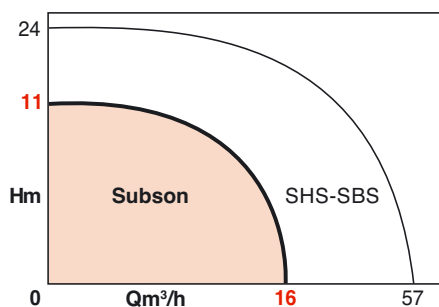


OPERATING RANGES

Flow rates of up to:	16 m ³ /h
Manometric heads of up to:	11 m
Temperature range:	+3 at +35°C (90°C<3 min)
Maximum particle size:	Ø 10 mm*
ND of delivery port:	1" and 1 1/4"

* except for Subson AB models



BENEFITS

- Stainless steel version for intensive use.
- AB version for optimal water suction.
- Automatic operation by adjustable float switch (except for 20 MP version).
- Oil chamber insulated by a double seal for continuous operation.
- High starting torque.
- Corrosion-resistant components
- Pumps supplied ready to pump.
- SAN system to prevent clogging of the strainer.

SUBSON



ASESORANDO INDUSTRIAS

• Motores Eléctricos - Motorreductores
 • Bombas Centrífugas y Autocebantes
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Tel.: (54-011) 4753-2348
 Av. 101 (Ruta 8) N° 1882 - San Martín - Pcia. de Bs. As. - Argentina
 PAGINA WEB: www.electromecanicamm.com.ar
 E-MAIL: electromecanicamm@hotmail.com

APPLICATIONS

- | | |
|---|--|
| <ul style="list-style-type: none"> • Cellar drainage • Removal of infiltration water • Drainage of boiler room or basin sumps • Lift-pumping of wastewater not containing fats or fibrous materials, originating from: <ul style="list-style-type: none"> - washing machine, dishwasher - wash basin, shower, etc... | <p>SUBSON "A" corrosive water version:</p> <ul style="list-style-type: none"> - discharge from water softeners - seawater - brackish water - treated swimming pool water, etc... |
|---|--|



• SUBSON 10 MF - SUBSON 20 MF - SUBSON 30 MF
 20 MF and 30 MF versions equipped with a non-return valve and a "SAN" self-cleaning system (patented)

SUBSON

DESIGN

• Hydraulic part

- One-piece, common-shaft, motor-driven pump.
- Vertical discharge.
- Semi-open impeller.
- Shaft opening sealed by a mechanical seal in the oil chamber and by a lip seal.
- Max. submergence depth:
 - SUBSON : 3m
 - SUBSON Premium : 10m

• Motor

- Single-phase, permanent capacitor.
- Self-cooled by the pumped liquid.
- Integrated thermal protection; automatic resetting after cooling of motor.
- Bearings lubricated for life.
- Automatic On-Off float control switch (except for SUBSON 20 MP).

Speed : 2900 rpm

Single-phase

winding: 230 V

Frequency: 50 Hz (60 Hz on request)

Insulation class: SUBSON 155 (F)

SUBSON Premium (B)

Protection class: IP 68

SPECIAL FEATURES OF SUBSON PREMIUM

- Impact-resistant, stainless steel design.
- Overdesigned motor and bearings for intensive use (up to 4,000 hours/year).
- Exchangeable electrical cable.

BASIC CONSTRUCTION

Main parts	Material	
	SUBSON	SUBSON Premium
Pump housing	Polypropylene 30%FG	Stainless steel 304
Strainer	Polypropylene 30%FG	Stainless steel 304
Impeller	Noryl	SPS composite
Shaft	AISI 430F	AISI 316
Motor housing	AISI 304	
Fastenings	AISI 304	
Garniture mécanique	Carbone/Alumine	Carbon/Ceramic
Cable	H07RN-F	
"Corrosive water" version		
Shaft	AISI 316 L	
Motor housing	AISI 316 L	
Fastenings	AISI 316	
Suction cover	AISI 316 L	

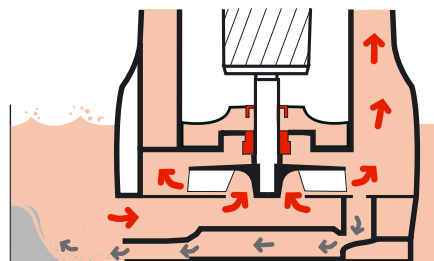
OPERATING PRINCIPLE

• SAN system (patented)

the particles are agitated by the recycling of the pumped water, which cleans out the sump and prevents clogging of the pump.

- Operating safety: no clogging of the strainer.
- Particles are kept in suspension and pumped out.
- Reduction of odours caused by deposited particles.

