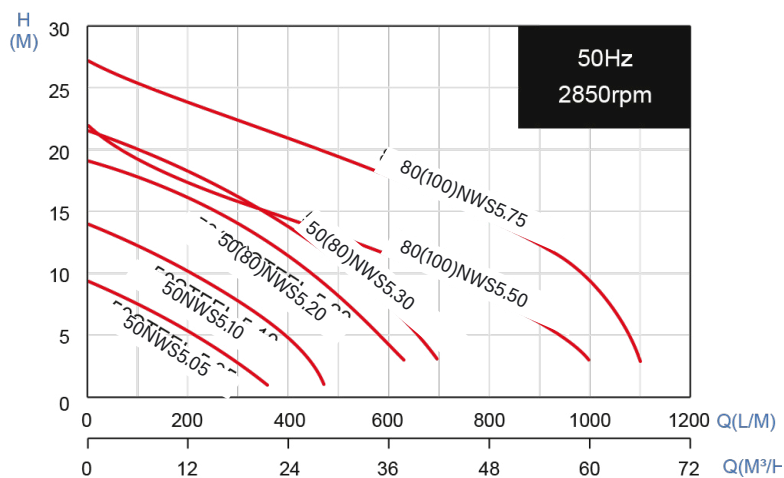
SQS (0.5HP~1HP)
AISI 316



SQM (2HP~7.5HP)
AISI 316

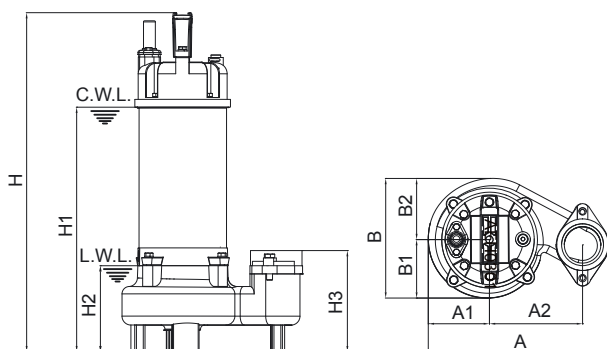


Performance Curve

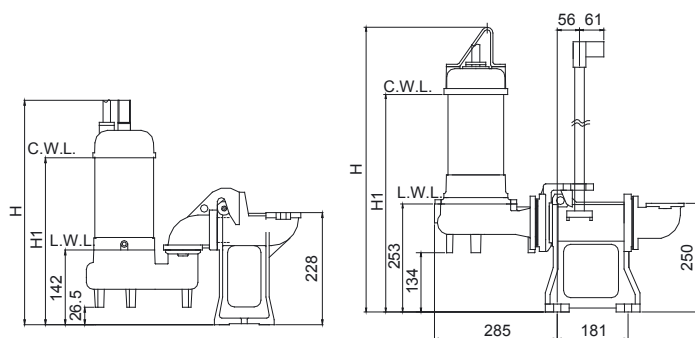


Model (50Hz)	Motor power		Discharge		Optimal flow rate and head		Max. flow rate and head		Free passage		Weight without cable		Full-load current		Version
	kW	HP	mm	Inch	m³/h	m	m³/h	m	mm	Model	1~ kg	3~ kg	230V	400V	
50NWS5.05	0.37	0.5	50	2"	12	5.4	21.6	9.5	35	SQS-50	13	12.4	3.5A	1.4A	Female thread type
50NWS5.10	0.75	1	50	2"	15	9	28.2	14	35	SQS-50	15.4	15.7	6A	2.5A	Female thread type
50NWS5.20	1.5	2	50(80)	2"(3")	22.5	12	37.8	19	45	SQM-80	31.2	29.7	10.5A	4.5A	Elbow type
50NWS5.30	2.2	3	50(80)	2"(3")	21.6	14.7	42	21.5	45	SQM-80	32.8	31.3	12.6A	5.7A	Elbow type
80NWS5.50	3.7	5	80(100)	3"(4")	30	13	60	22	45	SQM-100	-	48	-	7.2A	Elbow type
80NWS5.75	5.5	7.5	80(100)	3"(4")	35.7	18	66.6	27	45	SQM-100	-	53.8	-	10.8A	Elbow type

Dimensions with discharge elbow



Model	A	A1	A2	A3	B	B1	B2	H	H1	H2	H3
50NWS5.05	228	75	120	N/A	150	70	80	425	297	117	138
50NWS5.10	228	75	120	N/A	150	70	80	455	327	117	138
50NWS5.20	390	103	235	154	208	104	104	532	400	150	152
50NWS5.30	390	103	235	154	208	104	104	572	440	150	152
50NWS5.30 (400V)	390	103	235	154	208	104	104	552	420	150	152
80NWS5.50	466	100	274	177	210	95	115	633	468	160	225
80NWS5.75	466	100	274	177	210	95	115	673	508	160	225



C.W.L.: Continuous water level

L.W.L.: Lowest water level

Model	Motor power		Discharge		Dimensions (mm)	
	HP	kW	Inch	mm	H	H1
50NWS5.05	0.5	0.37	2"	50	445	322
50NWS5.10	1	0.75	2"	50	475	352
50NWS5.20	2	1.5	2"(3")	50(80)	660	534
50NWS5.30	3	2.2	2"(3")	50(80)	710	574
50NWS5.30 (400V)	3	2.2	2"(3")	50(80)	690	554
80NWS5.50	5	3.7	3"(4")	80(100)	769	604
80NWS5.75	7.5	5.5	3"(4")	80(100)	809	644

MAU • Vortex Impeller • 1.5 kW ~ 11 kW

50 mm Free passage

50Hz (synchronous speed: 3000 rpm) 2-pole

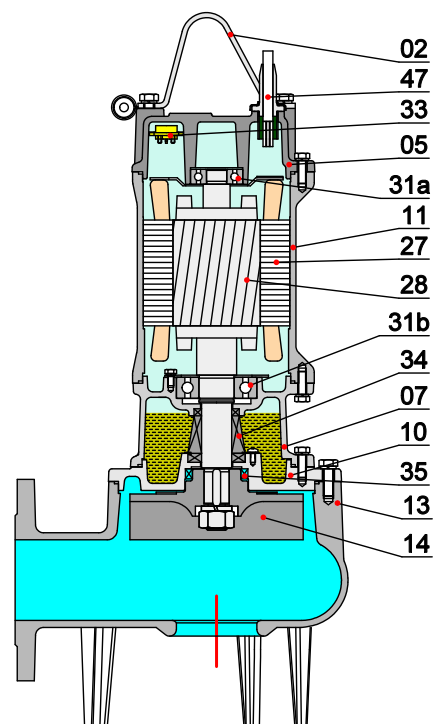
Technical Data

- Impeller type: Vortex
- Free passage: 50 mm
- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40°C
- pH value: 6 to 10
- Discharge: DN 80
- Flow rate: up to 96 m³/h
- Head: up to 40 m
- Motor protection: integrated up to 7.5 kW
- Maximum submersion depth: 10 m

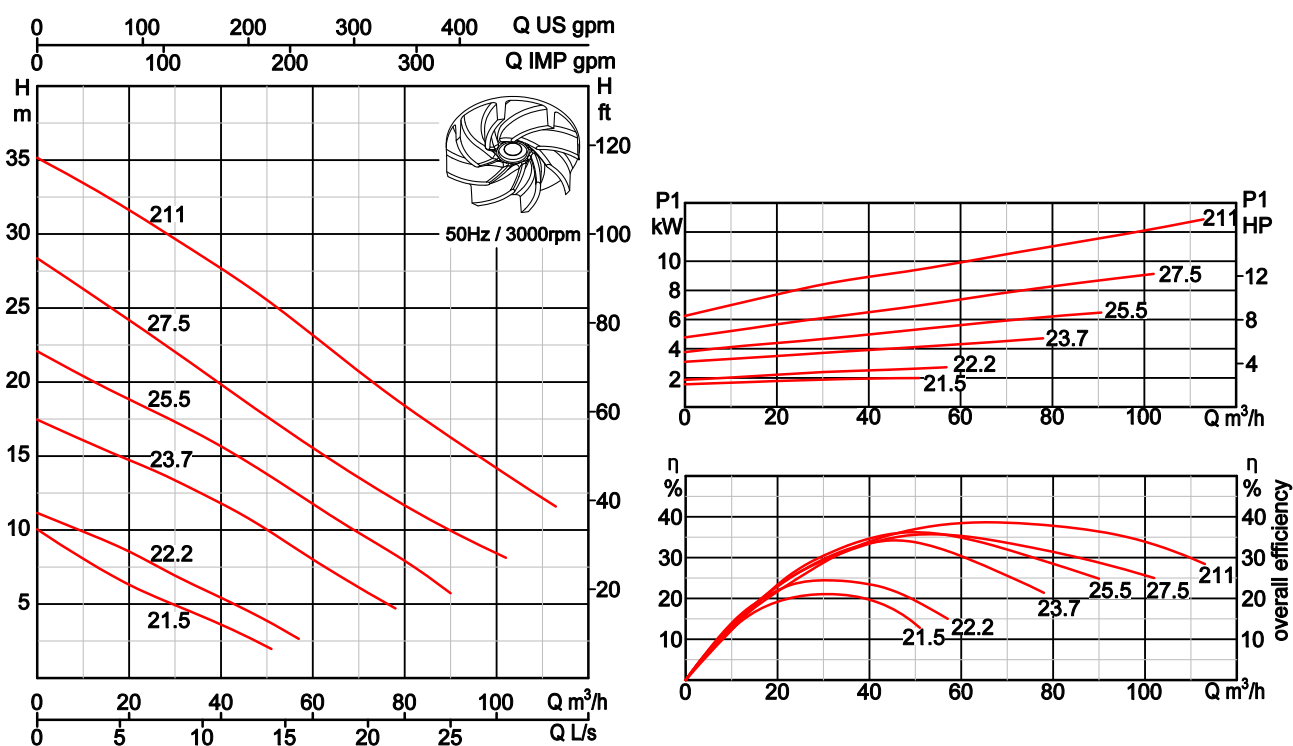


Parts List

Pos. No.	Component	Material
02	Handle	Steel
05	Top cover	Cast iron
07	Bearing housing	Cast iron
10	Seal holder	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14	Impeller	2P-Model: Cast iron
27	Stator	
28	Rotor	Shaft: AISI304SS
31a	Bearing	Ball bearing (NSK)
31b	Bearing	Ball bearing (NSK)
33	Motor protection	integrated up to 7.5 kW
34	Mechanical seal	SiC-SiC /Carbon/Ceramic
35	Oil seal	
47	Cable	H07RN-F



Performance Curve

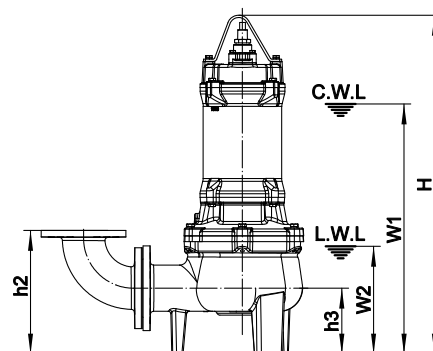
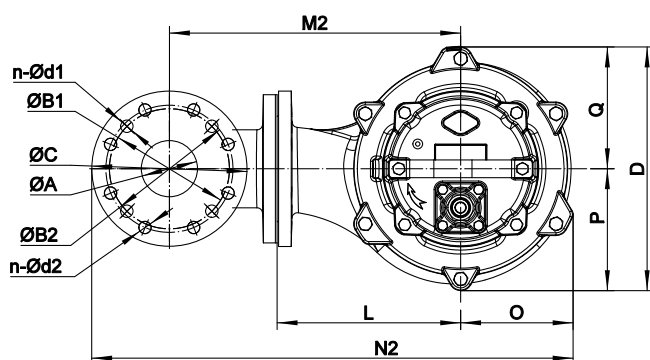


Model	Q (m³/h)	12	24	36	48	60	72	84	96
80MAU21.5-50(F)	H (m)	12.1	8.9	5.3	2.1	-	-	-	-
80MAU22.2-50		14.7	11.9	8.3	5	-	-	-	-
80MAU23.7-50		22.5	20.1	17.4	13.2	8.2	2.9	-	-
80MAU25.5-50		26.2	23.5	21	17.7	13.3	7.5	-	-
80MAU27.5-50		30.7	28.3	25.9	22.7	19.3	15.6	11.3	5
80MAU211-50		37.6	35.3	33.1	31	28.5	25.1	21	12

Model	Motor power		Discharge		Optimal flow rate and head		Max. flow rate and head		Free passage
	kW	HP	mm	Inch	m³/h	m	m³/h	m	mm
80MAU21.5-50(F)	1.5	2	80	3"	24	8.5	51	15	50
80MAU22.2-50	2.2	3	80	3"	24	12	57	18	50
80MAU23.7-50	3.7	5	80	3"	36	17	72	25	50
80MAU25.5-50	5.5	7.5	80	3"	39	20	78	28	50
80MAU27.5-50	7.5	10	80	3"	42	24	96	34	50
80MAU211-50	11	15	80	3"	42	32	96	40	50

Model	N.W	Packaging dimensions	Full-load current (A)					
	kg	mm	1×220 V	3×220 V	3×380 V	3×400 V	3×415 V	3×525 V
80MAU21.5-50F	38	660×240×335	10.	-	-	-	-	-
80MAU21.5-50	35	610×240×335	-	6.1	3.5	3.5	3.5	2.6
80MAU22.2-50	37	610×240×335	-	8.6	5.1	5.	5.	3.6
80MAU23.7-50	53	650×260×355	-	13.7	8.	7.7	7.5	5.5
80MAU25.5-50	61	710×260×355	-	20.	11.6	11.4	11.3	8.1
80MAU27.5-50	83	795×295×475	-	26.	15.4	15.	14.7	11.
80MAU211-50	94	795×295×475	-	38.	22.5	22.	21.6	16.

Dimensions with discharge elbow



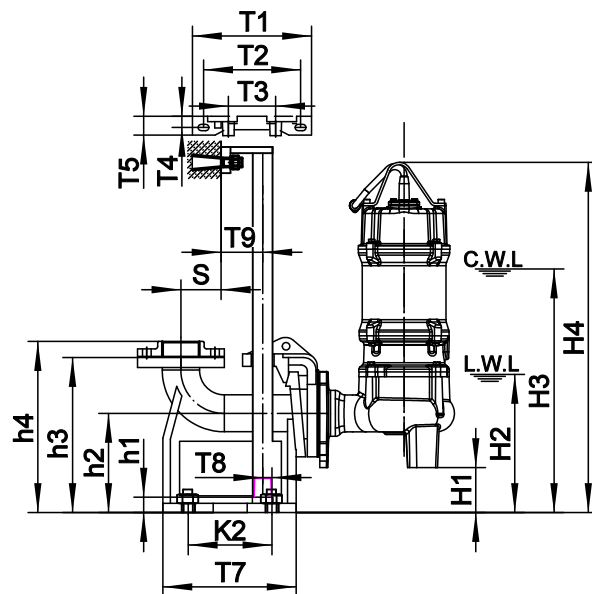
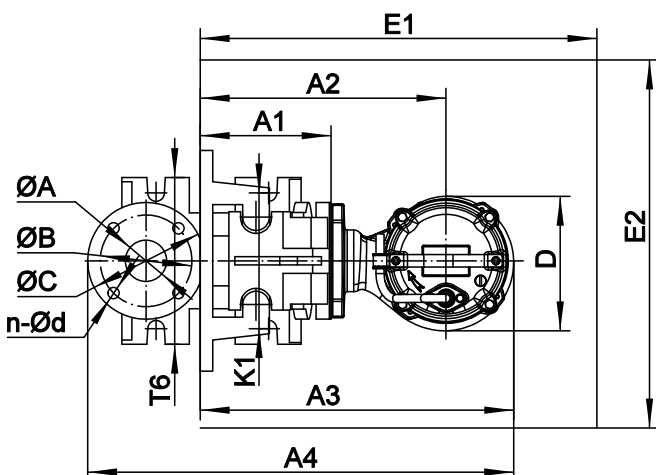
C.W.L.: Continuous water level

L.W.L.: Lowest water level

Model	Double flange elbow	ØA	ØB1	n-Ød1	ØB2	n-Ød2	ØC	h2	h3	W1	W2
80MAU21.5-50(F)	3"(PN6)-3"(PN6 & PN10)	80	150	4-Ø18	160	8-Ø18	200	237	97	400	160
80MAU22.2-50	3"(PN6)-3"(PN6 & PN10)	80	150	4-Ø18	160	8-Ø18	200	237	97	400	160
80MAU23.7-50	3"(PN6)-3"(PN6 & PN10)	80	150	4-Ø18	160	8-Ø18	200	237	97	420	160
80MAU25.5-50	3"(PN6)-3"(PN6 & PN10)	80	150	4-Ø18	160	8-Ø18	200	237	97	490	160
80MAU27.5-50	3"(PN6)-3"(PN6 & PN10)	80	150	4-Ø18	160	8-Ø18	200	240	100	510	170
80MAU211-50	3"(PN6)-3"(PN6 & PN10)	80	150	4-Ø18	160	8-Ø18	200	240	100	530	170

Model	H	O	P	Q	L	D	M2	N2
80MAU21.5-50 (F version: H = 620 mm)	575	114	101	101	170	202	312	526
80MAU22.2-50	575	114	101	101	170	202	312	526
80MAU23.7-50	611	128	113	113	180	226	322	550
80MAU25.5-50	676	128	113	113	180	226	322	550
80MAU27.5-50	755	130	130	130	220	260	342	592
80MAU211-50	755	130	130	130	220	260	362	592

Guide Rail Coupling Dimensions



C.W.L.: Continuous water level

L.W.L.: Lowest water level

Guide rail coupling	ØA	ØB	ØC	n-Ød
50-50(PN6)	50	110	140	4-Ø14
65-65(PN6)	65	130	160	4-Ø14
80-80(PN6)	80	150	190	4-Ø18
100-100(PN6)	100	170	210	4-Ø18
150-150(PN6)	150	225	285	8-Ø18

Model	Guide rail coupling	T1	T2	T3	T4	T5	T6	T7	T8	T9	K1	K2	S
80MAU21.5-50	80-80(PN6)	315	265	145	27	50	255	230	35	78	215	155	79
80MAU21.5-50F	80-80(PN6)	315	265	145	27	50	255	230	35	78	215	155	79
80MAU22.2-50	80-80(PN6)	315	265	145	27	50	255	230	35	78	215	155	79
80MAU23.7-50	80-80(PN6)	315	265	145	27	50	255	230	35	78	215	155	79
80MAU25.5-50	80-80(PN6)	315	265	145	27	50	255	230	35	78	215	155	79
80MAU27.5-50	80-80(PN6)	315	265	145	27	50	255	230	35	78	215	155	79
80MAU211-50	80-80(PN6)	315	265	145	27	50	255	230	35	78	215	155	79

Model	h1	h2	h3	h4	H1	H2	H3	H4	A1	A2	A3	A4	D	E1×E2
80MAU21.5-50	25	185	305	335	88	248	488	663	183	353	467	641	202	650×550
80MAU21.5-50F	25	185	305	335	88	248	488	708	183	353	467	641	202	650×550
80MAU22.2-50	25	185	305	335	88	248	488	663	183	353	467	641	202	650×550
80MAU23.7-50	25	185	305	335	88	238	508	699	183	363	491	665	226	650×550
80MAU25.5-50	25	185	305	335	88	238	578	764	183	363	491	665	226	650×550
80MAU27.5-50	25	185	305	335	85	255	595	840	183	403	533	707	260	750×550
80MAU211-50	25	185	305	335	85	255	615	840	183	403	533	707	260	750×550

MAU • Vortex Impeller • 1.5 kW ~ 11 kW • DN 80

50Hz (synchronous speed: 3000rpm) 2-pole

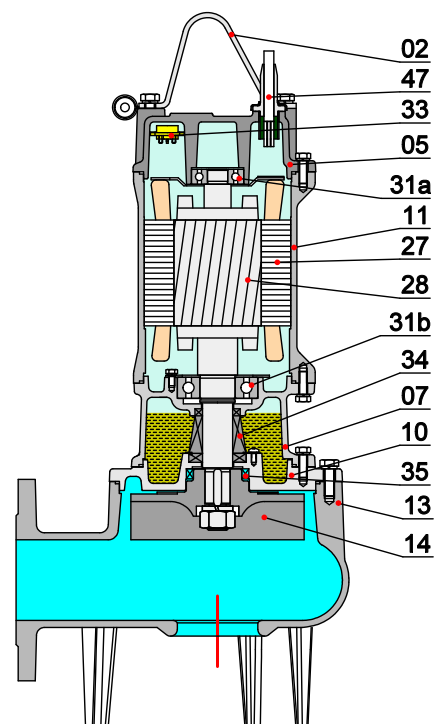
Technical Data

- Impeller type: Vortex
- Free passage: 80 mm
- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40°C
- pH value: 6 to 10
- Discharge: DN 80
- Flow rate: up to 113 m³/h
- Head: up to 35 m
- Motor protection: integrated up to 7.5 kW
- Maximum submersion depth: 10 m

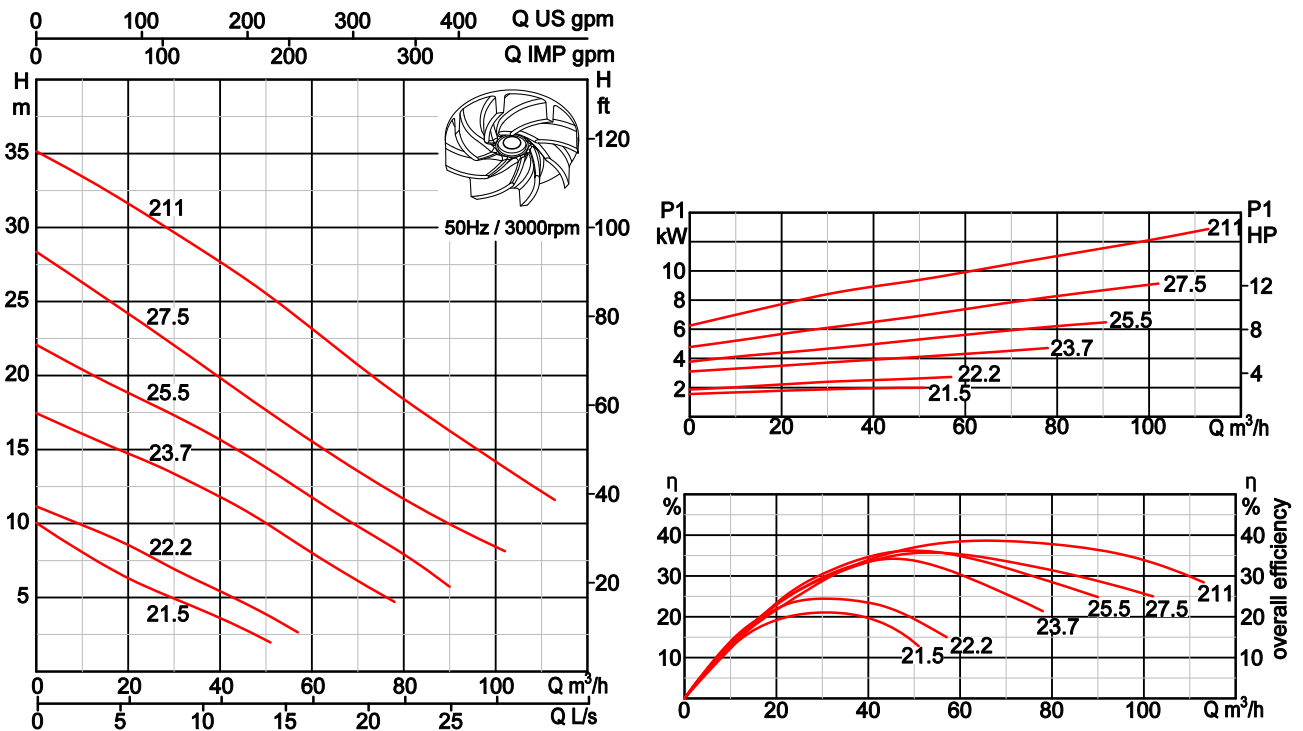


Parts List

Pos. No.	Component	Material
02	Handle	Steel
05	Top cover	Cast iron
07	Bearing housing	Cast iron
10	Seal holder	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14	Impeller	2P-Model: Cast iron
27	Stator	
28	Rotor	Shaft: AISI304SS
31a	Bearing	Ball bearing (NSK)
31b	Bearing	Ball bearing (NSK)
33	Motor protection	integrated up to 7.5 kW
34	Mechanical seal	SiC-SiC /Carbon/Ceramic
35	Oil seal	
47	Cable	H07RN-F



Performance Curve

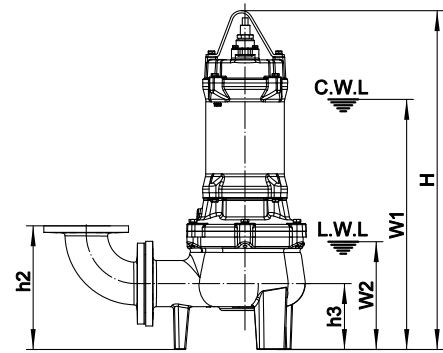
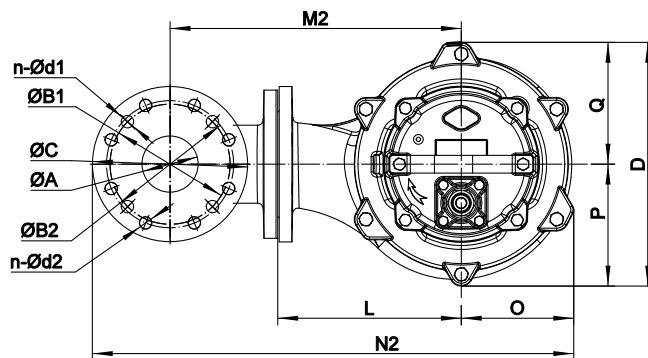


Model	Q (m³/h)	24	48	72	96	120	144	168	192
80MAU21.5(F)	H (m)	7.7	5.7	4.2	2.4	-	-	-	-
80MAU22.2		9.6	7.9	6.0	4.2	-	-	-	-
80MAU23.7		15.8	14.2	12.4	10.4	8.0	5.8	-	-
80MAU25.5		20.1	18.2	16.3	14.2	11.8	9.4	7.1	-
80MAU27.5		25.9	23.3	20.8	18.1	15.6	13.2	11.0	9.0
80MAU211		33.1	30.9	28.5	26.0	23.2	20.2	17.5	15.0

