



GENERAL CATALOGUE

 **PEDROLLO**[®]
... the spring of life



PEDROLLO S.p.A.

Via Enrico Fermi 7

37047 San Bonifacio (Verona) ITALY

paid-up capital € 40.000.000,00

Tel. +39 045 6136311

Fax +39 045 7614663

e-mail: sales@pedrollo.com

www.pedrollo.com

MC-I "DOUBLE-CHANNEL"

Submersible pumps

for sewage water

FAMCO
هایپر صنعت



PERFORMANCE RANGE

- Flow rate up to **800 l/min** (48 m³/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**
- **300 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-I submersible pumps are suitable for draining **dirty water and sewage** in domestic and civil applications. They come equipped with a DOUBLE-CHANNEL 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

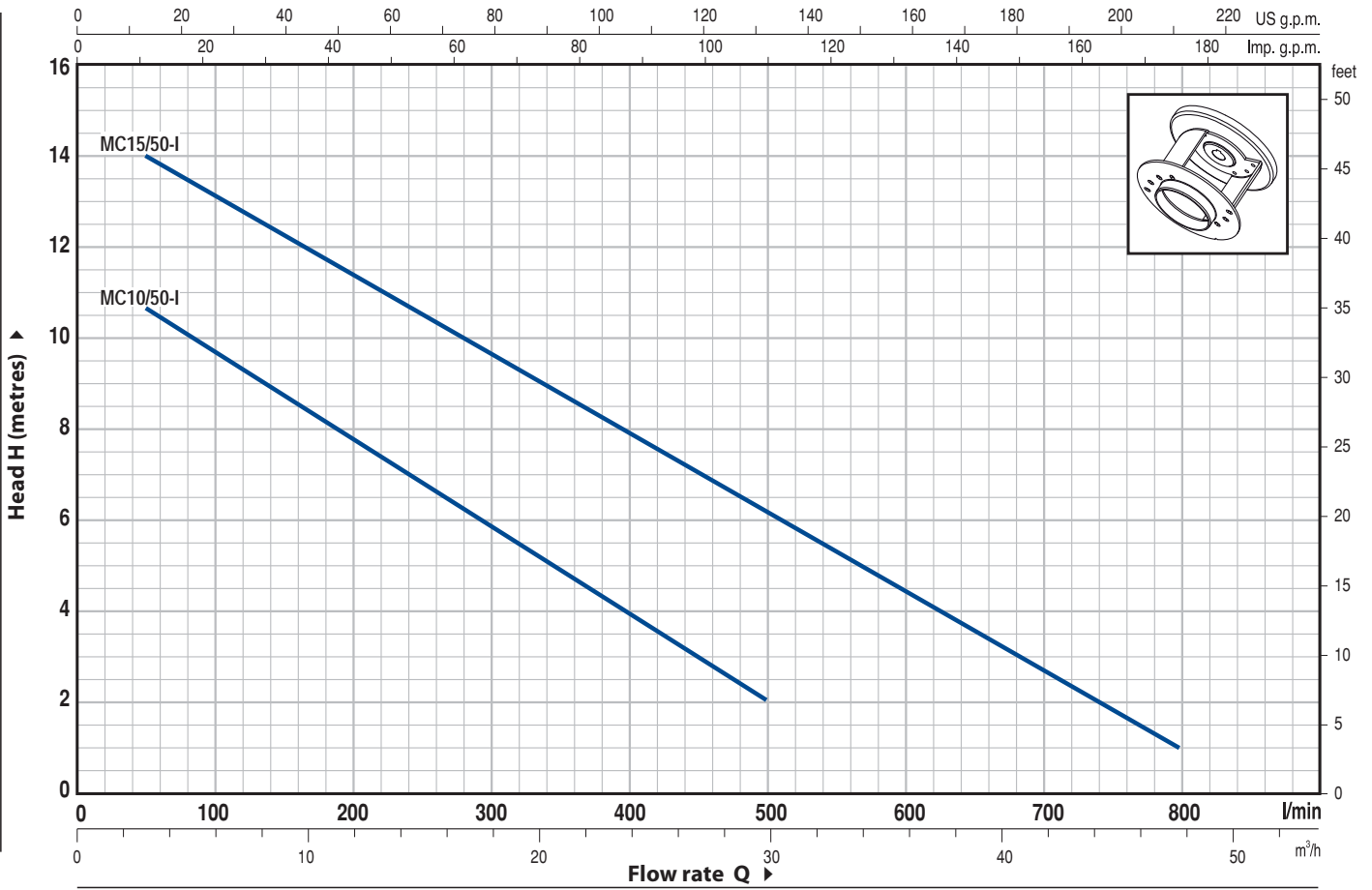
- Pumps with a **10 m** long power cable
 - ➔ N.B. Standard EN 60335-2-41 states that the power cable must be 10 m long for outdoor applications
- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

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-I	MC 10/50-I	0.75	1	l/min	0	50	100	150	200	250	300	350	400	450	500	600	700	800		
-	MC 15/50-I	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.

POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS
------	-----------	------------------------------

1	PUMP BODY	Stainless steel AISI 304, 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 AISI 431

7 SHAFT WITH DOUBLE SEAL AND OIL CHAMBER

Seal Model	Shaft Diameter	Materials		
		Stationary ring	Rotational ring	Elastomer
MG1-14 SIC	Ø 14 mm	Ceramic	Silicon carbide	NBR

8	LIP SEAL	Ø 15 x Ø 24 x H 5 mm
---	-----------------	----------------------

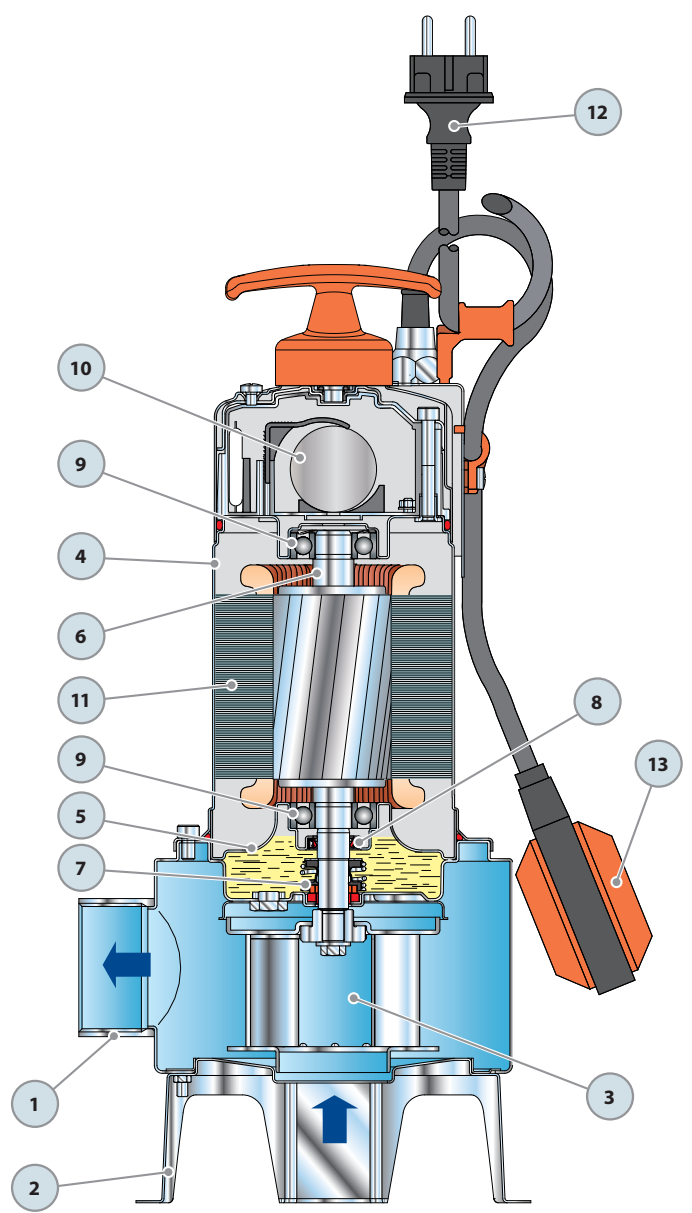
9	BEARINGS	6203 ZZ / 6203 ZZ
---	-----------------	-------------------

10	CAPACITOR	
<i>Capacitance</i>		
(230 V or 240 V)	(110 V)	
20 µF 450 VL	30 µF 250 VL	

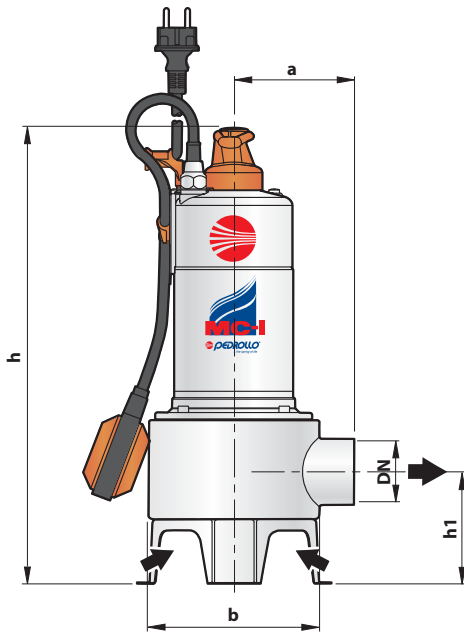
11	ELECTRIC MOTOR	
<ul style="list-style-type: none"> - Single-phase 230 V - 50 Hz with thermal overload protector built-in to the winding - Three-phase 400 V - 50 Hz - Insulation: F class - Protection: IP 68 		

