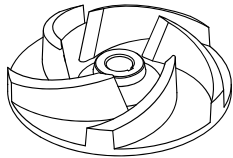


<b>HYDROPOMPE</b>	<b>OPEN IMPELLER</b>	<b>50 Hz</b>
<b>HYDRO SERIES</b>		<b>2 POLE</b>
<b>10M-10T-15T-15M-20M-20T-30T</b>		

#### 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

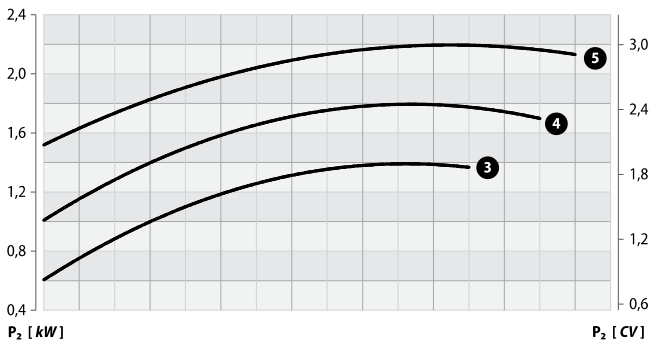
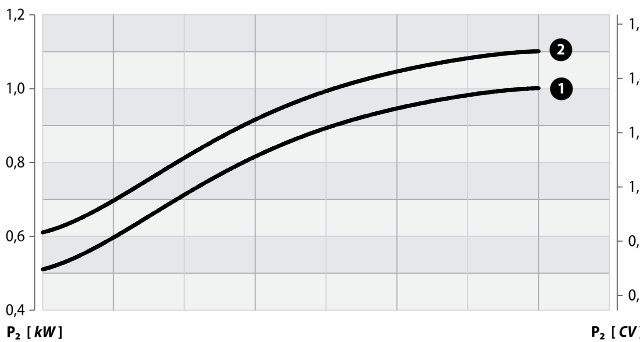
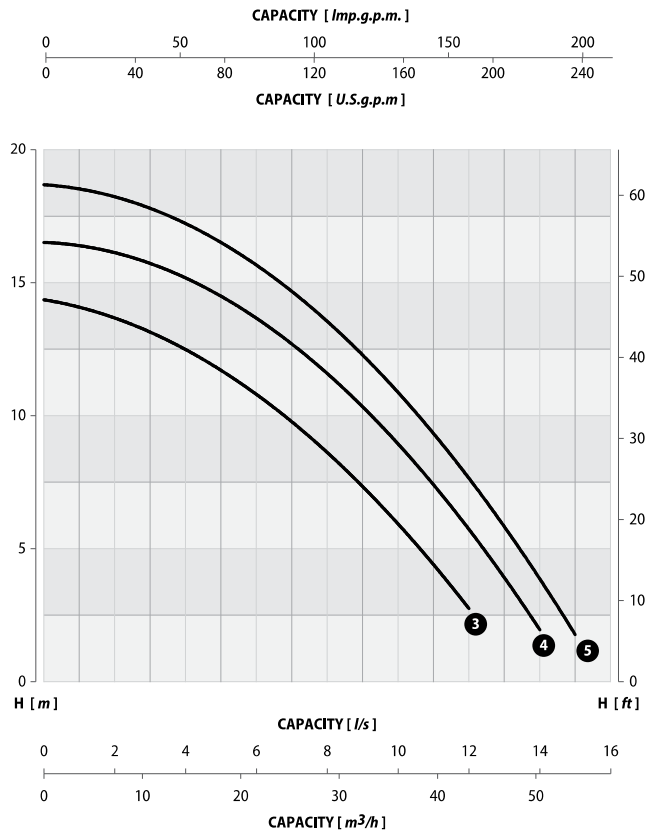
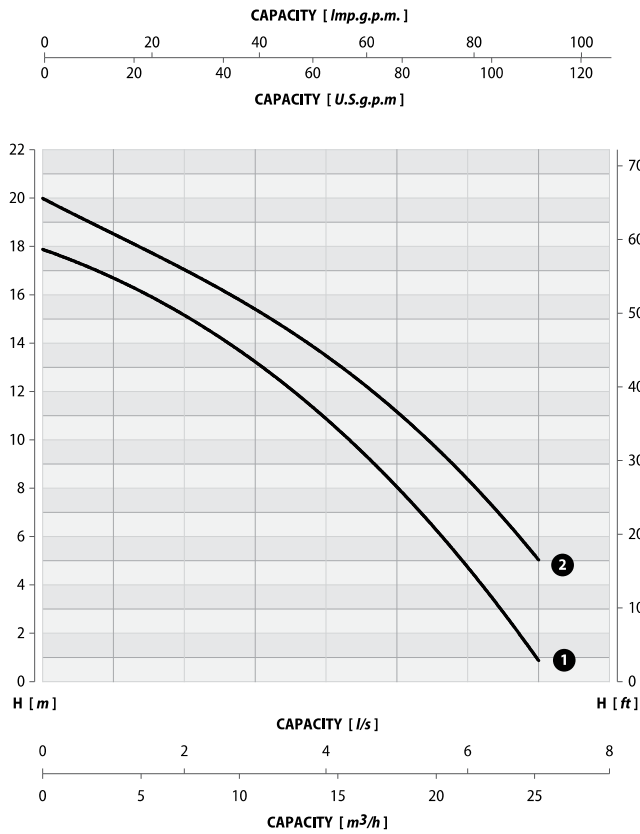
MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CAPACITOR		CABLE m	WEIGHT kg
		kW	CV			µF	V		
10M	1,4	1,0	1,36	230 (1~)	7,2	25	450	5	20
10T	1,4	1,0	1,36	230/400 (3~)	2,0	-	-	5	20
15T	1,7	1,1	1,5	230/400 (3~)	5,2/3,0	-	-	5	20
15M	2,1	1,4	1,9	230 (1~)	12,0	25	450	5	23
20M	2,4	1,8	2,4	230 (1~)	14,0	30	450	5	27
20T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

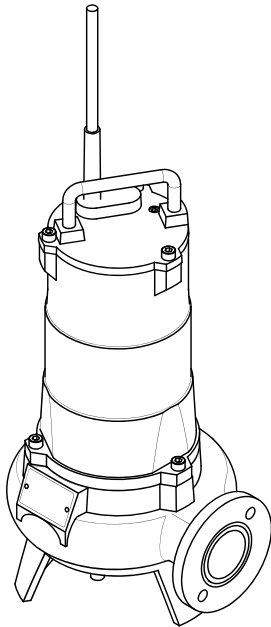
**PERFORMANCE RANGE**

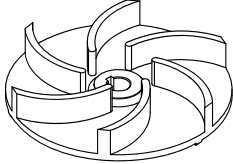
CAPACITY																	
<i>l/s</i>	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
<i>m³/h</i>	0	3,6	7,2	10,8	14,4	18,0	21,6	25,2	28,8	32,4	36,0	39,6	43,2	46,8	50,4	54,0	
<i>l/min</i>	0	60	120	180	240	300	360	420	480	540	600	660	720	780	840	900	

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>VORTEX IMPELLER</b>	<b>50 Hz</b>
<b>F SERIES</b>		<b>4 POLE</b>
<b>104M-104T-154M-154T</b>		

**USE**

Submersible electric pumps suitable for pumping screened waste water, draining the sewage of blocks of flats and houses and flooded premises in general.

**MATERIALS**

**Cover**  
Cast iron EN GJL 200 (UNI EN 1561)

**Pump housing**  
Cast iron EN GJL 200 (UNI EN 1561)

**Motor housing**  
Cast iron EN GJL 200 (UNI EN 1561)

**Supporting foot**  
Cast iron EN GJL 200 (UNI EN 1561)

**Impeller**  
Cast iron EN GJL 200 (UNI EN 1561)

**Mechanical seal**  
Silicon Carbide/Silicon Carbide (SiC/SiC)

**Motor shaft**  
Stainless steel AISI 416

**Bolts and nuts**  
Stainless steel Grade A2

**Cable**  
5 meters type H07RN-F  
Single-phase with 4G1,5mm<sup>2</sup> cable, capacitor box and SCHUKO (CEE 7/VII) plug  
Three-phase with 4G1,5mm<sup>2</sup> cable

**LIMITI D'IMPIEGO**

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

**pH of the liquid pumped**  
6÷10

**Max immersion depth**  
20 m

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

**Min immersion depth for continuous service**  
104M-104T 353 mm  
154M-154T 380 mm

**Free passage**  
104M-104T 40 mm  
154M-154T 50 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  
4pole; 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**

