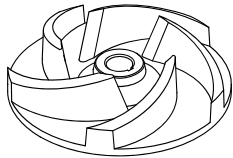


<b>HYDROPOMPE</b>	<b>OPEN IMPELLER</b>	<b>50 Hz</b>
<b>HYDRO SERIES</b>		<b>2 POLE</b>
<b>10M-10T-15T-15M-20M-20T-30T</b>		

#### USE

Submersible electric pumps suitable for the lifting of clear and dirty water. They can be used as portable pumps either in building yards, basement tanks or for fixed installation with electric panel and float switch.

#### MATERIALS

##### Cover

Anticorodal aluminium alloy

##### Motor housing

Aluminium alloy EN-AW 6060

##### Pump housing

Anticorodal aluminium alloy

##### Strainer

Anticorodal aluminium alloy

##### Wear plate

HYDRO 10M-10T-15T stainless steel AISI 304

HYDRO 15M-20M-20T-30T anticorodal aluminium alloy with rubber coating

##### Impeller

Cast iron EN GJL 200 (UNI EN 1561)

##### Mechanical seal

Silicon Carbide/Silicon Carbide (SiC/SiC)

##### Motor shaft

Stainless steel AISI 420

##### Bolts and nuts

Stainless steel Grade A2

##### Cable

5 meters type H07RN-F

HYDRO 10M with 4G1,5mm<sup>2</sup> cable, capacitor box and SCHUKO (CEE 7/VI) plug

HYDRO 15M-20M with 4G2,5mm<sup>2</sup> cable, capacitor box and SCHUKO (CEE 7/VI) plug

Three-phase with 4G1,5mm<sup>2</sup> cable

#### LIMITS TO USE

##### Max temperature of the liquid pumped

+40°C

##### pH of the liquid pumped

5÷8

##### Max immersion depth

20 m

##### Liquid density

1,0 kg/dm<sup>3</sup>

##### Min immersion depth for continuous service

See drawing

##### Free passage

6 mm

##### Max number starts/hour

20

##### Acoustic pressure level issued

<70dB(A)

#### MOTOR

The electric motor is asynchronous with squirrel cage rotor in oil bath

Class of insulation F

Protection degree IP68

2pole; 50Hz

Main voltage values and relative tolerance in relation to the rated voltage value:

##### SINGLE-PHASE

230V ±6%

built-in overheating protection and float switch

##### THREE-PHASE

230V ±10%

400V ±10%

Other voltages on request.

#### OTHER FEATURES ON REQUEST

10m cable length in accordance with EN 60335-2-41


Frequency 60 Hz (*see specific catalogue*)

Other voltages

With food grade white oil

#### TECHNICAL DATA

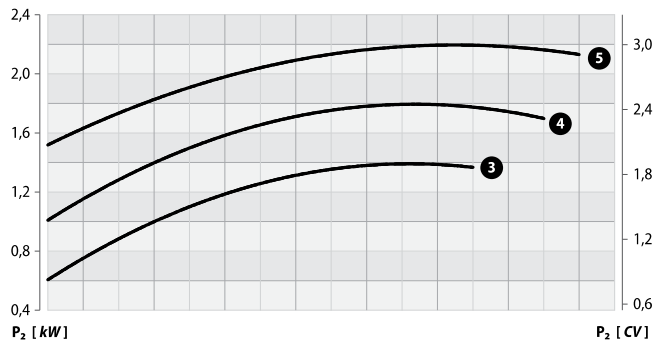
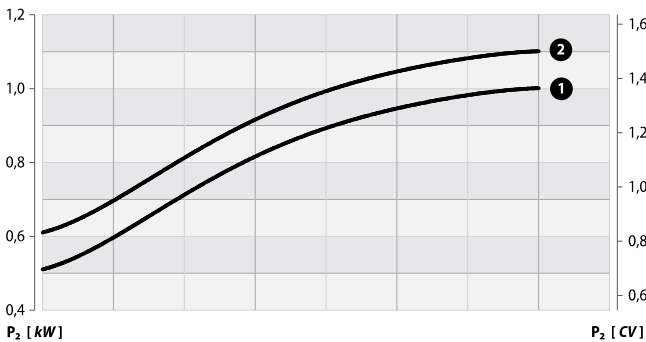
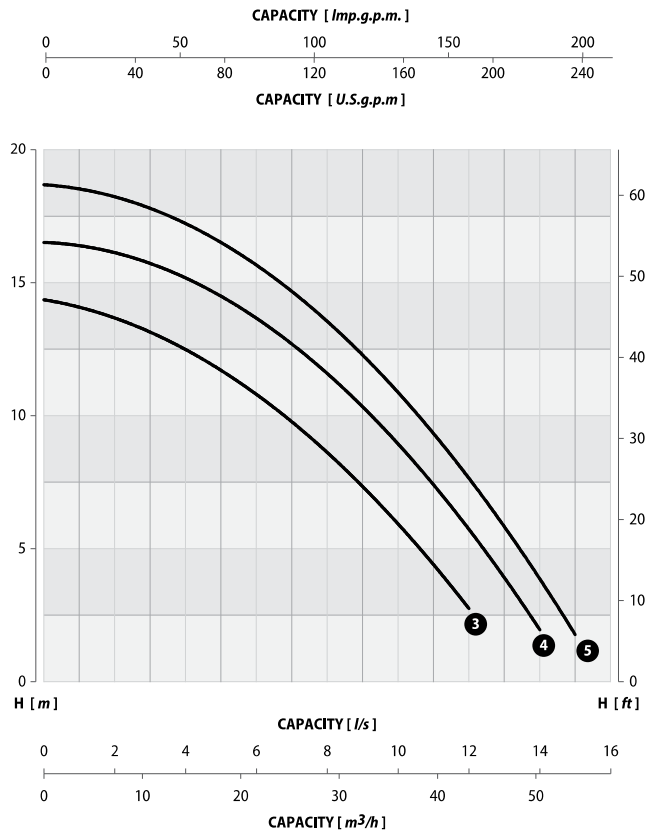
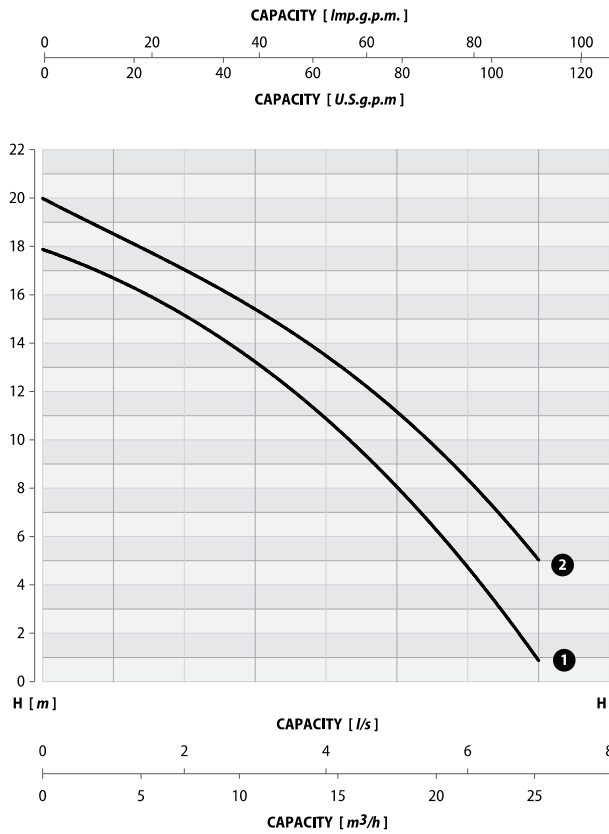
MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CAPACITOR		CABLE m	WEIGHT kg
		kW	CV			µF	V		
10M	1,4	1,0	1,36	230 (1~)	7,2	25	450	5	20
10T	1,4	1,0	1,36	230/400 (3~)	2,0	-	-	5	20
15T	1,7	1,1	1,5	230/400 (3~)	5,2/3,0	-	-	5	20
15M	2,1	1,4	1,9	230 (1~)	12,0	25	450	5	23
20M	2,4	1,8	2,4	230 (1~)	14,0	30	450	5	27
20T	2,4	1,8	2,4	230/400 (3~)	8,0/4,6	-	-	5	25
30T	2,9	2,2	3,0	230/400 (3~)	8,7/5,0	-	-	5	26

<b>HYDRO SERIES</b>	<b>10M-10T-15T-15M-20M-20T-30T</b>		<b>OPEN IMPELLER</b>	<b>50 Hz</b>
				<b>2 POLE</b>

