

Submersible pumps

 Filthy water

 Domestic use

 Civil use


PERFORMANCE RANGE

- Flow rate up to **750 l/min** (45 m³/h)
- Head up to **15 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 50 mm**
- Minimum immersion depth for continuous service: **300 mm**

CONSTRUCTION AND SAFETY STANDARDS

- **10 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

Company with management system certified DNV
ISO 9001: QUALITY
ISO 14001: ENVIRONMENT AND SAFETY



INSTALLATION AND USE

MC series pumps, made from heavy gauge cast iron offering exceptional sturdiness, abrasion resistance and durability, come equipped with a DOUBLE-CHANNEL impeller and are capable of pumping liquids containing short fibred suspended solids up to Ø 50 mm.

Recommended for conveying **drained water and sewage, waste water, water mixed with mud, groundwater and surface water** for applications in blocks of flats, industries, multi-storey and underground car parks, wash areas, etc.

PATENTS - TRADE MARKS - MODELS

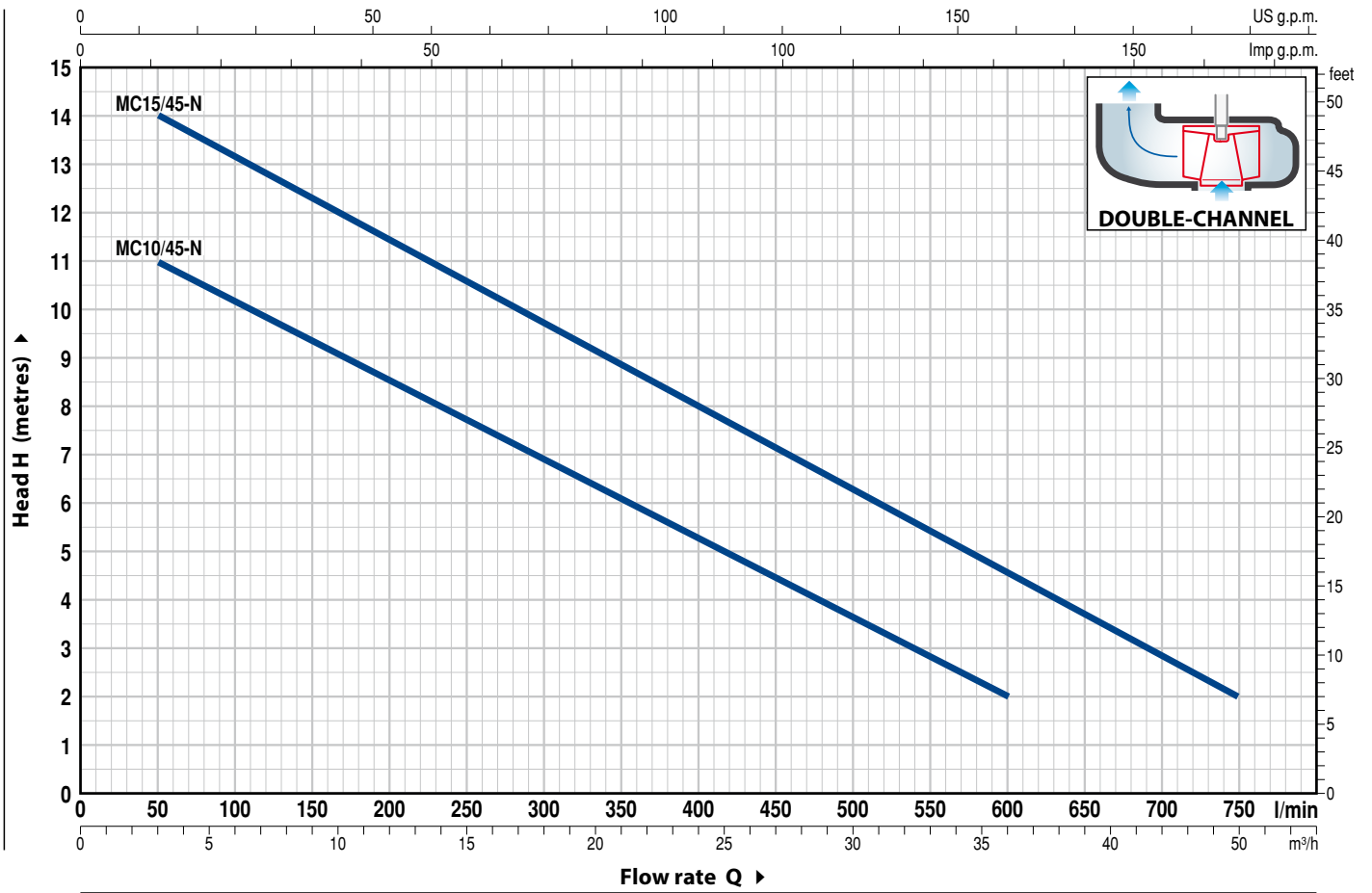
- Patent Pending n. BO2015A000116
- Registered EU Design n. 002501486-0003