12	POWER CABLE	
5 metre long "H07 RN-F" cable (with Schuko plug on single-phase versions only)		

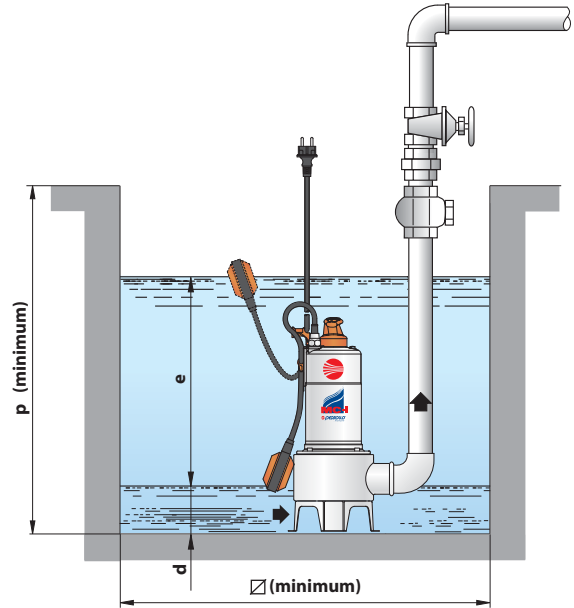
13	FLOAT SWITCH	(only for single-phase versions)
----	---------------------	----------------------------------



DIMENSIONS AND WEIGHT



Typical installation



MODEL		PORT DN	solids passage	DIMENSIONS mm								kg	
Single-phase	Three-phase			a	b	h	h1	d	e	p	∅	1~	3~
MCm 10/50-I	MC 10/50-I	2"	∅ 50 mm	118	166	434	108	60	variable	500	500	10.9	9.5
-	MC 15/50-I											-	10.5

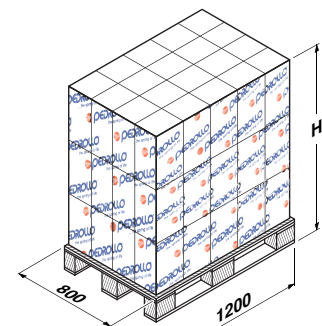
ABSORPTION

MODEL	VOLTAGE (single-phase)		
	230 V	240 V	110 V
MCm 10/50-I	5.0 A	5.0 A	11.5 A

MODEL	VOLTAGE (three-phase)			
	230 V	400 V	240 V	415 V
MC 10/50-I	3.6 A	2.1 A	3.6 A	2.1 A
MC 15/50-I	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-I	MC 10/50-I	60	1520	671	588	80	1980	889	778
-	MC 15/50-I	60	1520	-	645	80	1980	-	854



تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲

MC "DOUBLE-CHANNEL" FAMCO

Submersible pumps

for sewage water

هایپر صنعت



PERFORMANCE RANGE

- Flow rate up to **800 l/min** (48 m³/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