Model	Motor power		Discharge		Optimal flow rate and head		Max. flow rate and head		Free passage
	kW	HP	mm	Inch	m³/h	m	m³/h	m	mm
80MAU21.5(F)	1.5	2	80	3	30	5	51	10	80
80MAU22.2	2.2	3	80	3	30	7	57	11	80
80MAU23.7	3.7	5	80	3	36	12	78	17	80
80MAU25.5	5.5	7.5	80	3	48	14	90	22	80
80MAU27.5	7.5	10	80	3	48	18	102	28	80
80MAU211	11	15	80	3	48	26	113	35	80

Model	N.W	Packaging	Full-load current (A)					
	kg	mm	1x 220V	3x 220V	3x 380V	3x 400V	3x 415V	3x 525V
80MAU21.5(F)	42	710×250×315	10	-	-	-	-	-
80MAU21.5	38	670×250×315	-	6.1	3.5	3.5	3.5	2.6
80MAU22.2	40	670×250×315	-	8.6	5.1	5	5	3.6
80MAU23.7	55	700×270×335	-	13.7	8	7.7	7.5	5.5
80MAU25.5	63	770×270×335	-	20	11.6	11.4	11.3	8.1
80MAU27.5	87	845×315×455	-	26	15.4	15	14.7	11
80MAU211	97	845×315×455	-	38	22.5	22	21.6	16

Dimensions with discharge elbow



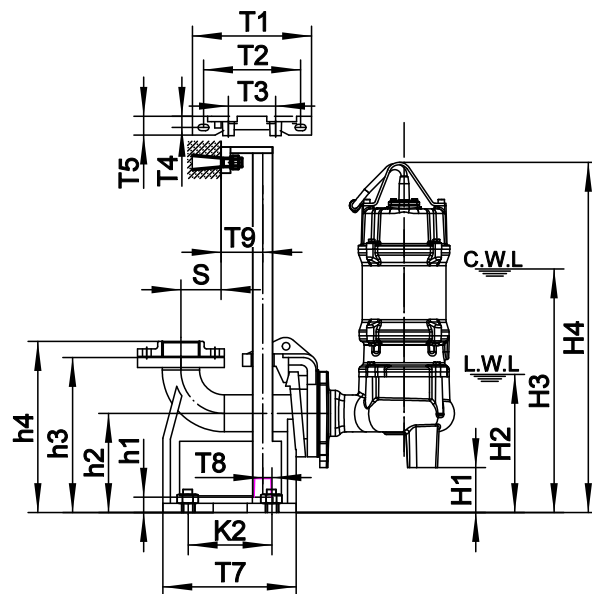
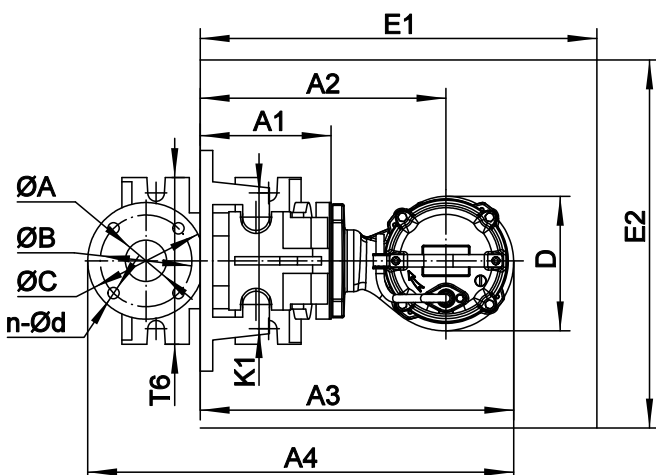
C.W.L.: Continuous water level

L.W.L.: Lowest water level

Model	Double flange elbow	$\varnothing A$	$\varnothing B1$	$n-\varnothing d1$	$\varnothing B2$	$n-\varnothing d2$	$\varnothing C$	$h2$	$h3$	$W1$	$W2$
80MAU21.5(F)	3"(PN6)-3"(PN6 & PN10)	80	150	4- $\varnothing 18$	160	8- $\varnothing 18$	200	272	132	450	210
80MAU22.2	3"(PN6)-3"(PN6 & PN10)	80	150	4- $\varnothing 18$	160	8- $\varnothing 18$	200	272	132	450	210
80MAU23.7	3"(PN6)-3"(PN6 & PN10)	80	150	4- $\varnothing 18$	160	8- $\varnothing 18$	200	272	132	480	210
80MAU25.5	3"(PN6)-3"(PN6 & PN10)	80	150	4- $\varnothing 18$	160	8- $\varnothing 18$	200	272	132	550	210
80MAU27.5	3"(PN6)-3"(PN6 & PN10)	80	150	4- $\varnothing 18$	160	8- $\varnothing 18$	200	274	134	560	220
80MAU211	3"(PN6)-3"(PN6 & PN10)	80	150	4- $\varnothing 18$	160	8- $\varnothing 18$	200	274	134	580	220

Model	H	O	P	Q	L	D	M2	N2
80MAU21.5 (F version: H = 673 mm)	628	116	110	102	150	212	292	508
80MAU22.2	628	116	110	102	150	212	292	508
80MAU23.7	668	130	120	113	160	233	302	532
80MAU25.5	733	130	120	113	160	233	302	532
80MAU27.5	807	133	141	131	200	272	342	575
80MAU211	807	133	141	131	200	272	342	575

Guide Rail Coupling Dimensions



C.W.L.: Continuous water level

L.W.L.: Lowest water level

Guide rail coupling	ØA	ØB	ØC	n-Ød
50-50(PN6)	50	110	140	4-Ø14
65-65(PN6)	65	130	160	4-Ø14
80-80(PN10)	80	150	190	4-Ø18
100-100(PN10)	100	170	210	4-Ø18
150-150(PN10)	150	225	285	8-Ø18

Model	Guide rail coupling	T1	T2	T3	T4	T5	T6	T7	T8	T9	K1	K2	S	h1
80MAU21.5(F)	80-80(PN10)	315	265	145	27	50	255	230	35	78	215	155	79	25
80MAU21.5	80-80(PN10)	315	265	145	27	50	255	230	35	78	215	155	79	25
80MAU22.2	80-80(PN10)	315	265	145	27	50	255	230	35	78	215	155	79	25
80MAU23.7	80-80(PN10)	315	265	145	27	50	255	230	35	78	215	155	79	25
80MAU25.5	80-80(PN10)	315	265	145	27	50	255	230	35	78	215	155	79	25
80MAU27.5	80-80(PN10)	315	265	145	27	50	255	230	35	78	215	155	79	25
80MAU211	80-80(PN10)	315	265	145	27	50	255	230	35	78	215	155	79	25

Model	h2	h3	h4	H1	H2	H3	H4	A1	A2	A3	A4	D	E1×E2
80MAU21.5(F)	185	305	335	53	263	503	726	183	333	449	623	212	650×550
80MAU21.5	185	305	335	53	263	503	681	183	333	449	623	212	650×550
80MAU22.2	185	305	335	53	263	503	681	183	333	449	623	212	650×550
80MAU23.7	185	305	335	53	263	533	721	183	343	473	647	233	650×550
80MAU25.5	185	305	335	51	271	603	786	183	343	473	647	233	650×550
80MAU27.5	185	305	335	51	271	611	858	183	383	516	690	272	750×550
80MAU211	185	305	335	46	276	631	858	183	383	516	690	272	750×550

MAU • Vortex Impeller • 1.5 kW ~ 7.5 kW • DN 80

50Hz (synchronous speed: 1500 rpm) 4-pole

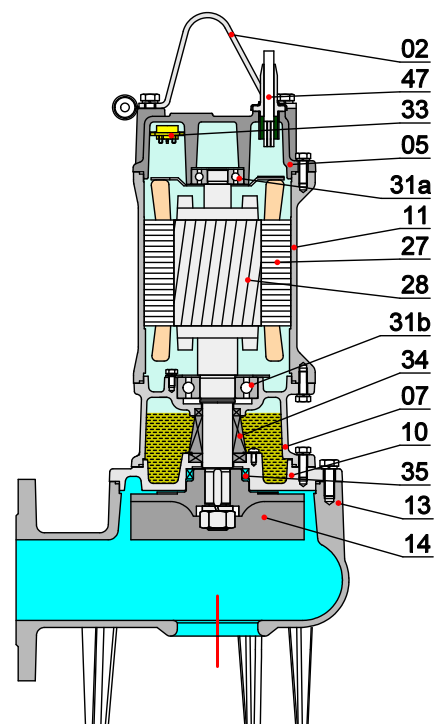
Technical Data

- Impeller type: Vortex
- Free passage: 80 mm
- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40°C
- PH value: 6 to 10
- Discharge: DN 80
- Flow rate: up to 115 m³/h
- Head: up to 18 m
- Motor protection: integrated up to 7.5 kW
- Maximum submersion depth: 10 m

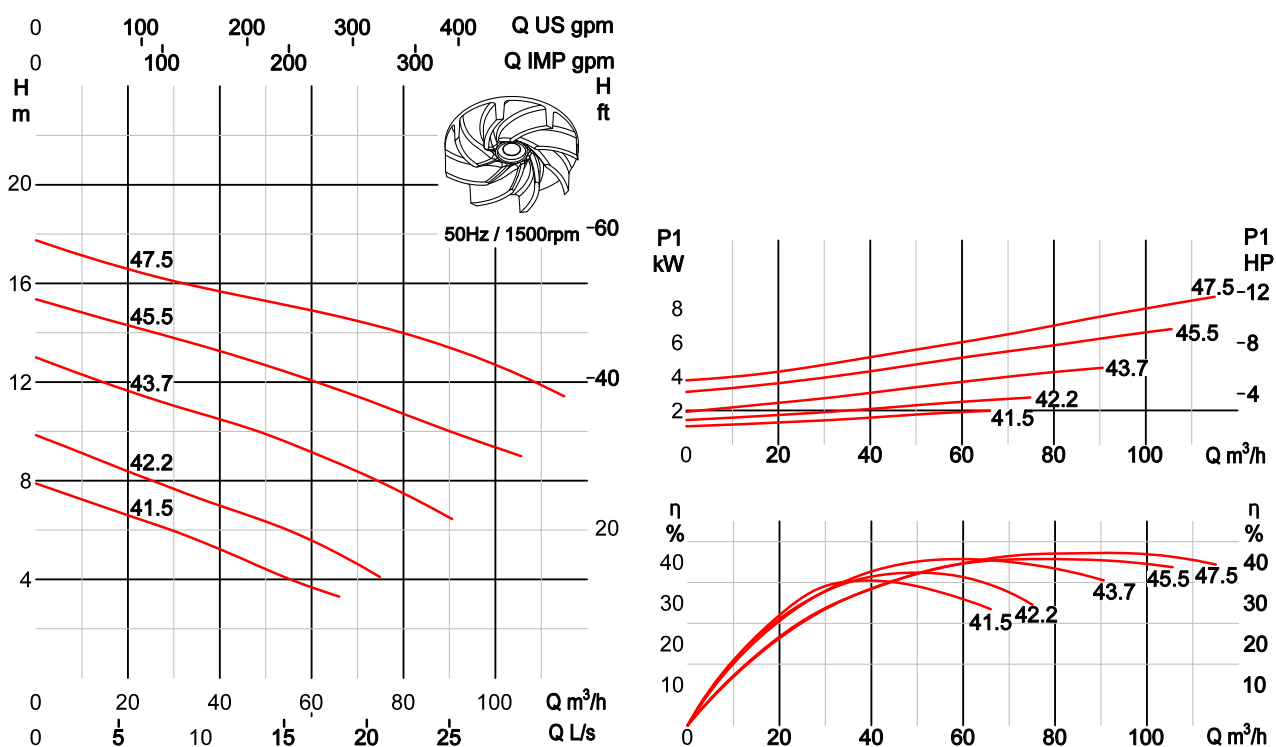


Parts List

Pos. No.	Component	Material
02	Handle	Steel
05	Top cover	Cast iron
07	Bearing housing	Cast iron
10	Seal holder	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14	Impeller	4-pole model: ductile cast iron
27	Stator	
28	Rotor	Shaft: AISI304SS
31a	Bearing	Ball bearing (NSK)
31b	Bearing	Ball bearing (NSK)
33	Motor protection	integrated up to 7.5 kW
34	Mechanical seal	SiC-SiC /Carbon/Ceramic
35	Oil seal	
47	Cable	H07RN-F



Performance Curve

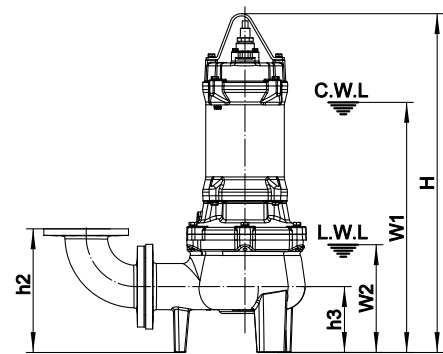
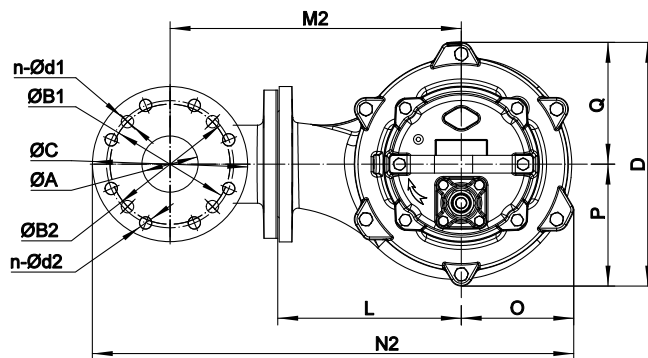


Model	Q (m³/h)	12	24	36	48	60	72	84	96
80MAU41.5(F)	H (m)	7.1	6.3	5.5	4.6	3.7			
80MAU42.2		9	8.1	7.3	6.5	5.6	4.4		
80MAU43.7		12.2	11.4	10.7	10	9.2	8.2	7.1	
80MAU45.5		14.7	14.1	13.5	12.8	12.1	11.3	10.4	9.6
80MAU47.5		17	16.4	15.8	15.3	14.9	14.5	13.7	12.9

Model	Motor power		Discharge		Optimal flow rate and head		Max. flow rate and head		Free passage
	kW	HP	mm	Inch	m³/h	m	m³/h	m	mm
80MAU41.5(F)	1.5	2	80	3	36	5.5	66	8	80
80MAU42.2	2.2	3	80	3	36	7	75	10	80
80MAU43.7	3.7	5	80	3	48	10	90	13	80
80MAU45.5	5.5	7.5	80	3	60	12	105	15	80
80MAU47.5	7.5	10	80	3	72	14.5	115	18	80

Model	N.W	Packaging dimensions	Full-load current (A)					
	kg	mm	1x 220V	3x 220V	3x 380V	3x 400V	3x 415V	3x 525V
80MAU41.5(F)	53	785×315×430	10	-	-	-	-	-
80MAU41.5	49	735×315×430	-	6.8	3.8	3.7	3.7	2.9
80MAU42.2	53	735×315×430	-	9.7	5.4	5.3	5.3	4.1
80MAU43.7	71	795×335×445	-	15	8.5	8.3	8.3	6.4
80MAU45.5	100	885×380×525	-	21.3	12.1	11.7	11.7	9
80MAU47.5	108	885×380×525	-	28.6	16.2	15.7	15.7	12

Dimensions with discharge elbow



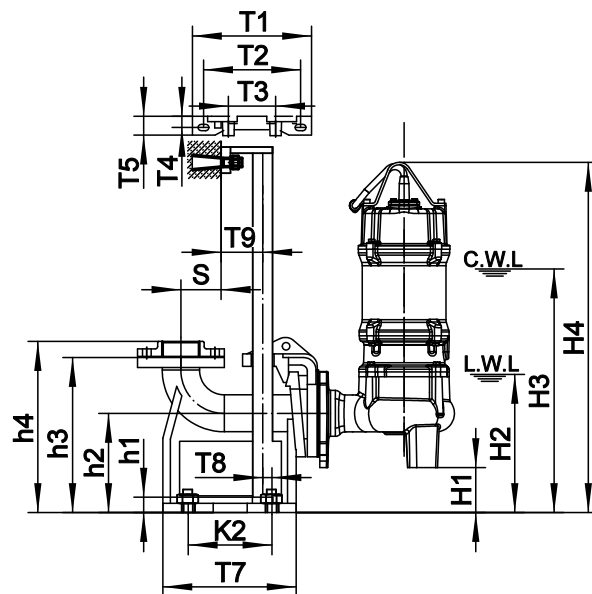
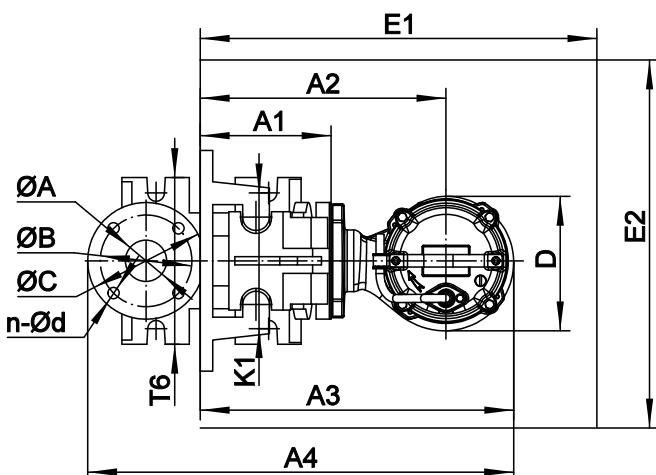
C.W.L.: Continuous water level

L.W.L.: Lowest water level

Model	Double flange elbow	ØA	ØB1	n-Ød1	ØB2	n-Ød2	ØC	h2	h3	W1	W2
80MAU41.5	3"(PN6)-3"(PN6 & PN10)	80	150	4-Ø18	160	8-Ø18	200	279	139	485	230
80MAU41.5F	3"(PN6)-3"(PN6 & PN10)	80	150	4-Ø18	160	8-Ø18	200	279	139	510	230
80MAU42.2	3"(PN6)-3"(PN6 & PN10)	80	150	4-Ø18	160	8-Ø18	200	279	139	510	230
80MAU43.7	3"(PN6)-3"(PN6 & PN10)	80	150	4-Ø18	160	8-Ø18	200	279	139	570	230
80MAU45.5	3"(PN6)-3"(PN6 & PN10)	80	150	4-Ø18	160	8-Ø18	200	281	141	610	240
80MAU47.5	3"(PN6)-3"(PN6 & PN10)	80	150	4-Ø18	160	8-Ø18	200	281	141	610	240

Model	H	O	P	Q	L	D	M2	N2
80MAU41.5	667	131	142	130	200	272	342	572
80MAU41.5F	738	131	142	130	200	272	342	572
80MAU42.2	693	131	142	130	200	272	342	572
80MAU43.7	751	142	148	138	210	286	352	594
80MAU45.5	840	159	173	173	230	346	372	631
80MAU47.5	840	159	173	173	230	346	372	631

Guide Rail Coupling Dimensions



C.W.L.: Continuous water level

L.W.L.: Lowest water level

Guide rail coupling	ØA	ØB	ØC	n-Ød
50-50(PN6)	50	110	140	4-Ø14
65-65(PN6)	65	130	160	4-Ø14
80-80(PN10)	80	150	190	4-Ø18
100-100(PN10)	100	170	210	4-Ø18
150-150(PN10)	150	225	285	8-Ø18

Model	Guide rail coupling	T1	T2	T3	T4	T5	T6	T7	T8	T9	K1	K2	S	h1
80MAU41.5	80-80(PN10)	315	265	145	27	50	255	230	35	78	215	155	79	25
80MAU41.5F	80-80(PN10)	315	265	145	27	50	255	230	35	78	215	155	79	25
80MAU42.2	80-80(PN10)	315	265	145	27	50	255	230	35	78	215	155	79	25
80MAU43.7	80-80(PN10)	315	265	145	27	50	255	230	35	78	215	155	79	25
80MAU45.5	80-80(PN10)	315	265	145	27	50	255	230	35	78	215	155	79	25
80MAU47.5	80-80(PN10)	315	265	145	27	50	255	230	35	78	215	155	79	25

Model	h2	h3	h4	H1	H2	H3	H4	A1	A2	A3	A4	D	E1×E2
80MAU41.5	185	305	335	46	276	531	714	183	383	513	687	271	650×550
80MAU41.5F	185	305	335	46	276	556	784	183	383	513	687	271	650×550
80MAU42.2	185	305	335	46	276	556	739	183	383	513	687	271	650×550
80MAU43.7	185	305	335	46	276	616	797	183	393	535	709	286	650×550
80MAU45.5	185	305	335	44	284	654	884	183	413	572	746	346	750×550
80MAU47.5	185	305	335	44	284	654	884	183	413	572	746	346	750×550

MAU • Vortex Impeller • 3.7 kW ~ 7.5 kW • DN 100

50Hz (synchronous speed: 1500 rpm) 4-pole

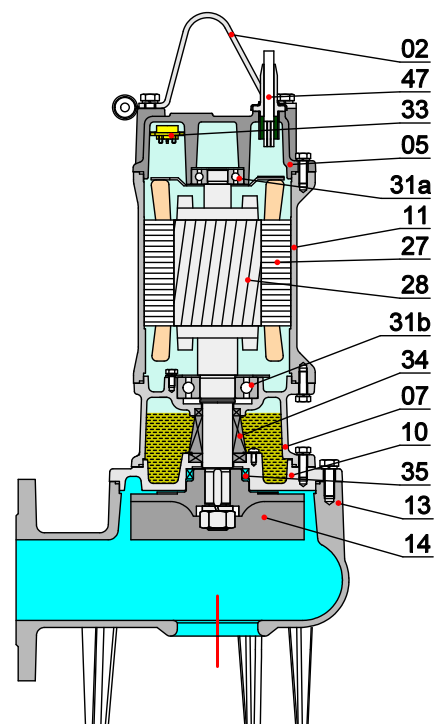
Technical Data

- Impeller type: Vortex
- Free passage: 100 mm
- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40°C
- pH value: 6 to 10
- Discharge: DN 100
- Flow rate: up to 165 m³/h
- Head: up to 15 m
- Motor protection: integrated up to 7.5 kW
- Maximum submersion depth: 10 m

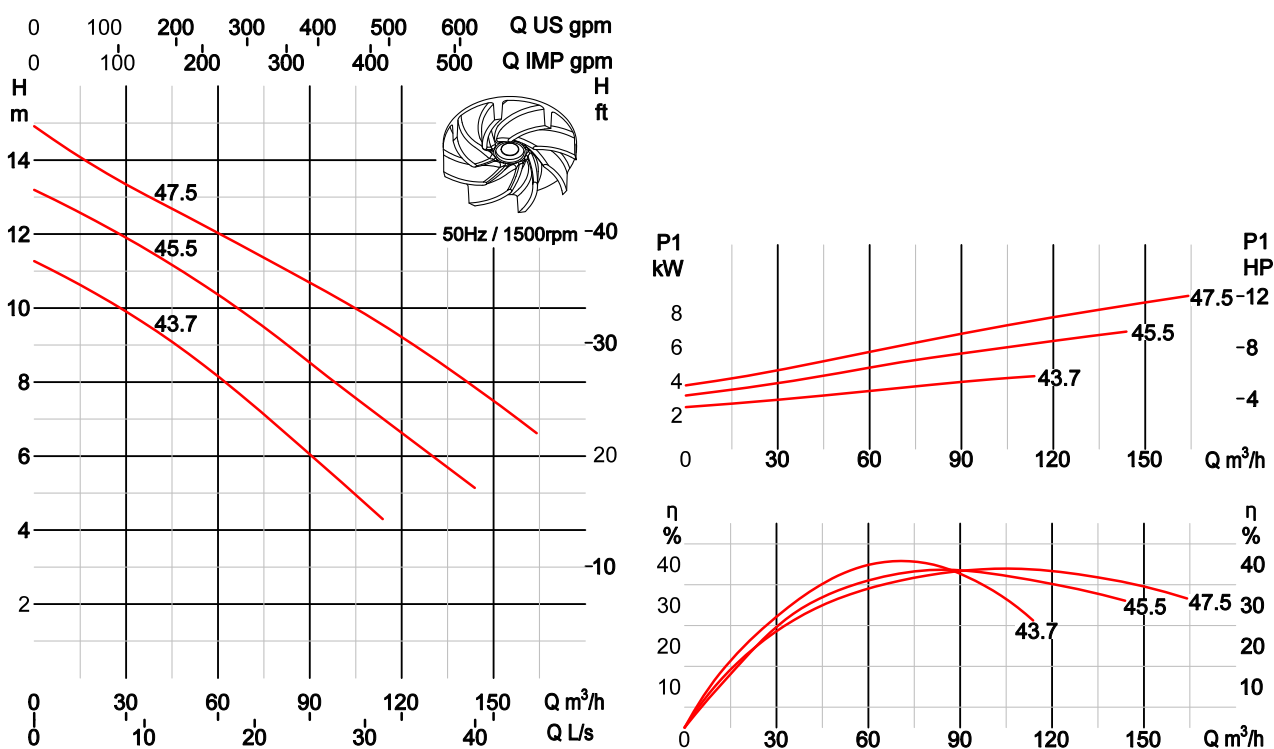


Parts List

Pos. No.	Component	Material
02	Handle	Steel
05	Top cover	Cast iron
07	Bearing housing	Cast iron
10	Seal holder	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14	Impeller	4-pole model: ductile cast iron
27	Stator	
28	Rotor	Shaft: AISI304SS
31a	Bearing	Ball bearing (NSK)
31b	Bearing	Ball bearing (NSK)
33	Motor protection	integrated up to 7.5 kW
34	Mechanical seal	SiC-SiC / Carbon/Ceramic
35	Oil seal	
47	Cable	H07RN-F



Performance Curve

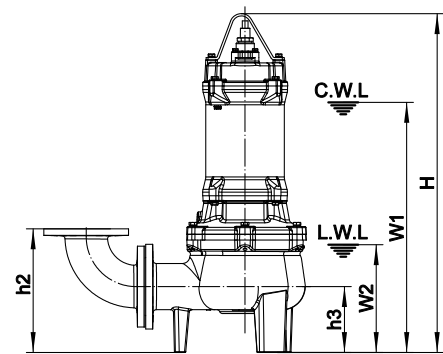
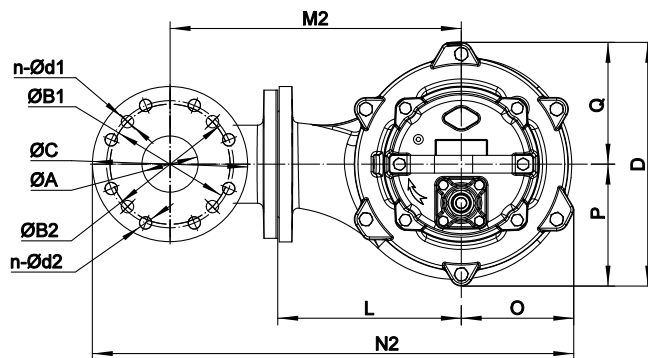