OPTIONS AVAILABLE ON REQUEST

- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 rpm



MODEL		POWER (P ₂)		Q	Flow rate													
Single-phase	Three-phase	kW	HP		m ³ /h	0	3	6	12	18	24	30	36	42	45			
				l/min	0	50	100	200	300	400	500	600	700	750				
MCM 10/45-N	MC 10/45-N	0.75	1	H metres	12	11	10	8.5	7	5	3.5	2						
MCM 15/45-N	MC 15/45-N	1.1	1.5		15	14	13	11.5	9.7	8	6.3	4.5	3	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 with an Epoxy Electro Coating treatment, with threaded port in compliance with ISO 228/1
2	BASE	Stainless steel AISI 304
3	IMPELLER	Precision cast stainless steel AISI 304 DOUBLE-CHANNEL type
4	MOTOR CASING	Cast iron with an Epoxy Electro Coating treatment
5	MOTOR CASING PLATE	Stainless steel AISI 304
6	MOTOR SHAFT	Stainless steel EN 10088-3 - 1.4104

7 SHAFT WITH DOUBLE MECHANICAL SEAL SEPARATED BY AN OIL CHAMBER

Seal Model	Shaft Diameter	Position	Materials		
			Stationary ring	Rotational ring	Elastomer
MG1-14D SIC	Ø 14 mm	Motor side	Silicon carbide	Graphite	NBR
		Pump side	Silicon carbide	Silicon carbide	NBR

8 BEARINGS 6203 ZZ / 6203 ZZ

9 CAPACITOR

Pump	Capacitance	
Single-phase	(230 V or 240 V)	(110 V)
MCm 10/45-N	20 µF 450 VL	30 µF - 250 VL
MCm 15/45-N	25 µF 450 VL	-

10 ELECTRIC MOTOR

MCm: single-phase 230 V - 50 Hz
with thermal overload protector incorporated into the winding

MC: three-phase 400 V - 50 Hz

- Insulation: class F
- Protection: IP X8

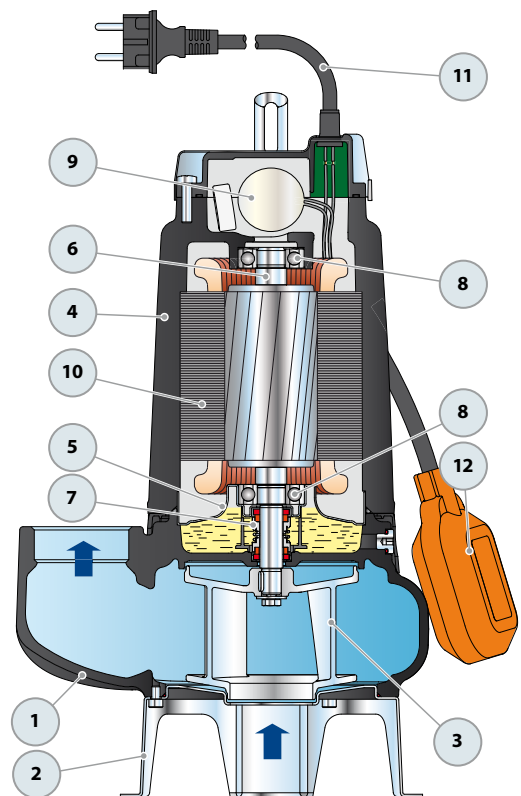
11 POWER CABLE

"H07 RN-F" type
(with Schuko plug for single-phase versions only)