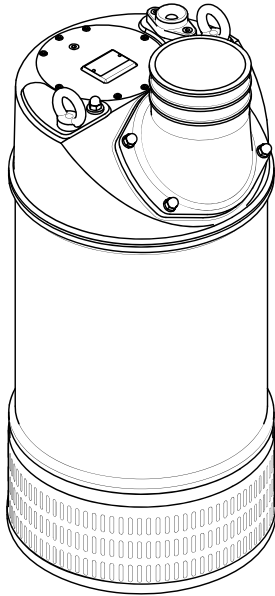
**PERFORMANCE RANGE**

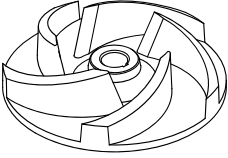
CAPACITY																	
<i>l/s</i>	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
<i>m³/h</i>	0	3,6	7,2	10,8	14,4	18,0	21,6	25,2	28,8	32,4	36,0	39,6	43,2	46,8	50,4	54,0	
<i>l/min</i>	0	60	120	180	240	300	360	420	480	540	600	660	720	780	840	900	

MODEL	CURVE N°	HEAD <i>m</i>															
		10M	1	18,0	16,5	15,0	13,5	11,0	8,0	4,5	1,0	-	-	-	-	-	-
10T	18,0	16,5		15,0	13,5	11,0	8,0	4,5	1,0	-	-	-	-	-	-	-	
15T	2	20,0	18,5	17,0	15,5	13,5	11,0	8,5	5,0	-	-	-	-	-	-	-	
15M	3	14,3	14,1	13,7	13,1	12,5	11,8	11,0	9,8	8,5	7,0	6,0	4,5	2,8	-	-	
20M	4	16,6	16,3	16,1	15,8	15,1	14,2	14,0	12,8	11,8	10,2	9,0	7,0	5,8	4,0	2,0	
20T		16,6	16,3	16,1	15,8	15,1	14,2	14,0	12,8	11,8	10,2	9,0	7,0	5,8	4,0	2,0	
30T	5	18,5	18,5	18,2	17,8	17,5	16,5	16,0	14,7	13,9	12,0	10,5	9,1	7,5	5,8	4,0	



Performance tolerance in according to UNI/ISO 9906 Grade 2



<b>HYDROPOMPE</b>	<b>OPEN IMPELLER</b>	<b>50 Hz</b>
<b>HYDRO SERIES</b>		<b>2 POLE</b>
<b>11K2 - 15K2</b>		

#### USE

Submersible electric pumps suitable for the lifting of clear and dirty water. They are especially used in building yards and for pumping abrasive liquids.

#### MATERIALS

##### *Pump housing*

Cast iron EN GJL 200 (UNI EN 1561) with rubber coating

##### *Wear plate*

Cast iron EN GJL 200 (UNI EN 1561) with rubber coating

##### *Motor housing*

Cast iron EN GJL 250 (UNI EN 1561)

##### *Cover*

Cast iron EN GJL 250 (UNI EN 1561)

##### *Impeller*

High chrome cast iron

##### *Mechanical seal motor side*

Ceramics/Graphite

##### *Mechanical seal impeller side*

Silicon Carbide/Silicon Carbide (SiC/SiC)

##### *Motor shaft*

Stainless steel AISI 431

##### *Strainer*

Stainless steel AISI 304

##### *Cooling jacket*

Stainless steel AISI 304

##### *Bolts and nuts*

Stainless steel Grade A2

##### *Cable*

20 meters 4G6mm<sup>2</sup> type H07RN-F

#### LIMITS TO USE

##### *Max temperature of the liquid pumped*

+40°C

##### *pH of the liquid pumped*

6÷10

##### *Max immersion depth*

20 m

##### *Liquid density*

1,1 kg/dm<sup>3</sup>

##### *Min immersion depth*

200 mm

##### *Free passage*

6 mm

##### *Max number starts/hour*

10

##### *Acoustic pressure level issued*

<70dB(A)

#### MOTOR

The electric motor is asynchronous with squirrel cage rotor in dry chamber

Class of insulation F

Protection degree IP68

2pole; 50Hz

Main voltage values and relative tolerance in relation to the rated voltage value:

##### **THREE-PHASE**

400V ±10%

Other voltages on request.

#### OTHER FEATURES ON REQUEST

With industrial plug (IEC 60309-2) in accordance with EN 60335-2-41

Frequency 60 Hz (*see specific catalogue*)


Other voltages

#### SECURITY

Inner control of the thermal probes in the winding  
Control, sequence and lack of phase

#### TECHNICAL DATA

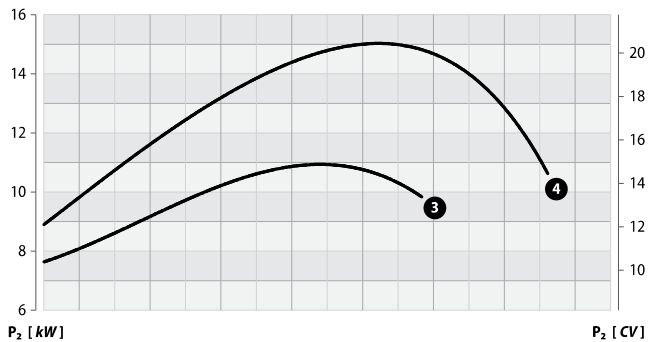
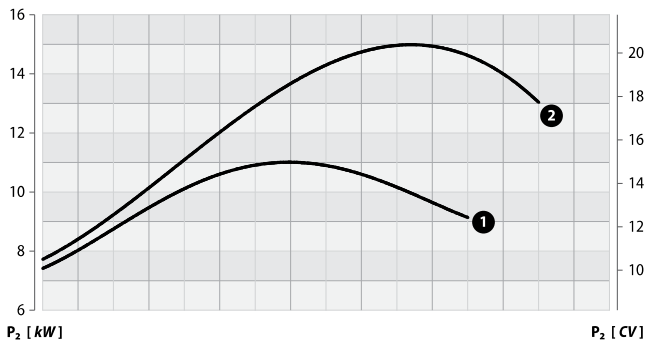
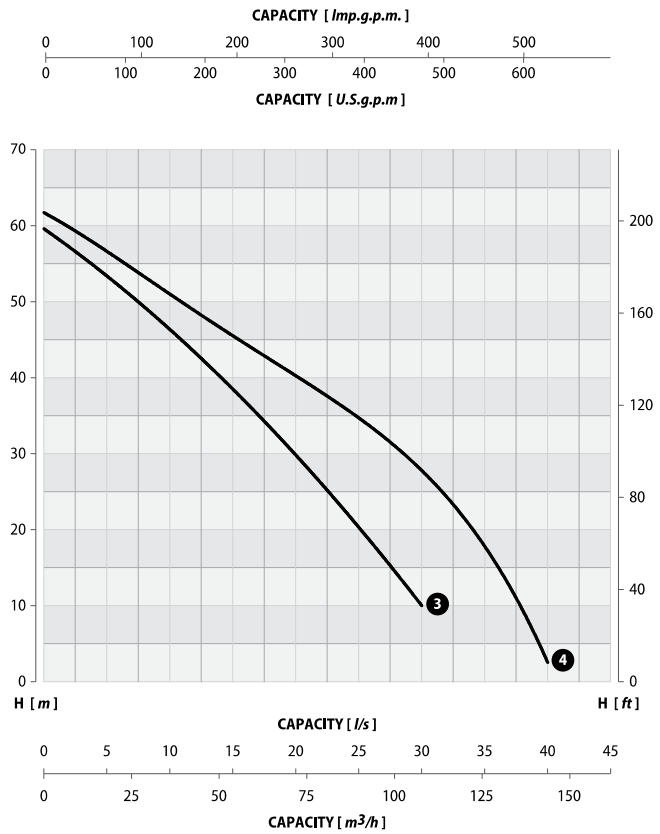
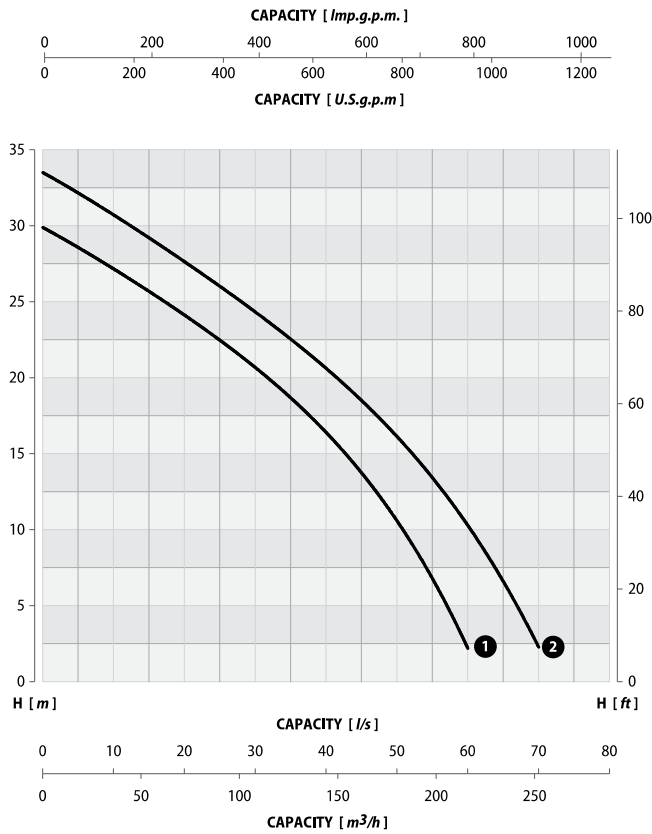
MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CABLE m	WEIGHT kg
		kW	CV				
<b>11K2 BP</b>	14	11	14,9	400/690 (3~)	24	20	175
<b>15K2 BP</b>	19,5	15	20,4	400/690 (3~)	33	20	185
<b>11K2 AP</b>	14	11	14,9	400/690 (3~)	24	20	175
<b>15K2 AP</b>	19,5	15	20,4	400/690 (3~)	33	20	185