Model	Q / (m ³ /h)	18	36	54	72	90	108	126	144
100MAU43.7	H (m)	10.5	9.6	8.5	7.3	6.1	4.7		
100MAU45.5		12.5	11.6	10.7	9.7	8.5	7.4	6.3	5.1
100MAU47.5		13.9	13.1	12.3	11.5	10.7	9.8	8.9	7.9

Model	Motor power		Discharge		Optimal flow rate and head		Max. flow rate and head		Free passage
	kW	HP	mm	Inch	m ³ /h	m	m ³ /h	m	mm
100MAU43.7	3.7	5	100	4	60	8	115	10	100
100MAU45.5	5.5	7.5	100	4	80	9	145	13	100
100MAU47.5	7.5	10	100	4	108	10	165	15	100

Model	N.W	Packaging	Full-load current (A)				
	kg	mm	220V	380V	400V	415V	525V
100MAU43.7	75	845×350×485	15	8.5	8.3	8.3	6.4
100MAU45.5	104	925×380×565	21.3	12.1	11.7	11.7	9
100MAU47.5	112	925×380×565	28.6	16.2	15.7	15.7	12

Dimensions with discharge elbow



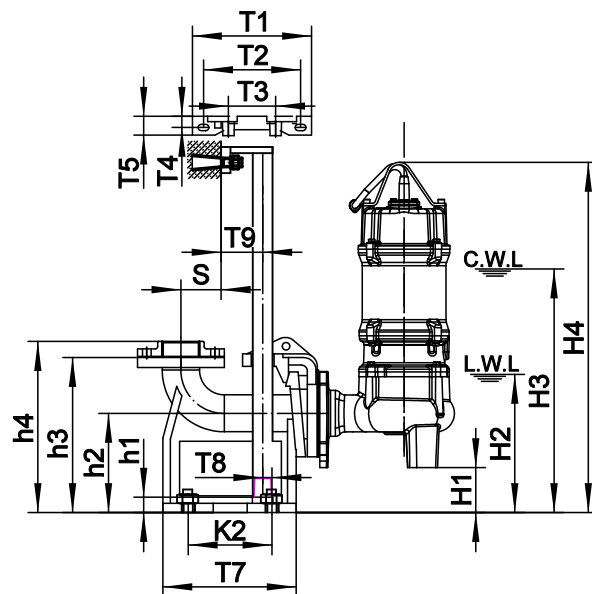
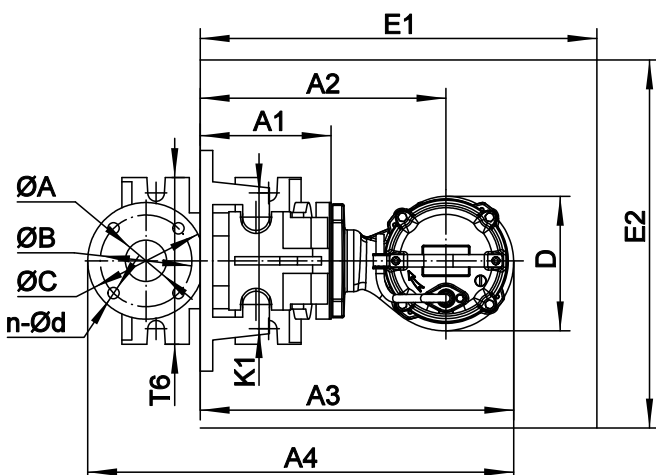
C.W.L.: Continuous water level

L.W.L.: Lowest water level

Model	Double flange elbow	$\varnothing A$	$\varnothing B1$	$n-\varnothing d1$	$\varnothing B2$	$n-\varnothing d2$	$\varnothing C$	$h2$	$h3$
100MAU43.7	100-100(PN10)	100	170	4- $\varnothing 18$	180	8- $\varnothing 18$	220	319	169
100MAU45.5	100-100(PN10)	100	170	4- $\varnothing 18$	180	8- $\varnothing 18$	220	321	171
100MAU47.5	100-100(PN10)	100	170	4- $\varnothing 18$	180	8- $\varnothing 18$	220	321	171

Model	$W1$	$W2$	H	O	P	Q	L	D	$M2$	$N2$
100MAU43.7	620	280	800	155	164	152	240	316	393	657
100MAU45.5	650	280	880	159	173	173	260	346	413	682
100MAU47.5	650	280	880	159	173	173	260	346	413	682

Guide Rail Coupling Dimensions



C.W.L.: Continuous water level

L.W.L.: Lowest water level

Guide rail coupling	ØA	ØB	ØC	n-Ød
50-50(PN6)	50	110	140	4-Ø14
65-65(PN6)	65	130	160	4-Ø14
80-80(PN10)	80	150	190	4-Ø18
100-100(PN10)	100	170	210	4-Ø18
150-150(PN10)	150	225	285	8-Ø18

Model	Guide rail coupling	T1	T2	T3	T4	T5	T6	T7	T8	T9	K1	K2	S
100MAU43.7	100-100(PN10)	365	305	170	30	55	293	262	34	95	265	176	97
100MAU45.5	100-100(PN10)	365	305	170	30	55	293	262	34	95	265	176	97
100MAU47.5	100-100(PN10)	365	305	170	30	55	293	262	34	95	265	176	97

Model	h1	h2	h3	h4	H1	H2	H3	H4	A1	A2	A3	A4	D	E1×E2
100MAU43.7	23	225	350	381	56	336	676	856	203	443	598	800	316	750×550
100MAU45.5	23	225	350	381	54	334	704	934	203	463	622	824	346	750×550
100MAU47.5	23	225	350	381	54	334	704	934	203	463	622	824	346	750×550

MAE • Single-channel impeller • 1.5 kW ~ 3.7 kW • DN 80

50Hz (synchronous speed: 1500 rpm) 4-pole

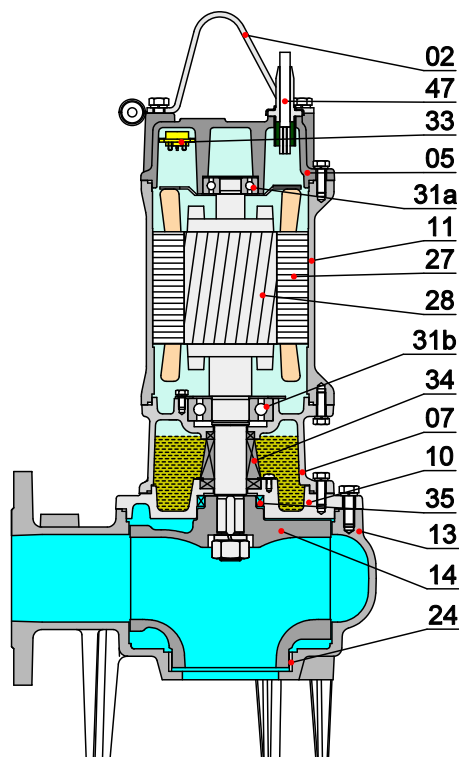
Technical Data

- Impeller type: Single-channel impeller
- Free passage: 76 mm
- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40°C
- Impeller type: Single-channel impeller
- pH value: 6 to 10
- Discharge: DN 80
- Flow rate: up to 102 m³/h
- Head: up to 18 m
- Maximum submersion depth: 10 m

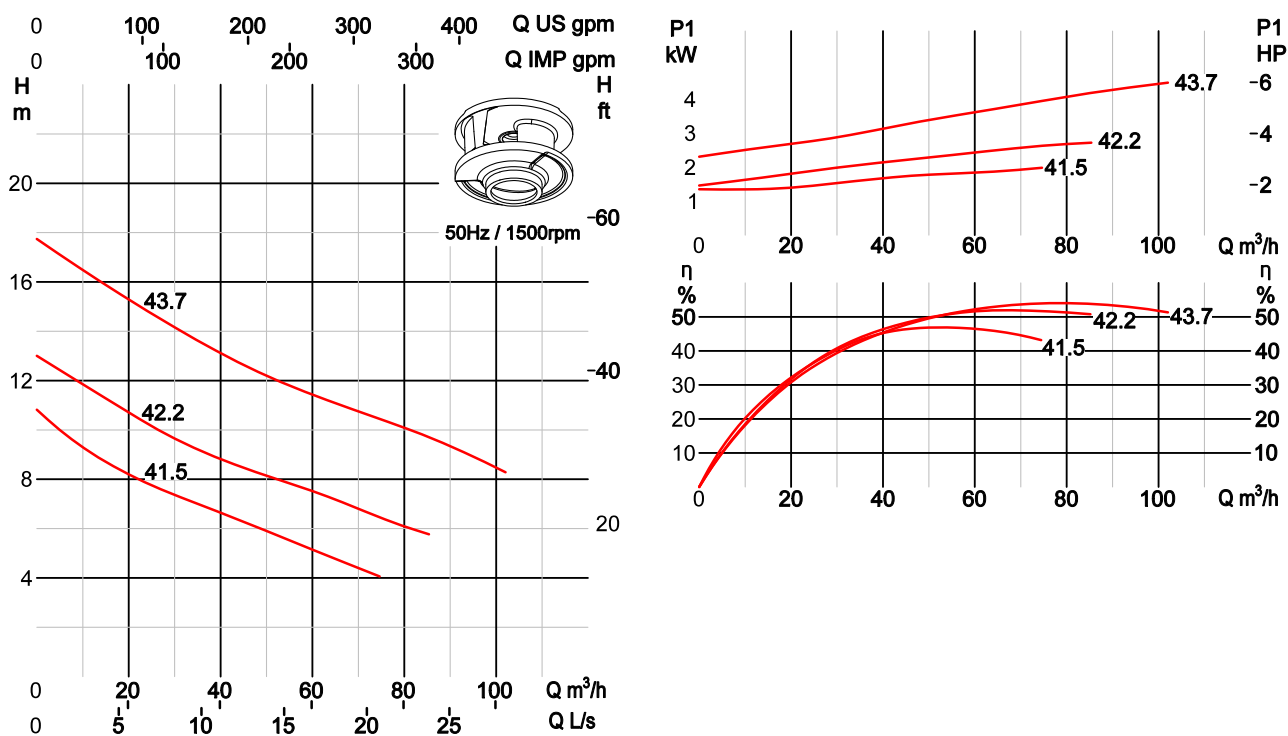


Parts List

Pos. No.	Component	Material
02	Handle	Steel
05	Top cover	Cast iron
07	Bearing housing	Cast iron
10	Seal holder	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14	Impeller	Ductile cast iron
24	Wear ring	AISI304SS
27	Stator	
28	Rotor	Shaft: AISI304SS D-K5.5/7.5: AISI420SS
31a	Bearing	Ball bearing (NSK)
31b	Bearing	Ball bearing (NSK)
33	Motor protection	integrated up to 7.5 kW
34	Mechanical seal	SiC-SiC / Carbon/Ceramic
35	Oil seal	
47	Cable	H07RN-F



Performance Curve

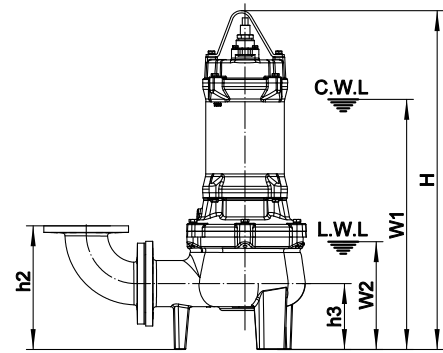
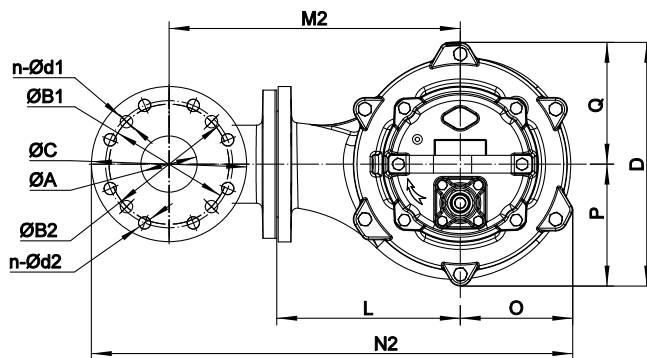


Model	Q (m³/h)	12	24	36	48	60	72	84	96
80MAE41.5	H (m)	9.1	7.8	6.9	6.1	5.2	4.3	-	-
80MAE42.2		11.6	10.3	9.1	8.3	7.5	6.7	5.8	-
80MAE43.7		16.2	14.8	13.5	12.4	11.4	10.6	9.8	8.8

Model	Motor power		Discharge		Optimal flow rate and head		Max. flow rate and head		Free passage
	kW	HP	mm	Inch	m³/h	m	m³/h	m	mm
80MAE41.5(F)	1.5	2	80	3	48	6	75	11	76
80MAE41.5	1.5	2	80	3	48	6	75	11	76
80MAE42.2	2.2	3	80	3	48	8	85	13	76
80MAE43.7	3.7	5	80	3	48	12	102	18	76

Model	N.W	Packaging	Full-load current (A)					
	kg	mm	1x 230V	3x 220V	3x 380V	3x 400V	3x 415V	3x 525V
80MAE41.5(F)	58	735×315×430	10	-	-	-	-	-
80MAE41.5	54	735×315×430	-	6.8	3.8	3.7	3.7	2.9
80MAE42.2	60	735×315×430	-	9.7	5.4	5.3	5.3	4.1
80MAE43.7	78	795×335×445	-	15	8.5	8.3	8.3	6.4

Dimensions with discharge elbow



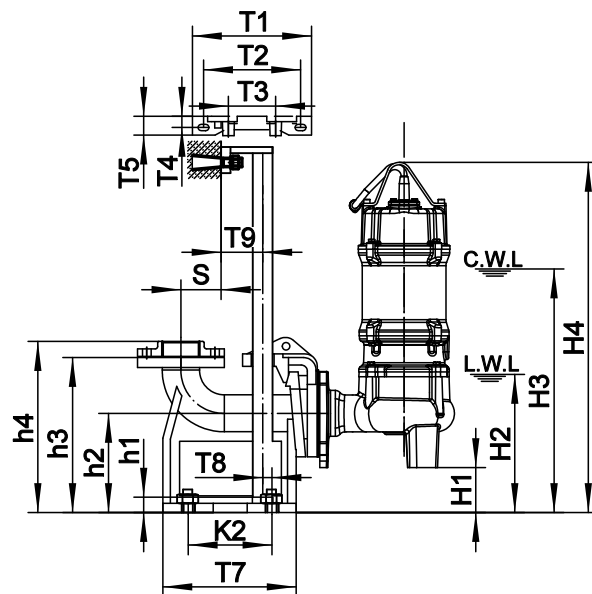
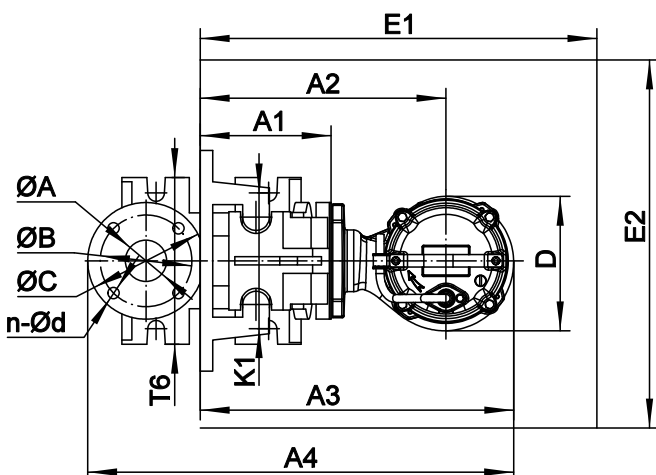
C.W.L.: Continuous water level

L.W.L.: Lowest water level

Model	Double flange elbow	ØA	ØB1	n-Ød1	ØB2	n-Ød2	ØC	h2	h3
80MAE41.5(F)	3"(PN6)-3"(PN6 & PN10)	80	150	4-Ø18	160	8-Ø18	200	312	172
80MAE41.5	3"(PN6)-3"(PN6 & PN10)	80	150	4-Ø18	160	8-Ø18	200	312	172
80MAE42.2	3"(PN6)-3"(PN6 & PN10)	80	150	4-Ø18	160	8-Ø18	200	312	172
80MAE43.7	3"(PN6)-3"(PN6 & PN10)	80	150	4-Ø18	160	8-Ø18	200	312	172

Model	W1	W2	H	O	P	Q	L	D	M2	N2
80MAE41.5(F)	510	230	737	137	149	135	205	284	347	584
80MAE41.5	485	230	668	137	149	135	205	284	347	584
80MAE42.2	510	230	693	137	149	135	205	284	347	584
80MAE43.7	570	230	750	145	158	143	215	301	357	602

Guide Rail Coupling Dimensions



C.W.L.: Continuous water level

L.W.L.: Lowest water level

Guide rail coupling	ØA	ØB	ØC	n-Ød
50-50(PN6)	50	110	140	4-Ø14
65-65(PN6)	65	130	160	4-Ø14
80-80(PN10)	80	150	190	4-Ø18
100-100(PN10)	100	170	210	4-Ø18
150-150(PN10)	150	225	285	8-Ø18

Model	Guide rail coupling	T1	T2	T3	T4	T5	T6	T7	T8	T9	K1	K2	S
80MAE41.5	80-80(PN10)	315	265	145	27	50	255	230	35	78	215	155	79
80MAE41.5F	80-80(PN10)	315	265	145	27	50	255	230	35	78	215	155	79
80MAE42.2	80-80(PN10)	315	265	145	27	50	255	230	35	78	215	155	79
80MAE43.7	80-80(PN10)	315	265	145	27	50	255	230	35	78	215	155	79

Model	h1	h2	h3	h4	H1	H2	H3	H4	A1	A2	A3	A4	D	E1×E2
80MAE41.5	25	185	305	335	13	243	498	681	183	388	525	699	284	650×550
80MAE41.5F	25	185	305	335	13	243	523	751	183	388	525	699	284	650×550
80MAE42.2	25	185	305	335	13	243	523	706	183	388	525	699	284	650×550
80MAE43.7	25	185	305	335	13	243	570	750	183	398	543	717	301	650×550

MAE • Single-channel impeller • 1.5 kW ~ 7.5 kW • DN 100

50Hz (synchronous speed: 1500 rpm) 4-pole

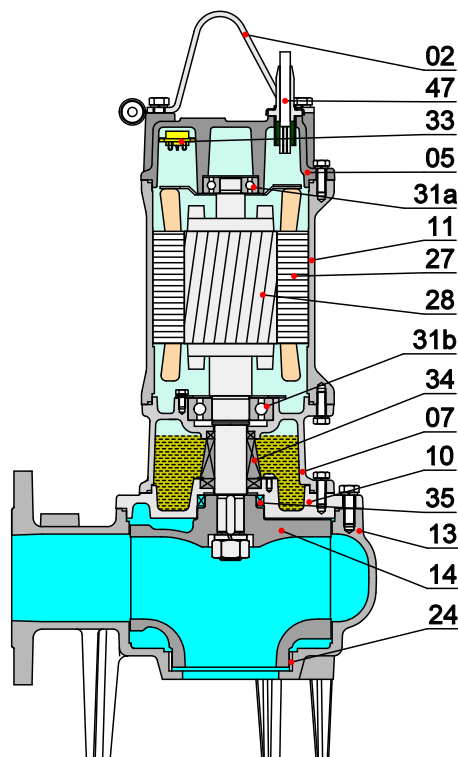
Technical Data

- Impeller type: single-channel impeller
- Free passage: 76 mm
- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40°C
- pH value: 6 to 10
- Discharge: DN 100
- Flow rate: up to 185 m³/h
- Head: up to 24 m
- Motor protection: integrated up to 7.5 kW
- Maximum submersion depth: 10 m

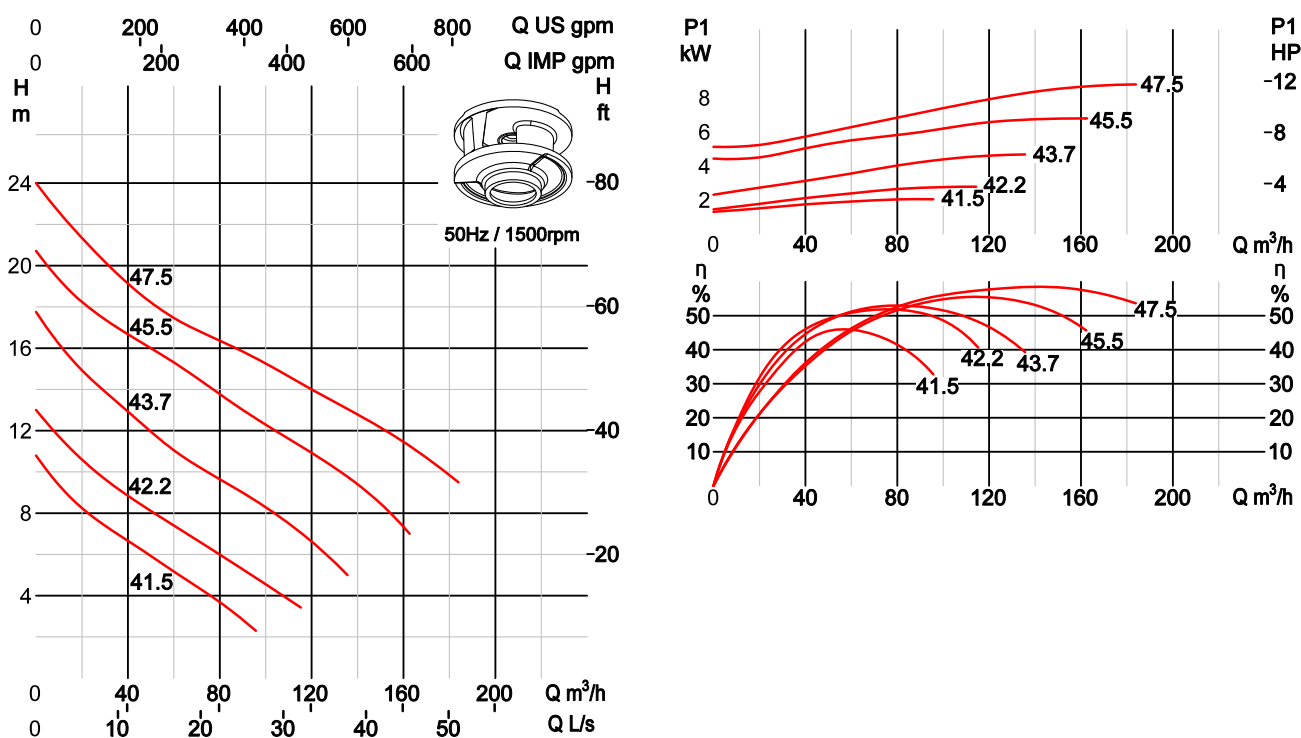


Parts List

Pos. No.	Component	Material
02	Handle	Steel
05	Top cover	Cast iron
07	Bearing housing	Cast iron
10	Seal holder	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14	Impeller	Ductile cast iron
24	Wear ring	AISI304SS
27	Stator	
28	Rotor	Shaft: AISI304SS D-K5.5/7.5: AISI420SS
31a	Bearing	Ball bearing (NSK)
31b	Bearing	Ball bearing (NSK)
33	Motor protection	integrated up to 7.5 kW
34	Mechanical seal	SiC-SiC / Carbon/Ceramic
35	Oil seal	
47	Cable	H07RN-F



Performance Curve

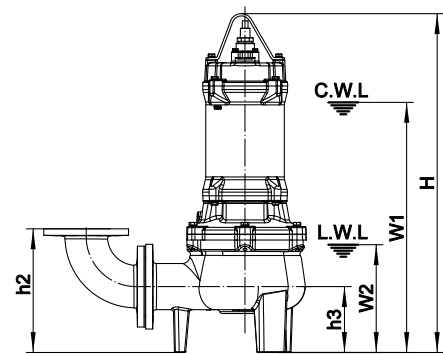
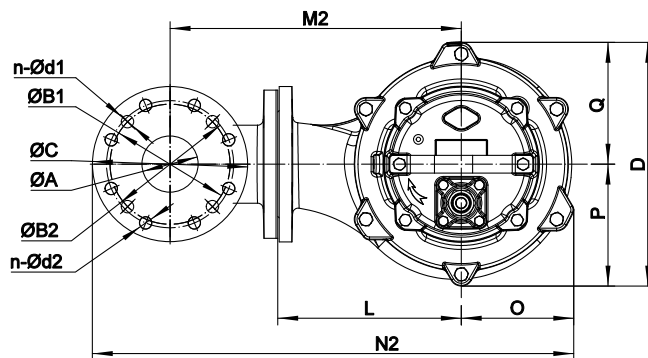


Model	Q (m³/h)	18	36	54	72	90	108	126	144
100MAE41.5(F)	H (m)	8.4	6.9	5.6	4.3	2.8	-	-	-
100MAE42.2		10.8	9.1	7.8	6.6	5.3	4	-	-
100MAE43.7		15.2	13.3	11.6	10.2	9	7.7	6	-
100MAE45.5		18.4	16.9	15.7	14.4	13	11.7	10.5	9
100MAE47.5		21.6	19.5	17.9	16.8	15.8	14.8	13.6	12.5

Model	Motor power		Discharge		Optimal flow rate and head		Max. flow rate and head		Free passage
	kW	HP	mm	Inch	m³/h	m	m³/h	m	mm
100MAE41.5(F)	1.5	2	100	4	60	5	96	11	76
100MAE42.2	2.2	3	100	4	60	7	115	13	76
100MAE43.7	3.7	5	100	4	60	11	135	18	76
100MAE45.5	5.5	7.5	100	4	60	15	162	21	76
100MAE47.5	7.5	10	100	4	60	17	185	24	76