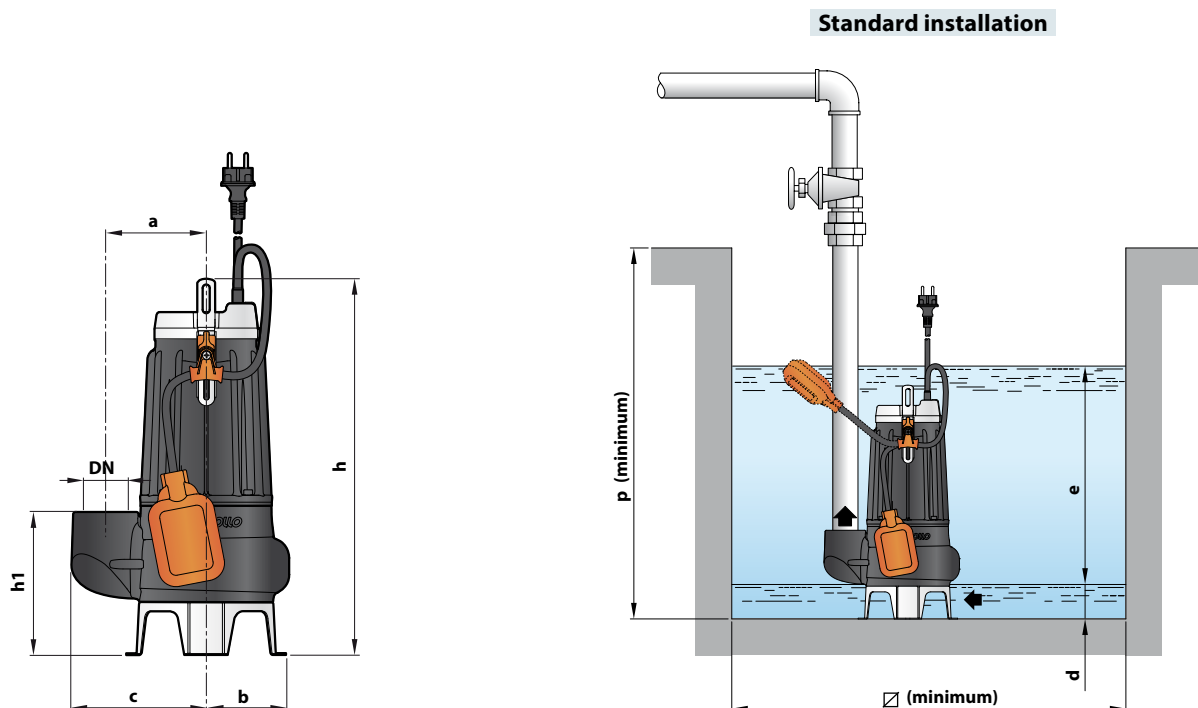
Standard length 10 metres

12 FLOAT SWITCH

(only for single-phase versions)



DIMENSIONS AND WEIGHT



MODEL		PORT DN	Passage of solids	DIMENSIONS mm										kg	
Single-phase	Three-phase			a	b	c	h	h1	d	e	p	∅	1~	3~	
MCm 10/45-N	MC 10/45-N	2"	Ø 50 mm	115	95	155	413	164	60	variable	500	500	19.0	17.9	
MCm 15/45-N	MC 15/45-N						428								20.2

ABSORPTION

MODEL	VOLTAGE		
	230 V	240 V	110 V
MCm 10/45-N	5.0 A	4.8 A	10.0 A
MCm 15/45-N	8.2 A	7.9 A	-

MODEL	VOLTAGE			
	230 V	400 V	240 V	415 V
MC 10/45-N	3.7 A	2.1 A	3.5 A	2.0 A
MC 15/45-N	5.6 A	3.2 A	5.4 A	3.1 A

PALLETIZATION

MODEL		GROUPAGE n. pumps	CONTAINER n. pumps
Single-phase	Three-phase		
MCm 10/45-N	MC 10/45-N	54	72
MCm 15/45-N	MC 15/45-N	54	72