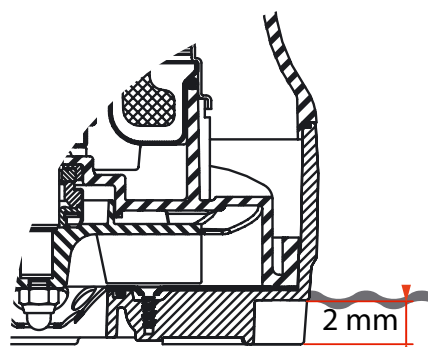
The SAN system can be deactivated. The pump curve thus gains an additional metre of head for the same flow rate.



• Version AB

SUBSON AB pumps are equipped with a strainer designed to optimise suction down to a residual water level of 2 mm.

- Optimal draining of flooded areas.
- Product supplied ready to pump - no tools required.



IDENTIFICATION

SUBSON Premium S 20 MFP-A

SUBSON: _____

Clean water lift
pump family

Stainless steel version _____

SAN system _____

20: Size guide value _____

M: 1~230 V single-phase _____

F: Supplied with float switch _____

P: Portable version (10 m of cable) _____

A: Version for corrosive water _____

SUBSON AB 20 MFP-A

SUBSON: _____

Clean water lift
pump family

Version with
low suction

20: Size guide value _____

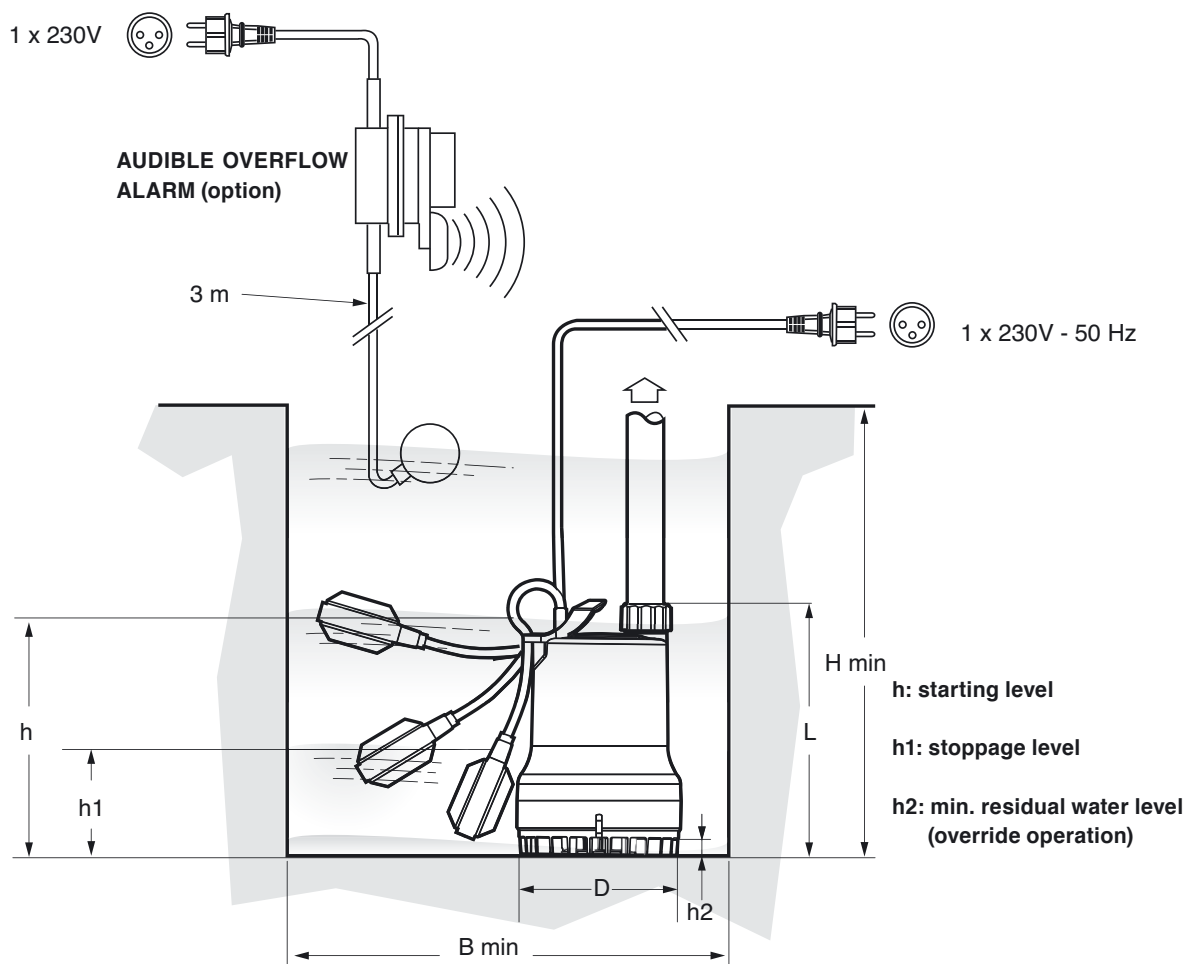
M: 1~230 V single-phase _____

F: Supplied with float switch
nothing: Without float switch

P: Portable version (10 m of cable)
nothing: Portable version (3m of cable)

