

# MC "DOUBLE-CHANNEL"

## Submersible pumps

for sewage water



### PERFORMANCE RANGE

- Flow rate up to **800 l/min** (48 m<sup>3</sup>/h)
- Head up to **15 m**

### APPLICATION LIMITS

- **5 m** maximum immersion depth
- Maximum liquid temperature **+40 °C**
- Passage of suspended solids up to **Ø 50 mm**
- **320 mm** minimum immersion depth for continuous service

### CONSTRUCTION AND SAFETY STANDARDS

- Complete with **5 m** long power cable
- Float switch for single-phase versions

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

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



### CERTIFICATIONS



### INSTALLATION AND USE

MC submersible pumps are suitable for draining **dirty water and sewage** in domestic and civil applications. They come equipped with a DOUBLE-CHANNEL stainless steel impeller and are capable of pumping liquids containing short fibred suspended solids up to Ø 50 mm.

They are ideal for pumping sewage water, waste water, surface water and water mixed with mud in locations such as holiday homes and detached homes.

These pumps distinguish themselves for their reliability, which can be best appreciated under automatic operating conditions in fixed installations.

### PATENTS - TRADE MARKS - MODELS

- Patent pending n° BO2008A000494, BO2008A000496

### OPTIONALS AVAILABLE ON REQUEST

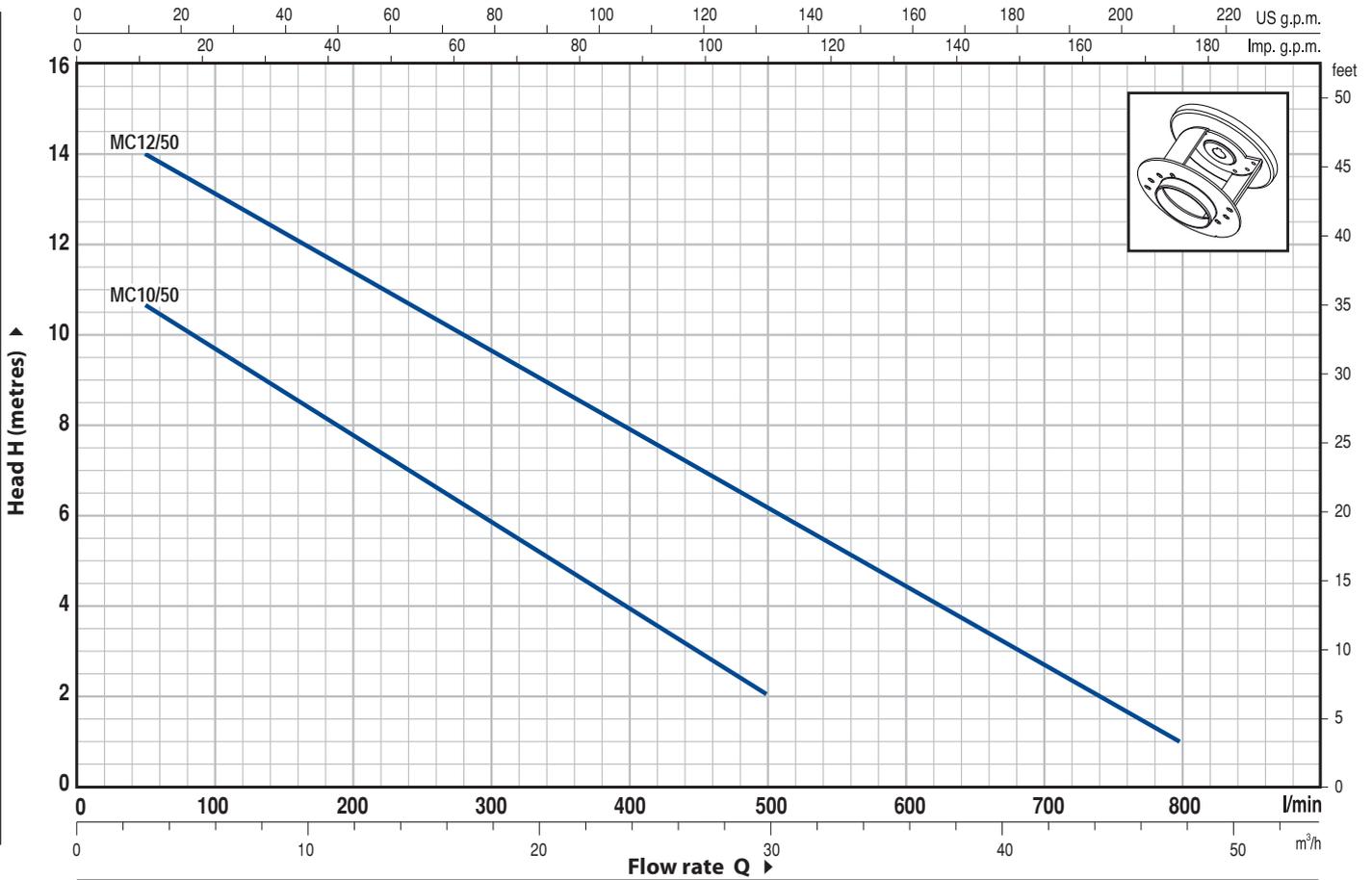
- Pumps with a **10 m** long power cable
  - ➔ N.B. Standard EN 60335-2-41 states that the power cable must be 10 m long for outdoor applications
- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