www.famcocorp.com

E-mail: info@famcocorp.com

@famco_group

Tel: ۰۲۱-۴۸۰۰۰۰۴۹

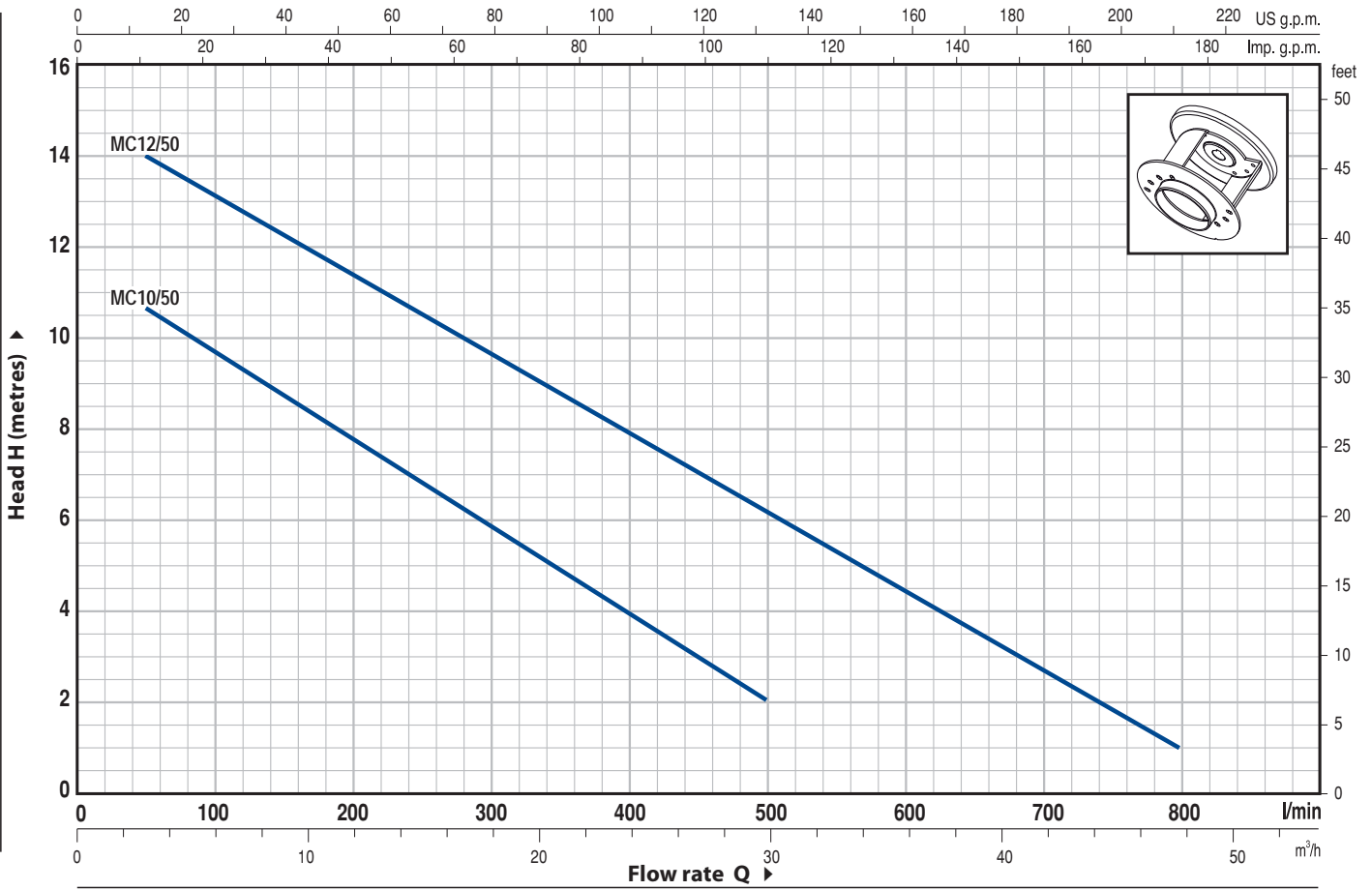
Fax: ۰۲۱-۴۴۹۹۴۶۴۲

تهران، کیلومتر ۲۱ بزرگراه لشکری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲

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.

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 SHAFT WITH DOUBLE SEAL AND OIL CHAMBER

Seal Model	Shaft Diameter	Materials		
		Stationary ring	Rotational ring	Elastomer
MG1-14 SIC	Ø 14 mm	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 CAPACITOR

Pump	Capacitance	
Single-phase	(230 V or 240 V)	(110 V)
MCm 10/50	20 µF 450 VL	30 µF 250 VL
MCm 12/50	25 µF 450 VL	-