A: Version for corrosive water _____

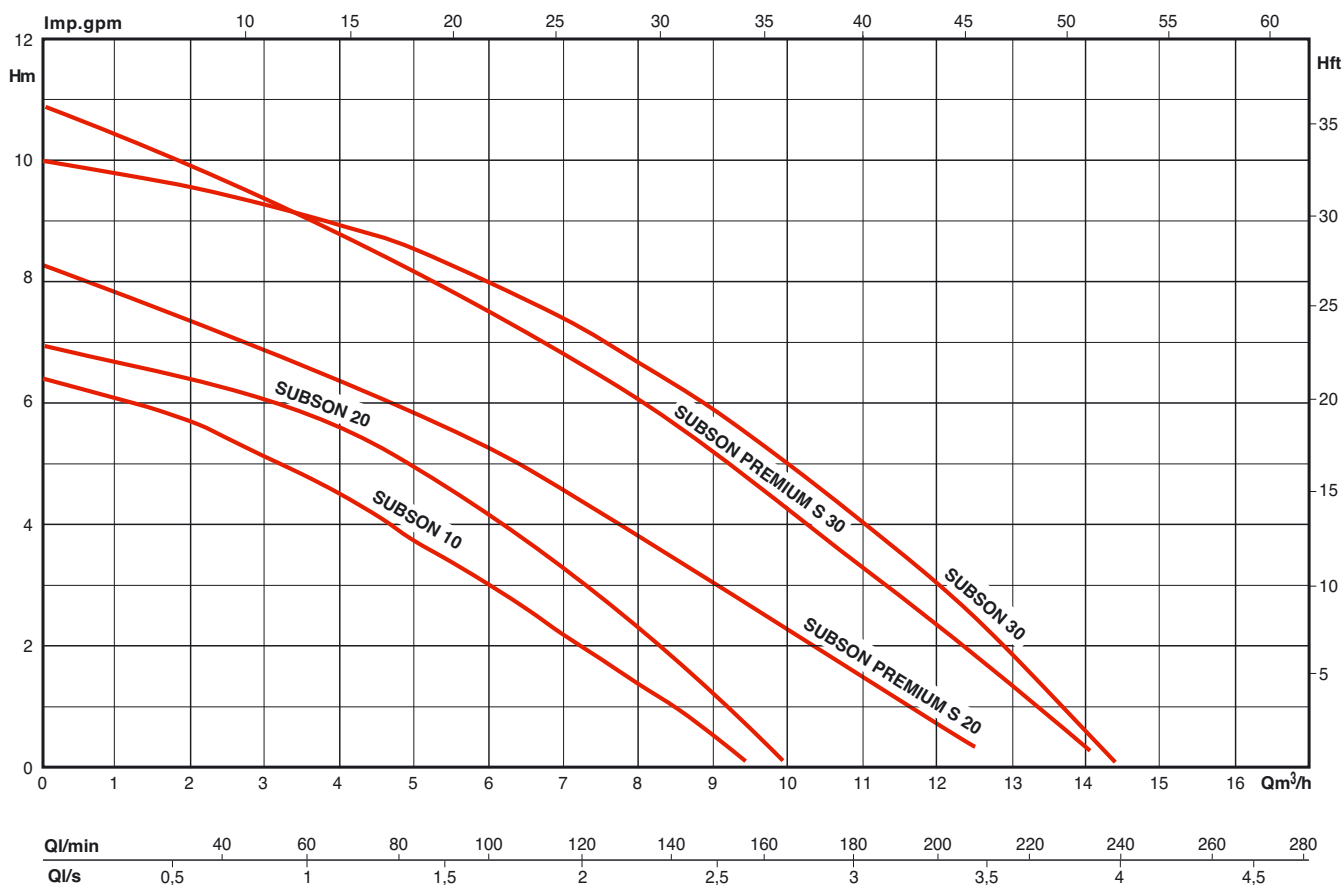
INSTALLATION DIAGRAM: SUBSON FIXED SUMP PUMP



Type	H min	L	D	B min	h max	h1 min	h2 min
	mm	mm	mm	mm	mm (adjustable)	mm	mm
SUBSON PREMIUM S 20	400	290	161	400 x 400	350	140	24
SUBSON PREMIUM S 30	400	310	161	400 x 400	360	140	24
SUBSON 10	280	294	165	350 x 350	237	50	14
SUBSON 20	280	296	165	350 x 350	250	50	14
SUBSON 30	330	326	165	350 x 350	280	50	14
SUBSON AB 20	280	278	165	350 x 350	250	50	2
SUBSON AB 30	330	308	165	350 x 350	280	50	2