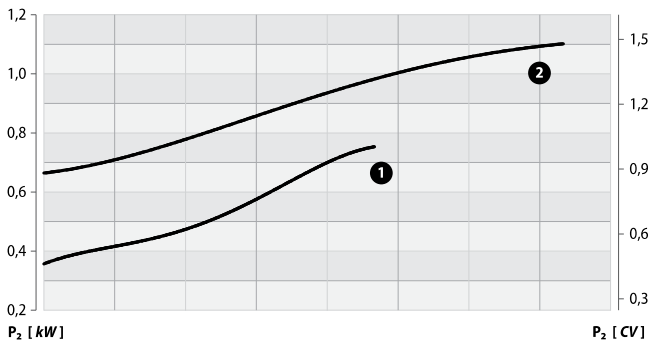
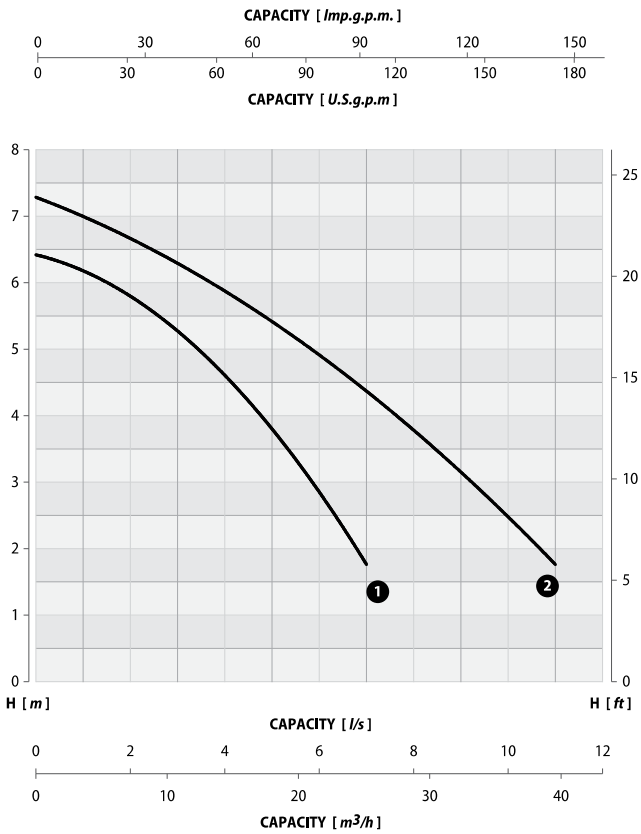
MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CAPACITOR		CABLE m	WEIGHT kg
		kW	CV			μF	V		
<b>104M</b>	1,2	0,75	1,2	230 (1~)	5,0	14	450	5	29
<b>104T</b>	1,2	0,75	1,2	230/400 (3~)	3,5/1,9	-	-	5	29
<b>154M</b>	1,5	1,1	1,5	230 (1~)	7,7	20	450	5	33
<b>154T</b>	1,5	1,1	1,5	230/400 (3~)	4,8/2,8	-	-	5	33

<b>F SERIES</b>	<b>104M-104T-154M-154T</b>		<b>VORTEX IMPELLER</b>	<b>50 Hz</b>
				<b>4 POLE</b>

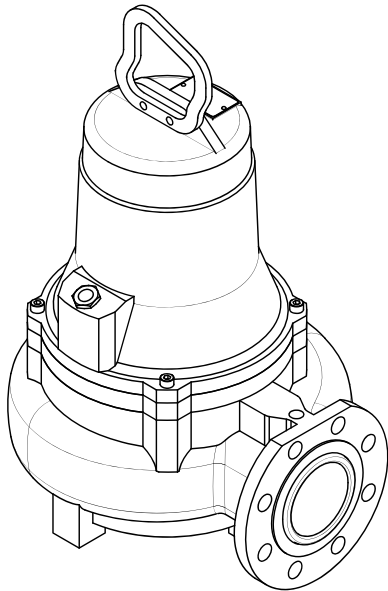
**PERFORMANCE RANGE**

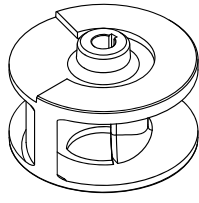
CAPACITY												
<i>l/s</i>	0	1	2	3	4	5	6	7	8	9	10	11
<i>m³/h</i>	0	3,6	7,2	10,8	14,4	18,0	21,6	25,2	28,8	32,4	36,0	39,6
<i>l/min</i>	0	60	120	180	240	300	360	420	480	540	600	660

MODEL	CURVE N°	HEAD <i>m</i>												
		104M	1	6,4	6,2	5,8	5,3	4,6	3,8	2,8	1,8	-	-	-
104T	154M	2		7,4	7,0	6,6	6,2	5,8	5,4	4,9	4,4	3,9	3,3	2,5
154T														



Performance tolerance in according to UNI/ISO 9906 Grade 2



<b>HYDROPOMPE</b>	<b>SINGLE CHANNEL IMPELLER</b>	<b>DN 150</b>
<b>F SERIES</b>		<b>50 Hz</b>
<b>704/433-1154/453-1504/463</b>		<b>4 POLE</b>

#### USE

Submersible electric pumps particularly suitable for pumping industrial sewage, screened waste water and mud in the pumping stations. They can be used also to lift clear and dirty water and rain water.

#### MATERIALS

##### Motor housing

Cast iron EN GJL 250 (UNI EN 1561)

##### Pump housing

Cast iron EN GJL 250 (UNI EN 1561)

##### Bearing housing

Cast iron EN GJL 250 (UNI EN 1561)

##### Impeller

Cast iron EN GJL 250 (UNI EN 1561)

##### Mechanical seal motor side

Graphite/Ceramic

##### Mechanical seal impeller side

Silicon Carbide/Ceramic

##### Base frame

Hot-dipped galvanized steel

##### Motor shaft

Stainless steel AISI 420

##### Bolts and nuts

Stainless steel Grade A2

##### Cable

10 meters type NSSHÖU-J 10G2,5mm<sup>2</sup>

#### 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

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

##### Min immersion depth for continuous service

635 mm

##### Free passage

100 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

4pole; 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*)

Other voltages


#### SECURITY

Thermal probes in the winding

Conductivity probe in the oil chamber

#### TECHNICAL DATA

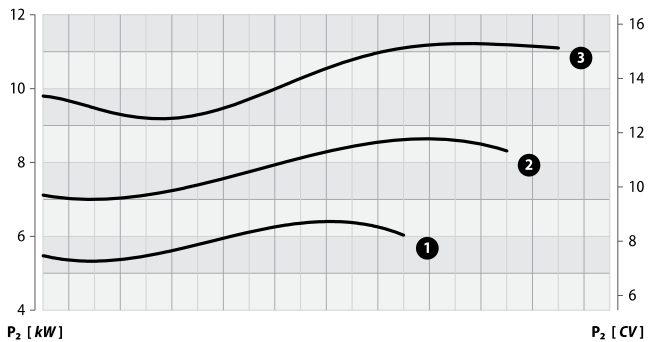
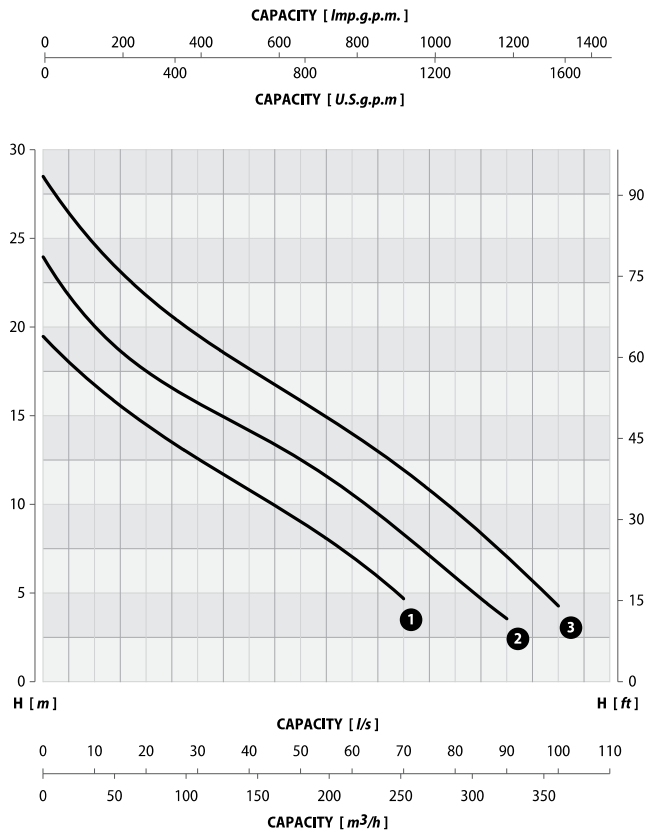
MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CABLE m	WEIGHT kg
		kW	CV				
<b>704/433</b>	8,0	6,5	8,8	400/690 (3~)	14,5	10	156
<b>1154/453</b>	10,4	8,5	11,5	400/690 (3~)	18,5	10	163
<b>1504/463</b>	13,5	11,2	15,2	400/690 (3~)	23,5	10	174

<b>F SERIES</b>	<b>704/433-1154/453-1504/463</b>		<b>SINGLE CHANNEL IMPELLER</b>	<b>DN 150</b>
				<b>50 Hz</b>
				<b>4 POLE</b>

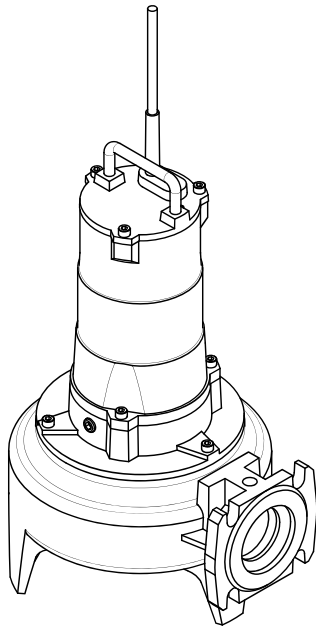
**PERFORMANCE RANGE**

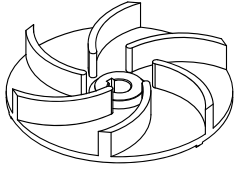
CAPACITY														
<i>l/s</i>	0	15	20	30	40	45	50	55	60	65	70	80	90	100
<i>m³/h</i>	0	54	72	108	144	162	180	198	216	234	252	288	324	360
<i>l/min</i>	0	900	1200	1800	2400	2700	3000	3300	3600	3900	4200	4800	5400	6000

MODEL	CURVE N°	HEAD <i>m</i>													
		<b>704/433</b>	1	19,5	15,5	14,5	12,5	11,0	10,0	9,0	8,0	7,0	5,8	4,8	-
<b>1154/453</b>	2	24,0	18,5	17,5	16,0	14,0	13,5	12,5	11,5	10,5	9,5	8,3	6,0	3,5	-
<b>1504/463</b>	3	28,5	23,0	22,0	19,5	17,6	16,7	15,8	15,0	14,0	13,0	12,0	9,6	7,0	4,3



Performance tolerance in according to UNI/ISO 9906 Grade 2



<b>HYDROPOMPE</b>	<b>VORTEX IMPELLER</b>	<b>DN 65</b>
<b>F SERIES</b>		<b>50 Hz</b>
<b>204/07M-204/07T-204/11M 204/11T-204/16T</b>		<b>4 POLE</b>

#### USE

Submersible electric pumps particularly suitable for pumping industrial sewage, screened waste water and mud in the pumping stations. They can be used also to lift clear and dirty water and rain water.