Model	N.W	Packaging	Full-load current (A)					
	kg	mm	1x 230V	3x 220V	3x 380V	3x 400V	3x 415V	3x 525V
100MAE41.5(F)	59	785×315×430	10	-	-	-	-	-
100MAE41.5	55	735×315×430	-	6.8	3.8	3.7	3.7	2.9
100MAE42.2	61	735×315×430	-	9.7	5.4	5.3	5.3	4.1
100MAE43.7	79	795×335×445	-	15	8.5	8.3	8.3	6.4
100MAE45.5	118	905×410×575	-	21.3	12.1	11.7	11.7	9
100MAE47.5	130	905×410×575	-	28.6	16.2	15.7	15.7	12

Dimensions with discharge elbow



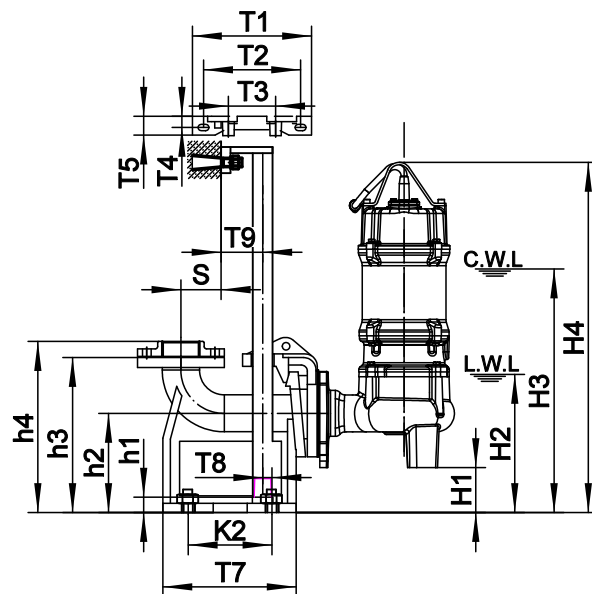
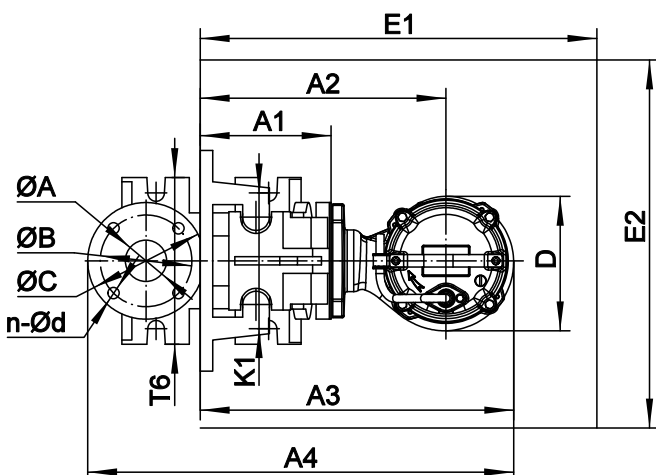
C.W.L.: Continuous water level

L.W.L.: Lowest water level

Model	Double flange elbow	ØA	ØB1	n-Ød1	ØB2	n-Ød2	ØC	h2	h3	W1
100MAE41.5(F)	4"(PN6)-4"(PN6 & PN10)	100	170	4-Ø18	180	8-Ø18	220	322	172	510
100MAE41.5	4"(PN6)-4"(PN6 & PN10)	100	170	4-Ø18	180	8-Ø18	220	322	172	485
100MAE42.2	4"(PN6)-4"(PN6 & PN10)	100	170	4-Ø18	180	8-Ø18	220	322	172	510
100MAE43.7	4"(PN6)-4"(PN6 & PN10)	100	170	4-Ø18	180	8-Ø18	220	322	172	570
100MAE45.5	4"(PN6)-4"(PN6 & PN10)	100	170	4-Ø18	180	8-Ø18	220	347	197	630
100MAE47.5	4"(PN6)-4"(PN6 & PN10)	100	170	4-Ø18	180	8-Ø18	220	347	197	630

Model	W2	H	O	P	Q	L	D	M2	N2
100MAE41.5(F)	230	737	137	149	135	205	284	358	604
100MAE41.5	230	668	137	149	135	205	284	358	604
100MAE42.2	230	693	137	149	135	205	284	358	604
100MAE43.7	230	750	145	158	143	215	301	368	622
100MAE45.5	255	860	182	196	181	260	377	413	704
100MAE47.5	255	860	182	196	181	260	377	413	704

Guide Rail Coupling Dimensions



C.W.L.: Continuous water level

L.W.L.: Lowest water level

Guide rail coupling	ØA	ØB	ØC	n-Ød
50-50(PN6)	50	110	140	4-Ø14
65-65(PN6)	65	130	160	4-Ø14
80-80(PN10)	80	150	190	4-Ø18
100-100(PN10)	100	170	210	4-Ø18
150-150(PN10)	150	225	285	8-Ø18

Model	Guide rail coupling	T1	T2	T3	T4	T5	T6	T7	T8	T9	K1
100MAE41.5(F)	100-100(PN10)	365	305	170	30	55	293	262	34	95	265
100MAE41.5	100-100(PN10)	365	305	170	30	55	293	262	34	95	265
100MAE42.2	100-100(PN10)	365	305	170	30	55	293	262	34	95	265
100MAE43.7	100-100(PN10)	365	305	170	30	55	293	262	34	95	265
100MAE45.5	100-100(PN10)	365	305	170	30	55	293	262	34	95	265
100MAE47.5	100-100(PN10)	365	305	170	30	55	293	262	34	95	265

Model	K2	S	h1	h2	h3	h4	H1	H2	H3	H4	A1	A2	A3	A4	D	E1×E2
100MAE41.5(F)	176	97	23	225	350	381	53	283	563	791	203	408	545	747	284	750×550
100MAE41.5	176	97	23	225	350	381	53	283	538	720	203	408	545	747	284	750×550
100MAE42.2	176	97	23	225	350	381	53	283	563	746	203	408	545	747	284	750×550
100MAE43.7	176	97	23	225	350	381	53	283	623	803	203	418	563	765	301	750×550
100MAE45.5	176	97	23	225	350	381	28	283	658	888	203	463	645	847	377	750×550
100MAE47.5	176	97	23	225	350	381	28	283	658	888	203	463	645	847	377	750×550

MAE • Single-channel impeller • 5.5 kW ~ 7.5 kW • DN 150

50Hz (synchronous speed: 1500 rpm) 4-pole

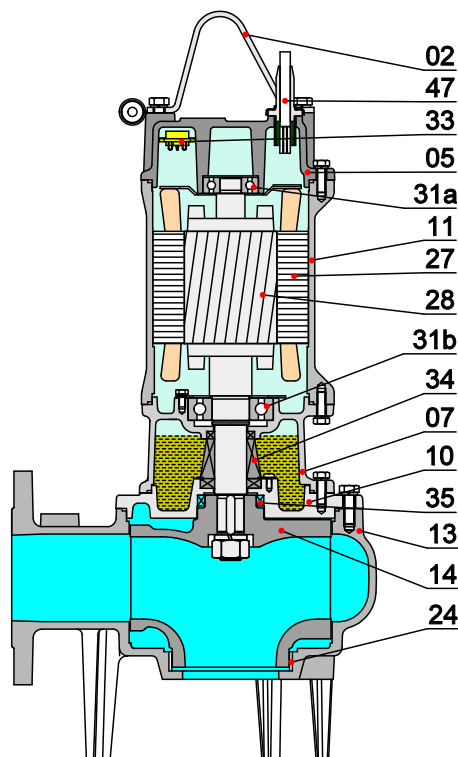
Technical Data

- Impeller type: single-channel impeller
- Free passage: 76 mm
- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40°C
- pH value: 6 to 10
- Discharge: DN 150
- Flow rate: up to 228 m³/h
- Head: up to 24 m
- Motor protection: integrated up to 7.5 kW
- Maximum submersion depth: 10 m

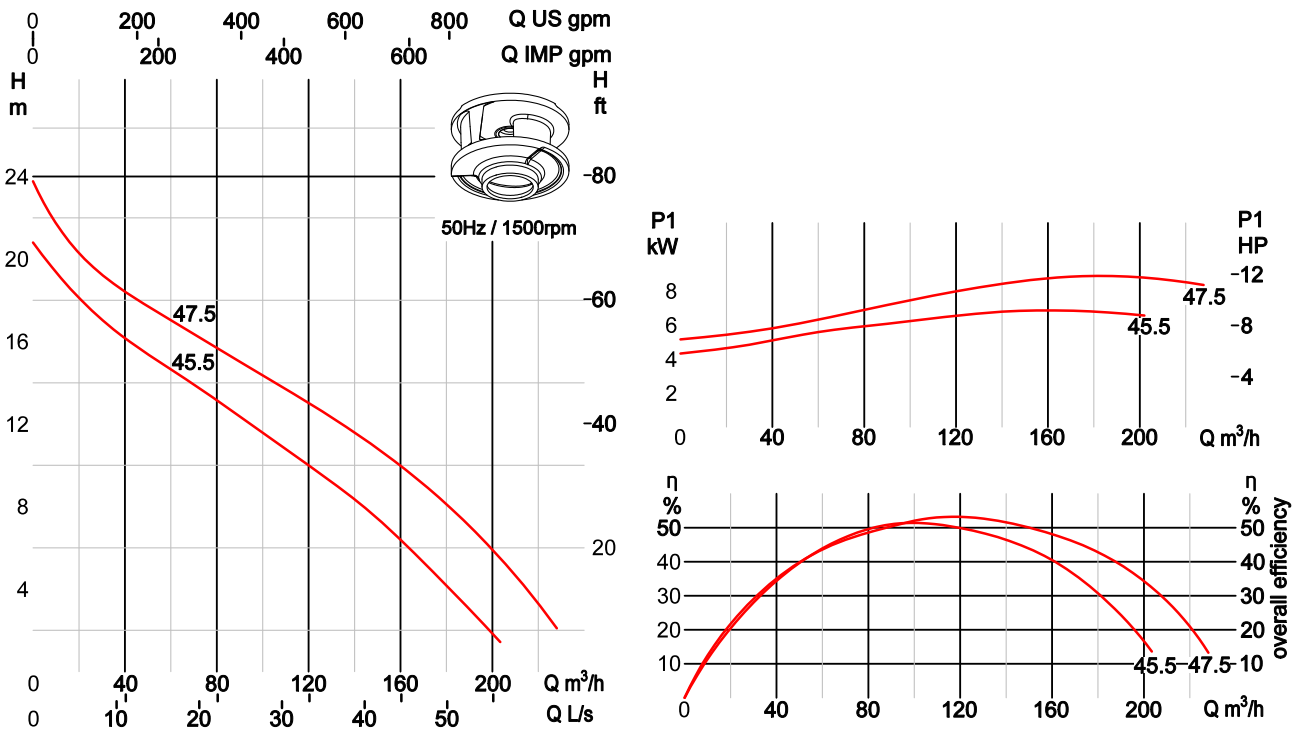


Parts List

Pos. No.	Component	Material
02	Handle	Steel
05	Top cover	Cast iron
07	Bearing housing	Cast iron
10	Seal holder	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14	Impeller	Ductile cast iron
24	Wear ring	AISI304SS
27	Stator	
28	Rotor	Shaft: AISI304SS D-K5.5/7.5: AISI420SS
31a	Bearing	Ball bearing (NSK)
31b	Bearing	Ball bearing (NSK)
33	Motor protection	integrated up to 7.5 kW
34	Mechanical seal	SiC-SiC/Carbon/Ceramic
35	Oil seal	
47	Cable	H07RN-F



Performance Curve

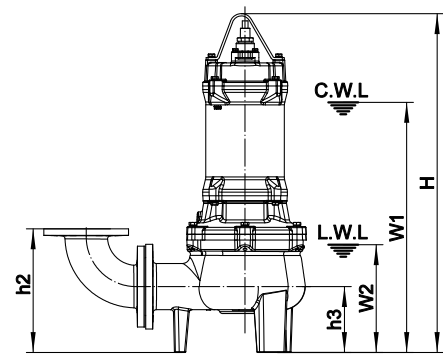
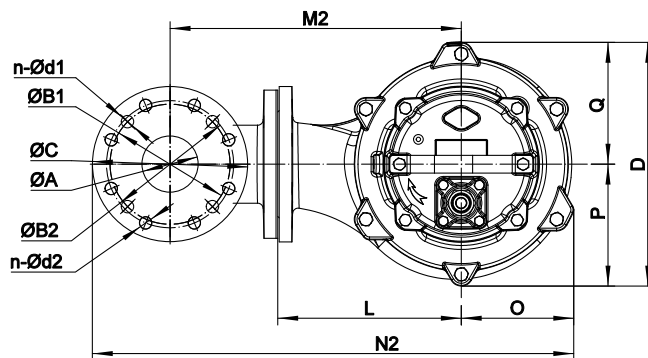


Model	Q (m³/h)	24	48	72	96	120	144	168	192
150MAE45.5	H	17.7	15.5	13.8	11.8	10	8	5.5	2.8
150MAE47.5	(m)	19.8	17.8	16.2	14.6	13	11.3	9.3	6.8

Model	Motor power		Discharge		Optimal flow rate and head		Max. flow rate and head		Free passage
	kW	HP	mm	Inch	m³/h	m	m³/h	m	mm
150MAE45.5	5.5	7.5	150	6	90	12	204	21	76
150MAE47.5	7.5	10	150	6	90	15	228	24	76

Model	N.W	Packaging	Full-load current (A)				
	kg	mm	220V	380V	400V	415V	525V
150MAE45.5	130	905×410×575	21.3	12.1	11.7	11.7	9
150MAE47.5	142	905×410×575	28.6	16.2	15.7	15.7	12

Dimensions with discharge elbow



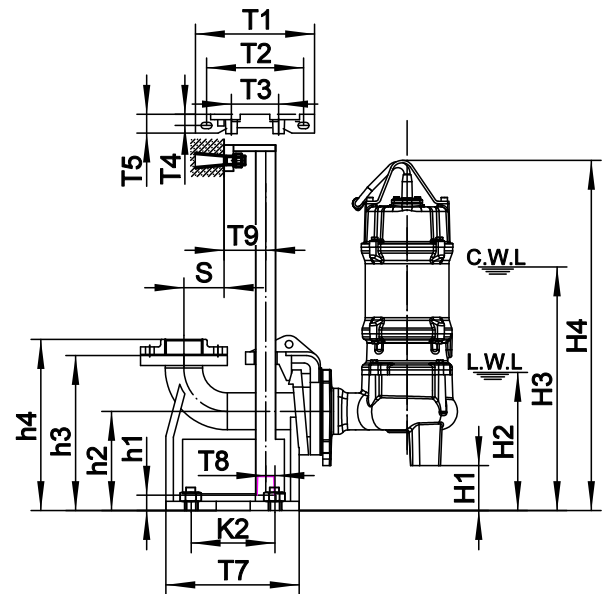
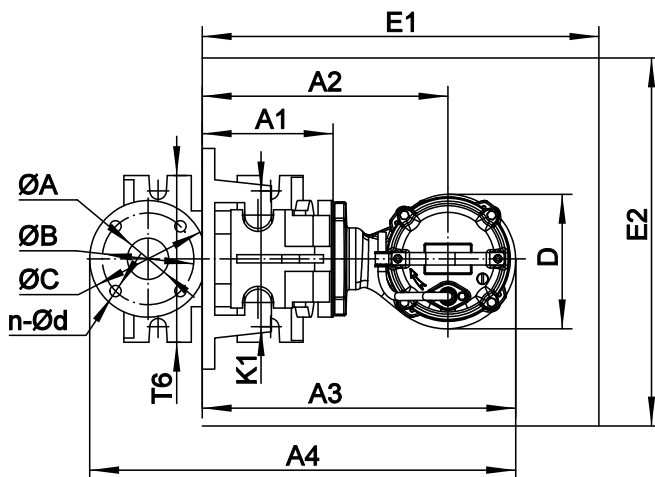
C.W.L.: Continuous water level

L.W.L.: Lowest water level

Model	Double flange elbow	$\varnothing A$	$\varnothing B1$	$n-\varnothing d1$	$\varnothing B2$	$n-\varnothing d2$	$\varnothing C$	$h2$	$h3$	$W1$
150MAE45.5	6"(PN6)-6"(PN6 & PN10)	150	225	8- $\varnothing 18$	240	8- $\varnothing 22$	285	397	197	630
150MAE47.5	6"(PN6)-6"(PN6 & PN10)	150	225	8- $\varnothing 18$	240	8- $\varnothing 22$	285	397	197	630

Model	$W2$	H	O	P	Q	L	D	$M2$	$N2$
150MAE45.5	255	860	182	196	181	260	377	576	900
150MAE47.5	255	860	182	196	181	260	377	576	900

Guide Rail Coupling Dimensions



C.W.L.: Continuous water level

L.W.L.: Lowest water level

Guide rail coupling	ØA	ØB	ØC	n-Ød
50-50(PN6)	50	110	140	4-Ø14
65-65(PN6)	65	130	160	4-Ø14
80-80(PN10)	80	150	190	4-Ø18
100-100(PN10)	100	170	210	4-Ø18
150-150(PN10)	150	225	285	8-Ø18

Model	Guide rail coupling	T1	T2	T3	T4	T5	T6	T7	T8	T9	K1	K2	S	h1
150MAE45.5	150-150(PN10)	400	260	280	24	48	360	410	90	95	285	300	195	390
150MAE47.5	150-150(PN10)	400	260	280	24	48	360	410	90	95	285	300	195	390

Model	h1	h2	h3	h4	H1	H2	H3	H4	A1	A2	A3	A4	D	E1×E2
150MAE45.5	390	300	480	-	103	358	733	963	203	661	844	1182	377	1000×600
150MAE47.5	390	300	480	-	103	358	733	963	203	661	844	1182	377	1000×600

MAE • Single-channel impeller • Female thread type

2-pole

Power: 0.75 kW ~ 1.5 kW

50Hz (synchronous speed: 3000rpm)

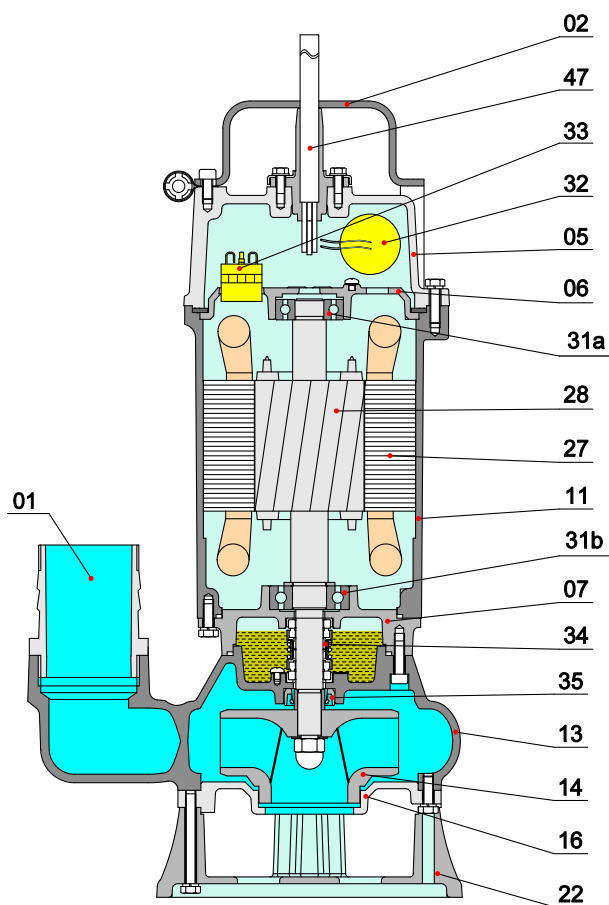
Technical Data

- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40°C
- pH value: 6 to 10
- Density of pumped medium: up to 1.3 g/cm³
- Power supply:
Three-phase 400V ± 10%, 50Hz
Single-phase 230V ± 10%, 50Hz
- Motor protection: integrated
- Flow rate: up to 37 m³/h
- Head: up to 21 m
- Maximum submersion depth: 10 m
- Cable length: 10 m, H07RN-F

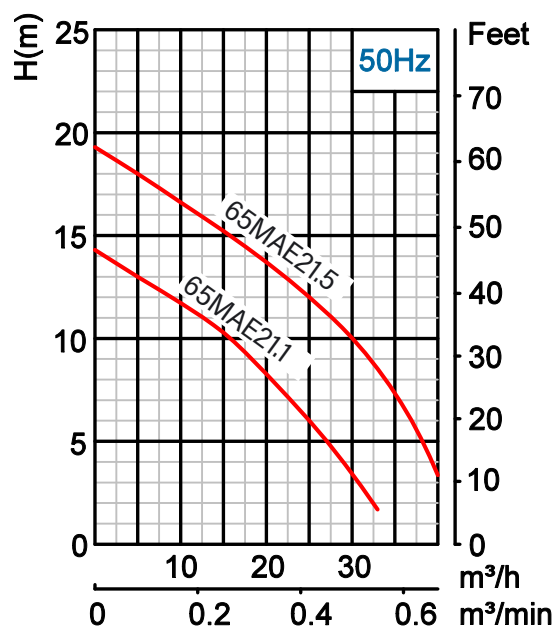
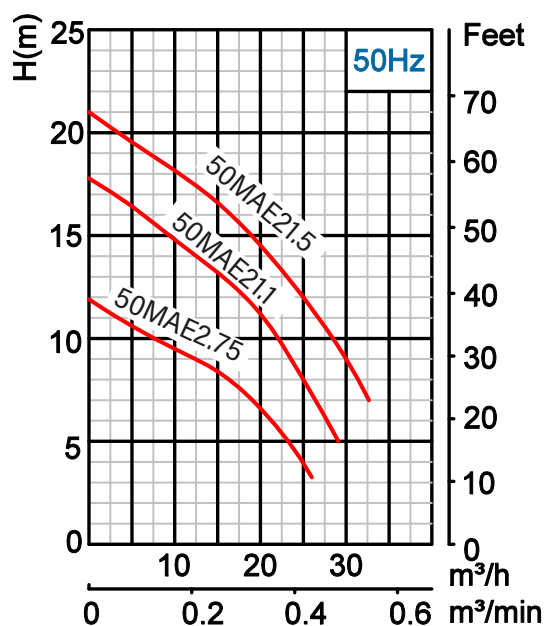


Parts List

Pos. No.	Component	Material
01	Discharge	Cast iron
02	Handle	Steel
05	Top cover	Cast iron
06	Upper bearing housing	Cast iron
07	Bearing housing	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14	Impeller	Cast iron
16	Inlet plate	Cast iron
22	Seat unit	Cast iron
27	Stator	
28	Rotor	Shaft: AISI304SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
32	Capacitor	(single-phase only)
33	Motor protection	
34	Mechanical seal	SiC-ceramic / Carbon/Ceramic
35	Oil seal	
47	Cable	H07RN-F / 10 m

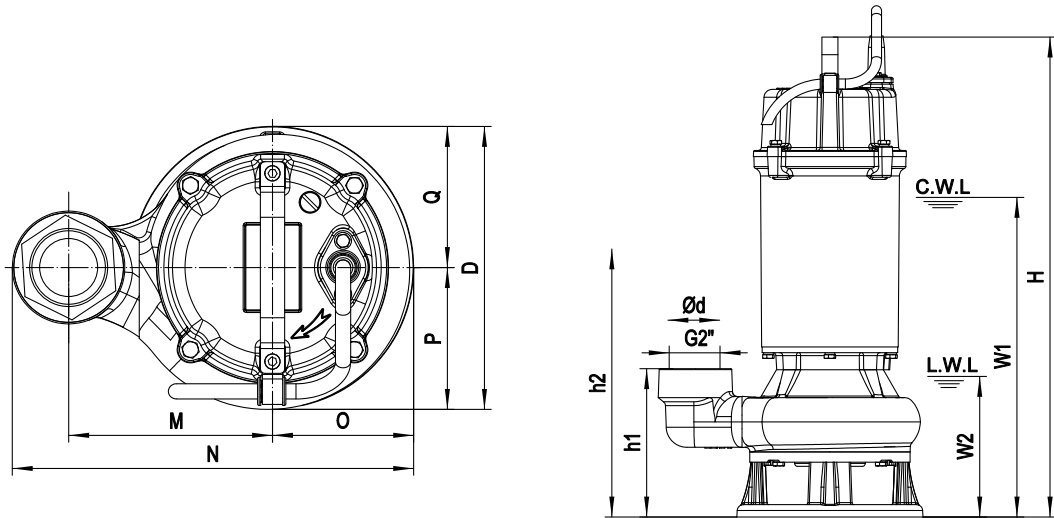


Performance Curve



Model (50Hz)	Voltage and rated current		Discharge		Motor power		Optimal flow rate and head		Max. flow rate and head		Free passage	Cable H07RN-F 10 m
	V	A	mm	Inch	kW	HP	m³/h	m	m³/h	m	mm	mm²
50MAE2.75	400	2.0	50	2"	0.75	1.0	10	10	26	12	25	1.0
50MAE2.75	230	5.2	50	2"	0.75	1.0	10	10	26	12	25	1.0
50MAE21.1	400	2.8	50	2"	1.10	1.5	8	15	29	18	20	1.0
50MAE21.1	230	7.2	50	2"	1.10	1.5	8	15	29	18	20	1.0
65MAE21.1	400	2.8	65	2 1/2"	1.10	1.5	15	10	33	15	25	1.0
65MAE21.1	230	7.2	65	2 1/2"	1.10	1.5	15	10	33	15	25	1.0
50MAE21.5	400	3.2	50	2"	1.50	2.0	8	19	33	21	20	1.0
50MAE21.5	230	10.0	50	2"	1.50	2.0	8	19	33	21	20	1.5
65MAE21.5	400	3.2	65	2 1/2"	1.50	2.0	15	15	37	20	25	1.0
65MAE21.5	230	10.0	65	2 1/2"	1.50	2.0	15	15	37	20	25	1.5

Dimensions



C.W.L.: Continuous water level

L.W.L.: Lowest water level

Model	Ød	h1	h2	W1	W2	H	O	P	Q	D	M	N	N.W kg	G.W kg	Packaging
50MAE2.75	50	137	200	300	120	450	90	96	90	186	115	241	18.5	20.0	480×255×240
50MAE2.75	50	137	200	315	120	450	90	96	90	186	115	241	19.5	21.0	480×255×240
50MAE21.1	50	143	206	325	120	464	90	90	90	180	130	256	22.0	23.5	495×255×240
50MAE21.1	50	143	206	325	120	464	90	90	90	180	130	256	23.0	24.5	495×255×240
65MAE21.1	65	143	203	325	120	464	90	90	90	180	130	256	22.0	23.5	495×255×240
65MAE21.1	65	143	203	325	120	464	90	90	90	180	130	256	23.0	24.5	495×255×240
50MAE21.5	50	143	206	345	120	484	90	90	90	180	130	256	23.5	25.0	515×255×240
50MAE21.5	50	143	206	345	120	484	90	90	90	180	130	256	26.0	27.5	515×255×240
65MAE21.5	65	143	203	345	120	484	90	90	90	180	130	256	23.5	25.0	515×255×240
65MAE21.5	65	143	203	345	120	484	90	90	90	180	130	256	26.0	27.5	515×255×240