SUBSON

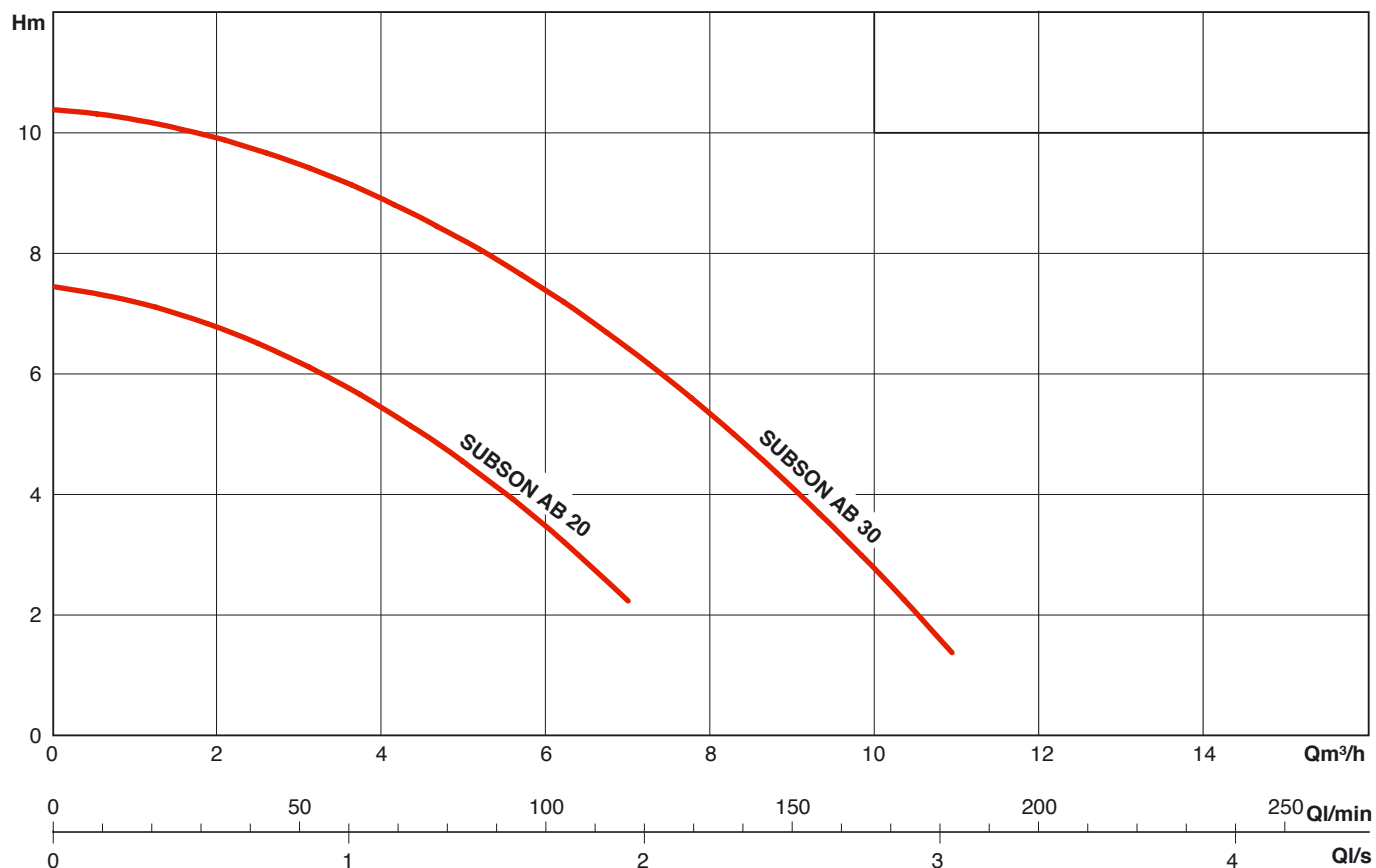
SUBSON AND SUBSON PREMIUM HYDRAULIC PERFORMANCE AT 2900 RPM



ELECTRICAL SPECIFICATIONS

ORDER REFERENCE	MOTOR			Cable length m	PUMP SAN system	Net weight kg
	P2	P1	I			
	kW	kW	1x230V A			
SUBSON PREMIUM S 20	0.3	0.5	2.2	10	yes	6.8
SUBSON PREMIUM S 30	0.6	0.9	3.6	10	yes	7.8
SUBSON 10 MF	0.25	0.32	1.4	3	no	3.6
SUBSON 20 MP	0.37	0.50	2.2	10	no	5.6
SUBSON 20 MF	0.37	0.45	2.1	3	yes	4.7
SUBSON 20 MFP	0.37	0.45	2.1	10	yes	5.2
SUBSON 30 MF	0.55	0.75	3.6	3	yes	6.1
SUBSON 30 MFP	0.55	0.75	3.6	10	yes	6.9
SUBSON 30 MFP-A	0.55	0.75	3.6	10	yes	6.7