#### MATERIALS

##### Cover

Cast iron EN GJL 200 (UNI EN 1561)

##### Motor housing

Cast iron EN GJL 200 (UNI EN 1561)

##### Pump housing

Cast iron EN GJL 200 (UNI EN 1561)

##### Bearing housing

Cast iron EN GJL 200 (UNI EN 1561)

##### 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

Single-phase with 4G1,5mm<sup>2</sup> cable, capacitor box ang 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

6÷10

##### Max immersion depth

20 m

##### Liquid density

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

##### Min immersion depth for continuous service

442 mm

##### Free passage

60 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

4pole; 50Hz

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

##### SINGLE-PHASE

230V ±6% built-in overheating protection

##### 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

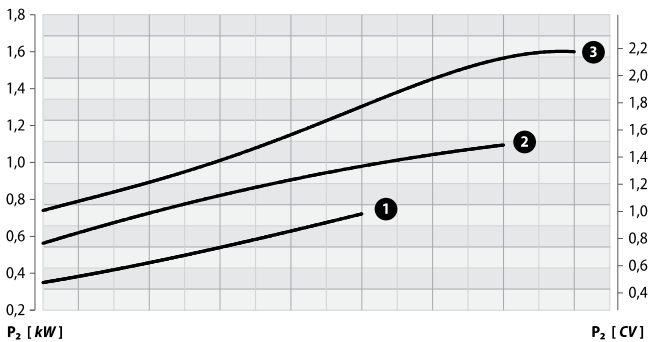
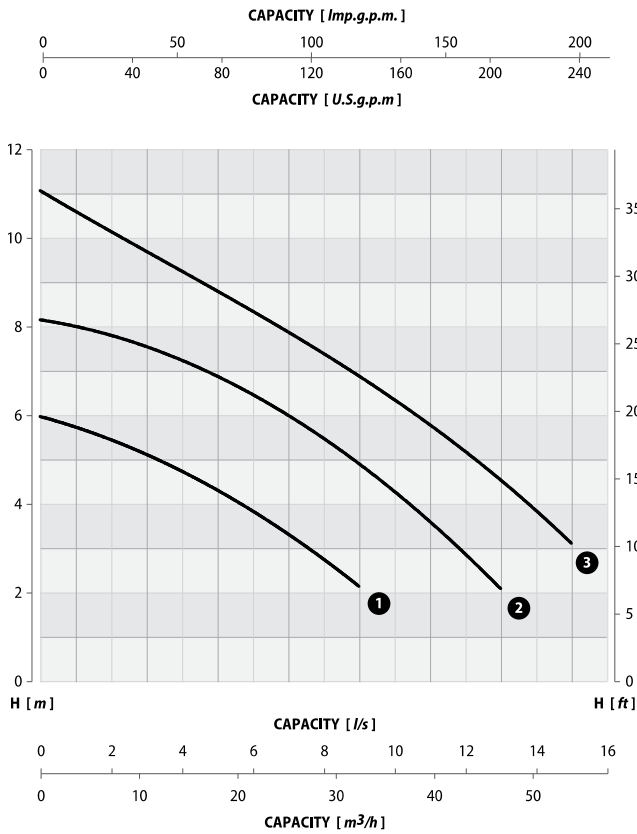
MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CAPACITOR		CABLE m	WEIGHT kg
		kW	CV			µF	V		
<b>204/07M</b>	1	0,75	0,95	230 (1~)	5,0	14	450	5	38
<b>204/07T</b>	1	0,75	0,95	230/400 (3~)	3,2/1,9	-	-	5	38
<b>204/11M</b>	1,5	1,1	1,5	230 (1~)	7,0	25	450	5	39
<b>204/11T</b>	1,5	1,1	1,5	230/400 (3~)	4,8/2,8	-	-	5	39
<b>204/16T</b>	2,5	1,6	2,0	230/400 (3~)	7,6/4,4	-	-	5	40

<b>F SERIES</b>	<b>204/07M-204/07T-204/11M 204/11T-204/16T</b>	 <b>VORTEX IMPELLER</b>	<b>DN 65</b>
			<b>50 Hz</b>
			<b>4 POLE</b>

**PERFORMANCE RANGE**

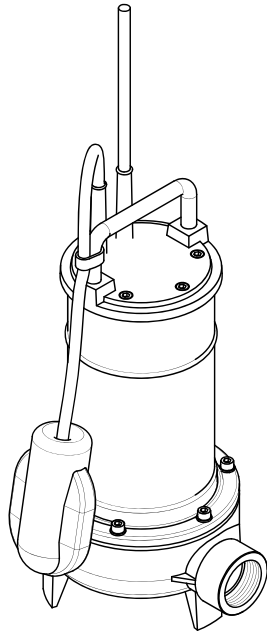
CAPACITY											
<i>l/s</i>	0	4	6	8	9	10	11	12	13	14	15
<i>m³/h</i>	0	14,4	21,6	28,8	32,4	36,0	39,6	43,2	46,8	50,4	54,0
<i>l/min</i>	0	240	360	480	540	600	660	720	780	840	900

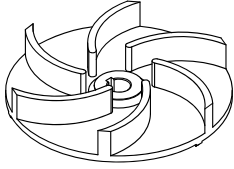
MODEL	CURVE N°	HEAD m											
		204/07M	1	6,0	4,7	3,8	3,0	2,0	-	-	-	-	-
204/07T	204/11M	2		8,2	7,2	6,4	5,5	5,0	4,4	3,5	3,0	2,0	-
204/11T	204/16T		3	11,0	9,5	8,5	7,2	6,6	6,1	5,9	5,4	4,9	4,0



Performance tolerance in according to UNI/ISO 9906 Grade 2





<b>HYDROPOMPE</b>	<b>VORTEX IMPELLER</b> 	<b>50 Hz</b>
<b>F SERIES</b>		<b>2 POLE</b>
<b>22XMV</b>		

**USE**

Submersible electric pump 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)

**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 3G1mm<sup>2</sup> and SCHUKO plug

**LIMITS OF 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**  
250 mm

**Free passage**  
30 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


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**

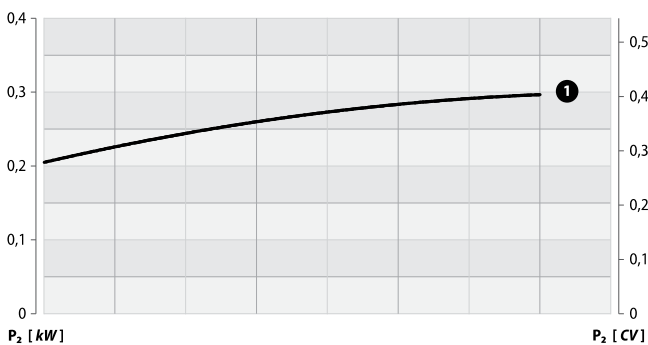
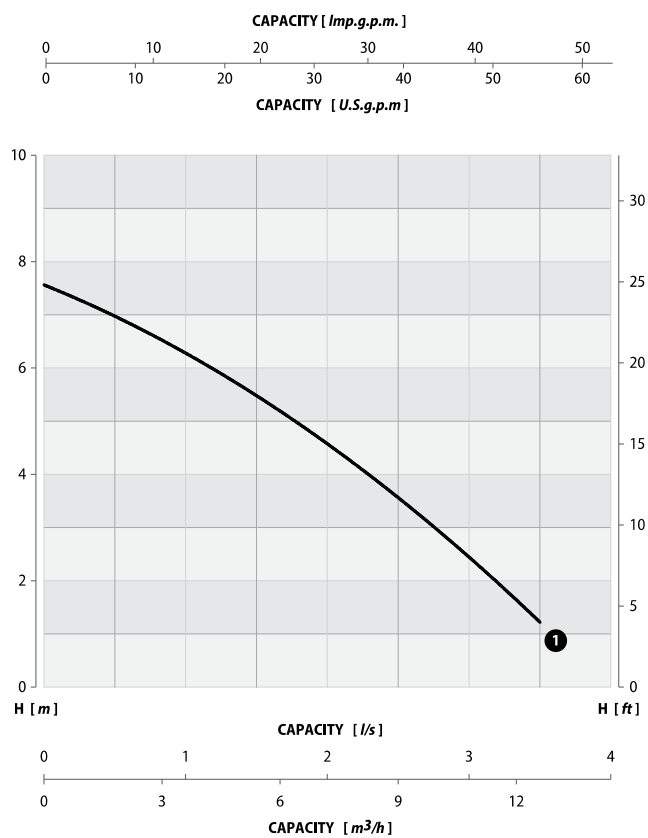
MODEL	P1	P2		VOLTAGE V	CURRENT A	CAPACITOR		CABLE m	WEIGHT kg
	kW	kW	CV			µF	V		
<b>22XMV</b>	0,57	0,30	0,40	230 (1~)	2,8	8	450	5	11

