



Submersible pumps

High flow

-  Sewage water
-  Civil use
-  Industrial use



PERFORMANCE RANGE

- Flow rate up to **5800 l/min** (348 m³/h)
- Head up to **30.7 m**

APPLICATION LIMITS

- **10 m** maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature **+40 °C**
- Passage of suspended solids up to **Ø 80 mm**
- \To have continuous duty, the pump has not to emerge (to be out) of the water for more than **290 mm**

CONSTRUCTION AND SAFETY STANDARDS

- **10 m** long power cable

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY

INSTALLATION AND USE

MC4 series pumps, made from heavy gauge robust cast iron, resistant to abrasion and long-lasting, are fitted with a DOUBLE-CHANNEL impeller and are capable of pumping liquids containing short fibred suspended solids. They are ideal for pumping **sewage, waste water, water mixed with mud, groundwater and surface water** in locations such as blocks of flats, public buildings, factories, multi-storey and underground car parks, washing areas, etc.

PATENTS - TRADE MARKS - MODELS

- Registered EU Design n. 003863158-0004

OPTIONS AVAILABLE ON REQUEST

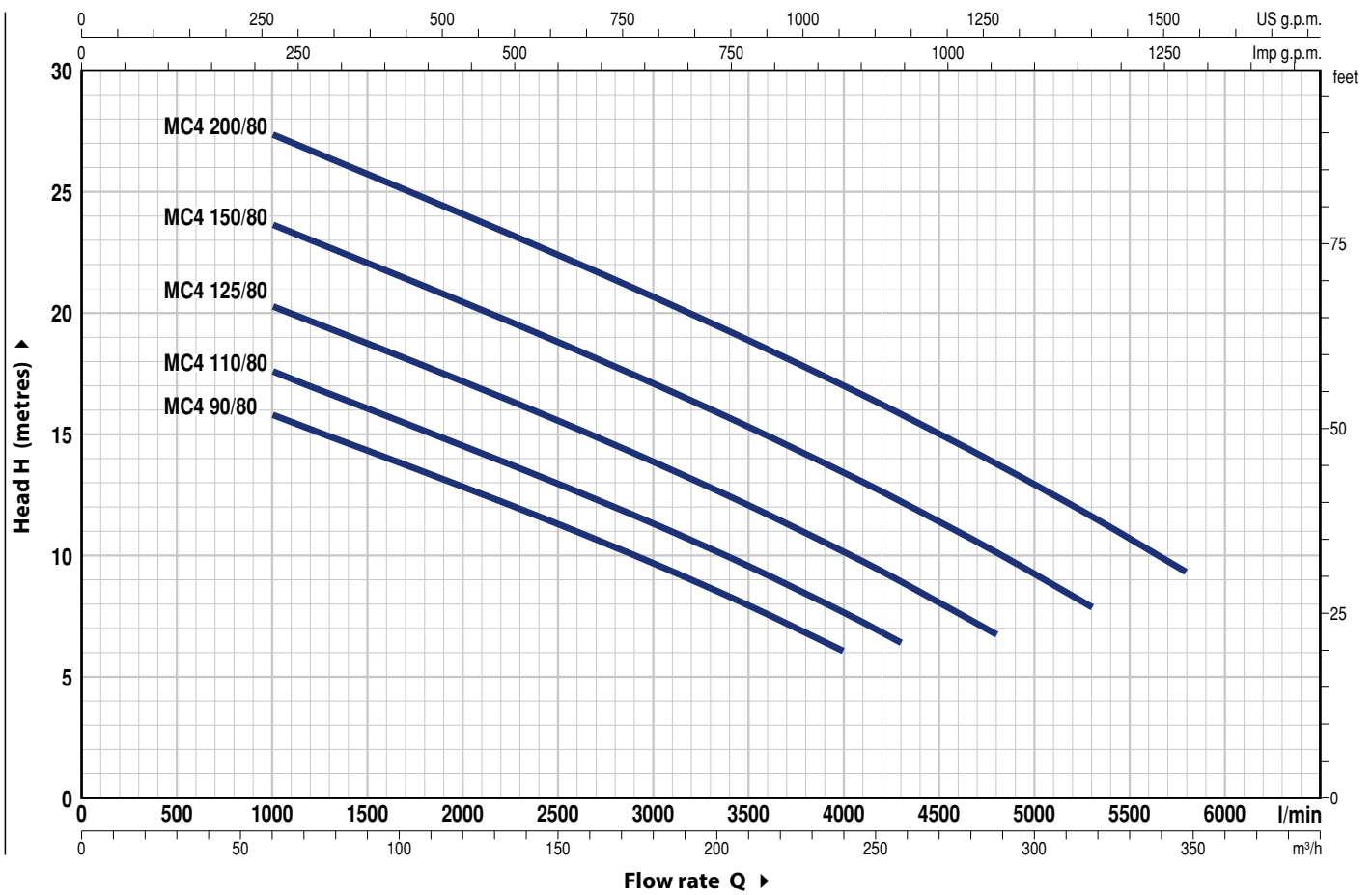
- Other voltages

GUARANTEE

2 years subject to terms and conditions

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 1750 min⁻¹