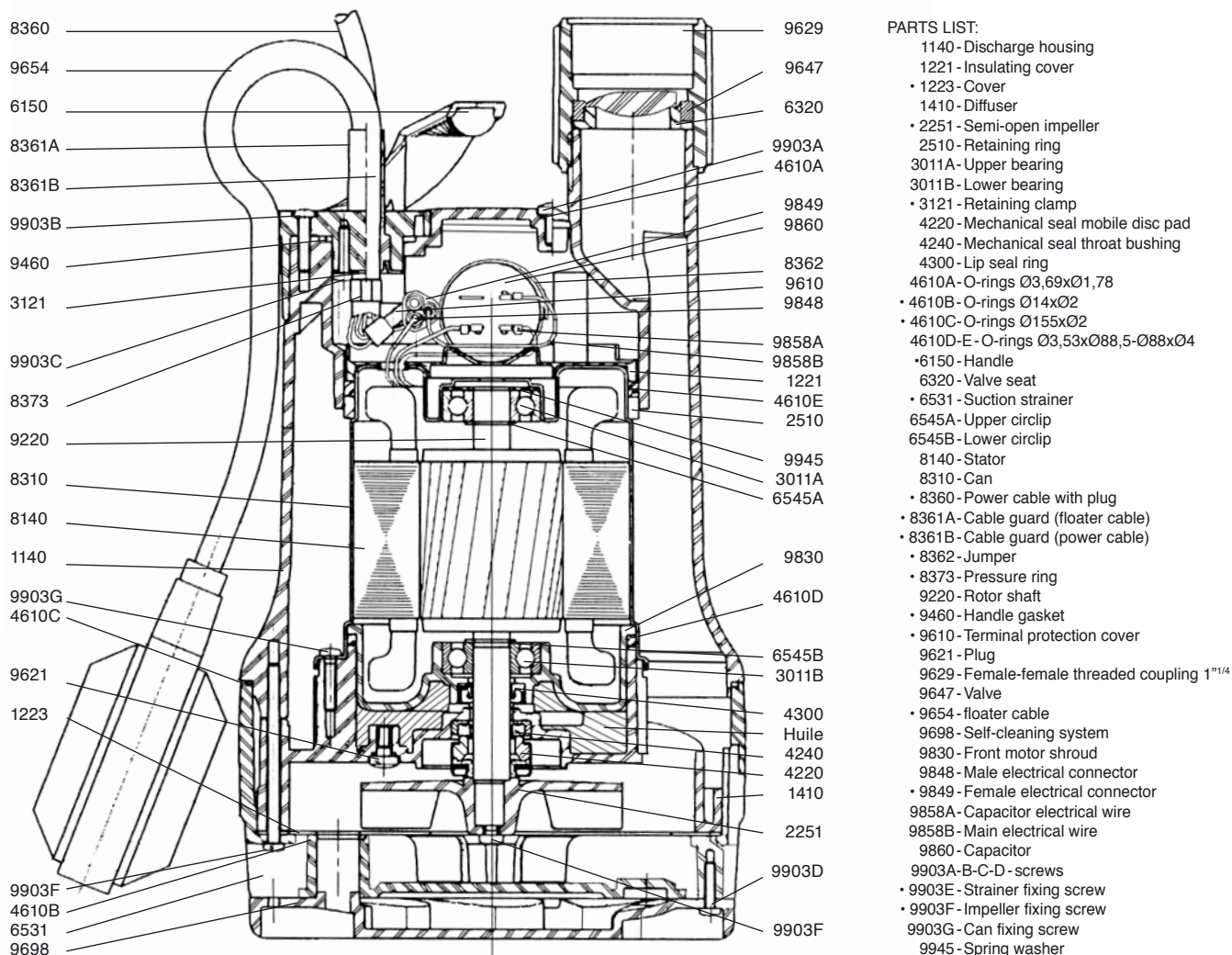
SUBSON AB HYDRAULIC PERFORMANCE AT 2900 RPM



ELECTRICAL SPECIFICATIONS

ORDER REFERENCE	MOTOR			PUMP		Net weight kg
	P2	P1	I	Cable length m	SAN system	
	kW	kW	1x230V A			