<b>HYDRO SERIES</b>	<b>11K2 - 15K2</b>		<b>OPEN IMPELLER</b>	<b>50 Hz</b>
				<b>2 POLE</b>

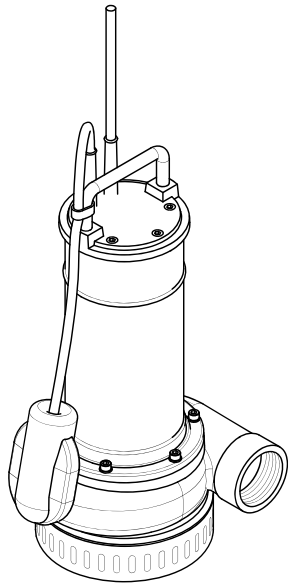
**PERFORMANCE RANGE**

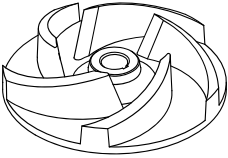
		CAPACITY														
<i>l/s</i>	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	
<i>m³/h</i>	0	18	36	54	72	90	108	126	144	162	180	198	216	234	252	
<i>l/min</i>	0	300	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	3900	4200	

MODEL	CURVE N°	HEAD m														
		<b>11K2 BP</b>	1	30,0	28,5	27,0	25,5	24,5	22,5	21,0	18,5	16,8	13,5	11,0	7,0	2,0
<b>15K2 BP</b>	2	34,0	31,5	30,5	29,0	28,0	26,5	25,0	22,0	20,5	18,0	16,0	13,0	11,5	6,5	2,0
<b>11K2 AP</b>	3	60,0	53,0	46,0	38,5	30,0	21,0	9,5	-	-	-	-	-	-	-	-
<b>15K2 AP</b>	4	62,0	56,0	51,0	46,0	41,0	34,0	26,5	19,5	2,0	-	-	-	-	-	-



Performance tolerance in according to UNI/ISO 9906 Grade 2



<b>HYDROPOMPE</b>		<b>50 Hz</b>
<b>HYDRO SERIES</b>		<b>2 POLE</b>
<b>9XM-9XT-11XM-11XT</b>		

#### USE

Submersible electric pumps suitable for the lifting of clear and dirty water. They can be used as portable pumps either in building yards, basement tanks or for fixed installation with electric panel and float switch.

#### MATERIALS

##### Cover

Cast iron EN GJL 200 (UNI EN 1561)

##### Pump housing

Cast iron EN GJL 200 (UNI EN 1561)

##### Strainer

Stainless steel AISI 304

##### Impeller

Cast iron EN GJL 200 (UNI EN 1561)

##### Seal motor side

Seal ring

##### Mechanical seal impeller side

Silicon Carbide/Silicon Carbide (SiC/SiC)

##### Motor housing

Stainless steel AISI 304

##### Motor shaft

Stainless steel AISI 420

##### Bolts and nuts

Stainless steel Grade A2

##### Cable

5 meters type H07RN-F

Single-phase HYDRO 9XM with 3G1mm<sup>2</sup> cable and SCHUKO (CEE 7/II) plug

Single-phase HYDRO 11XM with 4G1,5mm<sup>2</sup> cable, capacitor box and SCHUKO (CEE 7/II) plug

Three-phase with 4G1mm<sup>2</sup> cable

#### LIMITS TO USE

##### Max temperature of the liquid pumped

+40°C

##### pH of the liquid pumped

6÷10

##### Max immersion depth

5 m

##### Liquid density

1,0 kg/dm<sup>3</sup>

##### Min immersion depth for continuous service

329 mm

##### Free passage

6 mm

##### Max number starts/hour

20

##### Acoustic pressure level issued

<70dB(A)

#### MOTOR

The electric motor is asynchronous with squirrel cage rotor in dry chamber

Class of insulation F

Protection degree IP68

2pole; 50Hz

Main voltage values and relative tolerance in relation to the rated voltage value:

##### SINGLE-PHASE

230V ±6%

built-in overheating protection and float switch

##### THREE-PHASE

230V ±10%

400V ±10%

Other voltages on request.

#### OTHER FEATURES ON REQUEST

10m cable length in accordance with EN 60335-2-41

External capacitor with 4G1mm<sup>2</sup> cable


Frequency 60 Hz (*see specific catalogue*)

Other voltages

With food grade white oil

#### TECHNICAL DATA

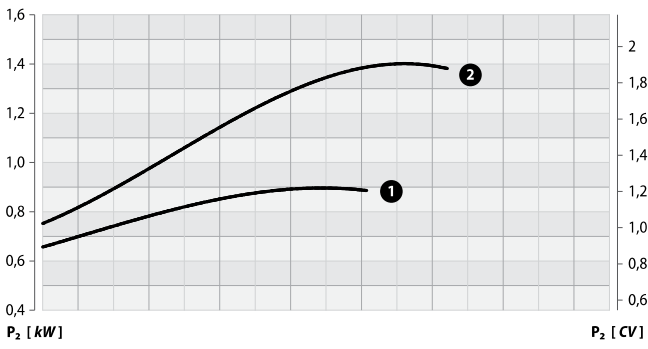
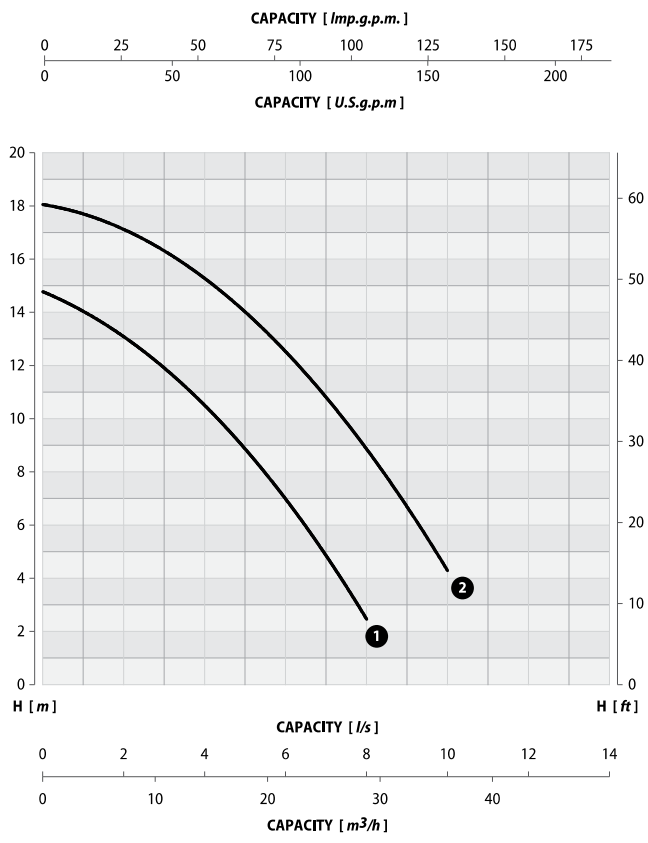
MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CAPACITOR		CABLE m	WEIGHT kg
		kW	CV			µF	V		
<b>9XM</b>	1,20	0,90	1,20	230 (1~)	5,6	20	450	5	18
<b>9XT</b>	1,20	0,90	1,20	230/400 (3~)	3,4/2	-	-	5	18
<b>11XM</b>	1,80	1,40	1,90	230 (1~)	8,8	25	450	5	20
<b>11XT</b>	1,80	1,40	1,90	230/400 (3~)	6,5/3,8	-	-	5	20

<b>HYDRO SERIES</b>	<b>9XM-9XT-11XM-11XT</b>		<b>OPEN IMPELLER</b>	<b>50 Hz</b>
				<b>2 POLE</b>

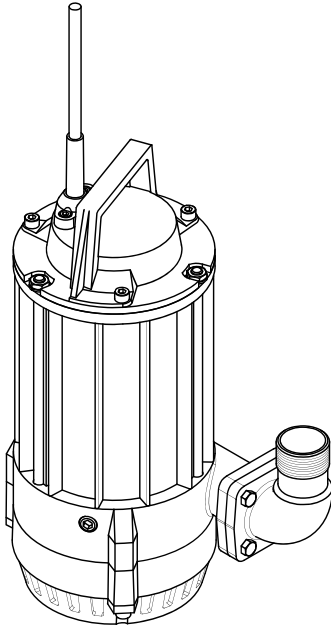
**PERFORMANCE RANGE**

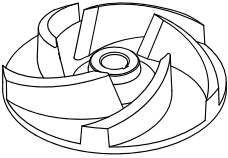
		CAPACITY															
<i>l/s</i>	0	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	6,0	7,0	8,0	9,0	10,0		
<i>m³/h</i>	0	3,6	5,4	7,2	9,0	10,8	12,6	14,4	16,2	18,0	21,6	25,2	28,8	32,4	36,0		
<i>l/min</i>	0	60	90	120	150	180	210	240	270	300	360	420	480	540	600		