### GUARANTEE

2 years subject to terms and conditions

**CHARACTERISTIC CURVES AND PERFORMANCE DATA**

**50 Hz n= 2900 1/min**



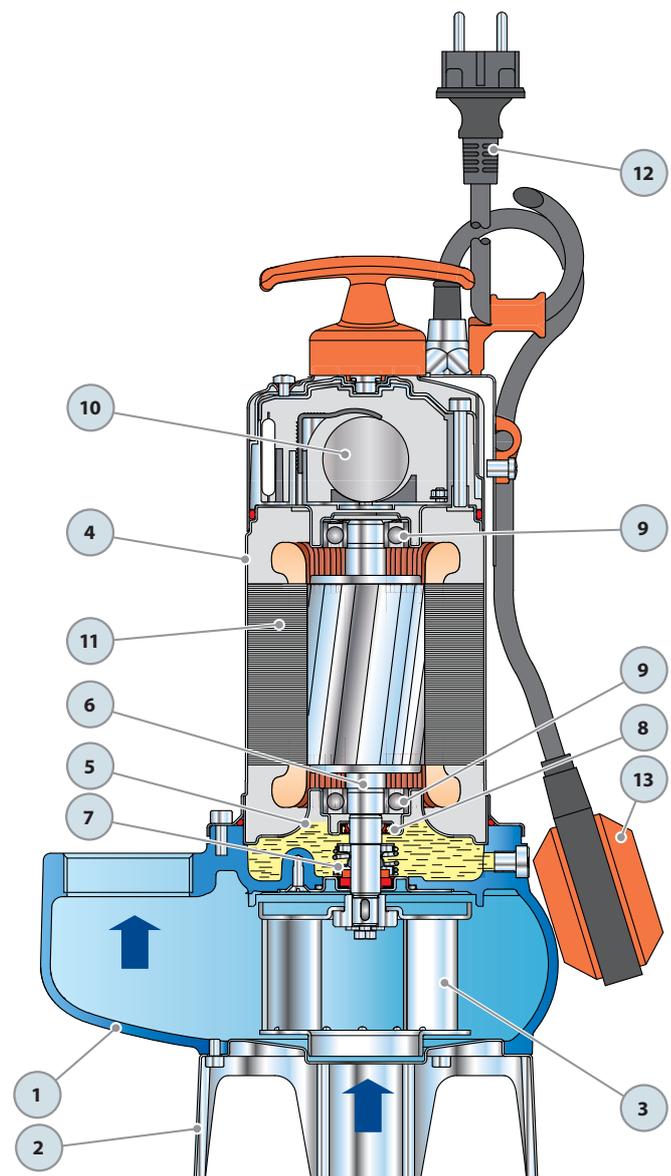
MODEL		POWER		Q	Flow rate															
Single-phase	Three-phase	kW	HP		m³/h	0	3	6	9	12	15	18	21	24	27	30	36	42	48	
MCm 10/50	MC 10/50	0.75	1	l/min	0	50	100	150	200	250	300	350	400	450	500	600	700	800		
MCm 12/50	MC 12/50	1.1	1.5	H metres	12	10.7	9.7	8.7	7.8	6.8	5.9	5	4	3	2					
					15	14	13	12.3	11.5	10.5	9.7	8.8	8	7	6.2	4.5	2.7	1		

