VXC-MC

VORTEX and **DOUBLE-CHANNEL** submersible pumps







Sewage water



Domestic use



Civil use



Industrial use

- An innovative project by Pedrollo's Research and Development department, has resulted in the new VXC, a complete range of extremely robust and reliable electric pumps.
- * Thanks to the enhanced oversizing of the oil-bath electric motor, shaft and bearings, the new VXC electric pumps guarantee an unprecedented service life, with high hydraulic performance, low operating costs and easy maintenance. The oil-bath motor also allows continuous operation of the electric pump, even if completely uncovered.
- * They are recommended in all installations for pumping waste water with suspended solid bodies up to 65 mm diameter.
- * The VXC series is equipped with an extremely reliable and robust VORTEX impeller with low risk of clogging.



PERFORMANCE RANGE

- Flow rate up to **1250 l/min** (75 m³/h)
- Head up to 20 m

APPLICATION LIMITS

- 10 m maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature +40 °C
- Passage of solids:
 - up to **Ø 50 mm** for VXC /50-F
 - up to **Ø 65 mm** for VXC /65-F

CONSTRUCTION AND SAFETY STANDARDS

- 10 m long power cable
- External float switch and control box for single-phase versions

INSTALLATION AND USE

The VXC series of pumps, manufactured from heavy gauge robust cast iron, resistant to abrasion and long lasting, are fitted with a VORTEX impeller and therefore suitable for drainage of **refluent water**, water mixed with mud, liquids containing air or gas, and putrid muds. They are recommended for fixed installations, when placed in suitable wells, in sewers, tunnels, wells, underground car parks, etc.

PATENTS - TRADE MARKS - MODELS

Patent n° IT0001428923

OPTIONS AVAILABLE ON REQUEST

- **QES** control box for three-phase pumps
- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

GUARANTEE

For the following versions, to validate the guarantee, the built-in thermal overload protector must be connected to the control box:

- VXC 15-20-30-40/50
- VXC 15-20-30-40/65











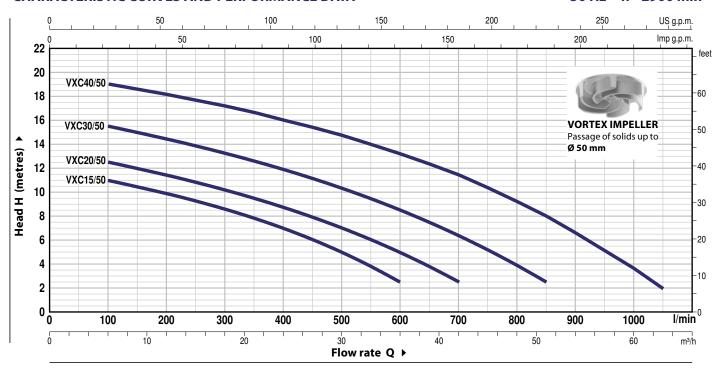


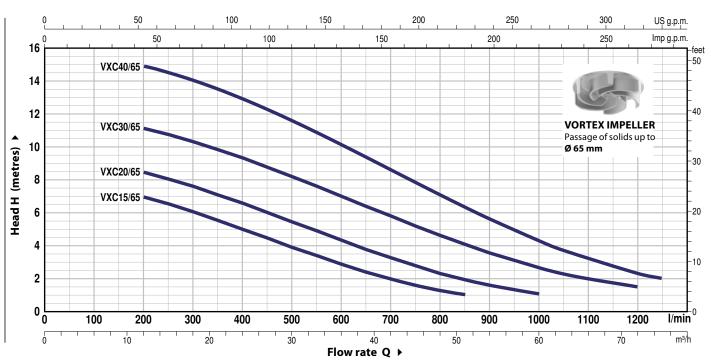






50 Hz n= 2900 min⁻¹





MODEL		POWE	POWER (P2)		0	6	12	18	24	30	36	42	51	60	63	72	75
Single-phase	Three-phase	kW	HP	Q I/min	0	100	200	300	400	500	600	700	850	1000	1050	1200	1250
VXCm 15/50	VXC 15/50	1.1	1.5		12.0	11.0	9.9	8.6	7.0	5.0	2.5						
VXCm 20/50	VXC 20/50	1.5	2		13.5	12.5	11.4	10.2	8.7	7.0	5.0	2.5					
VXCm 30/50	VXC 30/50	2.2	3		16.5	15.5	14.4	13.2	11.9	10.3	8.5	6.4	2.5				
-	VXC 40/50	3	4		20.0	19.0	18.1	17.1	16.0	14.7	13.2	11.4	8.0	3.6	2.0		
VXCm 15/65	VXC 15/65	1.1	1.5	H metres	8.0	_	7.0	6.0	5.0	3.9	2.8	2.0	1.0				
VXCm 20/65	VXC 20/65	1.5	2		9.5	-	8.5	7.6	6.6	5.4	4.3	3.3	2.0	1.0			
VXCm 30/65	VXC 30/65	2.2	3		12.0	_	11.1	10.3	9.3	8.2	7.0	5.8	4.1	2.6	2.3	1.5	
_	VXC 40/65	3	4		15.5	_	15.0	14.0	13.0	11.6	10.1	8.6	6.3	4.3	3.7	2.3	2.0





POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	PUMP BODY	Cast iron with an Epoxy Electro Coating treatment, with threaded ports in compliance with ISO 228/1
2	IMPELLER	Precision cast stainless steel AISI 304 VORTEX type
3	MOTOR CASING	Cast iron with an Epoxy Electro Coating treatment
4	MOTOR CASING PLATE	Cast iron with an Epoxy Electro Coating treatment
5	MOTOR SHAFT	Stainless steel AISI 431

6 TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER

Seal	Shaft	Position		Materials	
Model	Diameter		Stationary ring	Rotational ring	Elastomer
STA-22	Ø 22 mm	Motor side	Ceramic	Graphite	NBR

7 BEARINGS 6305 CM D 6 / 6204 ZZ - C3

8 ELECTRIC MOTOR

VXCm 15-20-30: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding

VXC: three-phase 400 V - 50 Hz. with thermal overload protector incorporated into the winding to be connected to the control box (supplied on demand)

- Insulation: class F
- Protection: IP X8

9 POWER CABLE

10 metres long "H07 RN-F" cable

10 CONTROL BOX for VXCm 15-20-30

(only for single-phase versions)

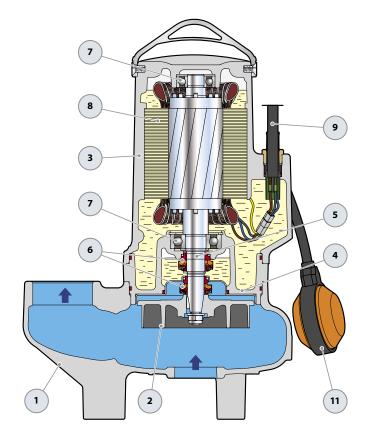
Complete with capacitor and manual reset motor protector

11 FLOAT SWITCH

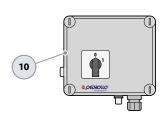
(only for single-phase versions)

OPTIONAL – Supporting Base



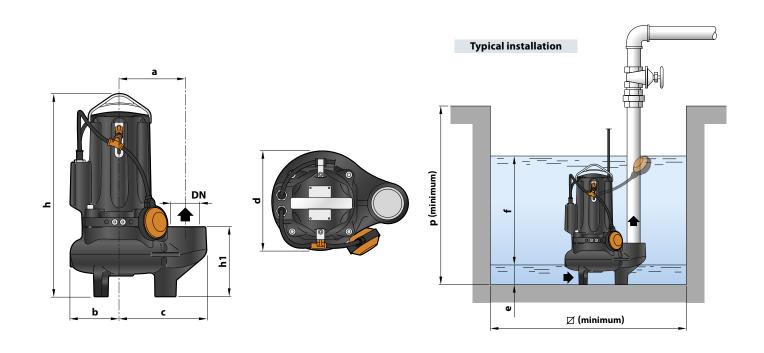


Standard features



Control box (only for single-phase versions)





Me	ODEL	PORT	Passage of solids mm	DIMENSIONS mm											ιg
Single-phase	Three-phase	DN		a	b	С	h	h1	d	e	f	р	Ø	1~	3~
VXCm 15/50	VXC 15/50						407							42.0	40.5
VXCm 20/50	VXC 20/50	21/2"	8.50	163	110	212	487	167	242	75				43.0	42.0
VXCm 30/50	VXC 30/50	272	Ø 50	162	119	212	513 487	167	242		variable	800		48.0	43.0
_	VXC 40/50	1					513						000	-	48.0
VXCm 15/65	VXC 15/65						521				/arić	800	800	44.0	42.5
VXCm 20/65	VXC 20/65	3"	0.5	100	120	240	521	201		0.5				45.0	44.0
VXCm 30/65	VXC 30/65		Ø 65	180	120	240	547 521	201	246	85				50.0	45.0
_	VXC 40/65						547							_	50.0

ABSORPTION AND CAPACITORS

MODEL	VOLT	ΓAGE			
Single-phase	230 V	240 V			
VXCm 15/50	8.5 A	8.1 A			
VXCm 20/50	9.0 A	8.6 A			
VXCm 30/50	12.0 A	11.5 A			
VXCm 15/65	8.5 A	8.1 A			
VXCm 20/65	9.0 A	8.6 A			
VXCm 30/65	12.0 A	11.5 A			