MODEL	CURVE N°	HEAD <i>m</i>															
		9XM	1	14,8	14,0	13,5	13,2	12,5	12,0	11,1	10,6	9,7	8,7	7,2	4,7	2,5	-
9XT	11XM	2		18,0	17,7	17,5	17,2	16,6	16,4	15,9	15,5	14,2	14,0	12,8	10,5	9,0	6,8
11XT																	



Performance tolerance in according to UNI/ISO 9906 Grade 2



<b>HYDROPOMPE</b>		<b>50 Hz</b>
<b>HYDRO SERIES</b>		<b>2 POLE</b>
<b>15MAP-20MAP-20TAP</b>		

#### USE

Submersible electric pumps suitable for the lifting of clear and dirty water. They can be used as portable pumps either in building yards, basement tanks or for fixed installation with electric panel and float switch.

#### MATERIALS

##### Cover

Anticorodal aluminium alloy

##### Motor housing

Aluminium alloy EN-AW 6060

##### Pump housing

Anticorodal aluminium alloy

##### Strainer

Anticorodal aluminium alloy

##### Wear plate

Stainless steel AISI 304

##### Impellers

Cast iron EN GJL 200 (UNI EN 1561)

##### Mechanical seal

Silicon Carbide/Silicon Carbide (SiC/SiC)

##### Motor shaft

Stainless steel AISI 431

##### Bolts and nuts

Stainless steel Grade A2

##### Cable

10 meters type H07RN-F

Single-phase with 4G2,5mm<sup>2</sup> cable, capacitor box and SCHUKO (CEE 7/VII) plug

Three-phase with 4G1,5mm<sup>2</sup> cable

#### LIMITS TO USE

##### Max temperature of the liquid pumped

+40°C

##### pH of the liquid pumped

5÷8

##### Max immersion depth

20 m

##### Liquid density

1,0 kg/dm<sup>3</sup>

##### Min immersion depth for continuous service

331 mm

##### Free passage

6 mm

##### Max number starts/hour

20

##### Acoustic pressure level issued

<70dB(A)

#### MOTOR

The electric motor is asynchronous with squirrel cage rotor in oil bath

Class of insulation F

Protection degree IP68

2pole; 50Hz

Main voltage values and relative tolerance in relation to the rated voltage value:

##### SINGLE-PHASE

230V ±6%

built-in overheating protection and float switch

##### THREE-PHASE

230V ±10%

400V ±10%

Other voltages on request.

#### OTHER FEATURES ON REQUEST


Frequency 60 Hz (*see specific catalogue*)

Other voltages

With food grade white oil

#### TECHNICAL DATA

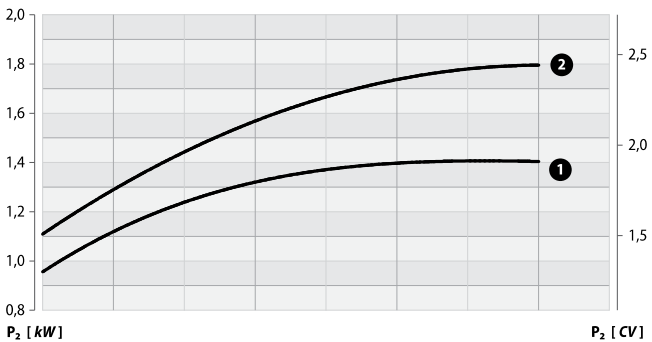
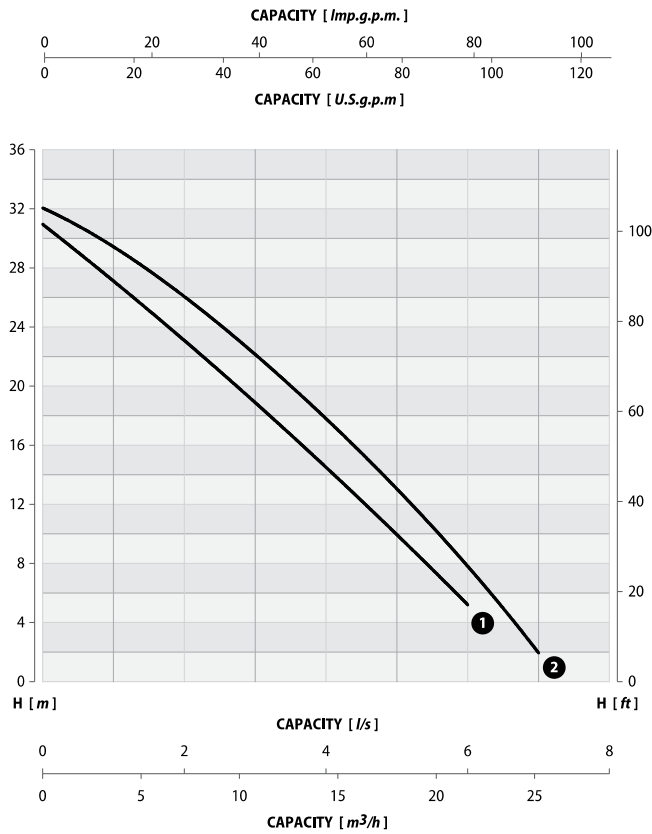
MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CAPACITOR		CABLE m	WEIGHT kg
		kW	CV			µF	V		
15MAP	2,2	1,40	1,90	230 (1~)	12,0	25	450	10	22
20MAP	2,4	1,80	2,40	230 (1~)	14,0	30	450	10	25
20TAP	2,4	1,80	2,40	230/400 (3~)	8,0/4,6	-	-	10	22

<b>HYDRO SERIES</b>	<b>15MAP-20MAP-20TAP</b>		<b>DOUBLE OPEN IMPELLER</b>	<b>50 Hz</b>
				<b>2 POLE</b>

**PERFORMANCE RANGE**

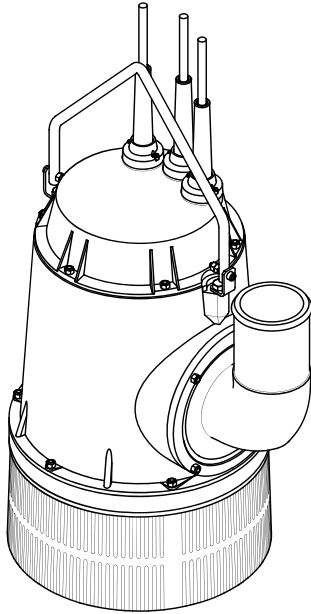
CAPACITY								
<i>l/s</i>	0	1,0	2,0	3,0	4,0	5,0	6,0	7,0
<i>m³/h</i>	0	3,6	7,2	10,8	14,4	18,0	21,6	25,2
<i>l/min</i>	0	60	120	180	240	300	360	420

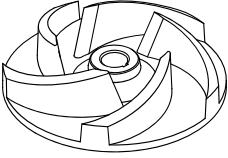
MODEL	CURVE <i>N°</i>	HEAD <i>m</i>							
		15MAP	1	31,0	27,0	23,0	19,0	14,5	10,0
20MAP	2	32,0	29,5	26,0	22,0	18,0	13,0	7,8	2,0
20TAP									



Performance tolerance in according to UNI/ISO 9906 Grade 2





<b>HYDROPOMPE</b>	<b>OPEN IMPELLER</b>	<b>50 Hz</b>
<b>HYDRO SERIES</b>		<b>2 POLE</b>
<b>22K2</b>		

#### IMPIEGHI

Submersible electric pumps suitable for the lifting of clear and dirty water. They are especially used in building yards and for pumping abrasive liquids.

#### MATERIALS

##### Cover

Anticorodal aluminium alloy

##### Motor housing

Anticorodal aluminium alloy

##### Pump housing

Anticorodal aluminium alloy with rubber coating

##### Strainer

Anticorodal aluminium alloy

##### Wear plate

Stainless steel with rubber coating

##### Impeller

Stainless steel

##### Mechanical seal motor side

Ceramics/Graphite

##### Mechanical seal impeller side

Silicon Carbide/Silicon Carbide (SiC/SiC)

##### Motor shaft

Stainless steel AISI 431

##### Bolts and nuts

Stainless steel Grade A2

##### Cable

20 meters type H07RN-F 4G10mm<sup>2</sup> for direct (DOL) starting

20 meters type H07RN-F 4G4mm<sup>2</sup> double cable for Y/Δ starting

#### LIMITS TO USE

##### Max temperature of the liquid pumped

+40°C

##### pH of the liquid pumped

5÷8

##### Max immersion depth

20 m

##### Liquid density

1,1 kg/dm<sup>3</sup>

##### Min immersion depth

350 mm

##### Free passage

7 mm

##### Max number starts/hour

10

##### Acoustic pressure level issued

<70dB(A)

#### MOTOR

The electric motor is asynchronous with squirrel cage rotor in dry chamber

Class of insulation F

Protection degree IP68

2pole; 50Hz

Main voltage values and relative tolerance in relation to the rated voltage value:

##### THREE-PHASE

400V ±10%

Other voltages on request.