Q = Flow rate H = Total manometric head

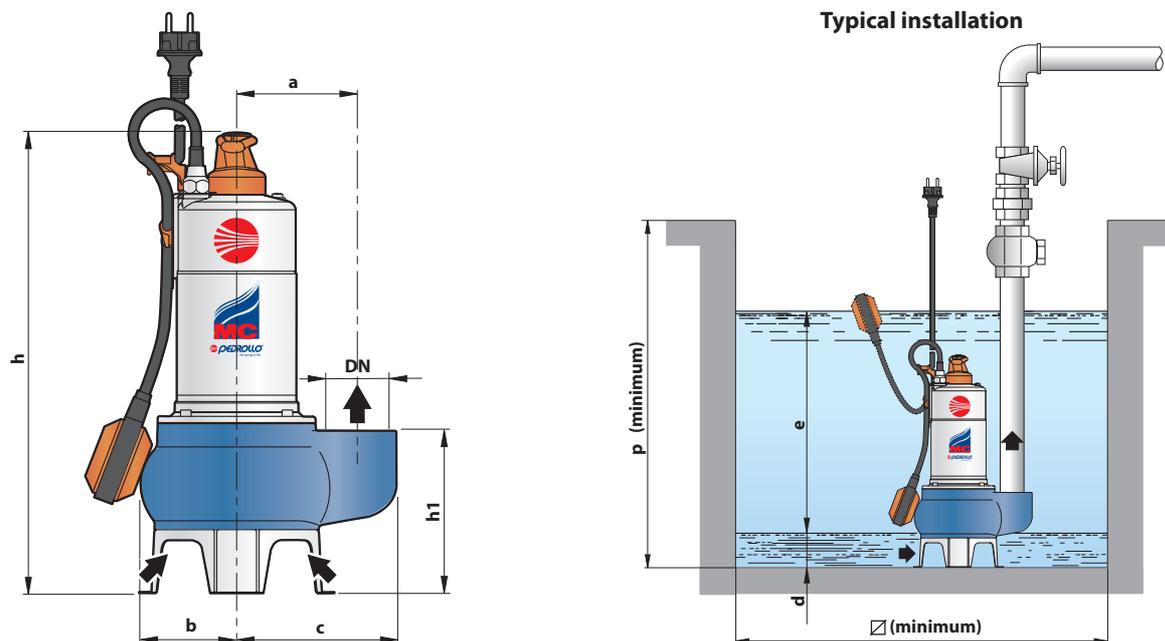
Tolerance of characteristic curves in compliance with EN ISO 9906 App. A.

# MC "DOUBLE-CHANNEL"

POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS			
1	PUMP BODY	Cast iron, with threaded port in compliance with ISO 228/1			
2	BASE	Stainless steel AISI 304			
3	IMPELLER	Stainless steel AISI 304 DOUBLE-CHANNEL type			
4	MOTOR CASING	Stainless steel AISI 304			
5	MOTOR CASING PLATE	Stainless steel AISI 304			
6	MOTOR SHAFT	Stainless steel EN 10088-3 - 1.4104			
7	<b>SHAFT WITH DOUBLE SEAL AND OIL CHAMBER</b>				
	<i>Seal</i>	<i>Shaft</i>			
	<i>Model</i>	<i>Diameter</i>			
	<i>Stationary ring</i>	<i>Rotational ring</i>			
	<i>Elastomer</i>	<i>Materials</i>			
	<b>MG1-14 SIC</b>	<b>Ø 14 mm</b>	Ceramic	Silicon carbide	NBR
8	LIP SEAL	Ø 15 x Ø 24 x H 5 mm for MC 10/50 Ø 16 x Ø 24 x H 5 mm for MC 12/50			
9	BEARINGS	6203 ZZ / 6203 ZZ			
10	<b>CAPACITOR</b>				
	<i>Pump</i>	<i>Capacitance</i>			
	<i>Single-phase</i>	<i>(230 V or 240 V)</i>	<i>(110 V)</i>		
	<b>MCm 10/50</b>	<b>20 µF 450 VL</b>	<b>30 µF 250 VL</b>		
	<b>MCm 12/50</b>	<b>25 µF 450 VL</b>	–		
11	<b>ELECTRIC MOTOR</b>				
	– Single-phase 230 V - 50 Hz with thermal overload protector built-in to the winding				
	– Three-phase 400 V - 50 Hz				
	– Insulation: F class				
	– Protection: IP 68				
12	<b>POWER CABLE</b>				
	5 metre long "H07 RN-F" cable (with Schuko plug on single-phase versions only)				
13	<b>FLOAT SWITCH</b> (only for single-phase versions)				



## DIMENSIONS AND WEIGHT



MODEL		PORT DN	solids passage	DIMENSIONS mm									kg	
Single-phase	Three-phase			a	b	c	h	h1	d	e	p	∅	1~	3~
MCm 10/50	MC 10/50	2"	∅ 50 mm	110	92	150	437	153	60	variable	500	500	14.1	12.9
MCm 12/50	MC 12/50			115	97	157	458	159					17.0	15.8

## ABSORPTION

MODEL	VOLTAGE (single-phase)		
	230 V	240 V	110 V
MCm 10/50	5.2 A	5.2 A	11.7 A
MCm 12/50	8.5 A	8.5 A	-

MODEL	VOLTAGE (three-phase)			
	230 V	400 V	240 V	415 V
MC 10/50	3.6 A	2.1 A	3.6 A	2.1 A
MC 12/50	6.1 A	3.5 A	6.1 A	3.5 A

## PALLETIZATION

MODEL		GROUPAGE			CONTAINER				
Single-phase	Three-phase	n° pumps	H (mm)	kg		n° pumps	H (mm)	kg	
				1~	3~			1~	3~
MCm 10/50	MC 10/50	60	1520	865	791	80	1980	1148	1049
MCm 12/50	MC 12/50	45	1574	784	730	60	2052	1039	968