SUBSON AB 20 MF	0.37	0.45	1.8	3	no	4.9
SUBSON AB 20 MFP	0.37	0.45	1.8	10	no	5.5
SUBSON AB 30 MF	0.55	0.75	3.2	3	no	6.2

SECTIONAL DIAGRAM SUBSON 20

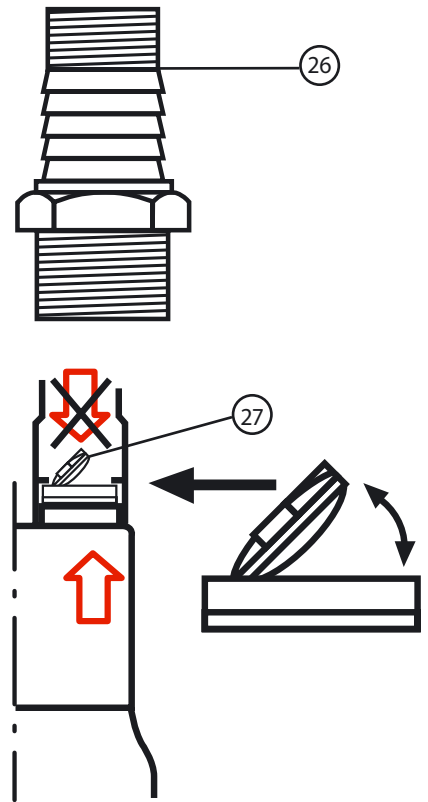
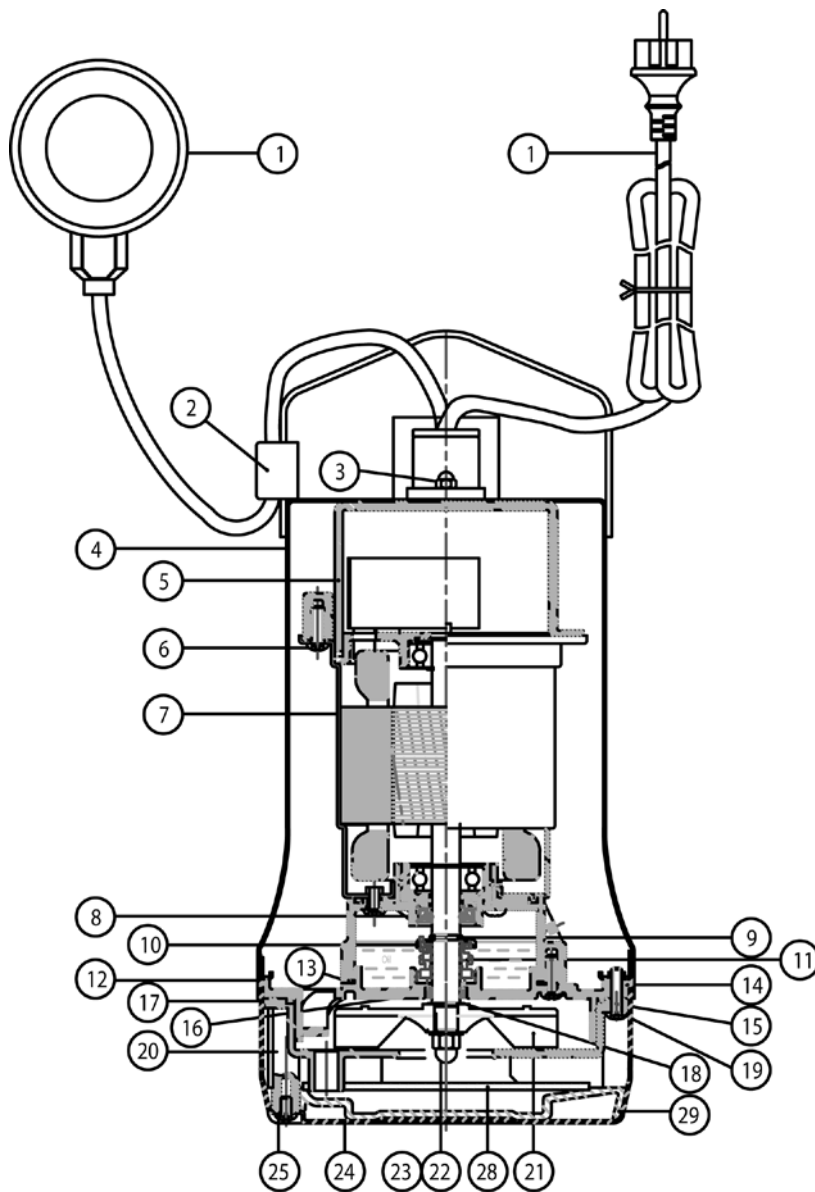