MAE • Single-channel Impeller • 0.75 kW ~ 1.5 kW

Power: 0.75 kW ~ 1.5 kW

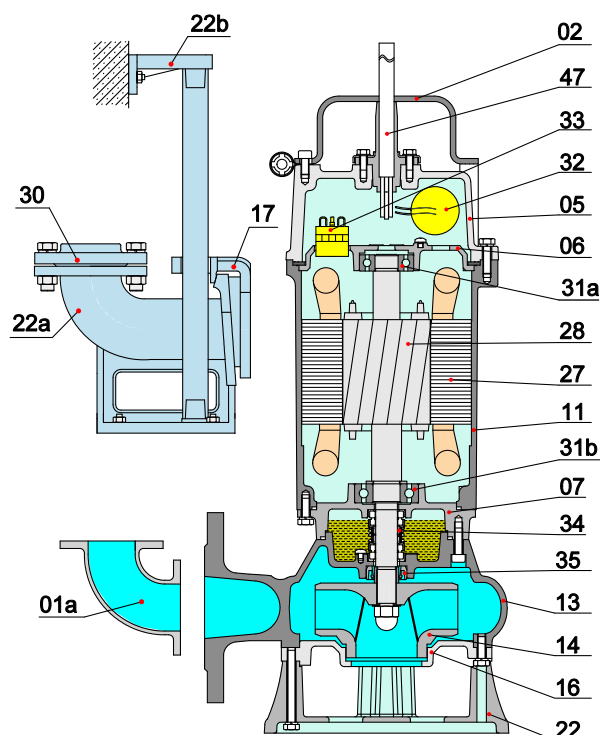
50Hz (synchronous speed: 3000 rpm) 2-pole

Technical Data

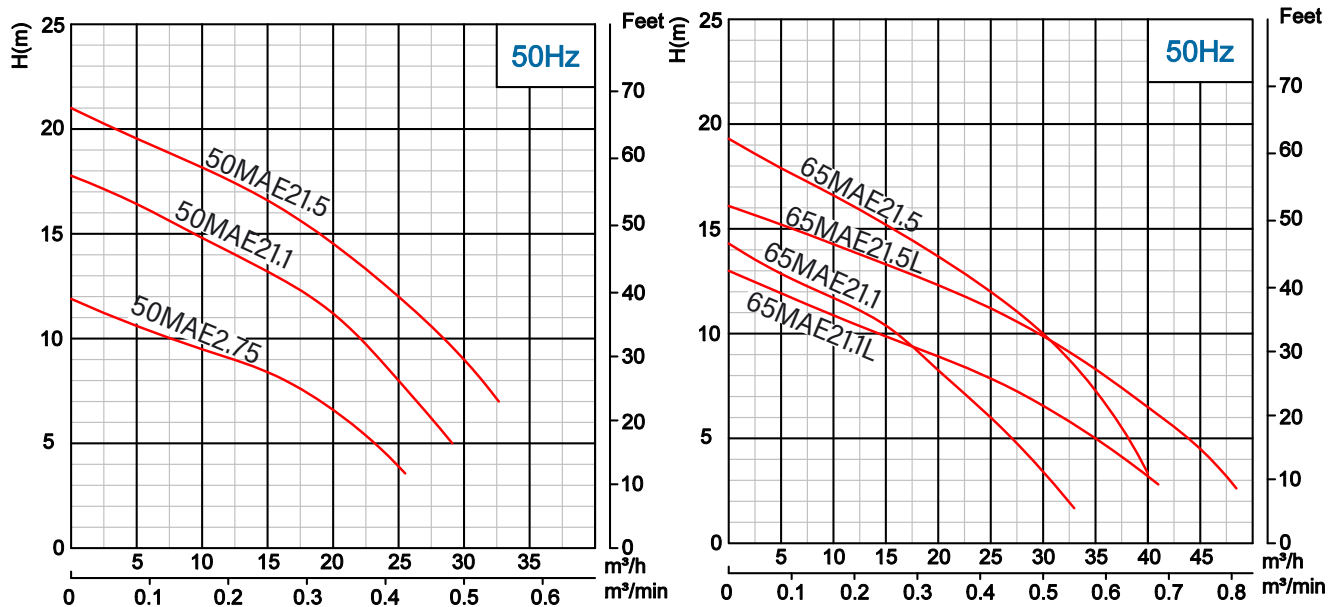
- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40°C
- pH value: 6 to 10
- Density of pumped medium: up to 1.3 g/cm³
- Power supply:
Three-phase 400V ± 10%, 50Hz
Single-phase 230V ± 10%, 50Hz
- Motor protection: integrated
- Flow rate: up to 48 m³/h
- Head: up to 21 m
- Maximum submersion depth: 10 m
- Cable length: 10 m, H07RN-F

Parts List

Pos. No..	Component	Material
01	Discharge	Cast iron
01a	Discharge connection	Cast iron
02	Handle	Steel
05	Top cover	Cast iron
06	Upper bearing housing	Cast iron
07	Bearing housing	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14	Impeller	Cast iron
16	Inlet plate	Cast iron
17	Coupling adapter	Cast iron
22	Seat unit	Cast iron
22a	Guide rail coupling	Cast iron
22b	Upper guide holder	Cast iron
27	Stator	
28	Rotor	Shaft: AISI304SS
30	Flange	Cast iron
31a /b	Bearing	Ball bearing
32	Capacitor	(single-phase only)
33	Motor protection	
34	Mechanical seal	SiC/Ceramic
35	Oil seal	
47	Cable	H07RN-F / 10 m

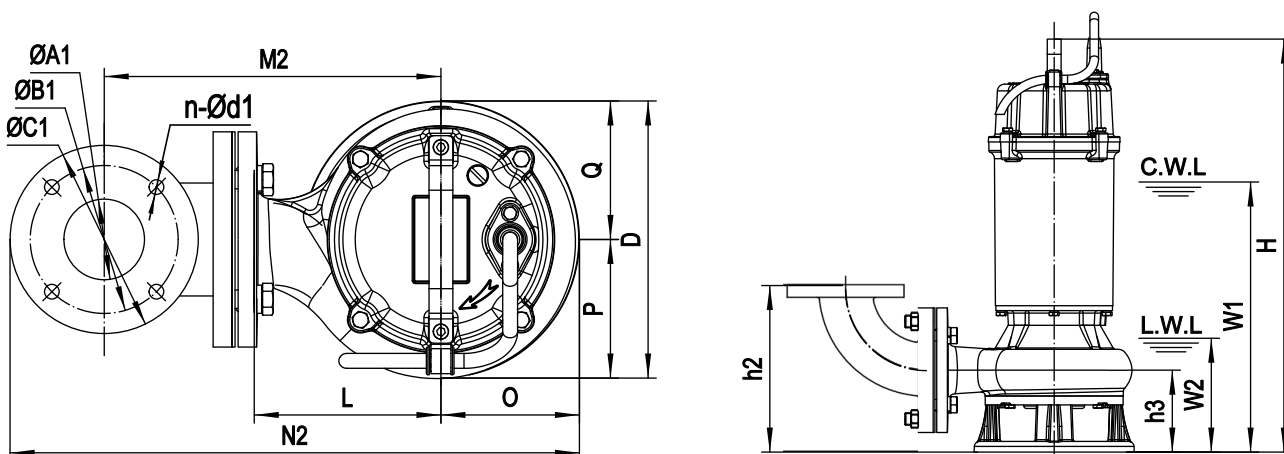


Performance Curve



Model (50Hz)	Voltage and rated current		Discharge		Motor power		Optimal flow rate and head		Max. flow rate and head		Free passage	Cable H07RN-F 10 m
	V	A	mm	Inch	kW	HP	m³/h	m	m³/h	m	mm	mm²
50MAE2.75	400	2.0	50	2"	0.75	1.0	10	10	26	12	25	1.0
50MAE2.75F	230	5.2	50	2"	0.75	1.0	10	10	26	12	25	1.0
50MAE21.1	400	2.8	50	2"	1.10	1.5	8	15	29	18	20	1.0
50MAE21.1F	230	7.2	50	2"	1.10	1.5	8	15	29	18	20	1.0
65MAE21.1	400	2.8	65	2 1/2"	1.10	1.5	15	10	33	15	25	1.0
65MAE21.1F	230	7.2	65	2 1/2"	1.10	1.5	15	10	33	15	25	1.0
65MAE21.1L	400	2.8	65	2 1/2"	1.10	1.5	25	8	41	13	25	1.0
65MAE21.1LF	230	7.2	65	2 1/2"	1.10	1.5	25	8	41	13	25	1.0
50MAE21.5	400	3.2	50	2"	1.50	2.0	8	19	33	21	20	1.0
50MAE21.5F	230	10.0	50	2"	1.50	2.0	8	19	33	21	20	1.5
65MAE21.5	400	3.2	65	2 1/2"	1.50	2.0	15	15	37	20	25	1.0
65MAE21.5F	230	10.0	65	2 1/2"	1.50	2.0	15	15	37	20	25	1.5
65MAE21.5L	400	3.2	65	2 1/2"	1.50	2.0	25	11	48	16	25	1.0
65MAE21.5LF	230	10.0	65	2 1/2"	1.50	2.0	25	11	48	16	25	1.5

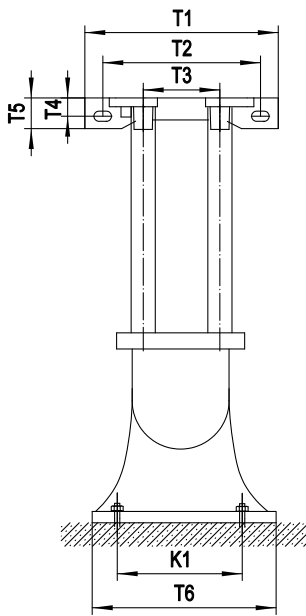
Dimensions with discharge elbow



Model	Ød	G	ØA1	ØB1	ØC1	n-Ød1	h1	h2	h3	W1	W2	H	O	P
50MAE2.75	50	1 1/2"	50	110	140	4-Ø14	200	195	95	300	120	450	93	100
50MAE2.75F	50	1 1/2"	50	110	140	4-Ø14	200	195	95	315	120	450	93	100
50MAE21.1	50	1 1/2"	50	110	140	4-Ø14	197	192	92	325	120	464	90	90
50MAE21.1F	50	1 1/2"	50	110	140	4-Ø14	197	192	92	325	120	464	90	90
65MAE21.1	65	2"	50	130	160	4-Ø14	212	192	92	325	120	464	90	90
65MAE21.1F	65	2"	50	130	160	4-Ø14	212	192	92	325	120	464	90	90
65MAE21.1L	65	2"	65	130	160	4-Ø14	214	214	94	325	120	470	93	99
65MAE21.1LF	65	2"	65	130	160	4-Ø14	214	214	94	325	120	470	93	99
50MAE21.5	50	1 1/2"	50	110	140	4-Ø14	197	192	92	345	120	484	90	90
50MAE21.5F	50	1 1/2"	50	110	140	4-Ø14	197	192	92	345	120	484	90	90
65MAE21.5	65	2"	50	130	160	4-Ø14	212	192	92	345	120	484	90	90
65MAE21.5F	65	2"	50	130	160	4-Ø14	212	192	92	345	120	484	90	90
65MAE21.5L	65	2"	65	130	160	4-Ø14	214	214	94	345	120	490	93	99
65MAE21.5LF	65	2"	65	130	160	4-Ø14	214	214	94	345	120	490	93	99

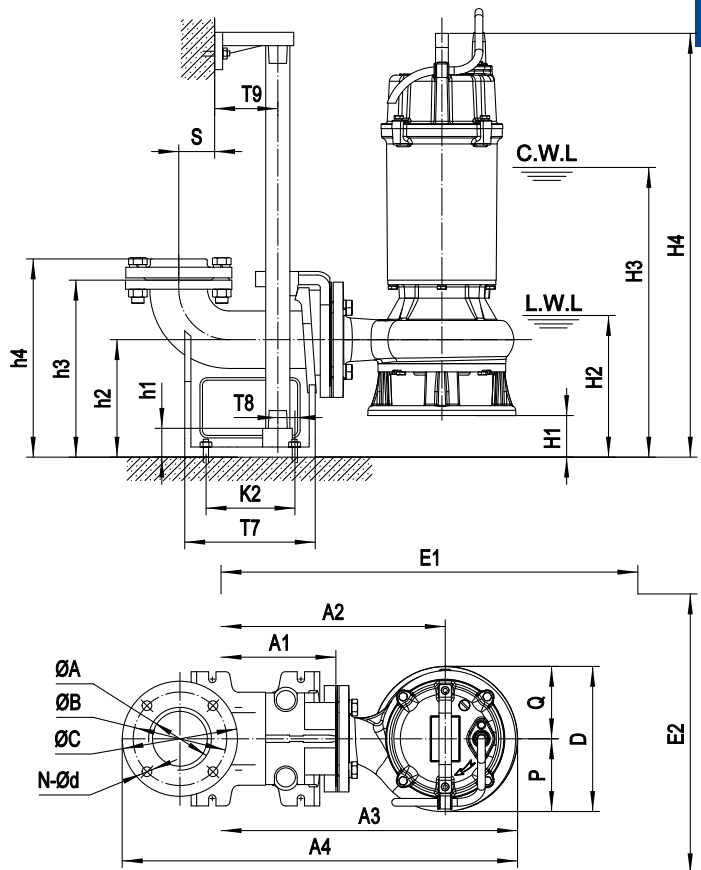
Model	Q	L	D	M1	M2	N1	N2	N.W / kg	G.W / kg	Packaging mm
50MAE2.75	90	129	190	195	231	314	394	24.0	25.5	480×265×310
50MAE2.75F	90	129	190	195	231	314	394	25.0	26.5	480×265×310
50MAE21.1	90	134	180	200	236	316	396	26.0	27.5	495×265×310
50MAE21.1F	90	134	180	200	236	316	396	26.5	29.0	495×265×310
65MAE21.1	90	134	180	200	236	323	406	28.0	29.5	495×265×310
65MAE21.1F	90	134	180	200	236	323	406	28.5	30.0	495×265×310
65MAE21.1L	90	135	189	207	257	332	430	30.0	31.5	495×265×310
65MAE21.1LF	90	135	189	207	257	332	430	29.5	31.0	495×265×310
50MAE21.5	90	134	180	200	236	316	396	28.5	30.0	515×265×310
50MAE21.5F	90	134	180	200	236	316	396	31.0	32.5	515×265×310
65MAE21.5	90	134	180	200	236	323	406	27.5	29.0	515×265×310
65MAE21.5F	90	134	180	200	236	323	406	32.5	34.0	515×265×310
65MAE21.5L	90	135	189	207	257	332	430	30.0	31.5	515×265×310
65MAE21.5LF	90	135	189	207	257	332	430	33.0	34.5	515×265×310

Guide Rail Coupling Dimensions



C.W.L.: Continuous water level

L.W.L.: Lowest water level



Guide rail coupling	ØA	ØB	ØC	N-Ød	T1	T2	T3	T4	T5	T6	T7	T8	T9	K1	K2	S	h1	h2	h3	h4
TO 50 -50(PN6)	Ø50 / G2"	110	140	4-Ø14	265	215	105	22	42	200	215	15	67	163	135	65	25	160	250	276
TO 65 -65(PN6)	Ø65 / G2½"	130	160	4-Ø14	280	235	125	25	50	230	235	20	70	190	155	90	25	170	265	291

Model	Guide rail coupling	H1	H2	H3	H4	A1	A2	A3	A4	P	Q	D	E1×E2	N.W kg	G.W kg	Packaging mm
50MAE2.75	50- 50(PN6)	65	185	365	515	157	286	379	514	100	90	190	650× 550	20.0	21.5	480×255×240
50MAE21.1	50- 50(PN6)	68	188	393	532	157	291	381	516	90	90	180	650× 550	22.0	23.5	495×255×240
65MAE21.1	50- 50(PN6)	68	188	393	532	157	291	381	516	90	90	180	650× 550	21.0	22.5	495×255×240
65MAE21.1L	65- 65(PN6)	76	200	405	546	157	292	385	555	99	90	189	650× 550	22.5	24.0	495×255×240
50MAE21.5	50- 50(PN6)	68	188	413	552	157	291	381	516	90	90	180	650× 550	24.5	26.0	515×255×240
65MAE21.5	50- 50(PN6)	68	188	413	552	157	291	381	516	90	90	180	650× 550	22.5	24.0	515×255×240
65MAE21.5L	65- 65(PN6)	76	200	425	566	157	292	385	555	99	90	189	650× 550	24.0	25.5	515×255×240
65MAE21.5L	65- 65(PN6)	76	200	425	566	157	292	385	555	99	90	189	650× 550	27.0	28.5	515×255×240

MAE • Single-channel impeller • 2.2 kW ~ 5.5 kW

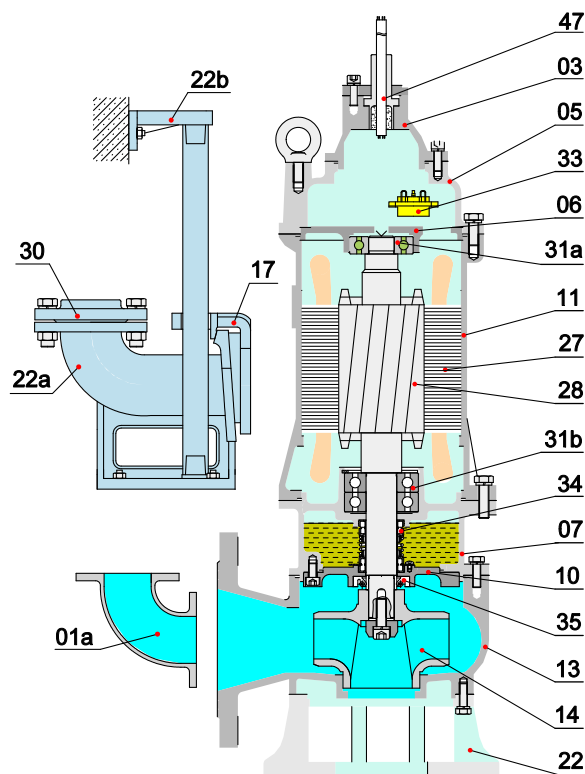
50Hz (synchronous speed: 3000 rpm) 2-pole

Technical Data

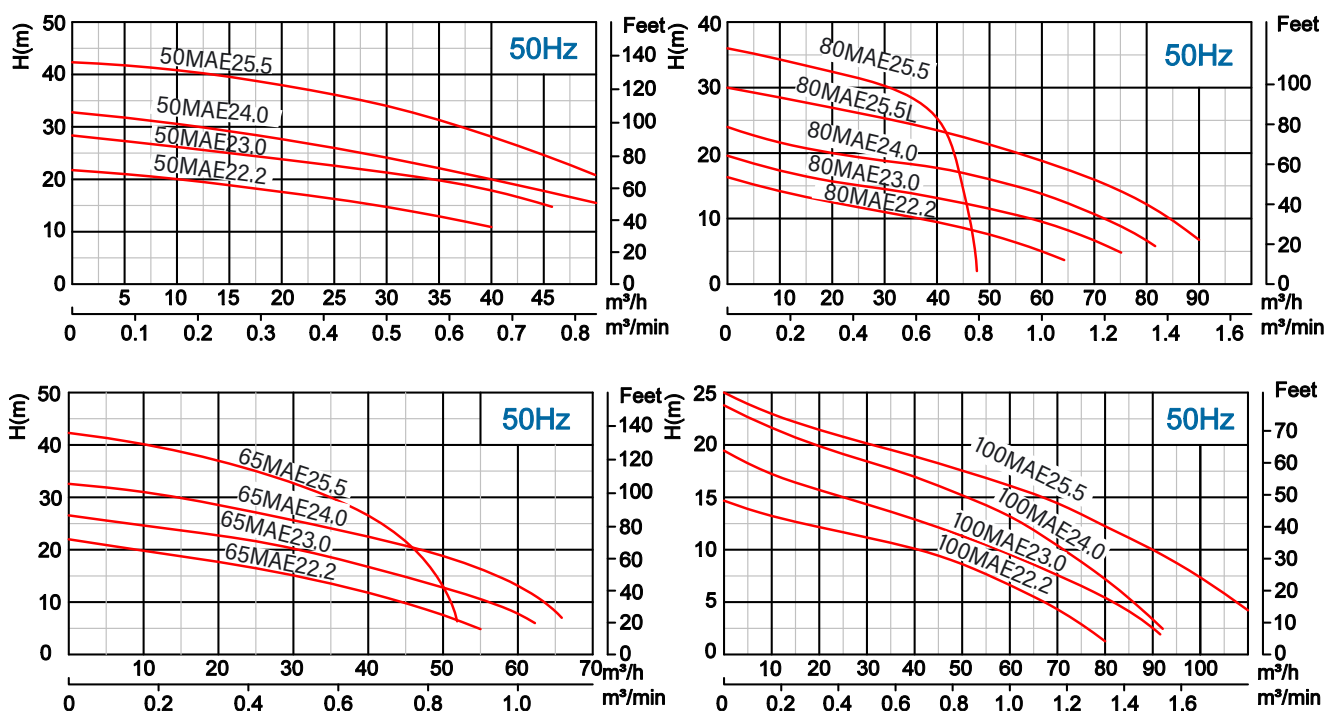
- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40°C
- pH value: 6 to 10
- Density of pumped medium: up to 1.3 g/cm³
- Power supply:
Three-phase 400V ± 10%, 50Hz
- Motor protection: integrated
- Flow rate: up to 110 m³/h
- Head: up to 42 m
- Maximum submersion depth: 10 m
- Cable length: 10 m, H07RN-F

Parts List

Pos. No..	Component	Material
01	Discharge	Cast iron
01a	Discharge connection	Cast iron
03	Terminal box	Cast iron
05	Top cover	Cast iron
06	Upper bearing housing	Cast iron
07	Bearing housing	Cast iron
10	Seal holder	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14	Impeller	Cast iron
17	Coupling adapter	Cast iron
22	Seat unit	Cast iron
22a	Guide rail coupling	Cast iron
22b	Upper guide holder	Cast iron
27	Stator	
28	Rotor	Shaft: AISI304SS
30	Flange	Cast iron
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
33	Motor protection	
34	Mechanical seal	SiC-SiC / Carbon/Ceramic
35	Oil seal	
47	Cable	H07RN-F / 10 m

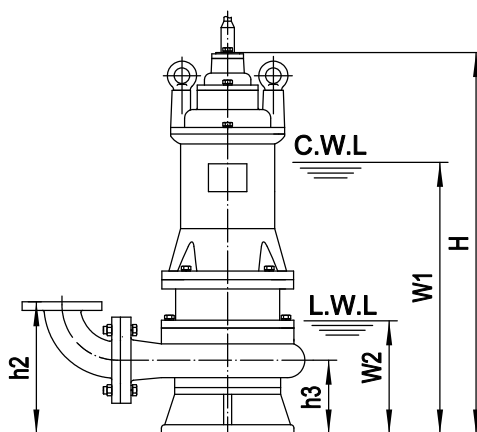
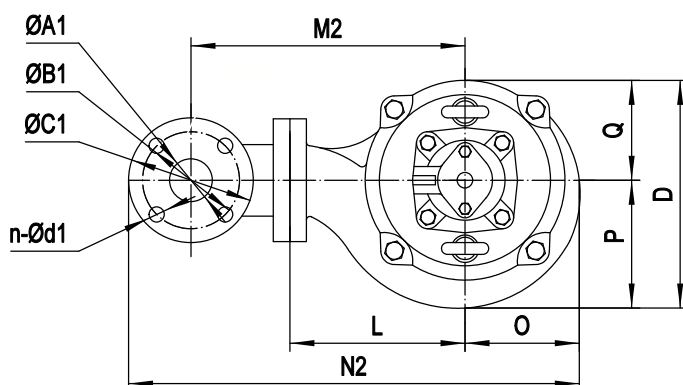


Performance Curve



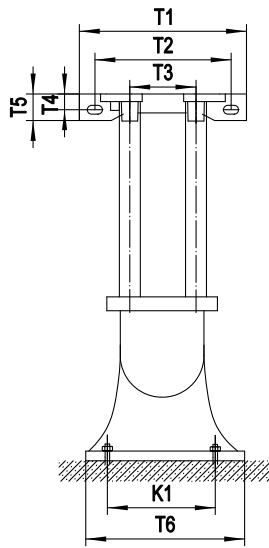
Model (50Hz)	Voltage and rated current		Discharge		Motor power		Optimal flow rate and head		Max. flow rate and head		Free passage	Cable H07RN-F 10 m
	V	A	mm	Inch	kW	HP	m³/h	m	m³/h	m	mm	mm²
50MAE22.2	400	5.0	50	2"	2.2	3.0	15	19	40	22	20	1.0
65MAE22.2	400	5.0	65	2 1/2"	2.2	3.0	25	16	50	22	20	1.0
80MAE22.2	400	5.0	80	3"	2.2	3.0	40	9	64	16	30	1.0
100MAE22.2	400	5.0	100	4"	2.2	3.0	50	8	80	15	30	1.0
50MAE23.0	400	6.5	50	2"	3.0	4.0	15	25	46	28	20	1.5
65MAE23.0	400	6.5	65	2 1/2"	3.0	4.0	25	22	55	26	20	1.5
80MAE23.0	400	6.5	80	3"	3.0	4.0	40	13	75	20	30	1.5
100MAE23.0	400	6.5	100	4"	3.0	4.0	60	9	92	19	30	1.5
50MAE24.0	400	8.9	50	2"	4.0	5.5	15	30	49	33	20	1.5
65MAE24.0	400	8.9	65	2 1/2"	4.0	5.5	25	27	60	33	20	1.5
80MAE24.0	400	8.9	80	3"	4.0	5.5	40	18	81	24	30	1.5
100MAE24.0	400	8.9	100	4"	4.0	5.5	60	13	93	24	30	1.5
50MAE25.5	400	11.7	50	2"	5.5	7.5	15	38	52	42	20	2.5
65MAE25.5	400	11.7	65	2 1/2"	5.5	7.5	25	35	52	42	20	2.5
80MAE25.5	400	11.7	80	3"	5.5	7.5	30	30	47	36	25	2.5
80MAE25.5L	400	11.7	80	3"	5.5	7.5	40	23	89	30	35	2.5
100MAE25.5	400	11.7	100	4"	5.5	7.5	65	15	110	25	30	2.5