<b>F SERIES</b>	<b>22XMV</b>		<b>VORTEX IMPELLER</b>	<b>50 Hz</b>
				<b>2 POLE</b>

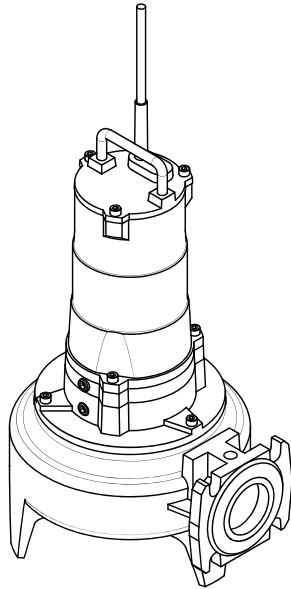
**PERFORMANCE RANGE**

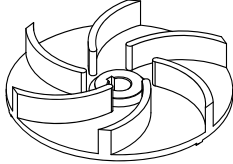
CAPACITY								
<i>l/s</i>	0	0,5	1	1,5	2	2,5	3,0	3,5
<i>m³/h</i>	0	1,8	3,6	5,4	7,2	9,0	10,8	12,6
<i>l/min</i>	0	30	60	90	120	150	180	210

MODEL	CURVE N°	HEAD m							
		22XMV	1	7,6	6,9	6,3	5,5	4,6	3,5



Performance tolerance in according to UNI/ISO 9906 Grade 2



<b>HYDROPOMPE</b>	<b>VORTEX IMPELLER</b>	<b>DN 65</b>
<b>F SERIES</b>		<b>50 Hz</b>
<b>242T</b>		<b>2 POLE</b>

#### USE

Submersible electric pumps particularly suitable for pumping industrial sewage, screened waste water and mud in the pumping stations. They can be used also to lift clear and dirty water and rain water.

#### MATERIALS

##### Cover

Cast iron EN GJL 200 (UNI EN 1561)

##### Motor housing

Cast iron EN GJL 200 (UNI EN 1561)

##### Pump housing

Cast iron EN GJL 200 (UNI EN 1561)

##### Bearing housing

Cast iron EN GJL 200 (UNI EN 1561)

##### 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 shaft

Stainless steel AISI 420

##### Bolts and nuts

Stainless steel Grade A2

##### Cable

5 meters type H07RN-F 4G1,5mm<sup>2</sup>

#### 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

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

##### Min immersion depth for continuous service

464 mm

##### Free passage

65 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:

##### 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

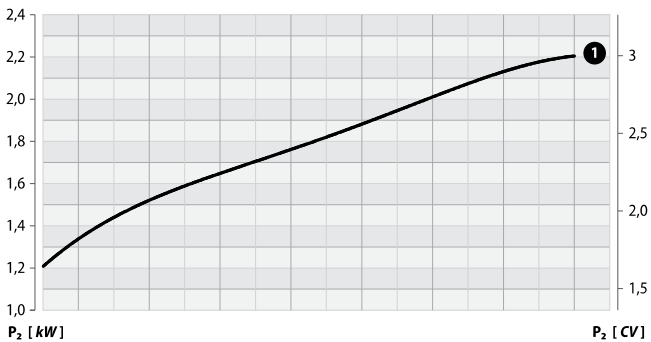
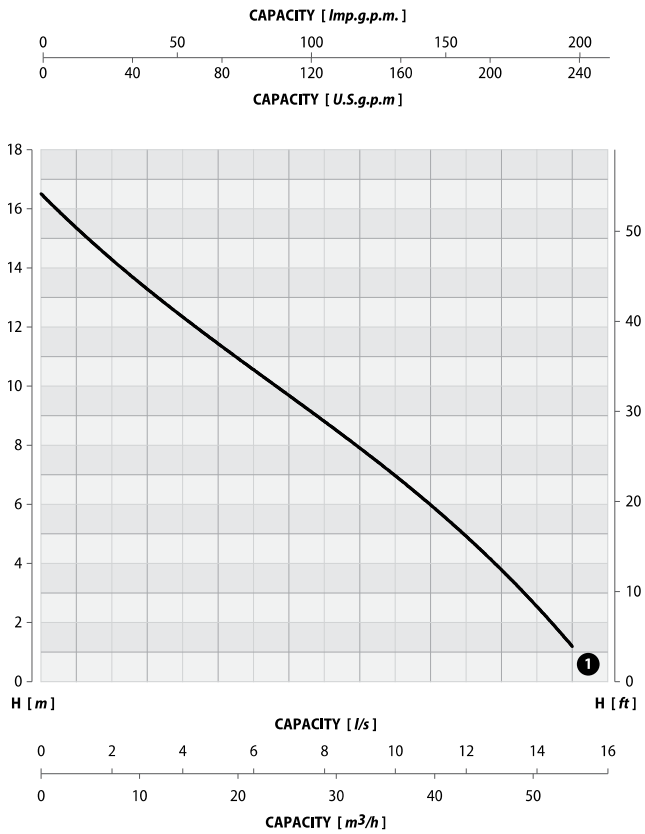
MODEL	P1	P2		VOLTAGE V	CURRENT A	CABLE m	WEIGHT kg
	kW	kW	CV				
<b>242T</b>	3,2	2,2	3,0	230/400 (3~)	9,0/5,2	5	48

<b>F SERIES</b>	<b>242T</b>		<b>VORTEX IMPELLER</b>	<b>DN 65</b>
				<b>50 Hz</b>
				<b>2 POLE</b>

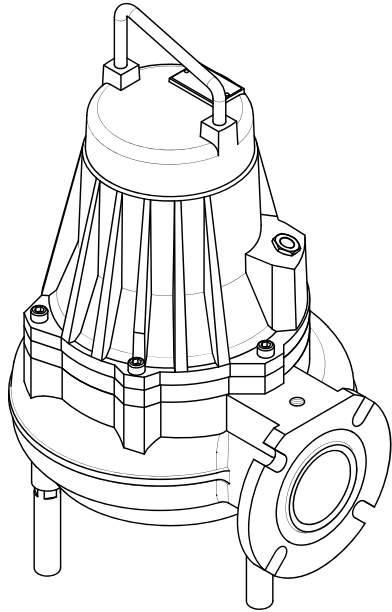
**PERFORMANCE RANGE**

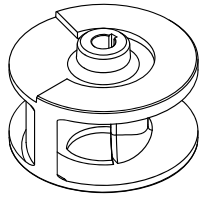
CAPACITY											
<i>l/s</i>	0	4	6	8	9	10	11	12	13	14	15
<i>m³/h</i>	0	14,4	21,6	28,8	32,4	36,0	39,6	43,2	46,8	50,4	54,0
<i>l/min</i>	0	240	360	480	540	600	660	720	780	840	900

MODEL	CURVE <i>N°</i>	HEAD <i>m</i>										
		242T	1	16,5	12,5	10,2	9,0	8,0	6,8	6,0	5,3	3,7



Performance tolerance in according to UNI/ISO 9906 Grade 2



<b>HYDROPOMPE</b>	<b>SINGLE CHANNEL IMPELLER</b>	<b>DN 80</b>
<b>F SERIES</b>		<b>50 Hz</b>
<b>304/403-404/413</b>		<b>4 POLE</b>

#### USE

Submersible electric pumps particularly suitable for pumping industrial sewage, screened waste water and mud in the pumping stations. They can be used also to lift clear and dirty water and rain water.

#### MATERIALS

##### Motor housing

Cast iron EN GJL 200 (UNI EN 1561)

##### Pump housing

Cast iron EN GJL 200 (UNI EN 1561)

##### Bearing housing

Cast iron EN GJL 200 (UNI EN 1561)

##### Impeller

Cast iron EN GJL 200 (UNI EN 1561)

##### Seal motor side

Seal ring

##### Mechanical seal impeller side

Silicon Carbide/Silicon Carbide (SiC/SiC)

##### Supporting feet

Stainless steel AISI 304

##### Motor shaft

Stainless steel AISI 420

##### Bolts and nuts

Stainless steel Grade A2

##### Cable

10.5 meters type H07RN-F 4G2,5mm<sup>2</sup>

#### 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

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

##### Min immersion depth for continuous service

304/403 487 mm

404/413 551 mm

##### Free passage

75 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

4pole; 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


Frequency 60 Hz (*see specific catalogue*)