•Wearing parts included in spare parts kits.

Subson spare parts kits

Designation	Identifier
Strainer kit	6531 - 4610C - 4610b - 9903e
Hydraulic kits (One per pump size)	2251 - 9903F - 4610c - 1223
Cable-handle-float switch kit	Set fully assembled in the factory, including: floater cable (9654), connector (3121 - 8361a - 8361b - 8362 - 8373 - 9460 - 9610 - 9849), handle (6150), and 3 m long power cable (8360)
Cable-handle kit	Set fully assembled in the factory, including: handle (6150), connector (3121 - 8361b - 8362 - 8373 - 9460 - 9610 - 9849), and 10 m long power cable (8360)

SECTIONAL DIAGRAM SUBSON PREMIUM



PARTS LIST:

Pos. - Description of components

- 1 - Cable and float switch
- 2 - Retaining clip for float switch
- 3 - Cap nut
- 4 - Housing
- 5 - Upper motor cover
- 6 - Screw
- 7 - Motor housing
- 8 - Shaft seal ring
- 9 - Safety ring
- 10 - Washer
- 11 - Mechanical seal
- 12 - Gasket
- 13 - O-ring
- 14 - Sealing body
- 15 - Screw
- 16 - Shaft seal ring
- 17 - O-ring
- 18 - Support ring
- 19 - Screw
- 20 - Pump housing
- 21 - Impeller
- 22 - Washer
- 23 - Cap nut
- 24 - Suction strainer
- 25 - Screw
- 26 - Ø32mm/R1 pipe union
- 27 - Non-return valve
- 28 - Intermediate plate
- 29 - SAN strainer

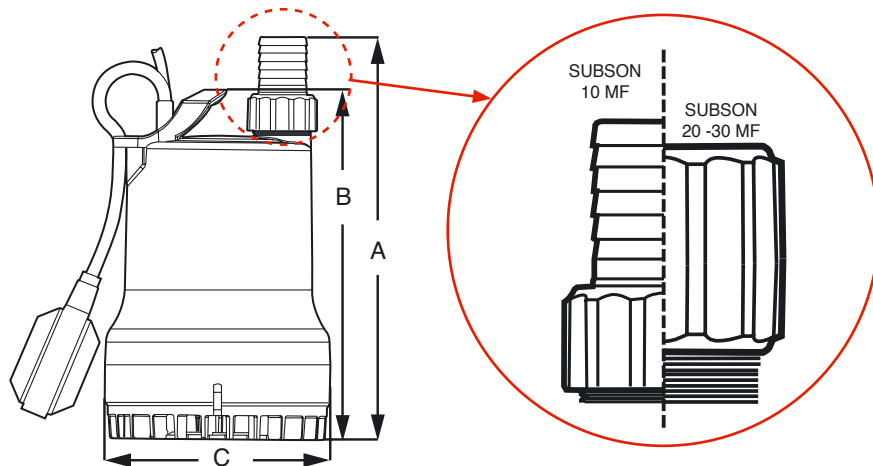
• Wearing parts included in spare parts kits.