11 ELECTRIC MOTOR

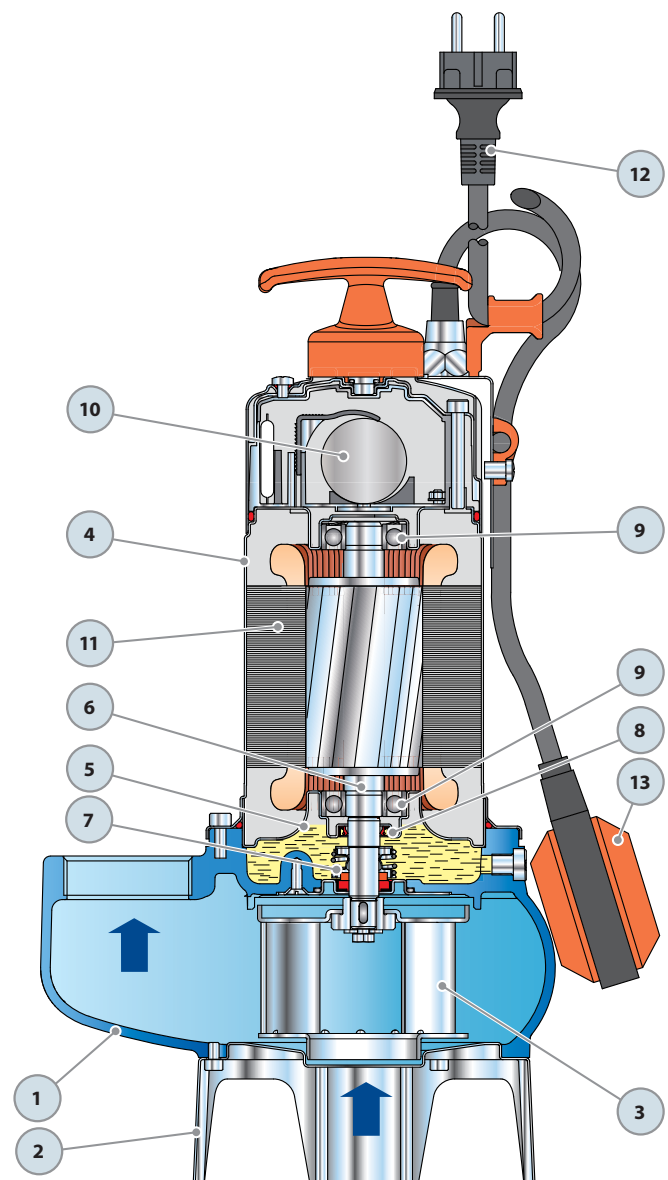
- Single-phase 230 V - 50 Hz
with thermal overload protector built-in to the winding
- Three-phase 400 V - 50 Hz
- Insulation: F class
- Protection: IP 68

12 POWER CABLE

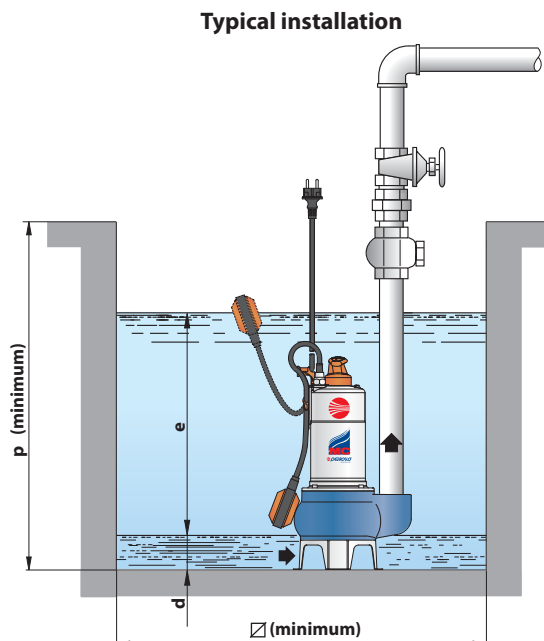
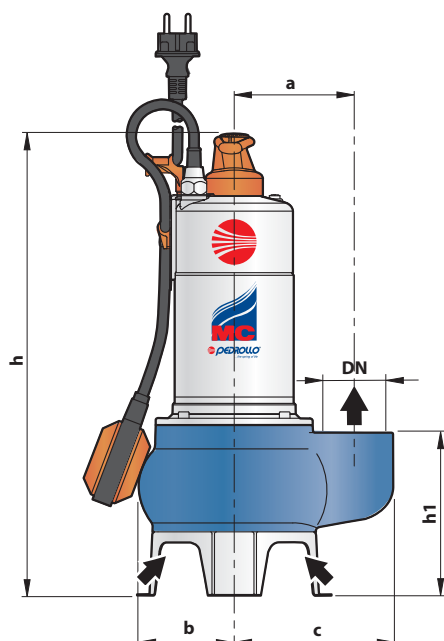
5 metre long "H07 RN-F" cable
(with Schuko plug on single-phase versions only)

13 FLOAT SWITCH

(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	Ø	1~	3~
MCm 10/50	MC 10/50	2"	Ø 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

www.famcocorp.com

E-mail: info@famcocorp.com

@famco_group

Tel: ۰۲۱-۴۸۰۰۰۰۴۹

Fax: ۰۲۱-۴۴۹۹۴۶۴۲

تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲

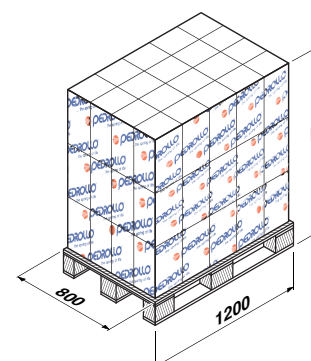
ABSORPTION

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



MC-F "DOUBLE-CHANNEL"