#### OTHER FEATURES ON REQUEST


Frequency 60 Hz (*see specific catalogue*)

Thermal probes in the winding

Other voltages

#### TECHNICAL DATA

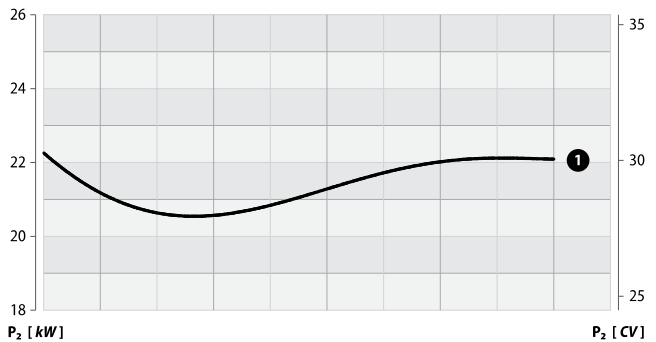
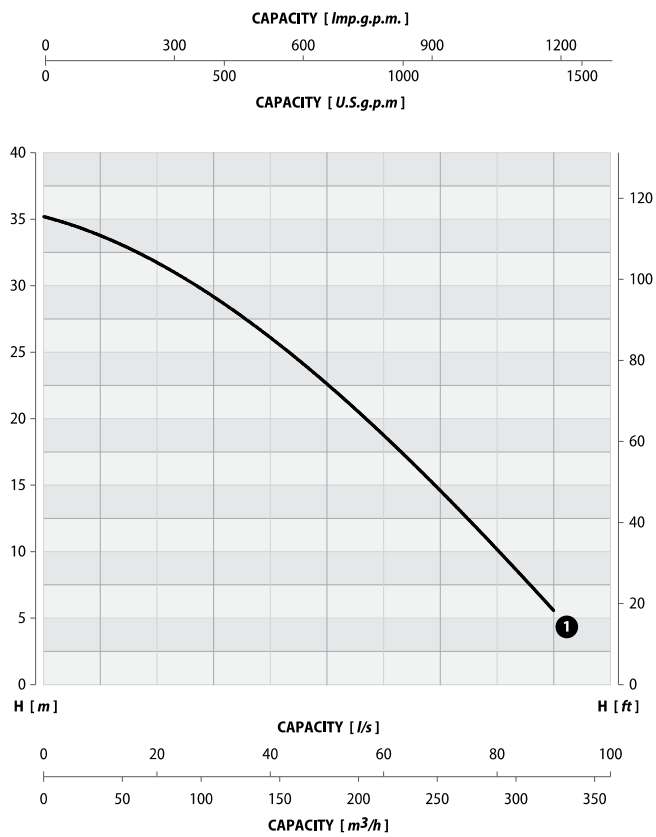
MODEL	P1	P2		VOLTAGE V	CURRENT A	CABLE m	WEIGHT kg
	kW	kW	CV				
<b>22K2</b>	28	22	30	400/690 (3~)	46	20	183

<b>HYDRO SERIES</b>	<b>22K2</b>		<b>OPEN IMPELLER</b>	<b>50 Hz</b>
				<b>2 POLE</b>

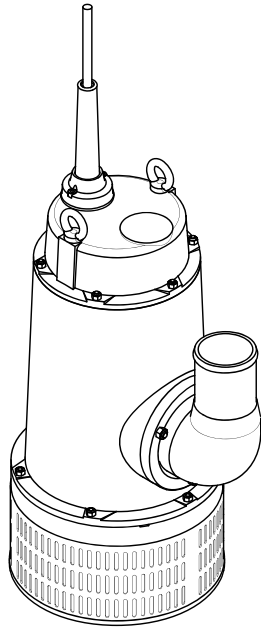
**PERFORMANCE RANGE**

CAPACITY															
<i>l/s</i>	0	5	10	15	20	25	30	35	40	45	50	60	70	80	90
<i>m³/h</i>	0	18	36	54	72	90	108	126	144	162	180	216	252	288	324
<i>l/min</i>	0	300	600	900	1200	1500	1800	2100	2400	2700	3000	3600	4200	4800	5400

MODEL	CURVE N°	HEAD m														
		22K2	1	35,0	-	-	-	32,0	31,0	29,0	28,0	26,0	24,0	22,0	18,5	15,0



Performance tolerance in according to UNI/ISO 9906 Grade 2

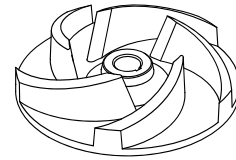


# HYDROPOMPE

## HYDRO SERIES

2400-3200-4200-4500

OPEN  
IMPELLER



50 Hz

2 POLE

### USE

Submersible electric pumps suitable for the lifting of clear and dirty water. They are especially used in building yards and for pumping abrasive liquids.

### MATERIALS

#### Cover

Anticorodal aluminium alloy

#### Motor housing

Anticorodal aluminium alloy

#### Pump housing

Anticorodal aluminium alloy with rubber coating

#### Strainer

Stainless steel AISI 304

#### Wear plate

Stainless steel with rubber coating

#### Impeller

Martensitic stainless steel or with rubber coating

#### Mechanical seal motor side

Ceramics/Graphite

#### Mechanical seal impeller side

Silicon Carbide/Silicon Carbide (SiC/SiC)

#### Motor shaft

Stainless steel AISI 431

#### Bolts and nuts

Stainless steel Grade A2

#### Cable

20 meters type H07RN-F 4G4mm<sup>2</sup>

### LIMITS TO USE

#### Max temperature of the liquid pumped

+40°C

#### pH of the liquid pumped

5÷8

#### Max immersion depth

20 m

#### Liquid density

1,1 kg/dm<sup>3</sup>

#### Min immersion depth

200 mm

#### Free passage

6 mm

#### Max number starts/hour

15

#### Acoustic pressure level issued

<70dB(A)

### MOTOR

The electric motor is asynchronous with squirrel cage rotor in dry chamber

Class of insulation F

Protection degree IP68

2pole; 50Hz

Main voltage values and relative tolerance in relation to the rated voltage value:

#### THREE-PHASE

230V ±10%

400V ±10%

Other voltages on request.

### OTHER FEATURES ON REQUEST

With industrial plug (IEC 60309-2) in accordance with EN 60335-2-41

With coating in composite material for wear protection\*

Frequency 60 Hz (*see specific catalogue*)

Other voltages

\* Possible variations of the hydraulic performance

### TECHNICAL DATA

MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CABLE m	WEIGHT kg
		kW	CV				
2400 BP	6,8	5,0	6,8	230/400 (3~)	20,7/12,0	20	70
3200 BP	8,5	7,0	9,5	230/400 (3~)	26,0/15,0	20	80
4200 BP	10,0	8,1	11,0	230/400 (3~)	28,5/16,5	20	85
4500 BP	12,0	10,0	13,6	230/400 (3~)	32,8/19,0	20	87
2400 AP	6,8	5,0	6,8	230/400 (3~)	20,7/12,0	20	70
3200 AP	8,5	7,0	9,5	230/400 (3~)	26,0/15,0	20	80