MODEL Three-phase	POWER (P ₂)		Q	Flow rate													
	kW	HP		m ³ /h	0	60	90	120	150	180	210	240	258	288	318	348	
			l/min	0	1000	1500	2000	2500	3000	3500	4000	4300	4800	5300	5800		
MC4 90/80	6.7	9	H metres	18.8	15.8	14.3	12.8	11.3	9.7	8.0	6.1						
MC4 110/80	8	11		20.9	17.6	16.0	14.5	12.9	11.3	9.5	7.6	6.4					
MC4 125/80	9.2	12.5		23.3	20.2	18.7	17.1	15.5	13.8	12.0	10.1	8.9	6.7				
MC4 150/80	11	15		26.9	23.7	22.1	20.5	18.8	17.1	15.3	13.4	12.2	10.1	7.9			
MC4 200/80	15	20		30.7	27.3	25.7	24.0	22.4	20.6	18.8	17.0	15.8	13.7	11.6	9.2		

Q = Flow rate H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1 PUMP BODY	Cast iron
2 IMPELLER	DOUBLE-CHANNEL type in cast iron
3 MOTOR CASING	Cast iron
4 CASING	Cast iron
5 MOTOR SHAFT	Stainless steel AISI 431

6 SHAFT WITH DOUBLE MECHANICAL SEAL SEPARATED BY AN OIL CHAMBER

<i>Seal Model</i>	<i>Shaft Diameter</i>	<i>Position</i>	<i>Materials</i>		
			<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
AR-35	Ø 35 mm	Motor side	Ceramic	Graphite	NBR
MG1-40	Ø 40 mm	Pump side	Silicon carbide	Silicon carbide	NBR

7 BEARINGS 6308 2RS-C3 / 3308A 2RS-C3

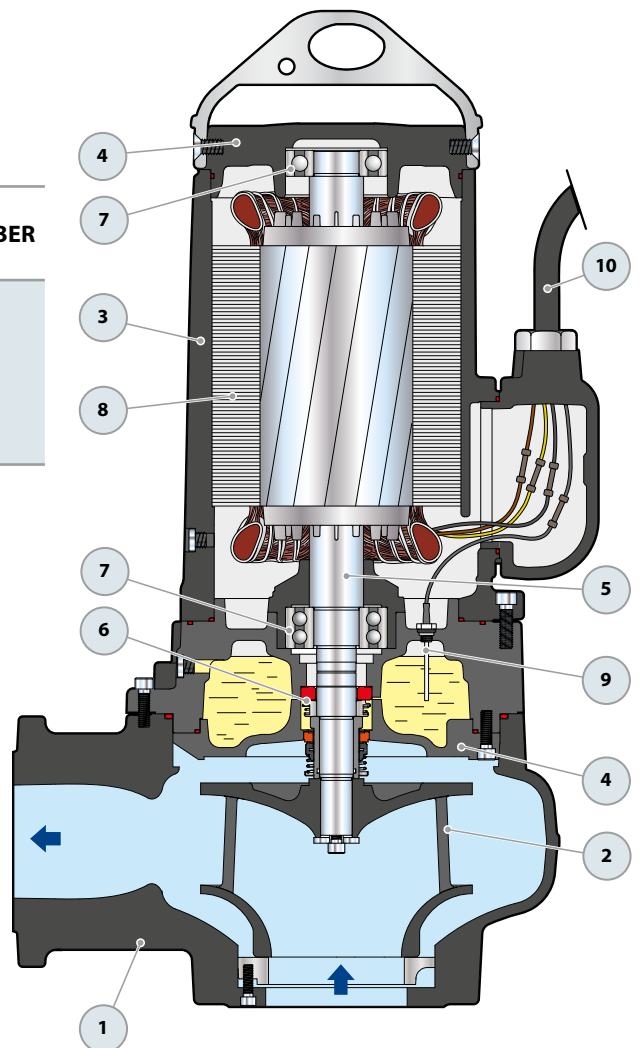
8 ELECTRIC MOTOR

- three-phase 380 V - 60 Hz
with thermal overload protector incorporated into the winding
- Insulation: class F
- Protection: IP X8