Pump with flanged port

FAMCO

هایپر صنعت

for sewage water



PERFORMANCE RANGE

- Flow rate up to **500 l/min** (30 m³/h)
- Head up to **12 m**

APPLICATION LIMITS

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

CONSTRUCTION AND SAFETY STANDARDS

- Complete with **5 m** long power cable
 - Float switch for single-phase versions
- ⇒ The "CF" delivery elbow is available separately

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

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



CERTIFICATIONS



INSTALLATION AND USE

MC-F 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

- "CF" Delivery kit - discharge elbow with bolts and seal.
- 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

www.famcocorp.com

E-mail: info@famcocorp.com

@famco_group

Tel: ۰۲۱-۴۸۰۰۰۰۴۹

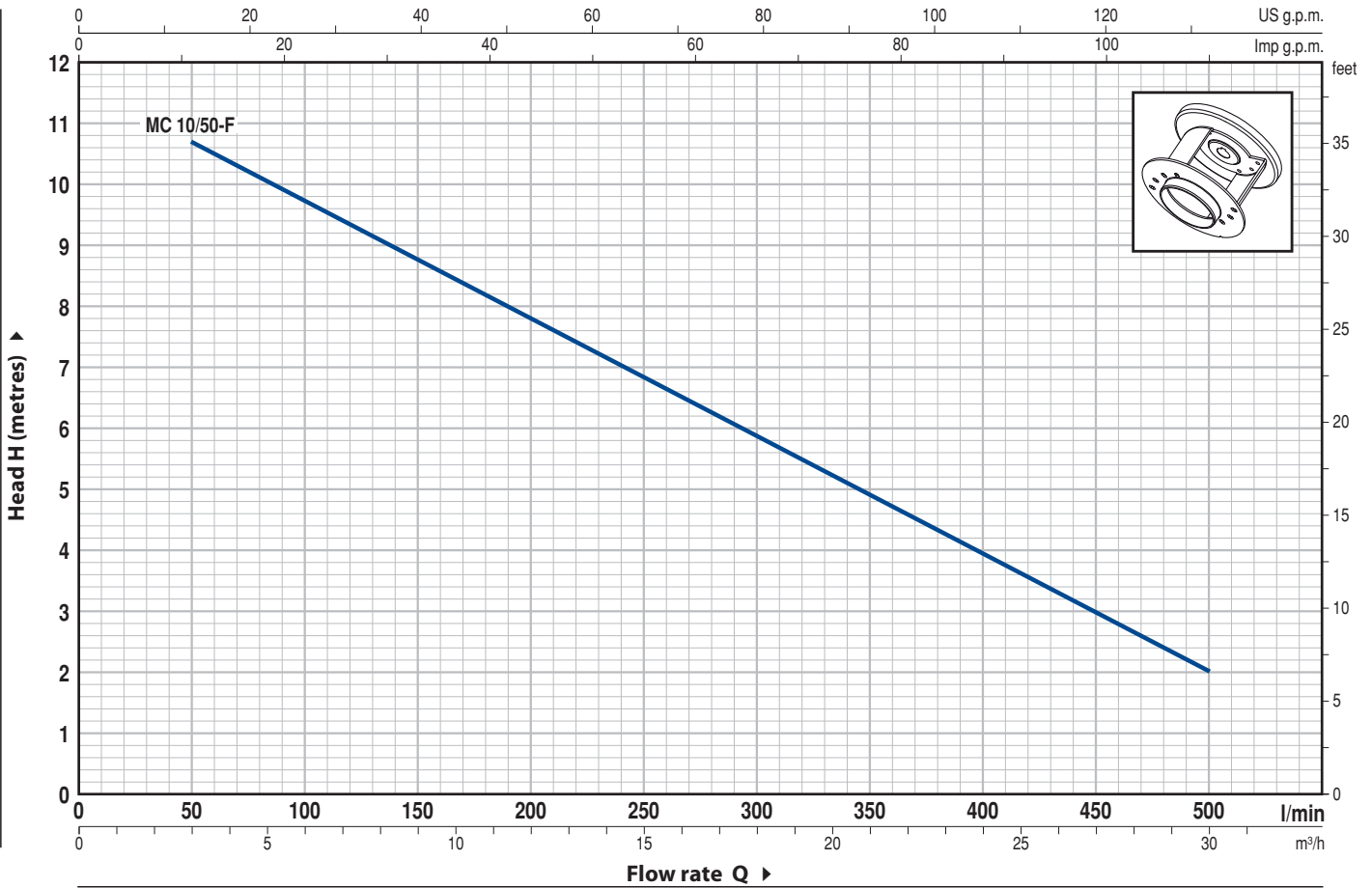
Fax: ۰۲۱-۴۴۹۹۴۶۴۲

تهران، کیلومتر ۲۱ بزرگراه لشکری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 1/min