# HYDRO SERIES

2400-3200-4200-4500



OPEN IMPELLER

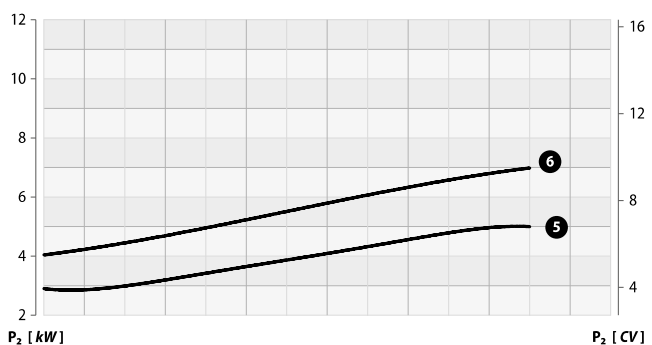
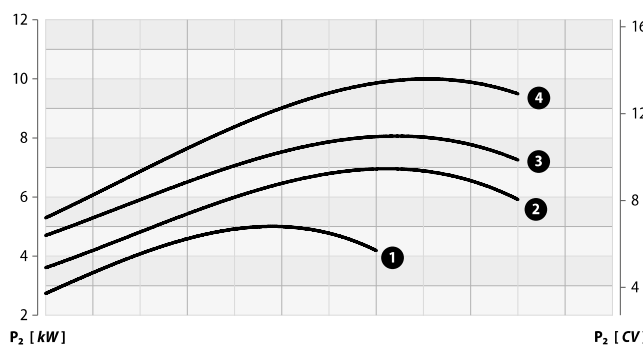
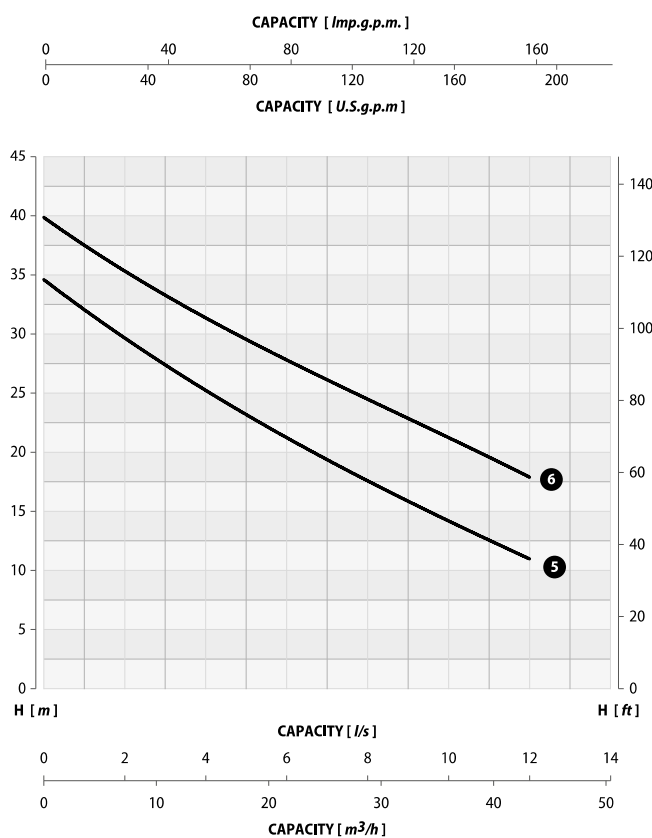
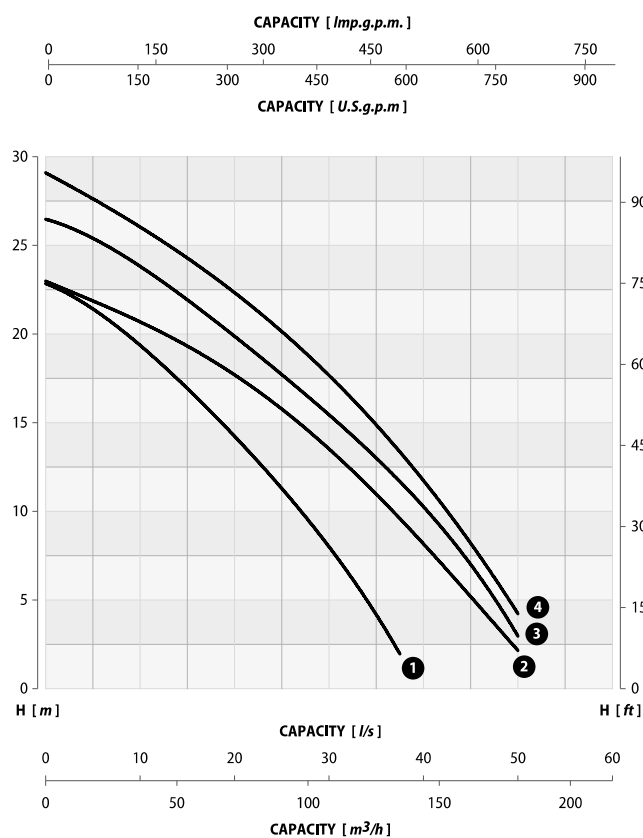
50 Hz

2 POLE

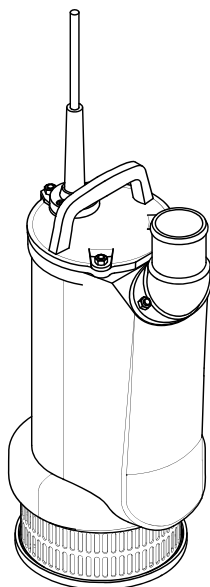
## PERFORMANCE RANGE

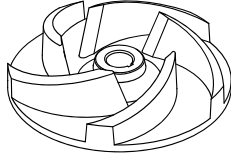
		CAPACITY															
<i>l/s</i>	0	2	4	6	8	10	12	15	20	25	30	35	37,5	40	45	50	
<i>m³/h</i>	0	7,2	14,4	21,6	28,8	36	43,2	54	72	90	108	126	135	144	162	180	
<i>l/min</i>	0	120	240	360	480	600	720	900	1200	1500	1800	2100	2250	2400	2700	3000	

MODEL	CURVE N°	HEAD <i>m</i>															
		23,0	22,0	21,6	21,1	20,2	20,0	18,0	17,0	14,0	11,5	8,0	4,1	2,0	-	-	-
2400 BP	1	23,0	22,0	21,6	21,1	20,2	20,0	18,0	17,0	14,0	11,5	8,0	4,1	2,0	-	-	-
3200 BP	2	23,0	22,6	22,2	21,5	21,1	20,6	20,0	19,5	18,0	16,0	13,0	11,0	9,5	8,2	5,5	2,0
4200 BP	3	26,5	26,0	25,6	25,1	24,8	24,5	22,5	21,5	20,0	17,8	15,5	13,1	11,8	10,0	7,0	3,0
4500 BP	4	28,6	28,4	28,2	27,8	27,0	26,5	25,0	24,0	22,0	20,0	17,5	15,0	13,5	12,0	8,3	4,0
2400 AP	5	34,5	30,0	25,0	21,0	18,0	14,0	11,0	-	-	-	-	-	-	-	-	-
3200 AP	6	40,0	35,0	31,5	28,0	24,5	21,0	18,0	-	-	-	-	-	-	-	-	-



Performance tolerance in according to UNI/ISO 9906 Grade 2



<b>HYDROPOMPE</b>		<b>50 Hz</b>
<b>HYDRO SERIES</b>		<b>2 POLE</b>
<b>N1100M-N1100T-40T-50T</b>		

#### USE

Submersible electric pumps suitable for the lifting of clear and dirty water. They are especially used in building yards and for pumping abrasive liquids. Owing to their maneuverability they can be easily moved.

#### MATERIALS

##### Cover

Anticorodal aluminium alloy

##### Motor housing

Anticorodal aluminium alloy

##### Pump housing

Anticorodal aluminium alloy

##### Strainer

Stainless steel AISI 304

##### Wear plate

Anticorodal aluminium alloy with rubber coating

##### Impeller

HYDRO 1100 Cast iron EN GJL 200

HYDRO 40T-50T Martensitic stainless steel

##### Mechanical seal motor side

Ceramics/Graphite

##### Mechanical seal impeller side

Silicon Carbide/Silicon Carbide (SiC/SiC)

##### Motor shaft

Stainless steel AISI 420

##### Bolts and nuts

Stainless steel Grade A2

##### Cable

10 meters type H07RN-F

HYDRO N1100M with 4G2,5 mm<sup>2</sup> cable, capacitor box and SCHUKO (CEE 7/VII) plug

Three-phase with 4G1,5 mm<sup>2</sup> cable

HYDRO 50T with 4G2,5 mm<sup>2</sup> cable

#### LIMITS TO USE

##### Max temperature of the liquid pumped

+40°C

##### pH of the liquid pumped

5÷8

##### Max immersion depth

20 m

##### Liquid density

1,1 kg/dm<sup>3</sup>

##### Min immersion depth

457 mm

##### Free passage

6 mm

##### Max number starts/hour

20

##### Acoustic pressure level issued

<70dB(A)

#### MOTOR

The electric motor is asynchronous with squirrel cage rotor in dry chamber

Class of insulation F

Protection degree IP68

2pole; 50Hz

Main voltage values and relative tolerance in relation to the rated voltage value:

##### SINGLE-PHASE

230V ±6%

##### THREE-PHASE

230V ±10%

400V ±10%

Other voltages on request.