Dimensions with discharge elbow



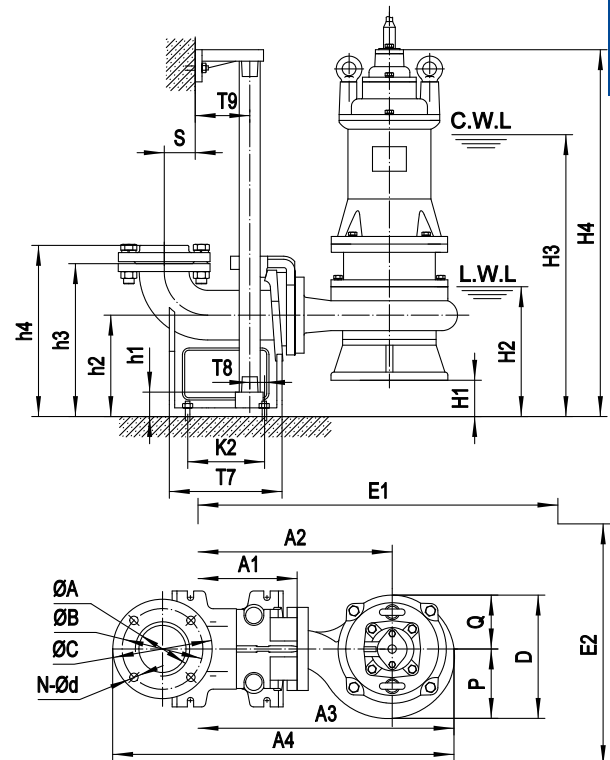
Model	Ø d	G	Ø A1	Ø B1	Ø C1	n-Ø d1	h1	h2	h3	W1	W2	H	O	P	Q	L	D	M1	M2	N1	N2	N.W kg	G.W kg
50MAE 22.2	50	G1 1/2"	50	110	140	4-Ø 14	211	205	106	410	145	573	106	113	100	164	213	230	266	362	442	44	50
65MAE 22.2	65	G2"	65	130	160	4-Ø 14	226	226	106	410	145	573	108	115	100	164	215	236	286	376	474	48	54
80MAE 22.2	80	G2 1/2"	80	150	190	4-Ø 18	257	252	112	415	150	580	108	116	100	160	216	252	302	398	505	51	56
100MAE 22.2	100	-	100	170	210	4-Ø 18	293	272	122	425	160	589	107	116	100	164	216	266	316	422	528	52	57
50MAE 23.0	50	G1 1/2"	50	110	140	4-Ø 14	211	205	105	425	145	600	106	113	100	164	213	230	266	362	442	52	57
65MAE 23.0	65	G2"	65	130	160	4-Ø 14	226	226	105	425	145	600	108	115	100	164	215	236	286	376	474	55	61
80MAE 23.0	80	G2 1/2"	80	150	190	4-Ø 18	268	263	124	450	170	626	108	116	100	154	216	246	296	391	499	59	64
100MAE 23.0	100	-	100	170	210	4-Ø 18	293	272	122	450	170	624	107	116	100	164	216	266	316	422	528	63	69
50MAE 24.0	50	G1 1/2"	50	110	140	4-Ø 14	225	220	121	455	160	616	115	116	115	179	231	245	281	386	466	61	67
65MAE 24.0	65	G2"	65	130	160	4-Ø 14	240	240	121	455	160	616	115	116	115	179	231	251	301	398	496	62	70
80MAE 24.0	80	G2 1/2"	80	150	190	4-Ø 18	278	273	133	480	185	643	115	115	115	160	230	252	302	405	512	66	72
100MAE 24.0	100	-	100	170	210	4-Ø 18	303	283	133	480	185	643	115	115	115	175	230	277	327	441	547	70	76
50MAE 25.5	50	G1 1/2"	50	110	140	4-Ø 14	233	228	128	475	160	667	125	128	125	175	253	241	277	392	472	76	83
65MAE 25.5	65	G2"	65	130	160	4-Ø 14	248	248	128	475	160	667	125	128	125	175	253	247	297	404	502	80	84
80MAE 25.5	80	G2 1/2"	80	150	190	4-Ø 18	274	269	129	495	175	683	125	125	125	175	250	267	317	430	537	81	87
80MAE 25.5L	80	G2 1/2"	80	150	190	4-Ø 18	277	272	132	495	175	687	125	128	125	180	253	272	322	429	537	81	87
100MAE 25.5	100	—	100	170	210	4-Ø 18	305	285	135	505	190	697	129	140	125	181	265	283	333	461	567	87	95

Guide Rail Coupling Dimensions



C.W.L.: Continuous water level

L.W.L.: Lowest water level



Guide rail coupling	ØA	ØB	ØC	N-Ød	T1	T2	T3	T4	T5	T6	T7	T8	T9	K1	K2	S	h1	h2	h3	h4
TO 50-50(PN6)	Ø50 / G2"	110	140	4-Ø14	265	215	105	22	42	200	215	15	67	163	135	65	25	160	250	276
TO 65-65(PN6)	Ø65 / G2 1/2"	130	160	4-Ø18	280	235	125	25	50	230	235	20	70	190	155	90	25	170	265	291
TO 80-80(PN10)	Ø80 / G3"	150	190	4-Ø18	315	265	145	27	50	255	230	35	78	215	155	79	25	185	305	335
TO 100-100(PN10)	Ø100 / G4"	170	210	4-Ø18	365	305	170	30	55	293	262	34	95	265	176	97	23	225	350	381

Model	Guide rail coupling	H1	H2	H3	H4	A1	A2	A3	A4	P	Q	D	E1×E2	N.W kg	G.W kg	Packaging mm
50MAE22.2	50-50	54	199	464	627	157	321	427	562	113	100	213	650×550	40	46	690×260×315
65MAE22.2	65-65	65	210	475	638	157	321	429	599	115	100	215	650×550	42	48	690×260×315
80MAE22.2	80-80	73	223	488	653	183	343	451	625	116	100	216	650×550	42	47	710×260×315
100MAE22.2	100-100	103	263	528	691	203	367	474	676	116	100	216	650×550	42	47	720×260×345
50MAE23.0	50-50	55	200	480	654	157	321	427	562	113	100	213	650×550	48	53	710×260×315
65MAE23.0	65-65	65	210	490	664	157	321	429	599	115	100	215	650×550	48	54	710×260×315
80MAE23.0	80-80	61	231	511	688	183	337	445	619	116	100	216	650×550	50	55	750×240×325
100MAE23.0	100-100	103	273	553	726	203	367	474	676	116	100	216	700×550	51	57	750×260×345
50MAE24.0	50-50	39	200	495	656	157	336	451	586	116	115	231	650×550	57	63	745×260×335
65MAE24.0	65-65	49	209	504	686	157	336	451	621	116	115	231	650×550	55	61	745×260×335
80MAE24.0	80-80	52	237	532	695	183	343	458	632	115	115	230	650×550	57	63	765×260×325
100MAE24.0	100-100	92	277	572	735	203	378	493	695	115	115	230	700×550	58	64	765×260×355
50MAE25.5	50-50	32	192	507	699	157	332	457	592	128	125	253	650×550	72	79	790×290×355
65MAE25.5	65-65	42	200	520	709	157	332	457	627	128	125	253	650×550	73	79	790×290×355
80MAE25.5	80-80	56	230	550	739	183	358	483	657	125	125	250	700×550	72	78	800×290×335
80MAE25.5L	80-80	53	230	550	740	183	363	488	662	128	125	253	700×550	72	78	800×290×335
100MAE25.5	100-100	90	280	595	788	203	384	513	715	140	125	265	700×550	75	83	810×300×375

MAE • Single-channel impeller • 7.5 kW ~ 11 kW

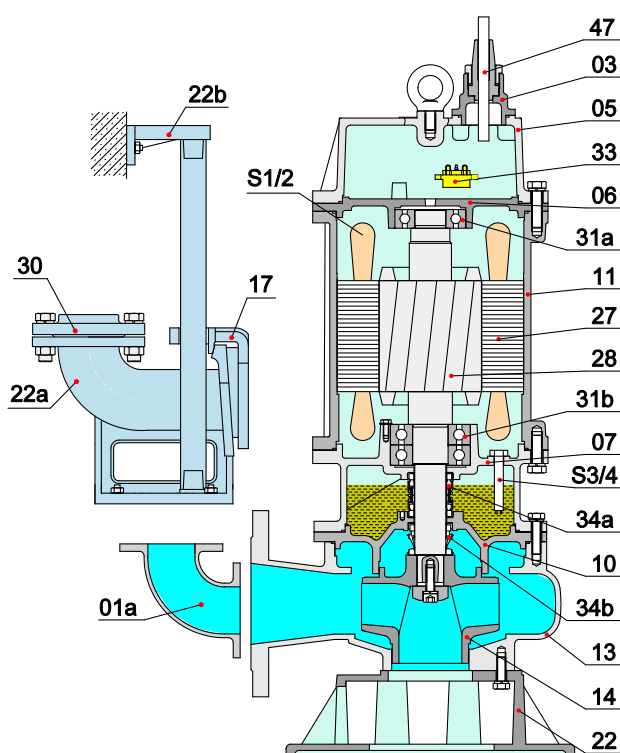
50Hz (synchronous speed: 3000 rpm) 2-pole

Technical Data

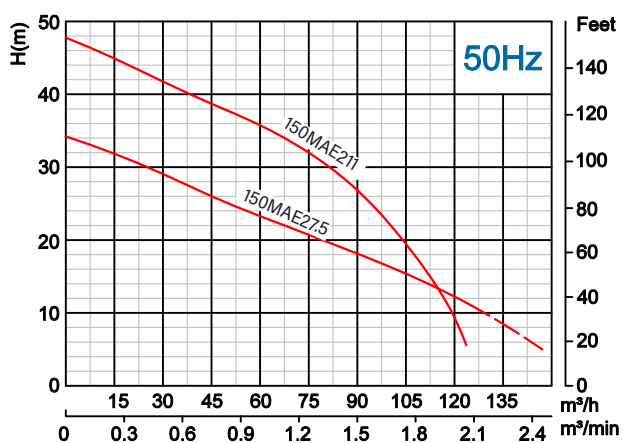
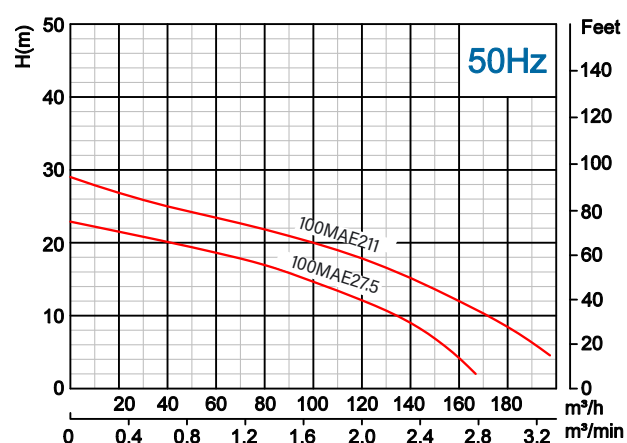
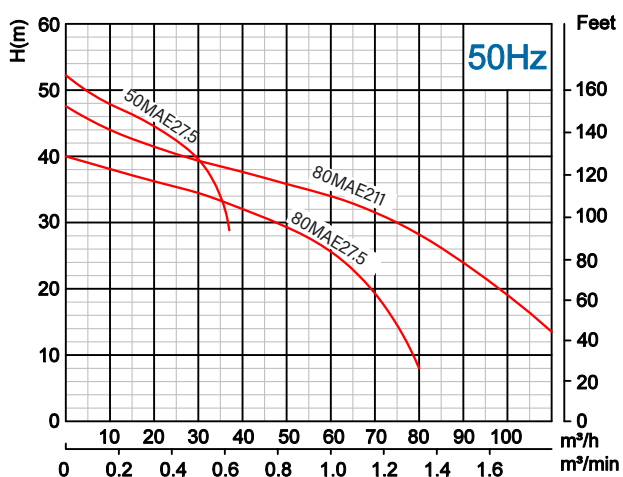
- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40°C
- pH value: 6 to 10
- Density of pumped medium: up to 1.3 g/cm³
- Power supply:
Three-phase 400V ± 10%, 50Hz
- Motor protection: integrated from 7.5 kW
- Flow rate: up to 200 m³/h
- Head: up to 52 m
- Maximum submersion depth: 20 m
- Cable length: 10 m, H07RN-F

Parts List

Pos. No.	Component	Material
01	Discharge	Cast iron
01a	Discharge connection	Cast iron
03	Terminal box	Cast iron
05	Top cover	Cast iron
06	Upper bearing housing	Cast iron
07	Bearing housing	Cast iron
10	Seal holder	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14	Impeller	Ductile cast iron
17	Coupling adapter	Cast iron
22	Seat unit	Cast iron
22a	Guide rail coupling	Cast iron
22b	Upper guide holder	Cast iron
27	Stator	
28	Rotor	Shaft: AISI304SS
30	Flange	Cast iron
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
33	Motor protection	integrated
34a	Mechanical seal	SiC-SiC / Carbon/Ceramic
34b	Mechanical seal	SiC-SiC
47	Cable	H07RN-F / 10 m
S1/2	Overheating protection	optional
S3/4	Oil cleakage sensor	optional

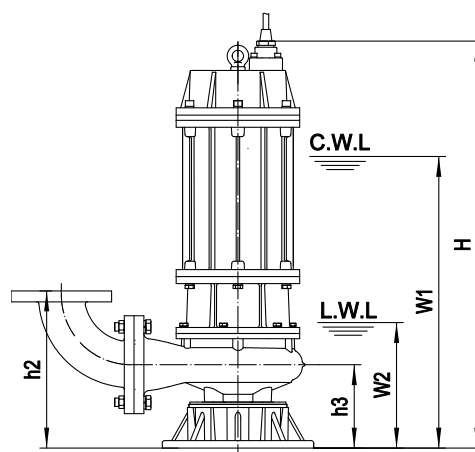
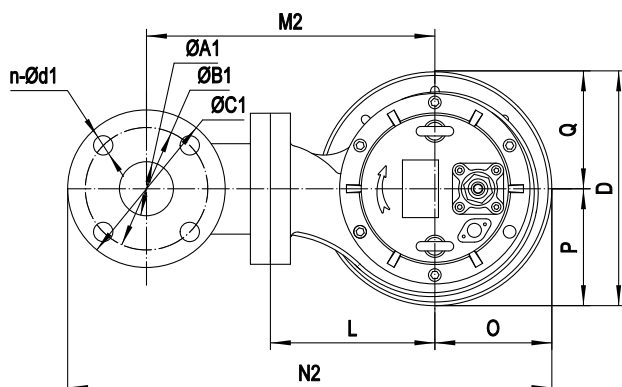


Performance Curve



Model (50Hz)	Voltage and rated current		Discharge		Motor power		Optimal flow rate and head		Max. flow rate and head		Free passage	Cable H07RN-F 10 m
	V	A	mm	Inch	kW	HP	m³/h	m	m³/h	m	mm	mm²
50MAE27.5	400	15.7	50	2"	7.5	10	20	45	37	52	25	4.0
80MAE27.5	400	15.7	80	3"	7.5	10	30	35	80	40	30	4.0
100MAE27.5	400	15.7	100	4"	7.5	10	65	20	145	33	35	4.0
150MAE27.5	400	15.7	150	6"	7.5	10	100	14	155	23	40	4.0
80MAE211	400	22.0	80	3"	11.0	15	45	37	110	48	35	4.0
100MAE211	400	22.0	100	4"	11.0	15	65	33	125	46	35	4.0
150MAE211	400	22.0	150	6"	11.0	15	100	19	185	27	50	4.0

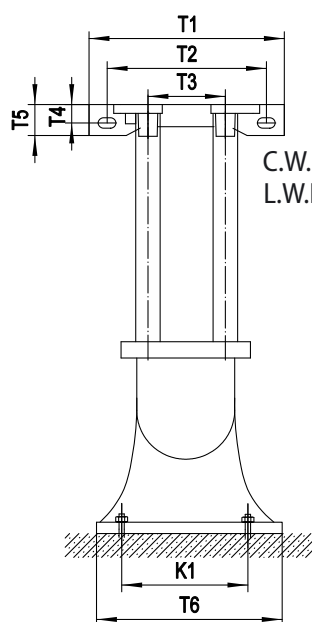
Dimensions with discharge elbow



Model	Ød	G	ØA1	ØB1	ØC1	n-Ød1	h1	h2	h3	W1	W2	H	O	P
50MAE27.5	50	G1 1/2"	50	110	140	4-Ø14	264	259	159	540	210	763	162	162
80MAE27.5	80	G2 1/2"	80	150	190	4-Ø18	303	299	159	540	210	763	162	162
100MAE27.5	100	—	100	170	210	4-Ø18	344	324	174	560	230	784	162	162
150MAE27.5	150	—	150	225	265	8-Ø18	404	379	179	575	245	799	162	162
80MAE211	80	G2 1/2"	80	150	190	4-Ø18	319	314	174	600	230	829	162	162
100MAE211	100	—	100	170	210	4-Ø18	344	324	174	600	230	829	162	162
150MAE211	150	—	150	225	265	8-Ø18	404	379	179	615	245	844	162	162

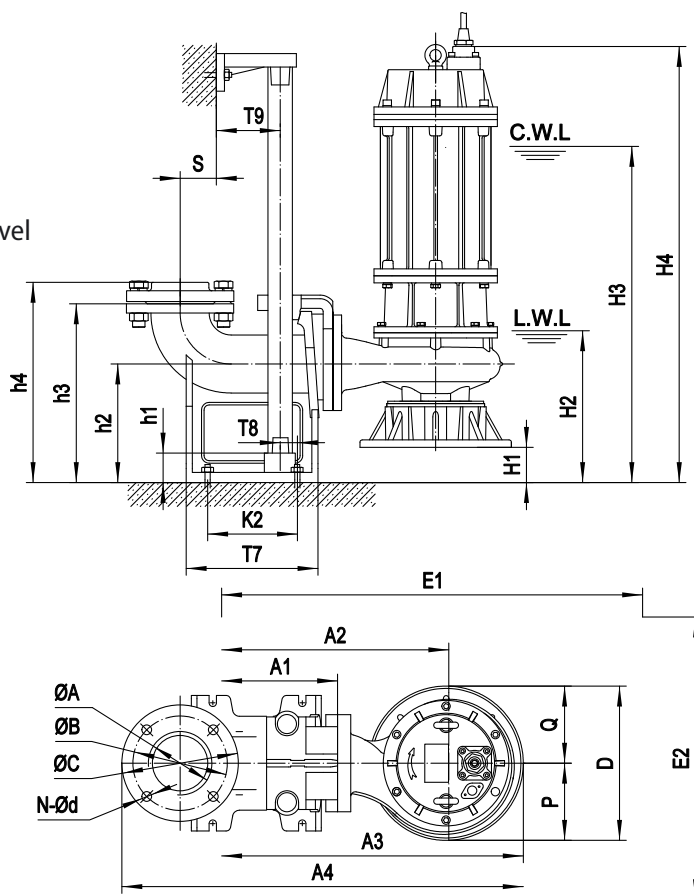
Model	Ød	Q	L	D	M1	M2	N1	N2	N.W kg	G.W kg	Packaging mm
50MAE27.5	50	162	200	324	266	302	454	534	116	129	865×365×485
80MAE27.5	80	162	200	324	292	342	492	599	122	134	865×365×495
100MAE27.5	100	162	202	324	304	354	516	621	128	140	895×365×505
150MAE27.5	150	162	210	324	364	414	600	708	142	154	915×385×545
80MAE211	80	162	202	324	294	344	494	601	135	147	935×365×495
100MAE211	100	162	202	324	304	354	516	621	139	151	935×365×505
150MAE211	150	162	210	324	364	414	600	708	153	165	955×385×545

Guide Rail Coupling Dimensions



C.W.L.: Continuous water level
L.W.L.: Lowest water level

The guide rail coupling and the pump are packed separately. The weights and packaging dimensions shown in the table refer only to the pump. For the weight and packaging dimensions of the coupling, please see the corresponding coupling page.



Guide rail coupling	ØA	ØB	ØC	N-Ød	T1	T2	T3	T4	T5	T6	T7	T8	T9	K1	K2	S	h1	h2	h3	h4
TO 80-80(PN10)	Ø80 / G3"	150	190	4-Ø18	315	265	145	27	50	255	230	35	78	215	155	79	25	185	305	335
TO 100-100(PN10)	Ø100 / G4"	170	210	4-Ø18	365	305	170	30	55	293	262	34	95	265	176	97	23	225	350	381
TO 150-150(PN10)	Ø150	225	285	8-Ø18	400	280	280	24	48	360	410	90	95	285	300	195	390	300	480	—

Model	Guide rail	H1	H2	H3	H4	A1	A2	A3	A4
80MAE27.5	80-80(PN10)	27	237	567	789	183	383	546	720
100MAE27.5	100-100(PN10)	51	281	611	835	203	405	568	770
150MAE27.5	150-150(PN10)	121	366	696	920	288	498	660	998
80MAE211	80-80(PN10)	11	241	611	840	183	385	548	722
100MAE211	100-100(PN10)	51	281	651	880	203	405	568	770
150MAE211	150-150(PN10)	121	366	736	965	288	498	660	998

Model	P	Q	D	E1×E2	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	kg	kg	mm
80MAE27.5	162	162	324	750×550	113	125	865×365×485
100MAE27.5	162	162	324	750×550	116	128	895×365×485
150MAE27.5	162	162	324	850×550	122	134	915×385×535
80MAE211	162	162	324	750×550	126	138	935×365×485
100MAE211	162	162	324	750×550	127	139	935×365×485
150MAE211	162	162	324	750×550	133	145	955×385×535

MAC • Grinder • 0.75 kW ~ 7.5 kW

50Hz (synchronous speed: 3000 rpm) 2-pole

Technical Data

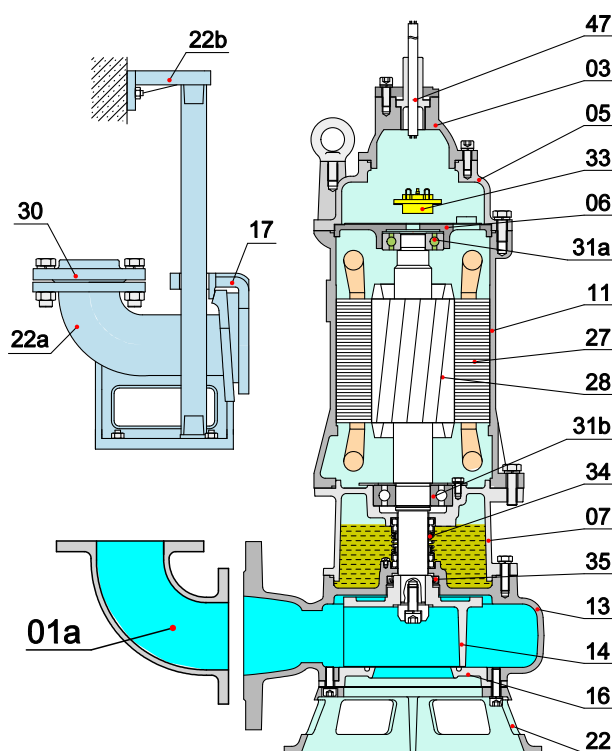
- Impeller type: grinder
- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40°C
- pH value: 6 to 10
- Density of pumped medium: up to 1.3 g/cm³
- Power supply:
Three-phase 400V ± 10%, 50Hz
Single-phase 230V ± 10%, 50Hz
- Motor protection: integrated
- Flow rate: up to 135 m³/h
- Head: up to 30 m
- Maximum submersion depth: 10 m
- Cable length: 10 m, H07RN-F

Parts List

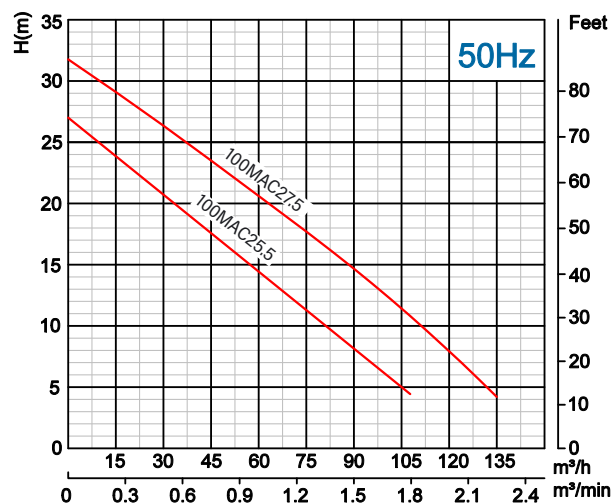
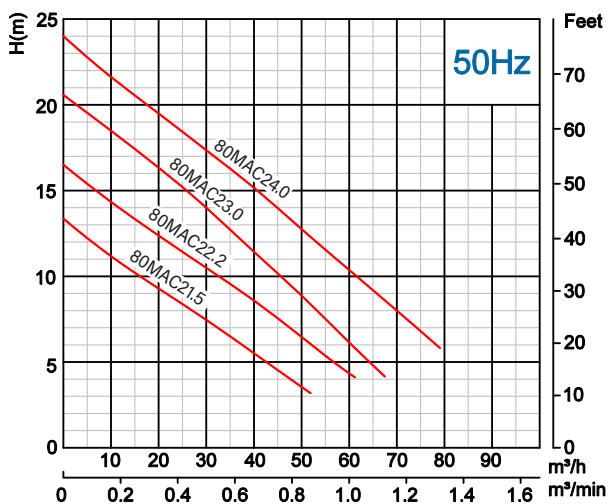
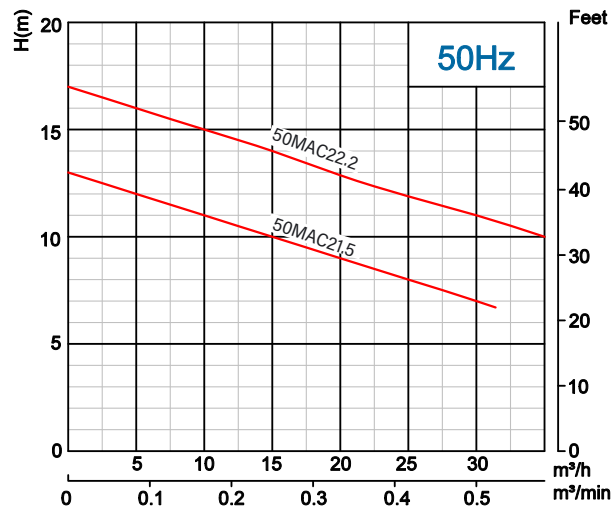
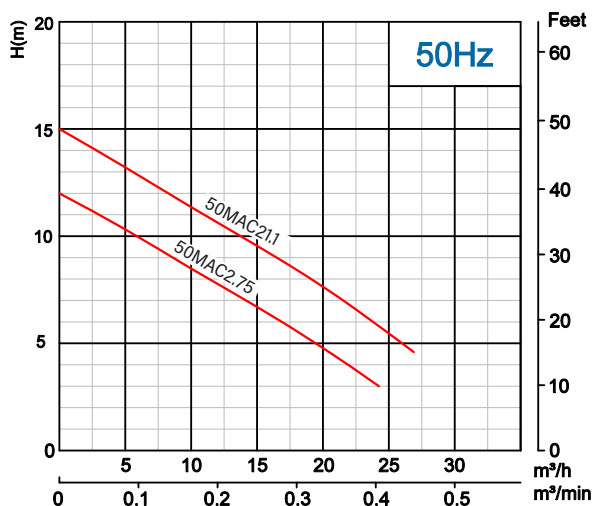
Pos. No.	Component	Material
01	Discharge	Cast iron
01a	Discharge	Cast iron
05	Top cover	Cast iron
07	Bearing housing	Cast iron
10	Seal holder	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14	Impeller	Cast iron Tungsten carbide
16	Suction plate	Ductile cast iron
17	Coupling adapter	Cast iron
22	Guide rail coupling	Steel
22a	Coupling seat	Cast iron
22b	Upper guide holder	Cast iron
27	Stator	
28	Rotor	
30	Flange	Cast iron
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
33	Motor protection	
34	Mechanical seal	SiC-SiC/SiC-SiC
35	Oil seal	
47	Cable	H07RN-F



The MAC series is equipped with a grinder and is especially suitable for pumping sewage containing fibrous, soft and grindable solids.