Other voltages

With food grade white oil

#### TECHNICAL DATA

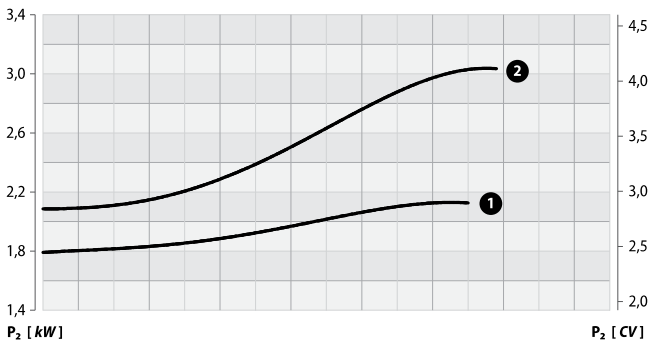
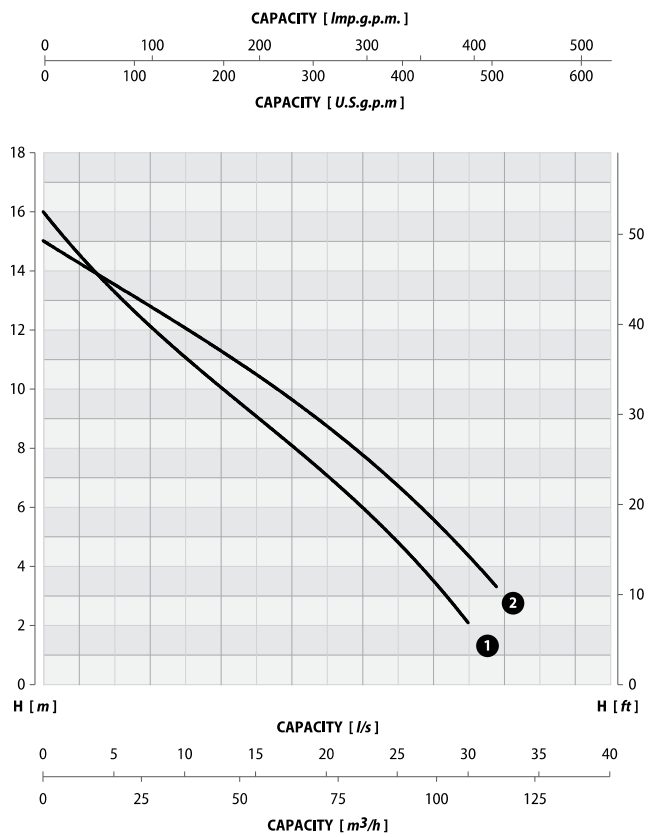
MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CABLE m	WEIGHT kg
		kW	CV				
<b>304/403</b>	3,8	2,2	3,0	230/400 (3~)	11,2/6,5	10	73
<b>404/413</b>	5,0	3,1	4,2	230/400 (3~)	14,7/8,5	10	86

<b>F SERIES</b>	<b>304/403-404/413</b>		<b>SINGLE CHANNEL IMPELLER</b>	<b>DN 80</b>
				<b>50 Hz</b>
				<b>4 POLE</b>

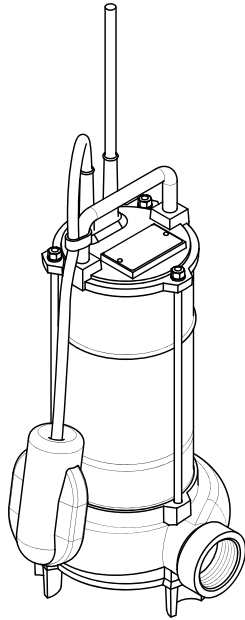
**PERFORMANCE RANGE**

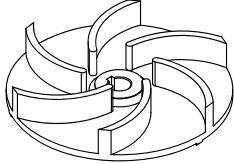
CAPACITY														
<i>l/s</i>	0	8	10	12	14	16	18	20	22	24	26	28	30	32
<i>m³/h</i>	0	28,8	36,0	43,2	50,4	57,6	64,8	72,0	79,2	86,4	93,6	100,8	108,0	115,2
<i>l/min</i>	0	480	600	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920

MODEL	CURVE N°	HEAD <i>m</i>													
		<b>304/403</b>	1	16,0	12,0	11,0	10,4	9,5	8,5	8,0	7,2	6,1	5,5	4,1	3,5
<b>404/413</b>	2	15,0	13,0	12,0	11,0	10,8	10,4	9,5	8,9	8,0	7,4	6,0	5,5	4,1	3,5



Performance tolerance in according to UNI/ISO 9906 Grade 2



<b>HYDROPOMPE</b>	<b>VORTEX IMPELLER</b>	<b>50 Hz</b>
<b>F SERIES</b>		<b>2 POLE</b>
<b>42XM-62XM-82XM-82XT</b>		

#### USE

Submersible electric pump 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)

##### Supporting foot

Cast iron EN GJL 200 (UNI EN 1561)

##### 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/VII) 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

280 mm

##### Free passage

40 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

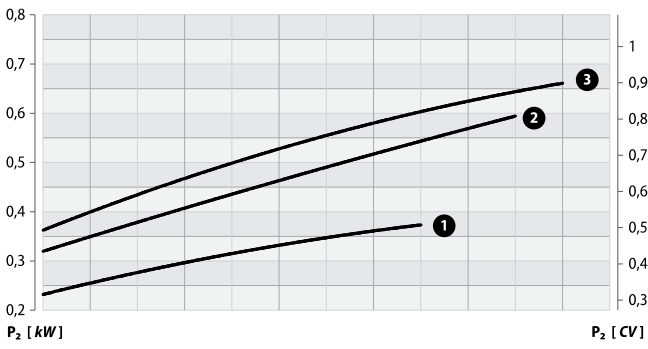
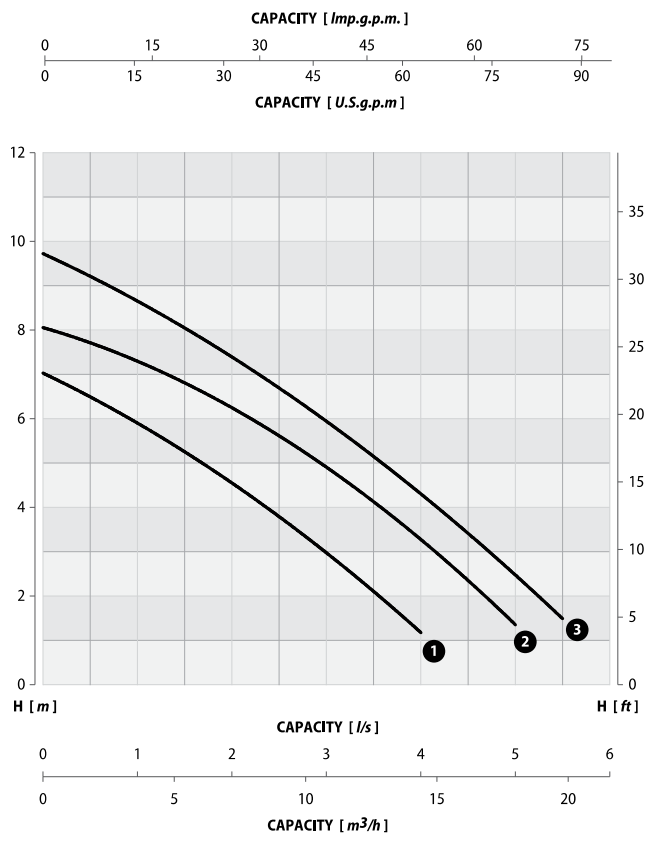
MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CAPACITOR		CABLE m	WEIGHT kg
		kW	CV			µF	V		
<b>42XM</b>	0,58	0,37	0,50	230 (1~)	3,0	8	450	5	13
<b>62XM</b>	0,72	0,60	0,80	230 (1~)	3,7	10	450	5	13
<b>82XM</b>	0,88	0,70	0,95	230 (1~)	4,8	14	450	5	14
<b>82XT</b>	0,88	0,70	0,95	230/400 (3~)	3,1/1,8	-	-	5	14

<b>F SERIES</b>	<b>42XM-62XM-82XM-82XT</b>		<b>VORTEX IMPELLER</b>	<b>50 Hz</b>
				<b>2 POLE</b>

**PERFORMANCE RANGE**

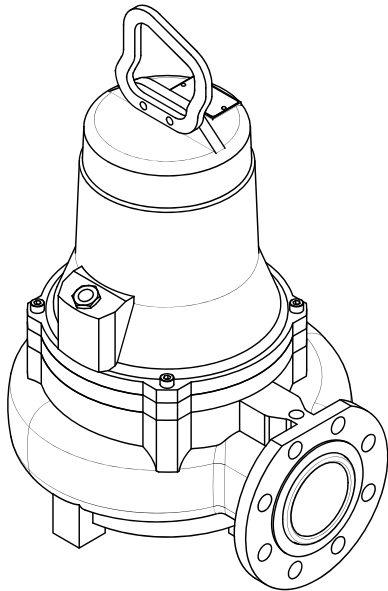
CAPACITY													
<i>l/s</i>	0	0,5	1	1,5	2	2,5	3,0	3,5	4,0	4,5	5,0	5,5	
<i>m³/h</i>	0	1,8	3,6	5,4	7,2	9,0	10,8	12,6	14,4	16,2	18,0	19,8	
<i>l/min</i>	0	30	60	90	120	150	180	210	240	270	300	330	

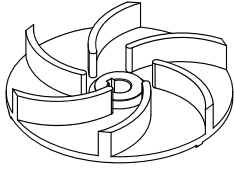
MODEL	CURVE N°	HEAD m											
		42XM	1	7,0	6,5	6,0	5,2	4,5	3,8	3,0	2,1	-	-
62XM	2	8,1	7,8	7,1	6,8	6,2	5,7	5,0	4,1	3,3	2,3	-	-
82XM	3	9,8	9,0	8,7	8,1	7,5	6,8	5,9	5,0	4,2	3,5	2,5	1,5
82XT													



Performance tolerance in according to UNI/ISO 9906 Grade 2





<b>HYDROPOMPE</b>	<b>VORTEX IMPELLER</b>	<b>DN 100</b>
<b>F SERIES</b>		<b>50 Hz</b>
<b>504/422-704/432-904/442</b>		<b>4 POLE</b>

#### USE

Submersible electric pumps particularly suitable for pumping industrial sewage, screened waste water and mud in the pumping stations. They can be used also to lift clear and dirty water and rain water.