#### OTHER FEATURES ON REQUEST

With industrial plug (IEC 60309-2) in accordance with EN 60335-2-41

With coating in composite material for wear protection\*


Frequency 60 Hz (*see specific catalogue*)

Other voltages

\* Possible variations of the hydraulic performance

#### TECHNICAL DATA

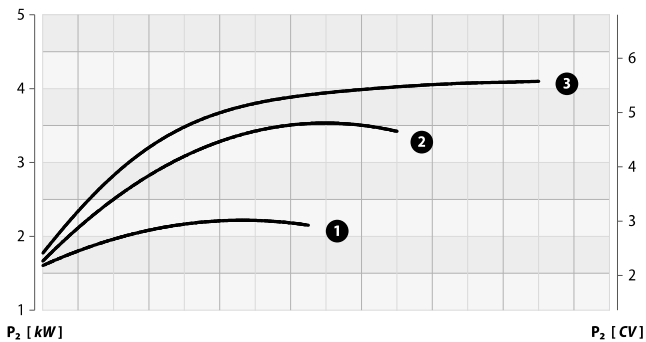
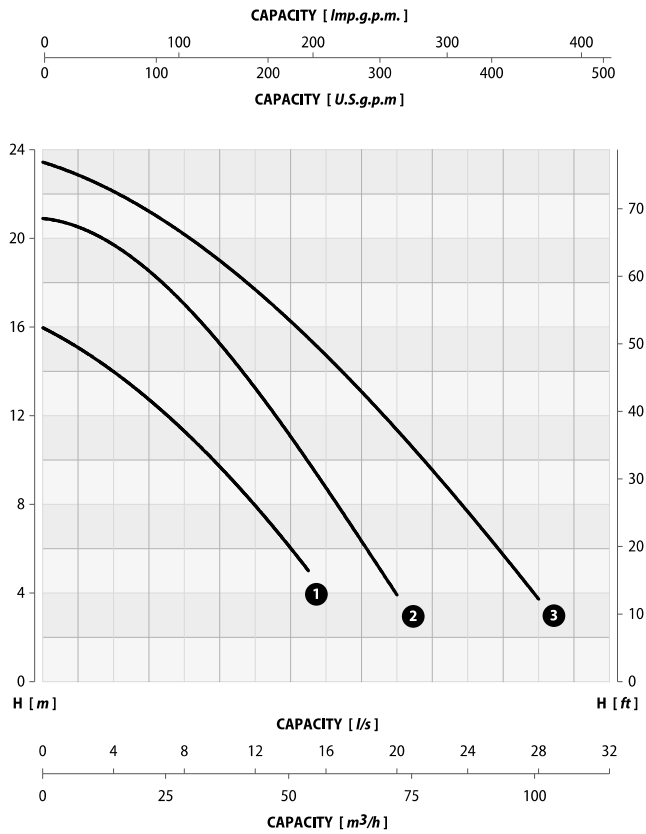
MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CAPACITOR		CABLE m	WEIGHT kg
		kW	CV			µF	V		
<b>N1100M</b>	3,0	2,2	3,0	230 (1~)	14,0	50	450	10	33
<b>N1100T</b>	3,0	2,2	3,0	400 (3~)	5,2	-	-	10	30
<b>40T</b>	4,7	3,5	4,7	400 (3~)	8,0	-	-	10	31
<b>50T</b>	6,2	4,1	5,5	400 (3~)	9,9	-	-	10	35

<b>HYDRO SERIES</b>	<b>N1100M-N1100T-40T-50T</b>		<b>OPEN IMPELLER</b>	<b>50 Hz</b>
				<b>2 POLE</b>

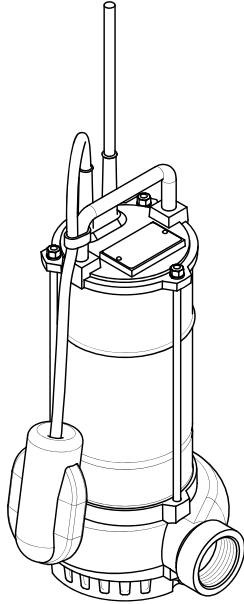
**PERFORMANCE RANGE**

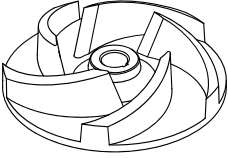
CAPACITY											
<i>l/s</i>	0	2	4	6	8	10	12	15	20	25	28
<i>m³/h</i>	0	7,2	14,4	21,3	28,8	36,0	43,2	54,0	72,0	90,0	100,8
<i>l/min</i>	0	120	240	360	480	600	720	900	1200	1500	1680

MODEL	CURVE <i>N°</i>	HEAD <i>m</i>										
		N1100M	1	16,0	15,0	14,0	12,8	11,3	9,6	8,0	5,0	-
N1100T	21,0	20,5		19,5	18,5	17,0	15,5	13,5	9,5	4,0	-	-
40T	2	23,3	22,9	22,5	21,0	20,5	18,5	17,5	15,8	11,5	6,5	3,8
50T	3											



Performance tolerance in according to UNI/ISO 9906 Grade 2



<b>HYDROPOMPE</b>	<b>OPEN IMPELLER</b> 	<b>50 Hz</b>
<b>HYDRO SERIES</b>		<b>2 POLE</b>
<b>4XM-6XM-8XM-8XT</b>		

#### USE

Submersible electric pumps particularly suitable for the emptying of basements, garages, cellars and flooded premises.

#### MATERIALS

##### Cover

Cast iron EN GJL 200 (UNI EN 1561)

##### Pump housing

Cast iron EN GJL 200 (UNI EN 1561)

##### Strainer

Anticorodal aluminium alloy

##### Impeller

Cast iron EN GJL 200 (UNI EN 1561)

##### Seal motor side

Seal ring

##### Mechanical seal impeller side

Steatite/Graphite

##### Motor housing

Stainless steel AISI 304

##### Motor shaft

Stainless steel AISI 416

##### Bolts and nuts

Stainless steel Grade A2

##### Cable

5 meters type H07RN-F

Single-phase with 3G1mm<sup>2</sup> cable and SCHUKO (CEE 7/II) plug

Three-phase with 4G1mm<sup>2</sup> cable

#### LIMITS TO USE

##### Max temperature of the liquid pumped

+40°C

##### pH of the liquid pumped

6÷10

##### Max immersion depth

5 m

##### Liquid density

1,0 kg/dm<sup>3</sup>

##### Min immersion depth for continuous service

266 mm

##### Free passage

8 mm

##### Max number starts/hour

20

##### Acoustic pressure level issued

<70dB(A)

#### MOTOR

The electric motor is asynchronous with squirrel cage rotor in oil bath

Class of insulation F

Protection degree IP68

2pole; 50Hz

Main voltage values and relative tolerance in relation to the rated voltage value:

##### SINGLE-PHASE

230V ±6%

built-in overheating protection and float switch

##### THREE-PHASE

230V ±10%

400V ±10%

Other voltages on request.

#### OTHER FEATURES ON REQUEST

10m cable length in accordance with EN 60335-2-41

Silicon carbide (SiC/SiC) mechanical seal


Frequency 60 Hz (see specific catalogue)

Other voltages

With food grade white oil

#### TECHNICAL DATA

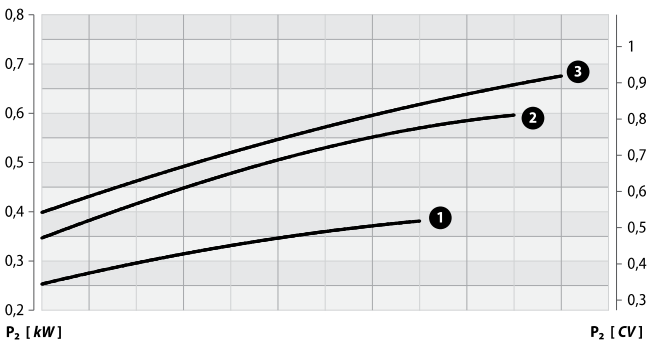
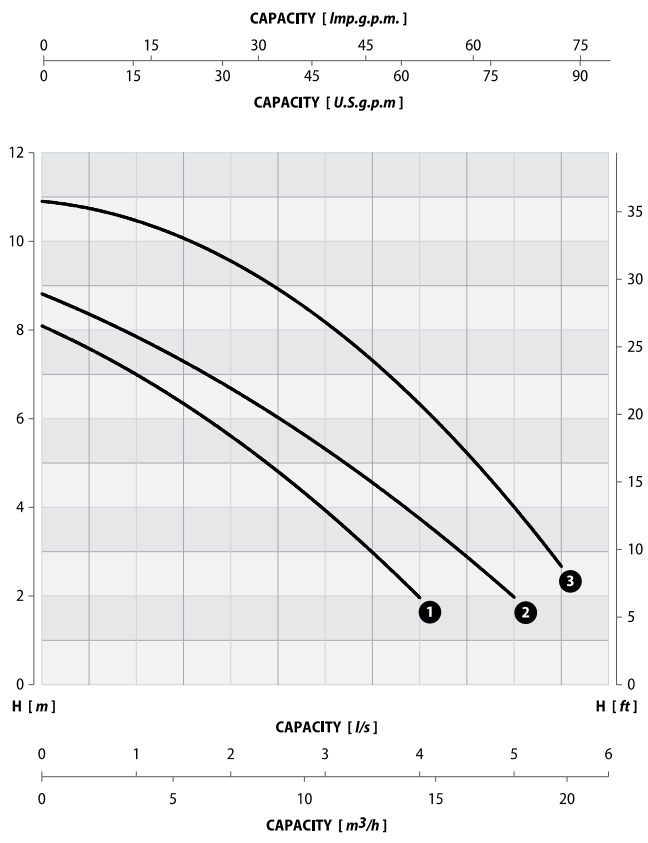
MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CAPACITOR		CABLE m	WEIGHT kg
		kW	CV			µF	V		
<b>4XM</b>	0,58	0,37	0,50	230 (1~)	3,0	8	450	5	11
<b>6XM</b>	0,72	0,60	0,80	230 (1~)	3,7	10	450	5	11
<b>8XM</b>	0,88	0,70	0,95	230 (1~)	4,8	14	450	5	14
<b>8XT</b>	0,88	0,70	0,95	230/400 (3~)	3,1/1,8	-	-	5	14