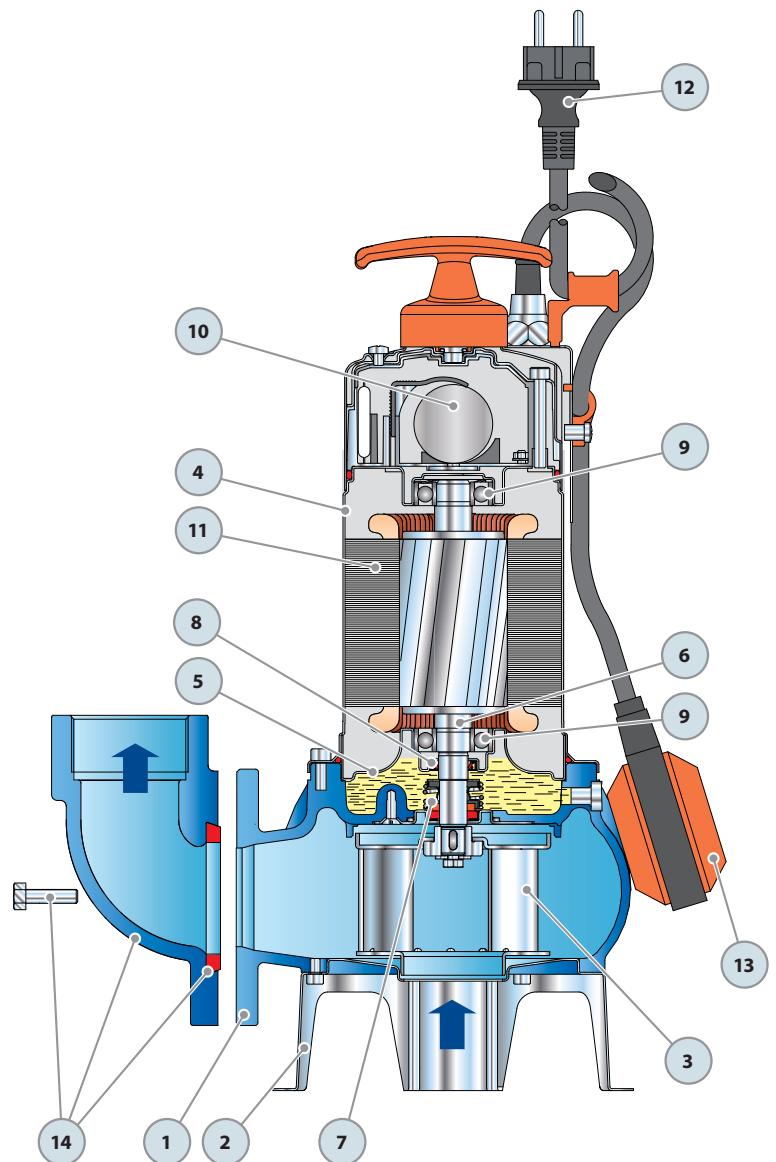


MODEL		POWER		Q	Flow rate												
Single-phase	Three-phase	kW	HP		0	3	6	9	12	15	18	21	24	27	30		
MCm 10/50-F	MC 10/50-F	0.75	1	H metres	12	10.7	9.7	8.7	7.8	6.8	5.9	5	4	3	2		