#### MATERIALS

##### Motor housing

Cast iron EN GJL 250 (UNI EN 1561)

##### Pump housing

Cast iron EN GJL 250 (UNI EN 1561)

##### Bearing housing

Cast iron EN GJL 250 (UNI EN 1561)

##### Impeller

Cast iron EN GJL 250 (UNI EN 1561)

##### Mechanical seal motor side

Graphite/Ceramic

##### Mechanical seal impeller side

Silicon Carbide/Ceramic

##### Base frame

Hot-dipped galvanized steel

##### Motor shaft

Stainless steel AISI 420

##### Bolts and nuts

Stainless steel Grade A2

##### Cable

10 meters type NSSHÖU-J 10G2,5mm<sup>2</sup>

#### 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

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

##### Min immersion depth for continuous service

653 mm

##### Free passage

100 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

4pole; 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*)

Other voltages


#### SECURITY

Thermal probes in the winding

Conductivity probe in the oil chamber

#### TECHNICAL DATA

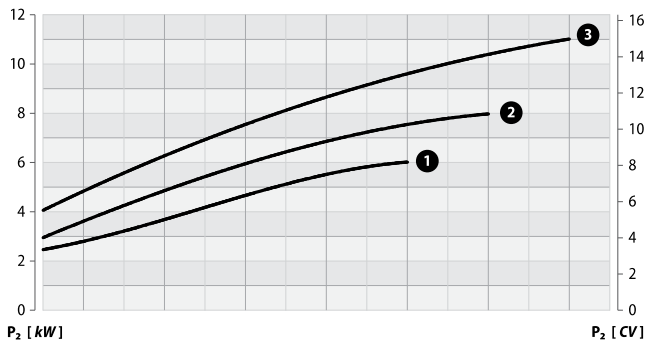
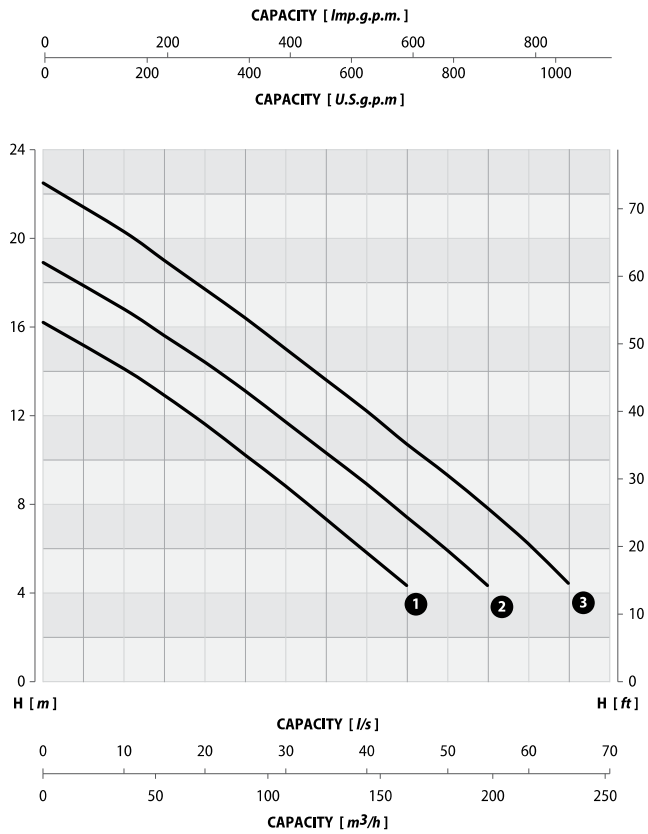
MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CABLE m	WEIGHT kg
		kW	CV				
<b>504/422</b>	8,0	6,5	8,8	400/690 (3~)	14,5	10	118
<b>704/432</b>	10,4	8,5	11,5	400/690 (3~)	18,5	10	125
<b>904/442</b>	13,5	11,2	15,2	400/690 (3~)	23,5	10	136

<b>F SERIES</b>	<b>504/422-704/432-904/442</b>		<b>VORTEX IMPELLER</b>	<b>DN 100</b>
				<b>50 Hz</b>
				<b>4 POLE</b>

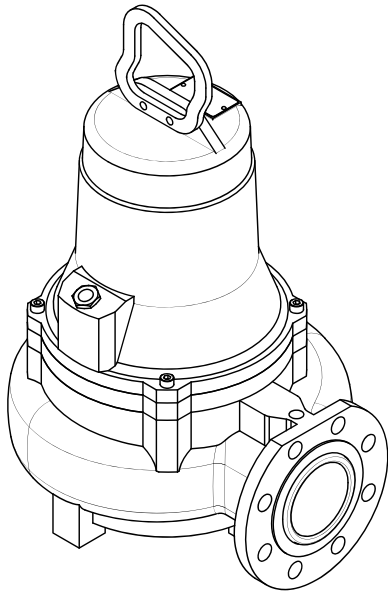
**PERFORMANCE RANGE**

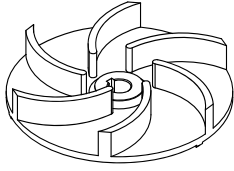
CAPACITY													
<i>l/s</i>	0	10	15	20	25	30	35	40	45	50	55	60	65
<i>m³/h</i>	0	36	54	72	90	108	126	144	162	180	198	216	234
<i>l/min</i>	0	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	3900

MODEL	CURVE N°	HEAD m												
		<b>504/422</b>	1	16,2	14,1	12,9	11,6	10,2	8,8	7,3	5,8	4,3	-	-
<b>704/432</b>	2	18,9	16,8	15,6	14,4	13,1	11,7	10,3	8,9	7,4	5,9	4,3	-	-
<b>904/442</b>	3	22,5	20,3	19,0	17,7	16,4	15,0	13,6	12,2	10,7	9,3	7,8	6,2	4,4



Performance tolerance in according to UNI/ISO 9906 Grade 2



<b>HYDROPOMPE</b>	<b>VORTEX IMPELLER</b>	<b>DN 100</b>
<b>F SERIES</b>		<b>50 Hz</b>
<b>504/422-704/432-904/442</b>		<b>4 POLE</b>

#### USE

Submersible electric pumps particularly suitable for pumping industrial sewage, screened waste water and mud in the pumping stations. They can be used also to lift clear and dirty water and rain water.

#### MATERIALS

##### Motor housing

Cast iron EN GJL 250 (UNI EN 1561)

##### Pump housing

Cast iron EN GJL 250 (UNI EN 1561)

##### Bearing housing

Cast iron EN GJL 250 (UNI EN 1561)

##### Impeller

Cast iron EN GJL 250 (UNI EN 1561)

##### Mechanical seal motor side

Graphite/Ceramic

##### Mechanical seal impeller side

Silicon Carbide/Ceramic

##### Base frame

Hot-dipped galvanized steel

##### Motor shaft

Stainless steel AISI 420

##### Bolts and nuts

Stainless steel Grade A2

##### Cable

10 meters type NSSHÖU-J 10G2,5mm<sup>2</sup>

#### 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

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

##### Min immersion depth for continuous service

653 mm

##### Free passage

100 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

4pole; 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*)

Other voltages


#### SECURITY

Thermal probes in the winding

Conductivity probe in the oil chamber

#### TECHNICAL DATA

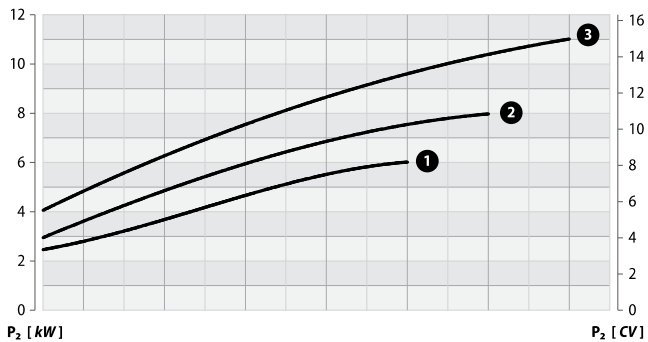
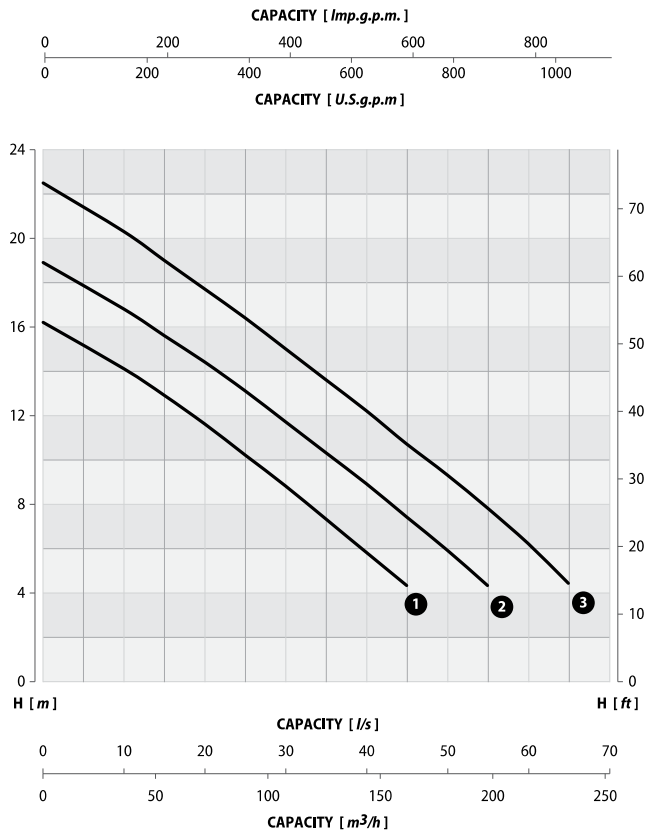
MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CABLE m	WEIGHT kg
		kW	CV				
<b>504/422</b>	8,0	6,5	8,8	400/690 (3~)	14,5	10	118
<b>704/432</b>	10,4	8,5	11,5	400/690 (3~)	18,5	10	125
<b>904/442</b>	13,5	11,2	15,2	400/690 (3~)	23,5	10	136

<b>F SERIES</b>	<b>504/422-704/432-904/442</b>	 <b>VORTEX IMPELLER</b>	<b>DN 100</b>
			<b>50 Hz</b>
			<b>4 POLE</b>