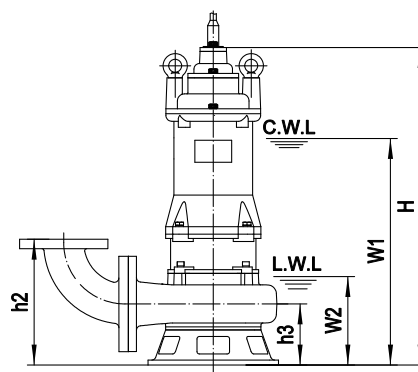
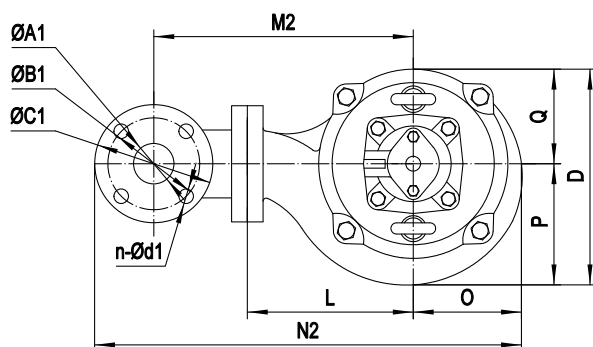


Performance Curve



Model (50Hz)	Voltage and rated current		Discharge		Motor power		Optimal flow rate and head		Max. flow rate and head		Free passage	Cable H07RN-F 10 m
	V	A	mm	Inch	kW	HP	m³/h	m	m³/h	m	mm	mm²
50MAC2.75	400.0	2.0	50	2"	0.75	1.0	10.0	8.0	24.0	12.0	20.0	1.0
50MAC2.75F	230.0	5.2	50	2"	0.75	1.0	10.0	8.0	24.0	12.0	20.0	1.0
50MAC21.1	400.0	2.8	50	2"	1.1	1.5	15.0	9.0	27.0	15.0	20.0	1.0
50MAC21.1F	230.0	7.2	50	2"	1.1	1.5	15.0	9.0	27.0	15.0	20.0	1.0
50MAC21.5	400.0	3.2	50	2"	1.5	2.0	25.0	8.0	31.0	13.0	40.0	1.0
80MAC21.5	400.0	3.2	80	3"	1.5	2.0	40.0	6.0	52.0	13.0	40.0	1.0
50MAC22.2	400.0	5.0	50	2"	2.2	3.0	25.0	12.0	35.0	17.0	40.0	1.0
80MAC22.2	400.0	5.0	80	3"	2.2	3.0	40.0	9.0	61.0	17.0	40.0	1.0
80MAC23.0	400.0	6.5	80	3"	3.0	4.0	42.0	11.0	67.0	21.0	30.0	1.5
80MAC24.0	400.0	8.9	80	3"	4.0	5.5	50.0	12.0	79.0	24.0	30.0	1.5
100MAC25.5	400.0	11.7	100	4"	5.5	7.5	65.0	13.0	107.0	27.0	35.0	2.5
100MAC27.5	400.0	15.7	100	4"	7.5	10.0	85.0	15.0	135.0	30.0	50.0	2.5

Dimensions with discharge elbow



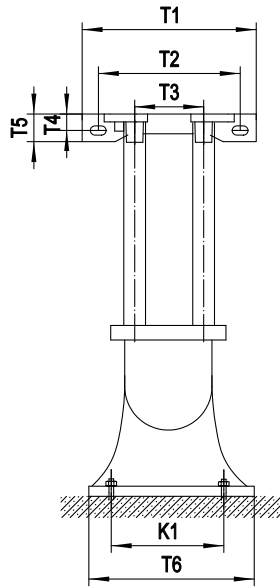
C.W.L.: Continuous water level

L.W.L.: Lowest water level

Model	ØA1	ØB1	ØC1	n-Ød1	h2	h3	W1	W2	H	O	P	Q	L	D	M2	N2
50MAC2.75	50	110	140	4-Ø14	197	97	350	140	497	100	100	100	128	200	230	400
50MAC2.75F	50	110	140	4-Ø14	197	97	350	140	497	100	100	100	128	200	230	400
50MAC21.1	50	110	140	4-Ø14	197	97	355	140	497	100	100	100	128	200	230	400
50MAC21.1F	50	110	140	4-Ø14	197	97	355	140	497	100	100	100	128	200	230	400
50MAC21.5	50	110	140	4-Ø14	210	110	400	170	565	108	110	108	162	218	264	442
80MAC21.5	80	150	190	4-Ø18	250	110	400	170	565	108	110	108	162	218	304	507
50MAC22.2	50	110	140	4-Ø14	210	110	420	170	585	108	110	108	162	218	264	442
80MAC22.2	80	150	190	4-Ø18	250	110	420	170	585	108	110	108	162	218	304	507
80MAC23.0	80	150	190	4-Ø18	262	122	455	185	634	130	138	130	171	268	313	538
80MAC24.0	80	150	190	4-Ø18	262	122	485	185	645	130	138	130	171	268	313	538
100MAC25.5	100	170	210	4-Ø18	281	131	510	200	702	135	147	135	201	282	354	594
100MAC27.5	100	170	210	4-Ø18	308	158	530	200	707	150	160	150	210	310	362	617

Model	N.W / kg	G.W / kg	Packaging mm
50MAC2.75	28	29.5	520×255×310
50MAC2.75F	28.5	30	520×255×310
50MAC21.1	29.5	31	540×255×310
50MAC21.1F	31	32.5	540×255×310
50MAC21.5	41	46	680×250×335
80MAC21.5	48	52	680×250×335
50MAC22.2	43	48	700×250×335
80MAC22.2	50	54	700×250×335
80MAC23.0	60	66	760×300×365
80MAC24.0	65	71	795×300×365
100MAC25.5	89	95	830×320×405
100MAC27.5	101	111	815×365×475

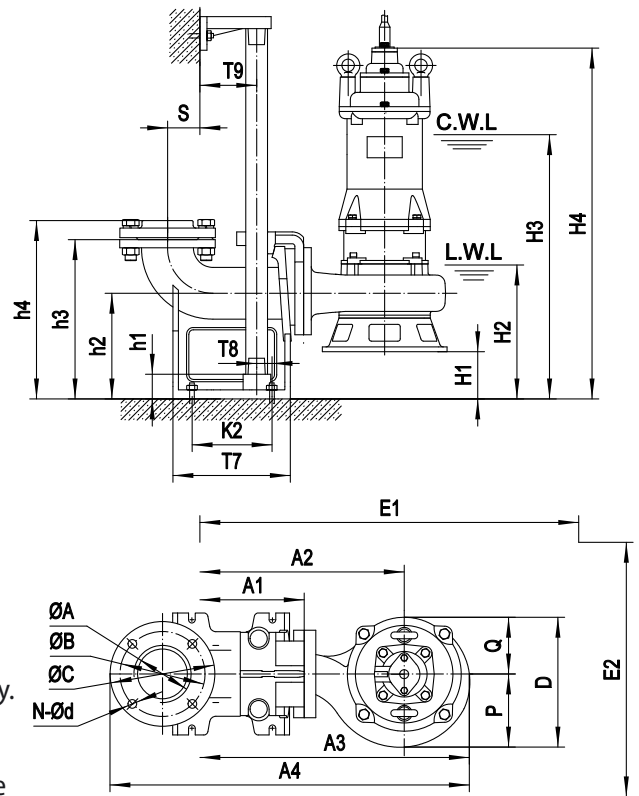
Guide Rail Coupling Dimensions



C.W.L.: Continuous water level

L.W.L.: Lowest water level

The guide rail coupling and the pump are packed separately. The weights and packaging dimensions shown in the table refer only to the pump. For the weight and packaging dimensions of the TO guide rail coupling, please refer to the corresponding page of the TO guide rail coupling.



Guide rail coupling	ØA	ØB	ØC	N-Ød	T1	T2	T3	T4	T5	T6	T7	T8	T9	K1	K2	S	h1	h2	h3	h4
TO 50-50(PN6)	Ø50 / G2"	110	140	4-Ø14	265	215	105	22	42	200	215	15	67	163	135	65	25	160	250	276
TO 80-80(PN10)	Ø80 / G3"	150	190	4-Ø18	315	265	145	27	50	255	230	35	78	215	155	79	25	185	305	335
TO 100-100(PN10)	Ø100 / G4"	170	210	4-Ø18	365	305	170	30	55	293	262	34	95	265	176	97	23	225	350	381

Model	Guide rail coupling	H1	H2	H3	H4	A1	A2	A3	A4	P	Q	D	E1×E2	Pump weight		
														N.W kg	G.W kg	Packaging mm
50MAC2.75	50-50(PN6)	63	203	413	560	157	285	385	520	100	100	200	650×550	24	25.5	520×245×250
50MAC2.75F	50-50(PN6)	63	203	413	560	157	285	385	520	100	100	200	650×550	24.5	26	520×245×250
50MAC21.1	50-50(PN6)	63	203	418	560	157	285	385	520	100	100	200	650×550	25.5	27	520×245×250
50MAC21.1F	50-50(PN6)	63	203	418	560	157	285	385	520	100	100	200	650×550	27	28.5	520×245×250
50MAC21.5	50-50(PN6)	50	220	450	615	157	319	427	562	110	108	218	650×550	37	42	680×250×325
80MAC21.5	80-80(PN10)	75	245	475	640	183	345	453	627	110	108	218	650×550	39	43.5	680×250×325
50MAC22.2	50-50(PN6)	50	220	470	635	159	321	428	563	110	108	218	650×550	39	44	700×250×325
80MAC22.2	80-80(PN10)	75	245	495	660	183	345	453	627	110	108	218	650×550	41	45.5	700×250×325
80MAC23.0	80-80(PN10)	63	248	518	697	183	354	484	658	138	130	268	700×550	51	57	760×300×355
80MAC24.0	80-80(PN10)	63	248	548	707	183	354	484	658	138	130	268	700×550	56	62	770×300×355
100MAC25.5	100-100(PN10)	94	294	604	796	203	404	539	741	147	135	282	750×550	77	83	830×320×385
100MAC27.5	100-100(PN10)	67	267	597	774	203	413	563	765	160	150	310	750×550	89	99	815×355×445

MAC • Grinder • 1.5 kW ~ 7.5 kW

50Hz (synchronous speed: 1500 rpm) 4-pole

Technical Data

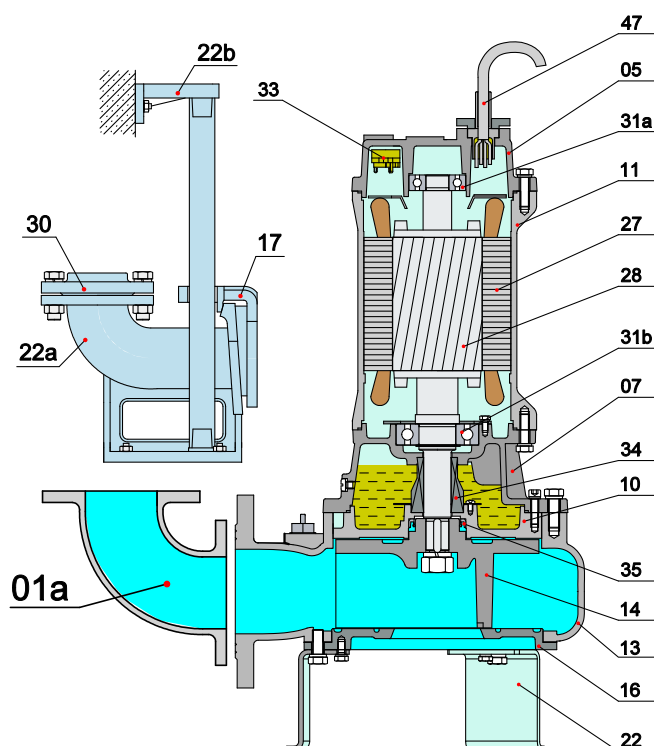
- Impeller type: grinder
- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40°C
- pH value: 6 to 10
- Density of pumped medium: up to 1.3 g/cm³
- Power supply:
Three-phase 400V ± 10%, 50Hz
- Motor protection: integrated
- Flow rate: up to 150 m³/h
- Head: up to 25 m
- Maximum submersion depth: 20 m
- Cable length: 10 m, H07RN-F

Parts List

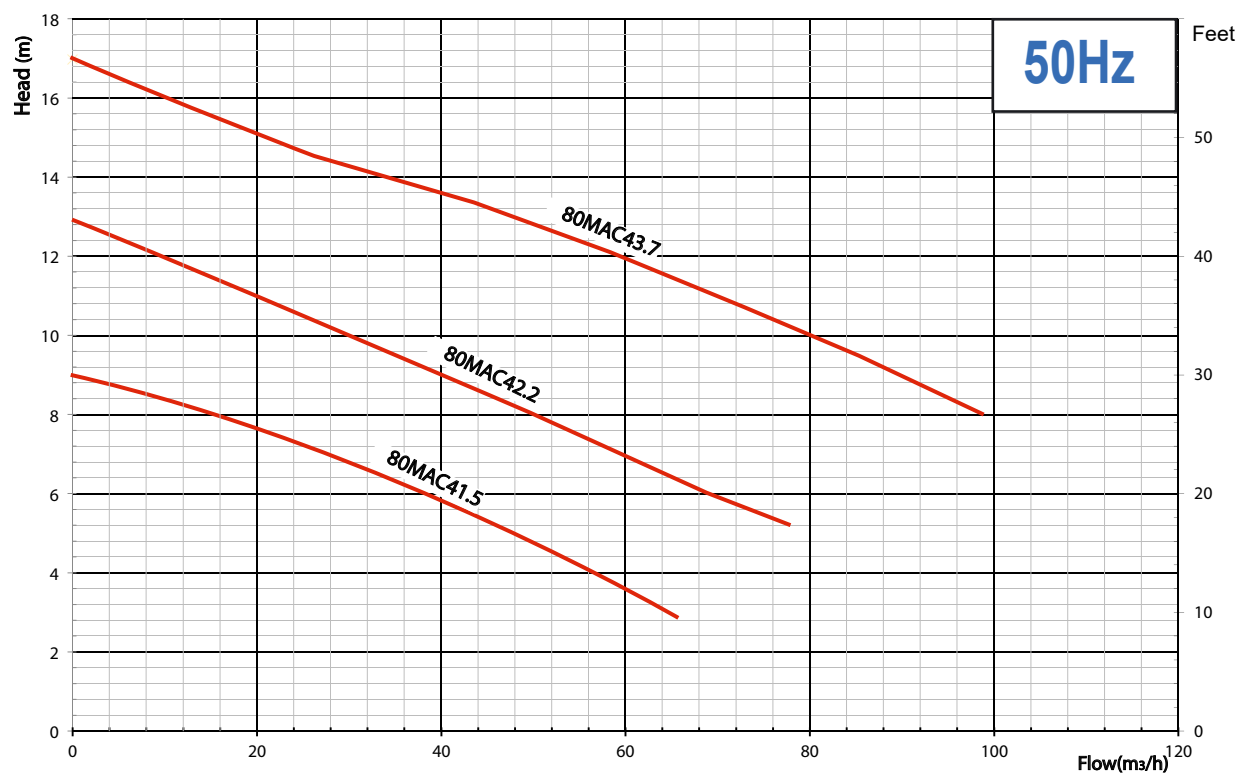
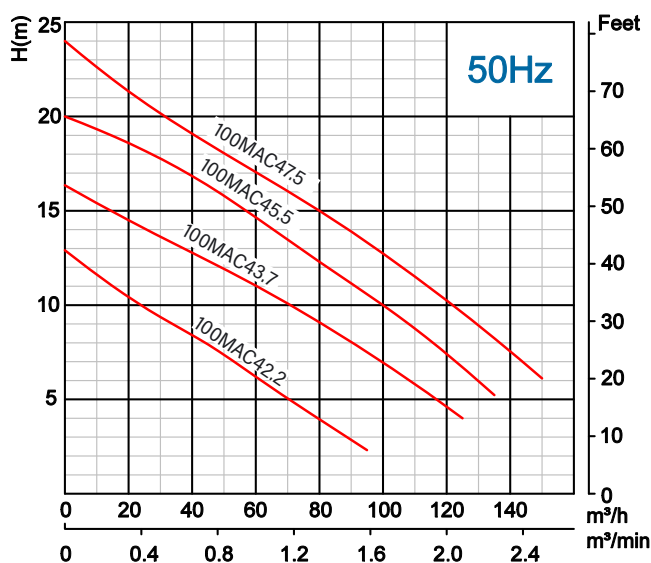
Pos. No.	Component	Material
01	Discharge	Cast iron
01a	Discharge	Cast iron
05	Top cover	Cast iron
07	Bearing housing	Cast iron
10	Seal holder	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14	Impeller	Cast iron / Tungsten carbide
16	Inlet plate	Ductile cast iron
17	Coupling adapter	Cast iron
22	Seat unit	Steel
22a	Coupling seat	Cast iron
22b	Upper guide holder	Cast iron
27	Stator	
28	Rotor	
30	Flange	Cast iron
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
33	Motor protection	
34	Mechanical seal	SiC-SiC / SiC-SiC
35	Oil seal	
47	Cable	H07RN-F



The MAC series is equipped with a grinder and is especially suitable for pumping sewage containing fibrous, soft and grindable solids.

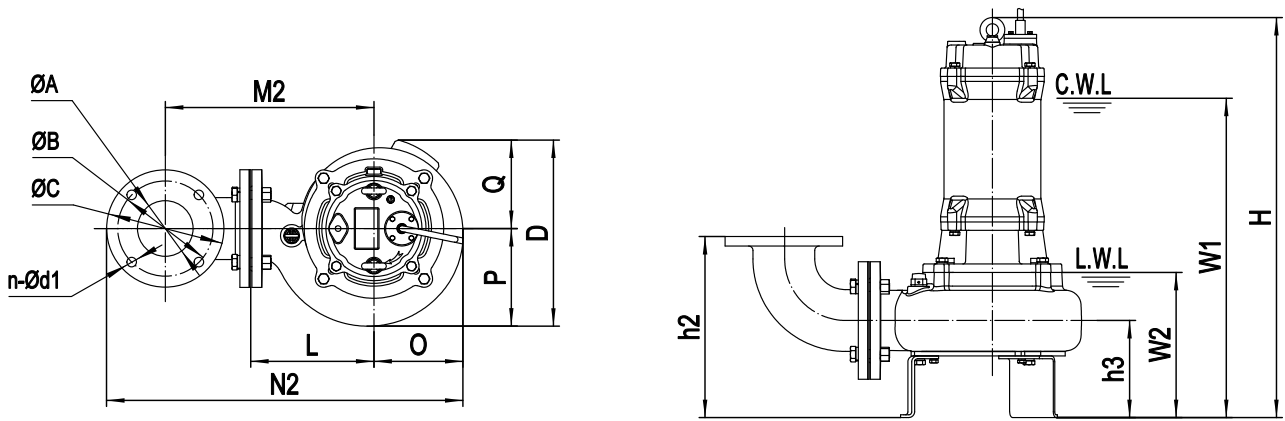


Performance Curve



Model (50Hz)	Voltage and rated current		Discharge		Motor power		Optimal flow rate and head		Max. flow rate and head		Free passage	Cable H07RN-F 10 m
	V	A	mm	Inch	kW	HP	m³/h	m	m³/h	m	mm	mm²
100MAC42.2	400	5.5	100	4"	2.2	3	50	7	95	13	50	1.5
100MAC43.7	400	8.2	100	4"	3.7	5	50	12	120	16	55	1.5
100MAC45.5	400	11.7	100	4"	5.5	7.5	80	12	135	20	55	2.5
100MAC47.5	400	15.7	100	4"	7.5	10	80	15	150	24	55	4
80MAC41.5	400	3.1	80	3"	1.5	2.0	40	5.5	65	9	50	1.5
80MAC42.2	400	4.6	80	3"	2.2	3.0	50	7	80	13	50	1.5
80MAC43.7	400	8.2	80	3"	3.7	5.0	50	12	100	17	55	1.5

Dimensions with discharge elbow

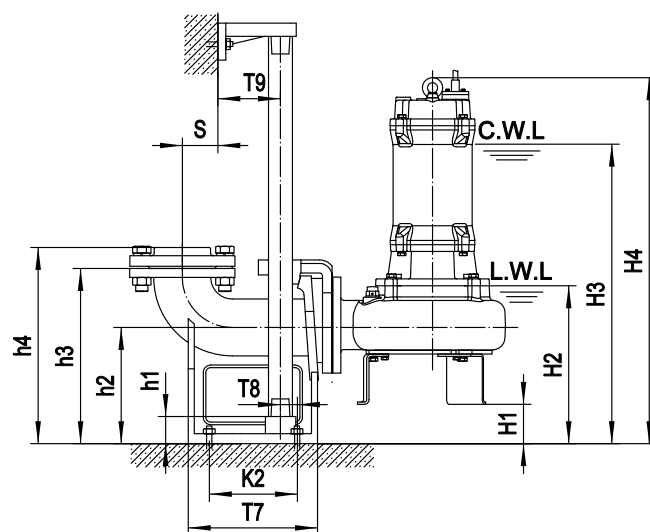
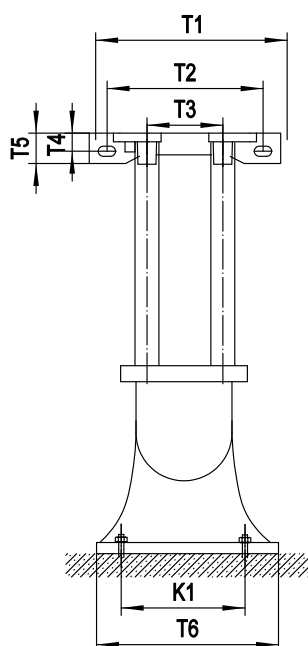


C.W.L.: Continuous water level

L.W.L.: Lowest water level

Model	ØA	ØB	ØC	n-Ød1	h1	h2	h3	W1	W2	H	O	P	Q	L	D	M2	N2
100MAC42.2	100	170	210	4-Ø18	343	323	173	540	235	650	159	174	158	220	332	370	634
100MAC43.7	100	170	210	4-Ø18	343	323	173	605	235	715	159	174	158	220	332	370	634
100MAC45.5	100	170	210	4-Ø18	353	333	183	610	240	800	191	202	192	260	394	410	706
100MAC47.5	100	170	210	4-Ø18	353	333	183	655	240	845	191	202	192	260	394	410	706

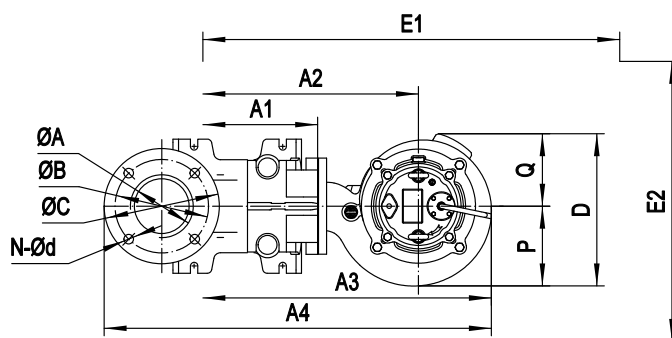
Guide Rail Coupling Dimensions



C.W.L.: Continuous water level

L.W.L.: Lowest water level

The guide rail coupling and the pump are packed separately. The weights and packaging dimensions shown in the table refer only to the pump. For the weight and packaging dimensions of the TO guide rail coupling, please refer to the corresponding TO guide rail coupling page.