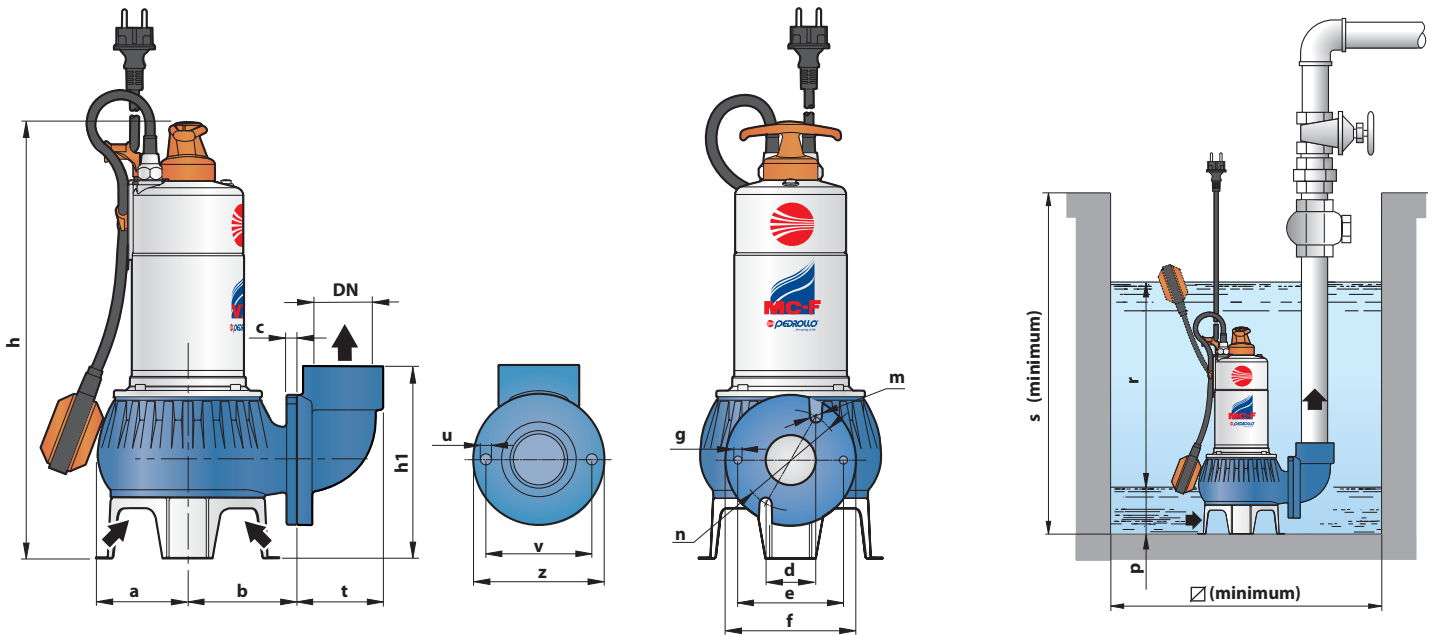
Q = Flow rate H = Total manometric head

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

POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS
1	PUMP BODY	Cast iron, complete with flanged port
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	SHAFT WITH DOUBLE SEAL AND OIL CHAMBER	
	<i>Seal</i>	<i>Shaft</i>
	<i>Model</i>	<i>Diameter</i>
	MG1-14 SIC	Ø 14 mm
		<i>Stationary ring</i>
		Ceramic
		<i>Rotational ring</i>
		Silicon carbide
		<i>Elastomer</i>
		NBR
8	LIP SEAL	Ø 15 x Ø 24 x H 5 mm
9	BEARINGS	6203 ZZ / 6203 ZZ
10	CAPACITOR	
	<i>Capacitance</i>	
	(230 V or 240 V)	(110 V)
	20 µF 450 VL	30 µF 250 VL
11	ELECTRIC MOTOR	
	<ul style="list-style-type: none"> - 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	POWER CABLE	
	5 metre long "H07 RN-F" cable (with Schuko plug on single-phase versions only)	
13	FLOAT SWITCH	
	(only for single-phase versions)	
14	"CF" CURVED DELIVERY KIT	
	Complete with:	
	- cast iron flanged curved delivery attachment	
	- seal	
	- stainless steel screws	



DIMENSIONS AND WEIGHT



MODEL		solids passage	DIMENSIONS mm														kg	
Single-phase	Three-phase		a	b	c	d	e	f	g	h	m	n	p	r	s	∅	1~	3~
MCm 10/50-F	MC 10/50-F	∅ 50 mm	90	110	11	50	105	130	M10	437	12	100	60	variable	500	500	14.5	13.2

MODEL		PORT DN	DIMENSIONS mm					kg
Curved delivery			h1	t	u	v	z	
CF		2"	192	85	11	105	130	2.4

ABSORPTION

MODEL	VOLTAGE (single-phase)		
	Single-phase	230 V	240 V
MCm 10/50-F	5.2 A	5.2 A	11.7 A

MODEL	VOLTAGE (three-phase)			
	Three-phase	230 V	400 V	240 V
MC 10/50-F	3.6 A	2.1 A	3.6 A	2.1 A

www.famcocorp.com

E-mail: info@famcocorp.com

@famco_group

Tel: ۰۲۱-۴۸۰۰۰۰۴۹

Fax: ۰۲۱-۴۴۹۹۴۶۴۲

تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲

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-F	MC 10/50-F	60	1520	887	809	80	1980	1177	1073