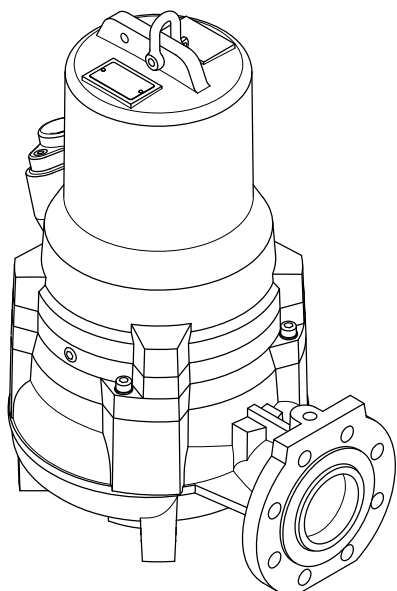
**PERFORMANCE RANGE**

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

MODEL	CURVE N°	HEAD m												
		<b>504/422</b>	1	16,2	14,1	12,9	11,6	10,2	8,8	7,3	5,8	4,3	-	-
<b>704/432</b>	2	18,9	16,8	15,6	14,4	13,1	11,7	10,3	8,9	7,4	5,9	4,3	-	-
<b>904/442</b>	3	22,5	20,3	19,0	17,7	16,4	15,0	13,6	12,2	10,7	9,3	7,8	6,2	4,4



Performance tolerance in according to UNI/ISO 9906 Grade 2



<b>HYDROPOMPE</b>	<b>VORTEX IMPELLER</b>	<b>DN 80</b>
<b>FV SERIES</b>		<b>50 Hz</b>
<b>814/16 - 824/22</b> <b>834/31 - 854/55</b>		<b>4 POLE</b>

#### USE

Submersible electric pumps particularly suitable for pumping industrial sewage, screened waste water and mud in the pumping stations. They can be used also to lift clear and dirty water and rain water.

#### MATERIALS

##### Motor housing

Cast iron EN GJL 250 (UNI EN 1561)

##### Pump housing

Cast iron EN GJL 250 (UNI EN 1561)

##### Bearing housing

Cast iron EN GJL 250 (UNI EN 1561)

##### Impeller

Cast iron EN GJL 250 (UNI EN 1561)

##### Mechanical seal motor side

Graphite/Ceramic

##### Mechanical seal impeller side

Silicon Carbide/Silicon Carbide (SiC/SiC)

##### Base frame

Stainless steel AISI 304

##### Motor shaft

Stainless steel AISI 420

##### Bolts and nuts

Stainless steel Grade A2

##### Cable

10 meters type H07RN-F

814/16; 824/22; 834/31 with 7G1,5mm<sup>2</sup> cable

854/55 with 7G2,5mm<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

20 m

##### Liquid density

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

##### Min immersion depth for continuous service

500 mm

##### Free passage

80 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

4pole; 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*)

Other voltages

#### SECURITY

Thermal probes in the winding

Conductivity probe in the oil chamber

#### CARATTERISTICHE TECNICHE

MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CABLE m	WEIGHT kg
		kW	CV				
<b>814/16</b>	2,3	1,6	2,2	400 (3~)	4,1	10	83
<b>824/22</b>	2,8	2,2	3,0	400 (3~)	5,4	10	85
<b>834/31</b>	3,9	3,1	4,2	400 (3~)	7,5	10	89
<b>854/55</b>	6,6	5,5	7,5	400 (3~)	11,7	10	100

# FV SERIES

**814/16 - 824/22**  
**834/31 - 854/55**



**VORTEX IMPELLER**

**DN 80**

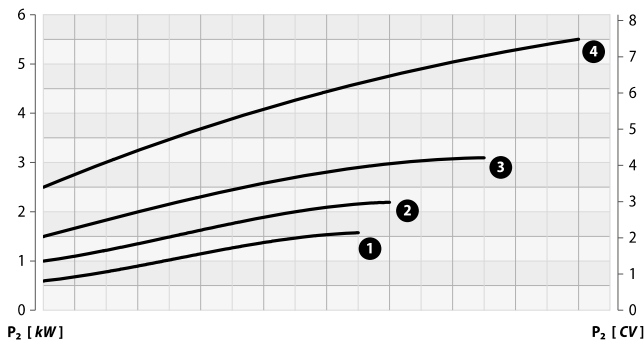
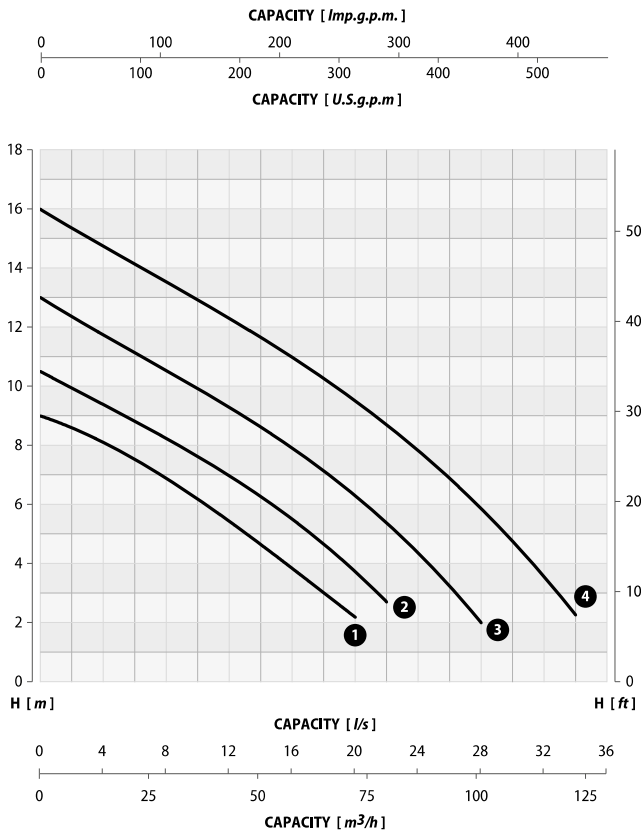
**50 Hz**

**4 POLE**

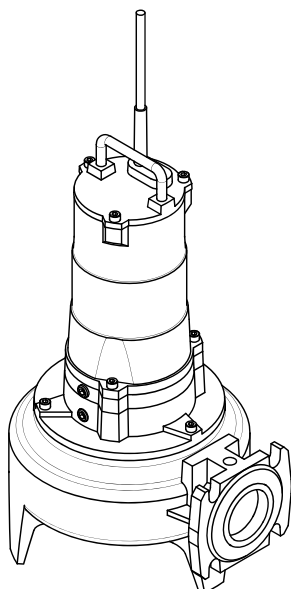
## PERFORMANCE RANGE

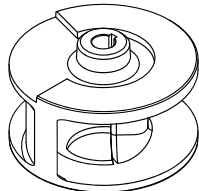
		CAPACITY															
<i>l/s</i>	0	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	
<i>m³/h</i>	0	21,6	28,8	36,0	43,2	50,4	57,6	64,8	72,0	79,2	86,4	93,6	101,0	108,0	115,2	122,4	
<i>l/min</i>	0	360	480	600	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040	

MODEL	CURVE N°	HEAD															
		<i>m</i>															
<b>814/16</b>	1	9,0	7,5	6,9	6,2	5,4	4,7	3,8	3,0	2,2	-	-	-	-	-	-	
<b>824/22</b>	2	10,5	8,8	8,3	7,6	6,9	6,3	5,5	4,7	3,7	2,7	-	-	-	-	-	
<b>834/31</b>	3	13,0	11,1	10,6	9,9	9,3	8,6	7,9	7,1	6,3	5,4	4,4	3,2	2	-	-	
<b>854/55</b>	4	16,0	14,1	13,6	12,8	12,3	11,7	11,0	10,3	9,5	8,7	7,8	6,9	5,8	4,8	3,5	2,3



Performance tolerance in according to UNI/ISO 9906 Grade 2



<b>HYDROPOMPE</b>	<b>SINGLE CHANNEL IMPELLER</b> 	<b>DN 65</b>
<b>F SERIES</b>		<b>50 Hz</b>
<b>N302T/16 - N302T</b>		<b>2 POLE</b>

#### USE

Submersible electric pumps particularly suitable for pumping industrial sewage, screened waste water and mud in the pumping stations. They can be used also to lift clear and dirty water and rain water.