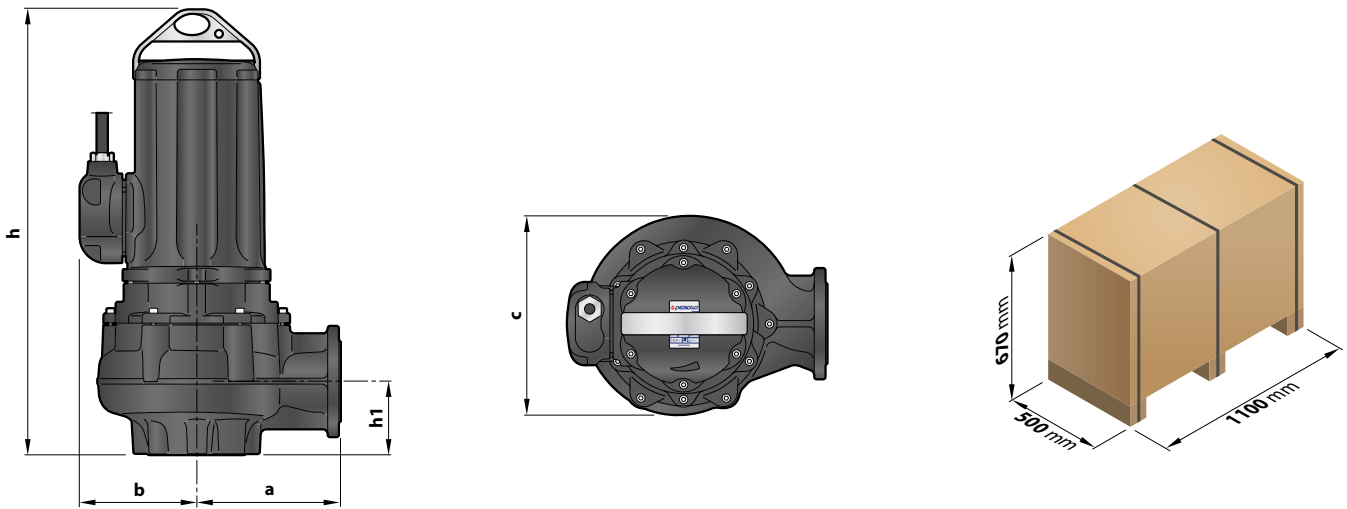
9 PROBE DETECTING THE PRESENCE OF WATER IN THE OIL CHAMBER

10 POWER CABLE

"H07 RN-F" type
Standard length 10 metres

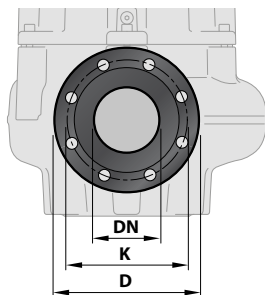


DIMENSIONS AND WEIGHT



MODEL	Passage of solids	DIMENSIONS mm					kg
		a	b	c	h	h1	
Three-phase							3~
MC4 90/80	Ø 80	285	232	395	870	145	216
MC4 110/80							217
MC4 125/80							218
MC4 150/80							228
MC4 200/80							238

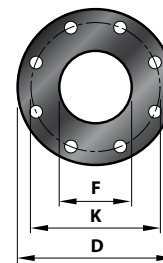
FLANGED PORT



MODEL	FLANGE DN	K mm	D mm	HOLES	
				N.	Ø (mm)
Three-phase					
MC4 90/80	100 (PN10)	180	220	8	18
MC4 110/80					
MC4 125/80					
MC4 150/80					
MC4 200/80					

COUNTERFLANGE

(TO BE ORDERED SEPARATELY)



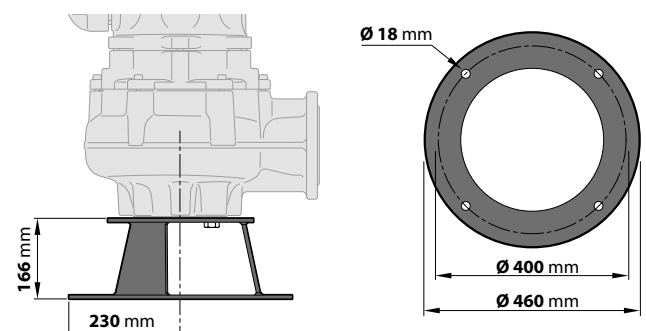
MODEL	FLANGE DN	F	K mm	D mm	HOLES	
					N.	Ø (mm)
Three-phase						
MC4 90/80	100	4"	180	220	8	18
MC4 110/80						
MC4 125/80						
MC4 150/80						
MC4 200/80						