Model	Guide rail coupling	H1	H2	H3	H4	A1	A2	A3	P	Q	D	E1×E2
100MAC42.2	80-100(JIS10k)	10	240	585	662	330	489	759	174	158	332	800×600
100MAC43.7	80-100(JIS10k)	10	245	655	727	330	489	759	174	158	332	800×600
100MAC45.5	100-100(JIS10k)	118	305	775	810	425	619	905	202	192	394	900×700
100MAC47.5	100-100(JIS10k)	118	305	800	855	425	619	905	202	192	394	900×700

Model	Pump weight		
	N.W kg	G.W kg	Packaging mm
100MAC42.2	66.5	72	700×370×435
100MAC43.7	79	88	765×375×465
100MAC45.5	127	139	955×455×605
100MAC47.5	140	152	995×455×605

GPK • Grinder • 1.1 kW ~ 5.5 kW

50Hz (synchronous speed: 3000 rpm) 2-pole

Technical Data

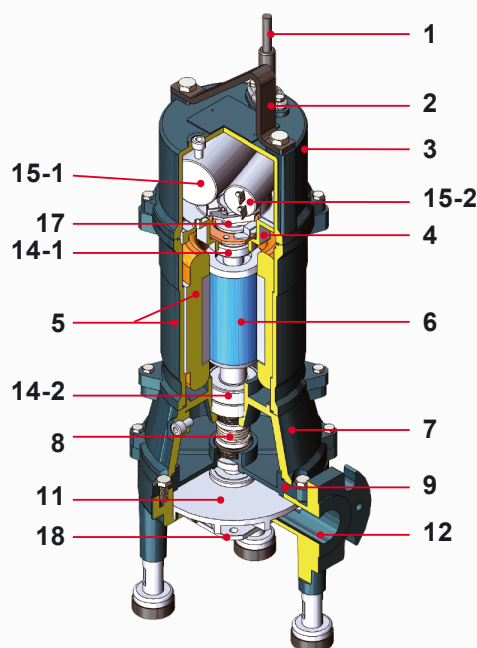
- Impeller type: Semi-open impeller with grinder
- Insulation class: 1.1~2.2 kW: Class B; 3.7~5.5 kW: Class F
- Protection class: IP68
- Water temperature: up to 40 °C
- Power supply:
Three-phase 400V $\pm$ 10%, 50Hz /
Single-phase 230V $\pm$ 10%, 50Hz
- Motor protection: Auto-Cut
- Bearing: Ball bearing
- Seal: Double mechanical seal
- Flow rate: up to 18 m³/h
- Head: up to 46 m
- Maximum submersion depth: 10 m
- Cable length: 10 m



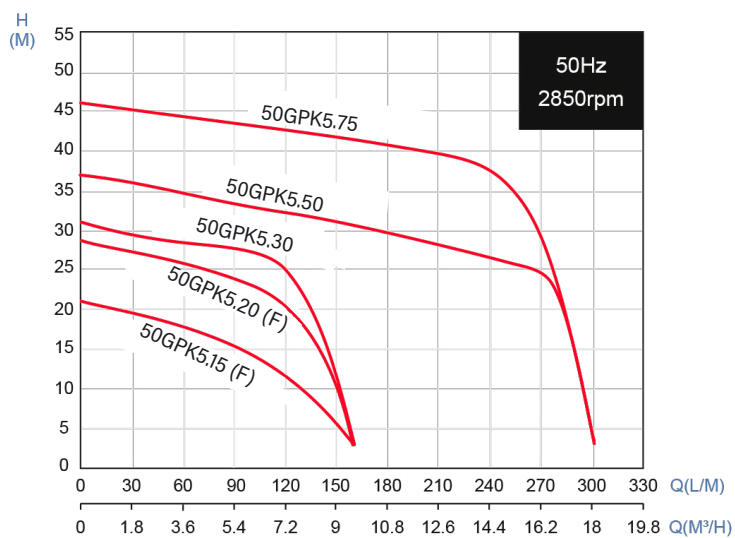
The GPK series is equipped with a grinder and is especially suitable for pumping sewage containing fibrous, soft and grindable solids.

Parts List

1	Cable	H07RN-F (Rubber cable)
2	Handle	SS 41 (Steel)
3	Motor cover	EN-GJL-200 (Cast iron)
4	Bracket	EN-GJL-200 (Cast iron)
5	Motor housing + Stator	EN-GJL-200 (Cast iron)
6	Shaft with rotor	AISI 410 (Stainless steel)
7	Oil chamber	EN-GJL-200 (Cast iron)
8	Mechanical seal	Upper: CA/CE (Carbon/Ceramic) Lower: SiC/SiC (Silicon carbide/ Silicon carbide)
9	Seal housing	EN-GJL-200 (Cast iron)
11	Impeller	EN-GJL-200 (Cast iron)
12	Pump casing	EN-GJL-200 (Cast iron)
14-1	Upper bearing	NTN/TPI (Ball bearing)
14-2	Lower bearing	NTN/TPI (Ball bearing)
15-1	Run capacitor	single-phase only
15-2	Start capacitor	single-phase only
17	Centrifugal switch	single-phase only
18	Grinder	AISI 440C (hardened stainless steel)

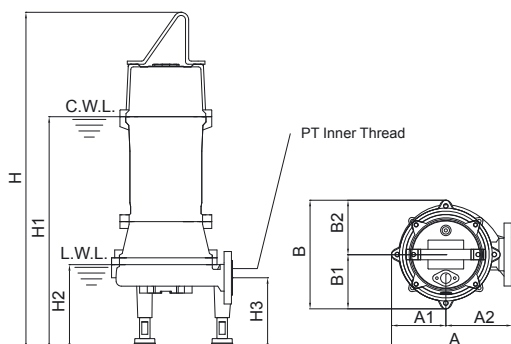


Performance Curve



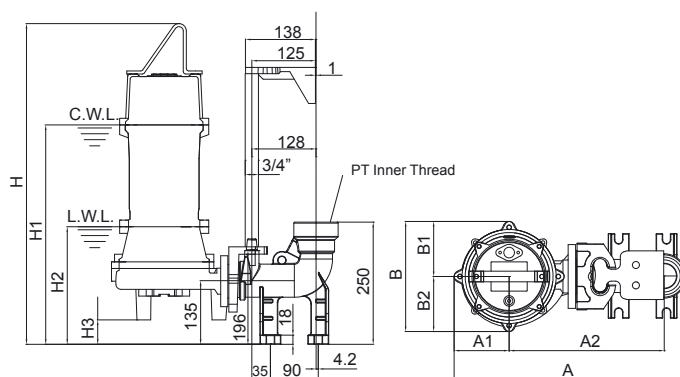
Model (50Hz)	Motor power		Discharge Inch	Optimal flow rate and head		Max. flow rate and head		Weight without cable		Full-load current	
	kW	HP		Q (m³/h)	H (m)	Q (m³/h)	H (m)	1~ kg	3~ kg	230V	400V
50GPK5.15 (F)	1.1	1.5	1-1/4"	5.4	15.5	9.6	21	29.4	29.4	9.4	3.3
50GPK5.20 (F)	1.5	2	1-1/4"	6	23	9.6	28.5	32	32	11.5	4.5
50GPK5.30	2.2	3	1-1/4"	7.2	25	9.6	31	-	33.6	-	4.7
50GPK5.50	3.7	5	2"	15	26	18	37	-	41.2	-	8.7
50GPK5.75	5.5	7.5	2"	15	36	18	46	-	46.2	-	12.5

Dimensions with discharge elbow



Model	A	A1	A2	B	B1	B2	H	H1	H2	H3
50GPK5.15 (F)	230	102	128	206	103	103	640	445	160	135
50GPK5.20 (F)	230	102	128	206	103	103	640	445	160	135
50GPK5.30	230	102	128	206	103	103	680	485	160	135
50GPK5.50	283	119	164	239	114	125	669	509	186	151
50GPK5.75	283	119	164	239	114	125	709	549	186	151

Guide Rail Coupling Dimensions



C.W.L.: Continuous water level

L.W.L.: Lowest water level

Model	A	A1	A2	B	B1	B2	H	H1	H2	H3
50GPK5.15 (F)	445	102	300	206	103	103	630	432	150	50
50GPK5.20 (F)	445	102	300	206	103	103	630	432	150	50
50GPK5.30	445	102	300	206	103	103	670	472	150	50
50GPK5.50	500	119	337.3	239	114	125	637	477	154	29
50GPK5.75	500	119	337.3	239	114	125	677	517	154	29

GPk • Grinder • 11 kW

50Hz (synchronous speed: 3000 rpm) 2-pole

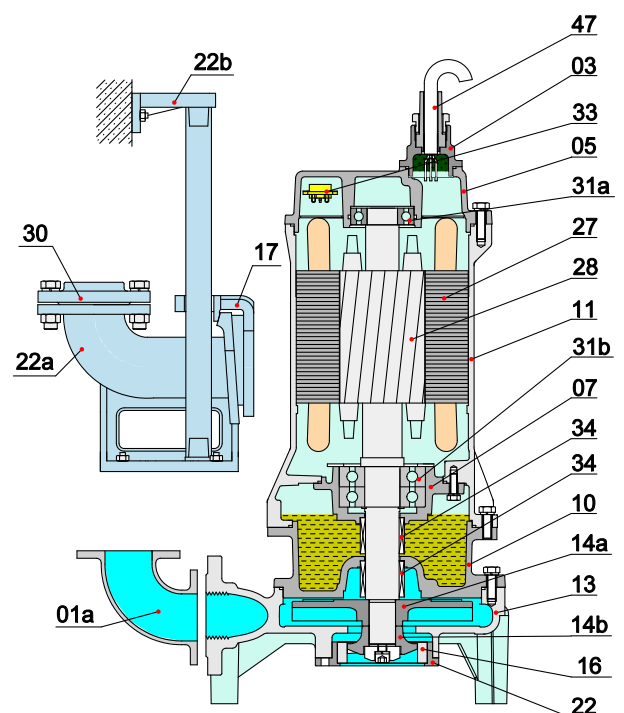
Technical Data

- Impeller type: Grinder
- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40°C
- pH value: 6 to 10
- Density of pumped medium: up to 1.3 g/cm³
- Power supply:
Three-phase 400V ± 10%, 50Hz
- Flow rate: up to 29 m³/h
- Head: up to 64 m
- Maximum submersion depth: 10 m
- Cable length: 10 m, H07RN-F

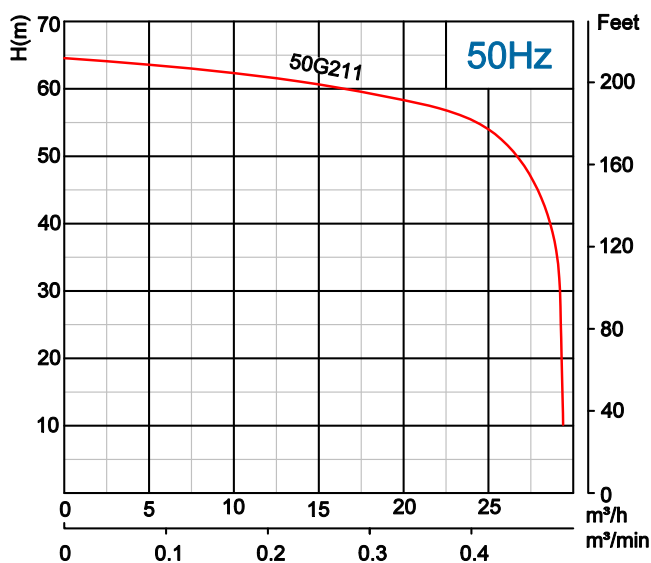


Parts List

Pos. No.	Component	Material
01	Discharge	Cast iron
01a	Discharge connection	Cast iron
03	Terminal box	Cast iron
05	Top cover	Cast iron
07	Bearing housing	Cast iron
10	Seal holder	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14a	Impeller	Cast iron
14b	Rotating cutter	High-chromium alloy
16	Stationary cutter	High-chromium alloy
17	Coupling adapter	Cast iron
22	Seat unit	Cast iron
22a	Guide rail coupling	Cast iron
22b	Upper guide holder	Cast iron
27	Stator	
28	Rotor	Shaft: AISI420SS
30	Flange	Cast iron
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
33	Motor protection	integrated
34	Mechanical seal	SiC-SiC
47	Cable	H07RN-F

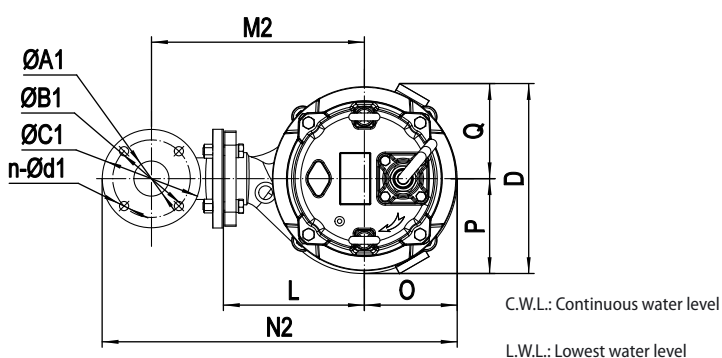


Performance Curve

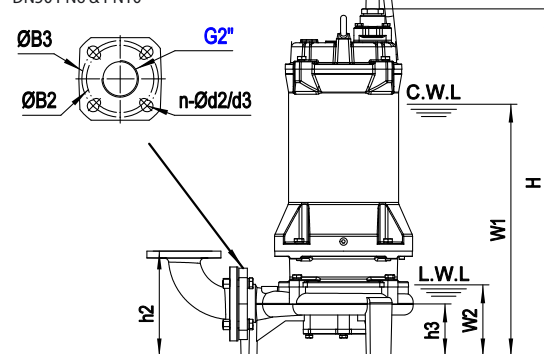


Model (50Hz)	Voltage and rated current		Discharge		Motor power		Optimal flow rate and head		Max. flow rate and head		Cable H07RN-F 10 m
	V	A	mm	Inch	kW	HP	m³/h	m	m³/h	m	mm²
50GPK211	400	22	50	2"	11	15	15	60	29	64	4

Dimensions with discharge elbow



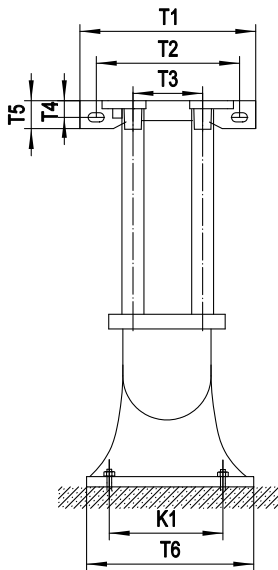
Dimensions of the pump casing flange
DN50 PN6 & PN10



Model	ØA1	ØB1	ØB2	ØB3	ØC1	n-Ød1	n-Ød2	n-Ød3
50GPK211	50	110	110	125	140	4-Ø14	4-Ø14	4-Ø18

Model	h2	h3	W1	W2	H	O	P	Q	L	D	M2	N2
50GPK211	199	100	510	130	668	132	135	135	200	270	302	504

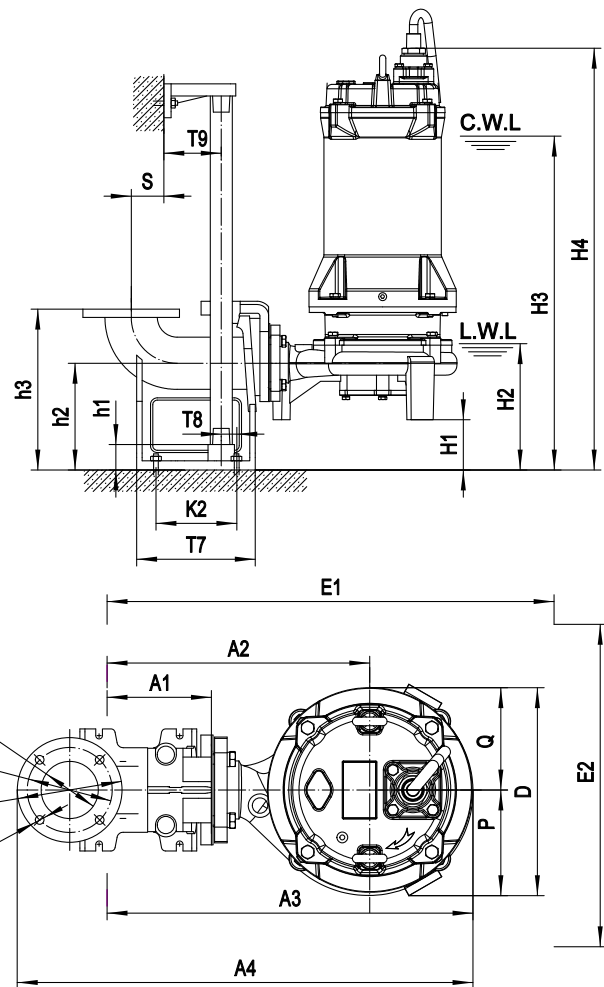
Guide Rail Coupling Dimensions



The guide rail coupling and the pump are packed separately. The weights and packaging dimensions shown in the table refer only to the pump. For the weight and packaging dimensions of the TO guide rail coupling, please refer to the corresponding TO guide rail coupling page.

C.W.L.: Continuous water level

L.W.L.: Lowest water level

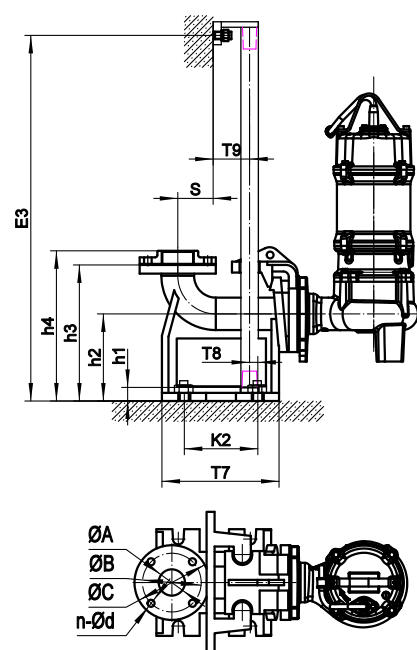
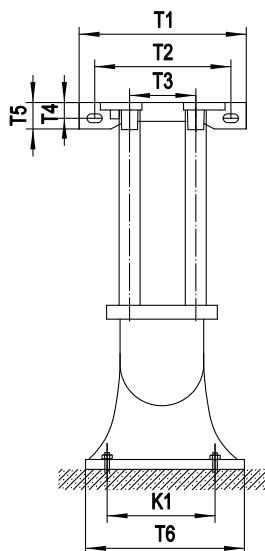


Guide rail coupling	ØA	ØB	ØC	n-Ød	T1	T2	T3	T4	T5	T6	T7	T8	T9	K1	K2	S	h1	h2	h3
TO 50-50(PN6)	Ø50	110	140	4-Ø14	265	215	105	22	42	200	215	15	67	163	135	65	25	160	250

Model	Guide rail coupling	H1	H2	H3	H4	A1	A2	A3	A4
50GPK211	50-50(PN6)	60	190	570	728	155	357	489	624

Model	P	Q	D	E1×E2	Pump weight and packaging dimensions		
					N.W kg	G.W kg	Packaging mm
50GPK211	135	135	270	650×550	91	99	775×315×415

Guide Rail Couplings



Model	ØA	ØB	ØC	N-Ød	T1	T2	T3	T4	T5	T6	T7
TO 40-40(PN6)	Ø40 / G1½"	100	130	4-Ø14	225	185	70	16	35	110	173
TO 50-50(PN6)	Ø50 / G2"	110	140	4-Ø14	265	215	105	22	42	200	215
TO 65-65(PN6)	Ø65 / G2½"	130	160	4-Ø14	280	235	125	25	50	230	235
TO 80-80(PN10)	Ø80 / G3"	150	190	4-Ø18	315	265	145	27	50	255	230
TO 100-100(PN10)	Ø100 / G4"	170	210	4-Ø18	365	305	170	30	55	293	262
TO 150-150(PN6)	Ø150	225	285	8-Ø18	400	260	280	24	48	360	410
TO 150-150(PN10)	Ø150	240	285	8-Ø22	400	260	280	24	48	360	410
TO 200-200(PN10)	Ø200	295	330	8-Ø22	400	260	280	24	48	400	445
TO 250-250(PN10)	Ø250	350	395	12-Ø22	400	260	280	24	48	455	555
TO 300-300(PN10)	Ø300	400	445	12-Ø22	480	305	340	31	62	550	570
TO 400-400(PN10)	Ø400	515	565	16-Ø26	500	325	360	31	62	620	665

Model	T8	T9	K1	K2	S	h1	h2	h3	h4
TO 40-40(PN6)	22	64	65	106	48	145	115	195	219
TO 50-50(PN6)	15	67	163	135	65	25	160	250	276
TO 65-65(PN6)	20	70	190	155	90	25	170	265	291
TO 80-80(PN10)	35	78	215	155	79	25	185	305	335
TO 100-100(PN10)	34	95	265	176	97	23	225	350	381
TO 150-150(PN6)	90	95	285	300	195	390	300	480	—
TO 150-150(PN10)	90	95	285	300	195	390	300	480	—
TO 200-200(PN10)	103	95	298	350	230	440	320	555	—
TO 250-250(PN10)	101	95	360	430	301	495	350	665	—
TO 300-300(PN10)	66	111	410	410	284	570	405	730	—
TO 400-400(PN10)	84	113	490	510	362	780	560	960	—

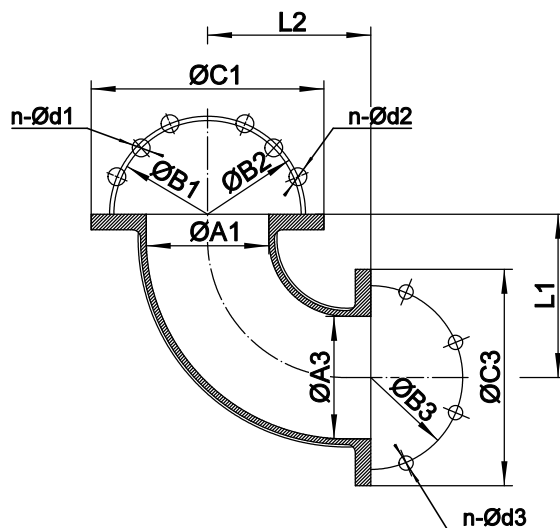
Guide Rail Couplings

Model	N.W kg	G.W kg	Packaging mm
40-40(PN6)	11	13	340×260×195
50-50(PN6)	17	19.5	350×320×245
65-65(PN6)	23	25.5	390×270×345
80-80(PN10)	31	34.5	410×290×395
100-100(PN10)	43	48	470×330×475
150-150(PN6)	96	111	697×437×650
150-150(PN10)	95	110	697×437×650
200-200(PN10)	120	136	767×437×690
250-250(PN10)	192	213	897×507×750
300-300(PN10)	290	317	917×617×880
400-400(PN10)	440	483	1057×657×1110

Model	Guide rail	Length
	Size	
40-40(PN6)	1" / Ø32 × 3	E3-145
50-50(PN6)	1" / Ø32 × 3	E3-10
65-65(PN6)	1" / Ø32 × 3	E3-10
80-80(PN10)	1½" / Ø48 × 3	E3-10
100-100(PN10)	1½" / Ø48 × 3	E3-10
150-150(PN6)	1½" / Ø48 × 3	E3-405
150-150(PN10)	1½" / Ø48 × 3	E3-405
200-200(PN10)	1½" / Ø48 × 3	E3-455
250-250(PN10)	1½" / Ø48 × 3	E3-510
300-300(PN10)	2" / Ø60 × 3.5	E3-580
400-400(PN10)	2" / Ø60 × 3.5	E3-790

Model	Coupling	Accessories	Expansion bolts	Chain unit
		Foundation bolts		
TOPJ-01	40-40	4-M12	2-M10	Ø4×5m
TOPJ-02	50-50(≤1.5kW)	4-M16	2-M12	Ø4×5m
TOPJ-03	50-50(>2.2kW), 65-65	4-M16	2-M12	Ø5×5m
TOPJ-04	100-100(≤7.5kW)	4-M20	2-M12	Ø5×5m
TOPJ-05	100-100(>11kW)	4-M20	2-M12	Ø6×5m
TOPJ-06	150-150(≤22kW)	4-M20	3-M14	Ø6×5m
TOPJ-07	150-150(30~45kW)	4-M20	3-M14	Ø8×5m
TOPJ-08	200-200(≤22kW), 250-250(≤22kW)	4-M24	3-M14	Ø8×5m
TOPJ-09	200-200(30~45kW), 250-250(30~45kW), 300-300(30~45kW)	4-M24	3-M14	Ø8×5m
TOPJ-10	200-200(55~75kW), 250-250(55~75kW), 300-300(55~75kW), 400-400(55~75kW)	4-M24	3-M14	Ø10×5m

Elbows



Model	ØA1	ØB1	n-Ød1	ØB2	n-Ød2	ØC1	ØA3	ØB3	n-Ød3	ØC3	L1	L2	N.W kg	Packaging mm
1.5"(PN6)- 1.5"(PN6)	40	100	4- Ø14	—	—	130	40	100	4-Ø14	130	100	100	2.7	—
2"(PN6)- 2"(PN6)	50	110	4- Ø14	—	—	140	50	110	4-Ø14	140	100	100	3.3	—
2"(PN6)- 2"(PN6 & PN10)	50	110	4- Ø14	125	4- Ø18	160	50	110	4-Ø14	140	100	100	3.8	—
2.5"(PN6)- 2.5"(PN6)	65	130	4- Ø14	—	—	160	65	130	4-Ø14	160	120	120	4.7	225×225×200
2.5"(PN6)-2.5" (PN6 & PN10)	65	130	4- Ø14	145	4- Ø18	185	65	130	4-Ø14	160	120	120	5.5	235×225×220
3"(PN6) -3"(PN6)	80	150	4- Ø18	—	—	190	80	150	4-Ø18	190	140	140	7.1	265×260×235
3"(PN6)-3" (PN6 & PN10)	80	150	4- Ø18	160	8- Ø18	200	80	150	4-Ø18	190	140	140	7.5	265×260×235
4"(PN6) -4"(PN6)	100	170	4- Ø18	—	—	210	100	170	4-Ø18	210	150	150	9.5	285×280×255
4"(PN6) -4"(PN6 & PN10)	100	170	4- Ø18	180	8- Ø18	220	100	170	4-Ø18	210	150	150	10	285×280×255
6"(PN6) -6"(PN6)	150	225	8- Ø18	—	—	265	150	225	8-Ø18	265	200	200	17.5	395×370×330
6"(PN6) -6"(PN6 & PN10)	150	225	8- Ø18	240	8- Ø22	285	150	225	8-Ø18	265	200	200	18.5	395×370×330
6"(PN10) -6"(PN10)	150	240	8- Ø22	—	—	285	150	240	8-Ø22	285	200	200	19.5	395×370×330
8"(PN10)- 8"(PN10)	200	295	8- Ø22	—	—	340	200	295	8-Ø22	340	230	230	32	460×440×385
10"(PN10) -10"(PN10)	250	350	12- Ø22	—	—	395	250	350	12-Ø22	395	381	381	58	630×620×450
12"(PN10) -12"(PN10)	300	400	12- Ø22	—	—	445	300	400	12-Ø22	445	457	457	80	735×725×530
16"(PN10) -16"(PN10)	400	515	16- Ø27	—	—	565	400	515	12-Ø27	565	610	610	128	955×935×700



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