<b>HYDRO SERIES</b>	<b>4XM-6XM-8XM-8XT</b>		<b>OPEN IMPELLER</b>	<b>50 Hz</b>
				<b>2 POLE</b>

**PERFORMANCE RANGE**

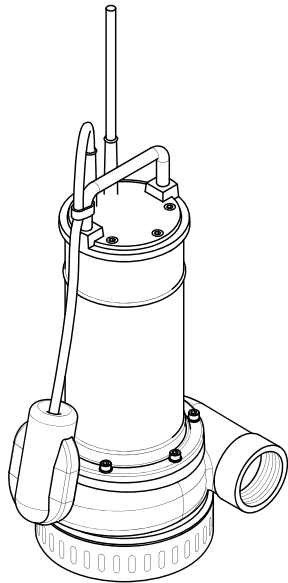
CAPACITY												
<i>l/s</i>	0	0,5	1	1,5	2	2,5	3,0	3,5	4,0	4,5	5,0	5,5
<i>m³/h</i>	0	1,8	3,6	5,4	7,2	9,0	10,8	12,6	14,4	16,2	18,0	19,8
<i>l/min</i>	0	30	60	90	120	150	180	210	240	270	300	330

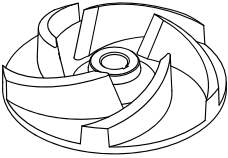
MODEL	CURVE N°	HEAD m											
		4XM	1	8,0	7,6	7,1	6,5	5,6	4,5	4,0	3,0	2,0	-
6XM	2	8,9	8,2	8,0	7,1	6,8	6,0	5,4	4,5	3,8	2,8	2,0	-
8XM	3	11,0	10,8	10,5	9,9	9,4	8,8	8,2	7,4	6,5	5,4	4,1	2,4
8XT													



Performance tolerance in according to UNI/ISO 9906 Grade 2





<b>HYDROPOMPE</b>		<b>50 Hz</b>
<b>HYDRO SERIES</b>		<b>2 POLE</b>
<b>9XM-9XT-11XM-11XT</b>		

#### USE

Submersible electric pumps suitable for the lifting of clear and dirty water. They can be used as portable pumps either in building yards, basement tanks or for fixed installation with electric panel and float switch.

#### MATERIALS

##### Cover

Cast iron EN GJL 200 (UNI EN 1561)

##### Pump housing

Cast iron EN GJL 200 (UNI EN 1561)

##### Strainer

Stainless steel AISI 304

##### Impeller

Cast iron EN GJL 200 (UNI EN 1561)

##### Seal motor side

Seal ring

##### Mechanical seal impeller side

Silicon Carbide/Silicon Carbide (SiC/SiC)

##### Motor housing

Stainless steel AISI 304

##### Motor shaft

Stainless steel AISI 420

##### Bolts and nuts

Stainless steel Grade A2

##### Cable

5 meters type H07RN-F

Single-phase HYDRO 9XM with 3G1mm<sup>2</sup> cable and SCHUKO (CEE 7/II) plug

Single-phase HYDRO 11XM with 4G1,5mm<sup>2</sup> cable, capacitor box and SCHUKO (CEE 7/II) plug

Three-phase with 4G1mm<sup>2</sup> cable

#### LIMITS TO USE

**Max temperature of the liquid pumped**  
+40°C

**pH of the liquid pumped**  
6÷10

**Max immersion depth**  
5 m

**Liquid density**  
1,0 kg/dm<sup>3</sup>

**Min immersion depth for continuous service**  
329 mm

**Free passage**

6 mm

**Max number starts/hour**  
20

**Acoustic pressure level issued**  
<70dB(A)

#### MOTOR

The electric motor is asynchronous with squirrel cage rotor in dry chamber

Class of insulation F

Protection degree IP68

2pole; 50Hz

Main voltage values and relative tolerance in relation to the rated voltage value:

##### SINGLE-PHASE

230V ±6%

built-in overheating protection and float switch

##### THREE-PHASE

230V ±10%

400V ±10%

Other voltages on request.

#### OTHER FEATURES ON REQUEST

10m cable length in accordance with EN 60335-2-41

External capacitor with 4G1mm<sup>2</sup> cable


Frequency 60 Hz (*see specific catalogue*)

Other voltages

With food grade white oil

#### TECHNICAL DATA

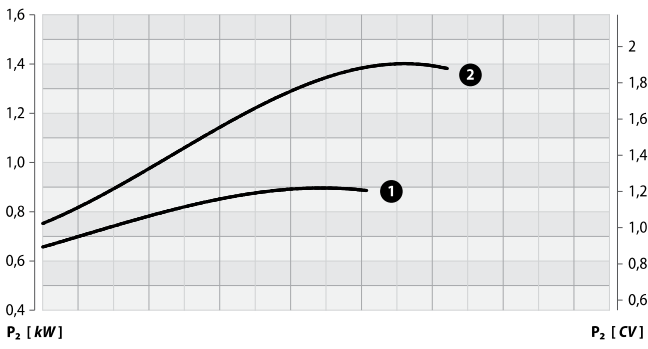
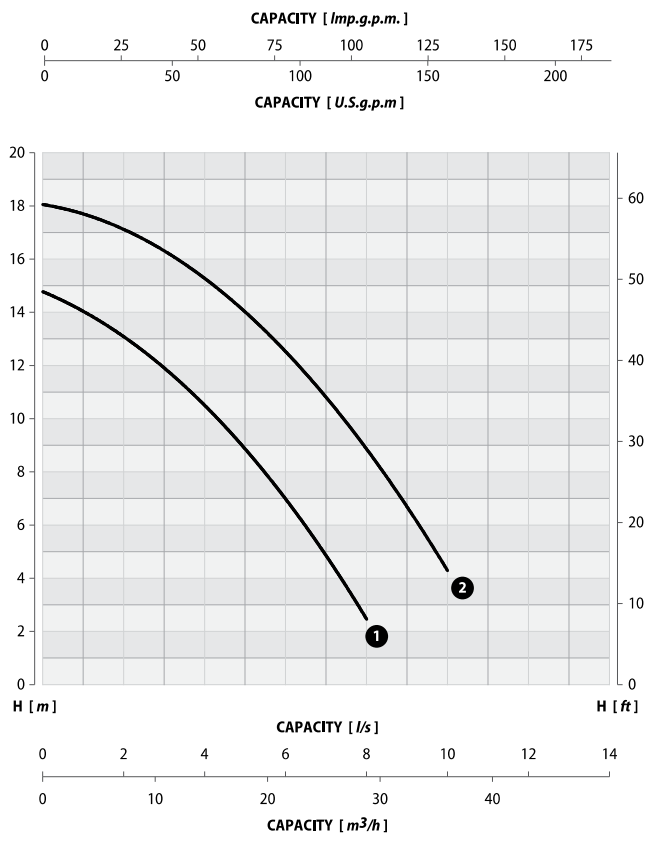
MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CAPACITOR		CABLE m	WEIGHT kg
		kW	CV			µF	V		
<b>9XM</b>	1,20	0,90	1,20	230 (1~)	5,6	20	450	5	18
<b>9XT</b>	1,20	0,90	1,20	230/400 (3~)	3,4/2	-	-	5	18
<b>11XM</b>	1,80	1,40	1,90	230 (1~)	8,8	25	450	5	20
<b>11XT</b>	1,80	1,40	1,90	230/400 (3~)	6,5/3,8	-	-	5	20

<b>HYDRO SERIES</b>	<b>9XM-9XT-11XM-11XT</b>		<b>OPEN IMPELLER</b>	<b>50 Hz</b>
				<b>2 POLE</b>

**PERFORMANCE RANGE**

		CAPACITY															
<i>l/s</i>	0	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	6,0	7,0	8,0	9,0	10,0		
<i>m³/h</i>	0	3,6	5,4	7,2	9,0	10,8	12,6	14,4	16,2	18,0	21,6	25,2	28,8	32,4	36,0		
<i>l/min</i>	0	60	90	120	150	180	210	240	270	300	360	420	480	540	600		

MODEL	CURVE N°	HEAD <i>m</i>															
		9XM	1	14,8	14,0	13,5	13,2	12,5	12,0	11,1	10,6	9,7	8,7	7,2	4,7	2,5	-
9XT	11XM	2		18,0	17,7	17,5	17,2	16,6	16,4	15,9	15,5	14,2	14,0	12,8	10,5	9,0	6,8
11XT																	



Performance tolerance in according to UNI/ISO 9906 Grade 2



За контакт | For contact

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