ABSORPTION

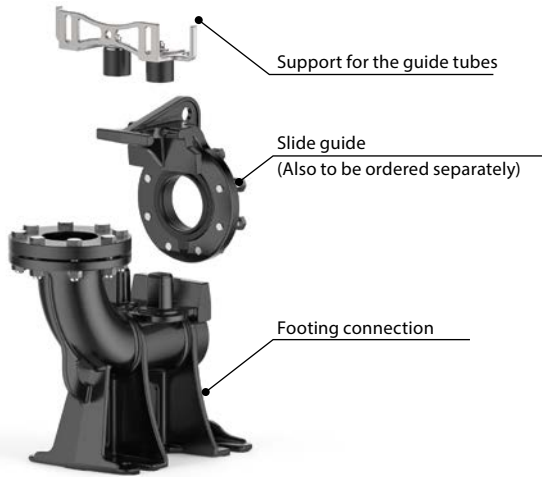
MODEL	VOLTAGE		
	220 V	380 V	440 V
Three-phase			
MC4 90/80	27.5 A	16.0 A	13 A
MC4 110/80	29.5 A	17.0 A	14 A
MC4 125/80	33.5 A	19.5 A	16 A
MC4 150/80	44.0 A	25.5 A	21 A
MC4 200/80	53.0 A	30.5 A	25 A

BASE

(TO BE ORDERED SEPARATELY)



SEWAGE LIFTING SYSTEM VXC4 – MC4



VERTICAL DELIVERY VERSION WITH 2" GUIDE TUBES

For VXC4, MC4	Cod. ASSPVXC4V	DN 4"
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Kit consisting of:

- footing connection complete with counterflange
- slide guide with screws and seals
- support for the guide tubes

STANDARD INSTALLATION

- | | |
|---------------------------------------------|------------------------------------------|
| 1. Pump | 7. Control box |
| 2. Footing connection | 8. Stop float switch |
| 3. Guide tubes | 9. Starting float switch |
| 4. Support for the guide tubes | 10. Starting float switch auxiliary pump |
| 5. Intermediate support for the guide tubes | 11. Alarm float switch |
| 6. Lifting chain | 13. Cement base |

SLIDE GUIDE (Also to be ordered separately)

For VXC4, MC4	Cod. ASSFL100
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Complete with screws and seals

● INTERMEDIATE SUPPORT (To be ordered separately)

Cod. 859SV349INTFA	Guide tube Ø 2"
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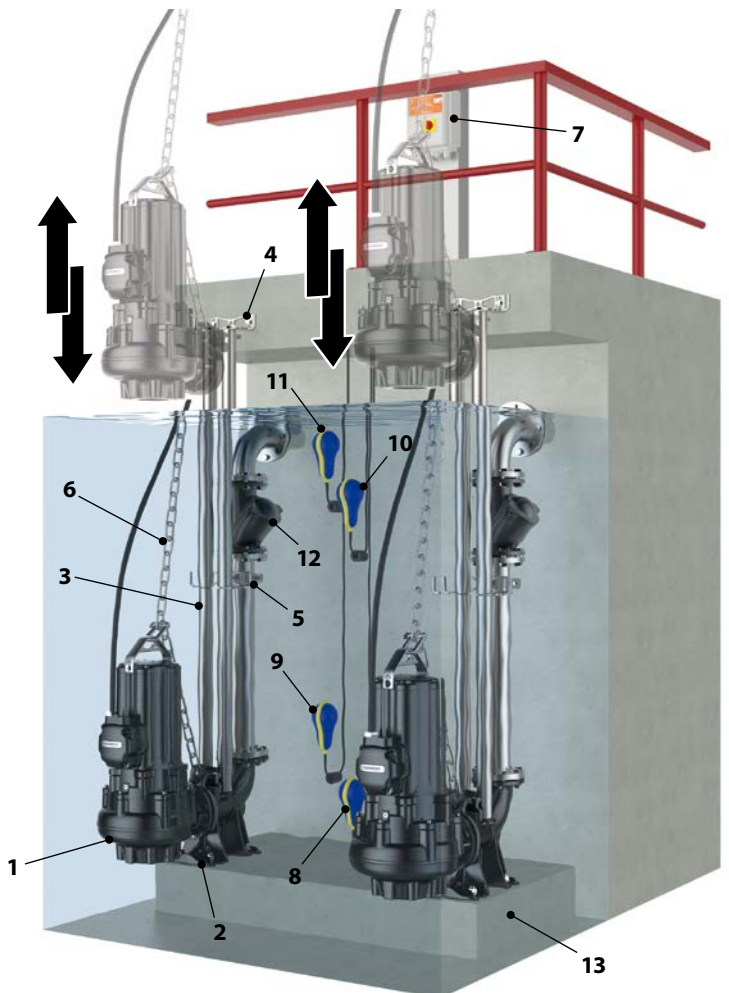
In order to ensure stability, insert the intermediate support every three metres of guide tube (recommended)