#### MATERIALS

##### Cover

Cast iron EN GJL 200 (UNI EN 1561)

##### Motor housing

Cast iron EN GJL 200 (UNI EN 1561)

##### Pump housing

Cast iron EN GJL 200 (UNI EN 1561)

##### Bearing housing

Cast iron EN GJL 200 (UNI EN 1561)

##### 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 shaft

Stainless steel AISI 420

##### Bolts and nuts

Stainless steel Classe A2

##### Cable

10 meters type H07RN-F 4G1,5mm<sup>2</sup>

#### 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

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

##### Min immersion depth for continuous service

445 mm

##### Free passage

50 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:

##### 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


Frequency 60 Hz (*see specific catalogue*)

Other voltages

With food grade white oil

#### TECHNICAL DATA

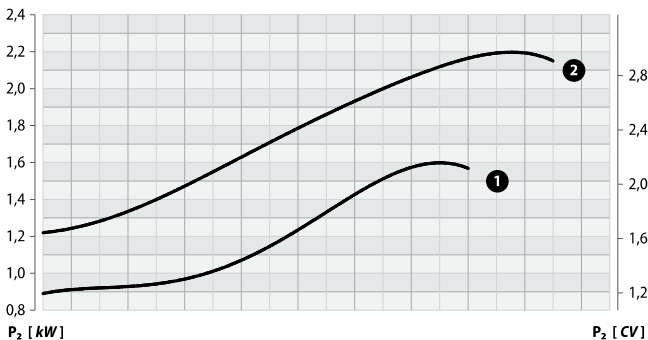
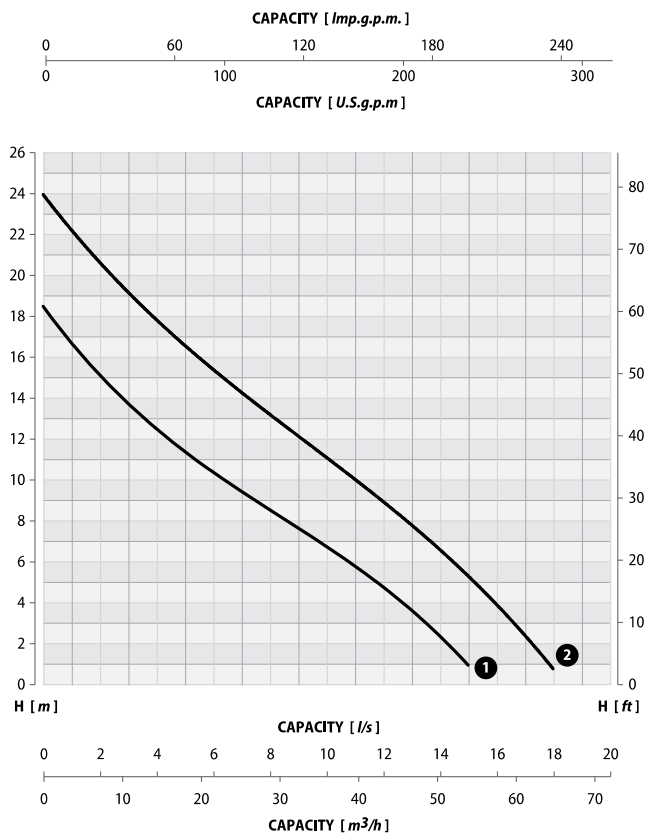
MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CABLE m	WEIGHT kg
		kW	CV				
<b>N302T/16</b>	2,5	1,6	2	230/400 (3~)	7,6/4,4	10	50
<b>N302T</b>	3,2	2,2	3	230/400 (3~)	9,0/5,2	10	50

<b>F SERIES</b>	<b>N302T/16 - N302T</b>		<b>SINGLE CHANNEL IMPELLER</b>	<b>DN 65</b>
				<b>50 Hz</b>
				<b>2 POLE</b>

**PERFORMANCE RANGE**

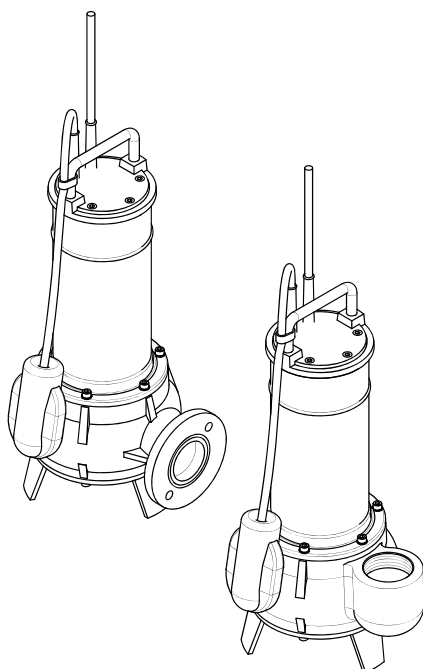
CAPACITY													
<i>l/s</i>	0	4	6	8	9	10	11	12	13	14	15	16	18
<i>m³/h</i>	0	14,4	21,6	28,8	32,4	36,0	39,6	43,2	46,8	50,4	54,0	57,6	64,8
<i>l/min</i>	0	240	360	480	540	600	660	720	780	840	900	960	1080

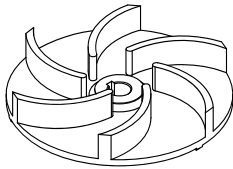
MODEL	CURVE <i>N°</i>	HEAD <i>m</i>												
		N302T/16	1	18,5	12,5	10,4	8,5	7,7	6,8	5,7	4,9	3,6	2,3	1,0
N302T	2	24,0	17,8	15,3	13,2	12,0	11,3	10,2	9,1	7,9	6,6	5,1	3,6	1,0



Performance tolerance in according to UNI/ISO 9906 Grade 2





<b>HYDROPOMPE</b>	<b>VORTEX IMPELLER</b>	<b>50 Hz</b>
<b>F SERIES</b>		<b>2 POLE</b>
<b>92.12XMV-92.12XTV 92.15XMV-92.15XTV</b>		

#### USE

Submersible electric pumps suitable for pumping screened waste water, draining the sewage of blocks of flats and houses and flooded premises in general.

#### MATERIALS

##### Cover

Cast iron EN GJL 200 (UNI EN 1561)

##### Pump housing

Cast iron EN GJL 200 (UNI EN 1561)

##### Supporting foot

Cast iron EN GJL 200 (UNI EN 1561)

##### 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 F92.12XMV with 3G1mm<sup>2</sup> cable and SCHUKO (CEE 7/VII) plug

Single-phase F92.15XMV with 4G1,5mm<sup>2</sup> cable, capacitor box and SCHUKO (CEE 7/VII) 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

375 mm

##### Free passage

50 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

Frequency 60 Hz (*see specific catalogue*)

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

Other voltages

With food grade white oil

#### TECHNICAL DATA

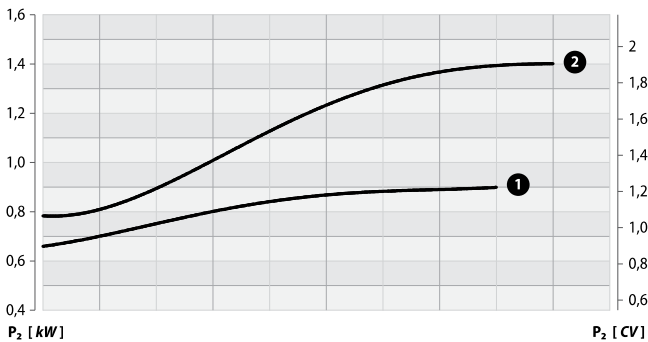
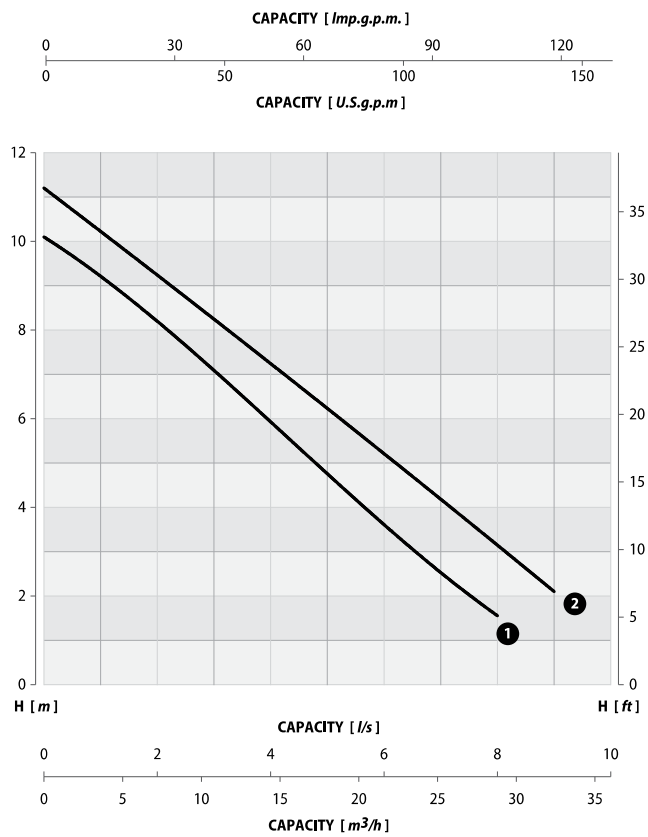
MODEL	P1 kW	P2		VOLTAGE V	CURRENT A	CAPACITOR		CABLE m	WEIGHT kg
		kW	CV			µF	V		
<b>92.12XMV</b>	1,2	0,9	1,2	230 (1~)	5,6	20	450	5	18
<b>92.12XTV</b>	1,2	0,9	1,2	230/400 (3~)	3,4/2,0	-	-	5	18
<b>92.15XMV</b>	1,8	1,4	1,9	230 (1~)	8,8	25	450	5	19
<b>92.15XTV</b>	1,8	1,4	1,9	230/400 (3~)	6,5/3,8	-	-	5	19

<b>F SERIES</b>	<b>92.12XMV-92.12XTV 92.15XMV-92.15XTV</b>		<b>VORTEX 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	5,5	6,0	7,0	8,0	9,0	
<i>m³/h</i>	0	3,6	5,4	7,2	9,0	10,8	12,6	14,4	16,2	18,0	19,8	21,6	25,2	28,8	32,4	
<i>l/min</i>	0	60	90	120	150	180	210	240	270	300	330	360	420	480	540	

MODEL	CURVE N°	HEAD <i>m</i>															
		92.12XMV	1	10	9,2	8,7	8,3	8,0	7,5	6,0	5,5	5,1	4,7	4,5	3,8	2,7	1,4
92.12XTV	92.15XMV	2		11,2	10,2	9,7	9,4	8,7	8,2	7,7	7,2	6,7	6,2	5,7	5,2	4,4	3,2
92.15XTV																	



Performance tolerance in according to UNI/ISO 9906 Grade 2



За контакт | For contact

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