Subson Premium spare parts kits

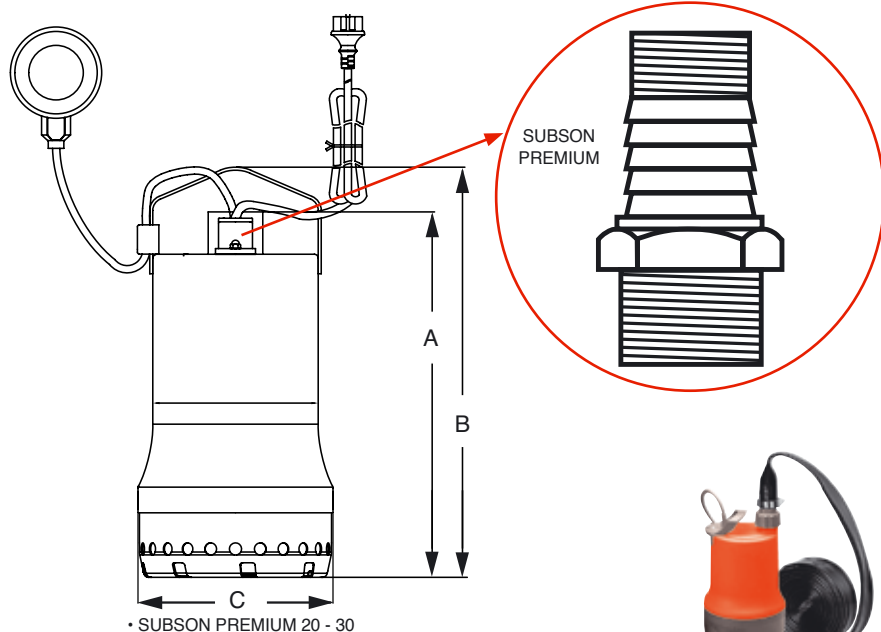
Designation	Identifier
Mechanical seal kit	8 - 9 - 10 - 11 - 12 - 13 - 15 - 16 - 17 - 18 - 19 - 22 - 23 - 25
D.98 Impeller kit subson 20	17 - 18 - 19 - 21 - 22 - 23 - 25
D.98 Impeller kit + SAN subson 20 strainer	17 - 18 - 19 - 21 - 22 - 23 - 25
D.98 Impeller kit D.98 subson 20	17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 28 - 29
D.108 Impeller kit D.108 + SAN subson 30 strainer	17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 28 - 29
Splined end + non-return valve kit	26 - 27
10 m cable + float switch kit	1 - 2 - 3

SUBSON

DIMENSIONAL SPECIFICATIONS



• SUBSON 10 - 20 - 30 MF and SUBSON AB 20 - 30



• SUBSON PREMIUM 20 - 30



FEATURES

a) Electrical

- 230 V - 50 Hz single phase with integral permanent capacitor and thermal protection; motor protection is not essential. (60 Hz on request)
- Connection to power supply by standardised 2 pins + earth plug.

NB:

It is preferable to implement a protective or warning system for protection against dry running, blockages or excessive starts.

b) Fitting

- Axis of motor always vertical.
- Connection to the system:
 - by flexible hose (see discharge kit) or rigid pipe in a fixed installation.

c) Packaging

- Pumps supplied ready to use, pre-wired with an electrical plug, handle and float switch (except for SUBSON 20MP).
- Depending on the models, the pumps are supplied with a non-return valve and/or a splined end (see table on p.4).

d) Maintenance

See spare parts kit table.

ACCESSORIES

- Shut-off valve
- PVC or fabric-reinforced piping.
- Discharge kit.

SUBSON 10: Ø 25 mm flexible hose – 5 m long and one hose clamp.
SUBSON 20 & 30: Ø 35 mm flexible hose - 5 m long - one Ø 1 1/4" male connector and one hose clamp.

Order reference	Item reference
KIT SUBSON 10	021308
KIT SUBSON 20 & 30	019389

• Audible overflow alarm.

- For fixed sump pump installation.
- 230V - 50 Hz single-phase.
 - EUROFL0T 423 or NIVO430 mercury-free float switches, to be fitted.
 - Direct connection via a standardised male plug 2 pins + earth. (Please contact us).

ORDER REFERENCE	ND discharge	A	B	C	Accessories supplied
		mm	mm	mm	
SUBSON PREMIUM 20	G1"1/4	290	330	161	splined end Ø30
SUBSON PREMIUM 30	G1"1/4	310	350	161	+ clapet anti-retour
SUBSON 10 MF	25 mm	294	255	165	splined end Ø25
SUBSON 20 MP	G1"1/4	296	268	165	splined end Ø35
SUBSON 20 MF	G1"1/4	296	268	165	non-return valve*
SUBSON 20 MFP**	G1"1/4	296	268	165	non-return valve*
SUBSON 30 MF	G1"1/4	326	298	165	non-return valve*
SUBSON 30 MFP**	G1"1/4	326	298	165	non-return valve*
SUBSON 30 MFP-A	G1"1/4	326	298	165	non-return valve*
SUBSON AB 20 MF	G1"1/4	278	250	165	non-return valve*
SUBSON AB 20 MFP	G1"1/4	278	250	165	non-return valve*
SUBSON AB 30 MF	G1"1/4	308	280	165	non-return valve*

Submerged and dry S1; * or 1"1/4 threaded insert with non-return valve