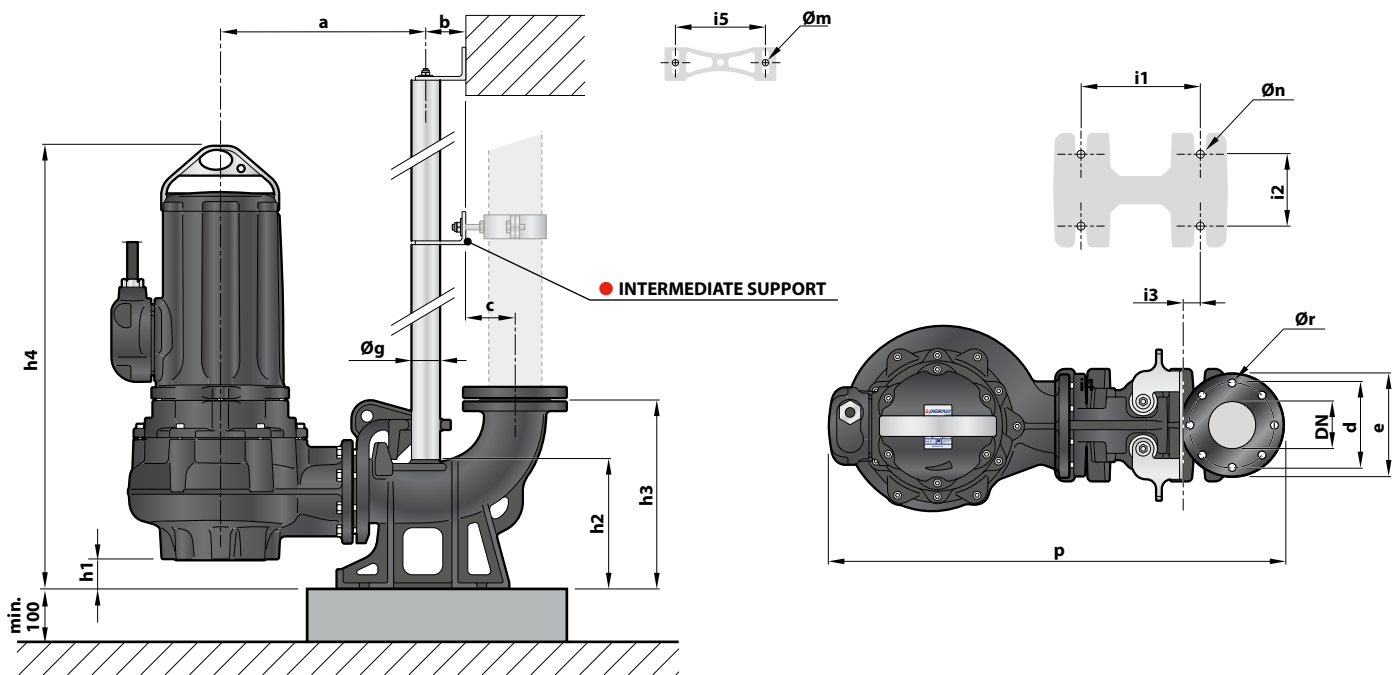
GUIDE TUBES (AISI 304 stainless steel)

Cod. 54SARTG006	Ø 2"
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Maximum length of the tube plank: 6 metres



DIMENSIONS



MODEL	Passage of solids mm	PORT DN	DIMENSIONS mm																	
			a	b	c	d	e	p	h1	h2	h3	h4	i1	i2	i3	i5	Øg	Øm	Øn	Ør
Three-phase																				
VXC4 /80	Ø 80	100	435	85.5	104.5	180	220	965	62	275	400	930	250	150	34	187	2"	13.5	22	18
MC4 /80																				