MODEL			
Three-phase	230-240 V	400-415 V	690-720 V
VXC 15/50	5.9 A	3.4 A	2.0 A
VXC 20/50	6.4 A	3.7 A	2.1 A
VXC 30/50	8.7 A	5.0 A	2.9 A
VXC 40/50	10.7 A	6.2 A	3.5 A
VXC 15/65	5.9 A	3.4 A	2.0 A
VXC 20/65	6.4 A	3.7 A	2.1 A
VXC 30/65	8.7 A	5.0 A	2.9 A
VXC 40/65	10.7 A	6.2 A	3.6 A

MODEL	CAPACITANCE CAPACITORS
Single-phase	(230 V o 240 V)
VXCm 15/50 VXCm 15/65	50 μF 450 VL
VXCm 20/50 VXCm 20/65	50 μF 450 VL
VXCm 30/50 VXCm 30/65	60 μF 450 VL



Submersible pumps **DOUBLE-CHANNEL**



Sewage water



Domestic use



Civil use



Industrial use

- * An innovative project by Pedrollo's Research and Development department, has resulted in the new MC, a complete range of extremely robust and reliable electric pumps.
- * Thanks to the enhanced oversizing of the oil-bath electric motor, shaft and bearings, the new MC electric pumps guarantee an unprecedented service life, with high hydraulic performance, low operating costs and easy maintenance. The oil-bath motor also allows continuous operation of the electric pump, even if partially uncovered.
- * They are recommended in all installations for pumping waste water with suspended solid bodies up to 65 mm diameter.
- * The MC series is equipped with a double-channel impeller, ideal for the discharge of large volumes of waste water.



PERFORMANCE RANGE

- Flow rate up to 1600 l/min (96 m³/h)
- Head up to 25 m

APPLICATION LIMITS

- 10 m maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature +40 °C
- Passage of solids:
 - up to **Ø 50 mm** for MC /50
 - up to **Ø 65 mm** for MC /65
- Minimum immersion depth for continuous service:
 - 320 mm for MC /50
 - **360 mm** for MC /65

CONSTRUCTION AND SAFETY STANDARDS

- 10 m long power cable
- External float switch and control box for single-phase versions

INSTALLATION AND USE

MC 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

• Patent n° IT0001428923

OPTIONS AVAILABLE ON REQUEST

- **QES** control box for three-phase pumps
- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

GUARANTEE

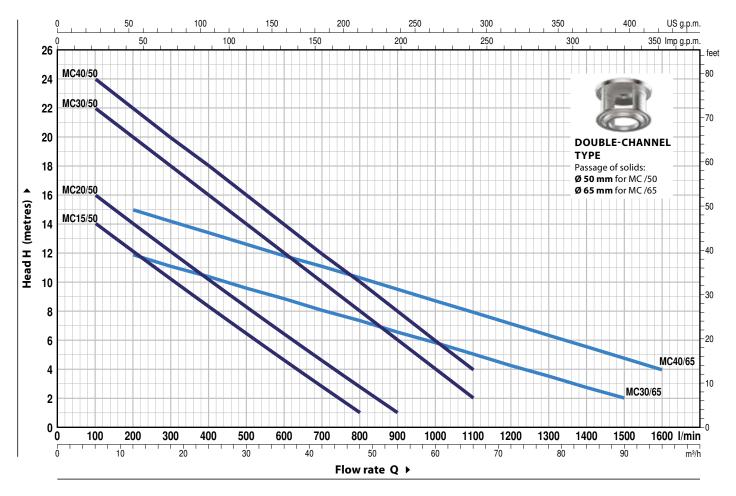
For the following versions, to validate the guarantee, the built-in thermal overload protector must be connected to the control box:

- MC 15-20-30-40/50
- MC 30-40/65





50 Hz n= 2900 min⁻¹



МО	DEL	POWE	R (P2)	m³/h	0	6	12	18	24	30	36	42	48	54	60	66	72	90	96
Single-phase	Three-phase	kW	HP	Q I/min	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1500	1600
MCm 15/50	MC 15/50	1.1	1.5		16	14	12.5	10.5	8.5	6.5	4.5	3	1						
MCm 20/50	MC 20/50	1.5	2		18	16	14	12.5	10.5	8.5	6.5	5	3	1					
MCm 30/50	MC 30/50	2.2	3] . .	24	22	20	18	16	14	12	10	8	6	4	2			
_	MC 40/50	3	4	H metres	25	24	22	20	18	16	14	12	10	8	6	4			
MCm 30/65	MC 30/65	2.2	3		13	_	12	11	10.5	9.7	9	8	7.5	6.5	6	5	4.5	2	
_	MC 40/65	3	4		17	_	15	14	13.5	12.5	12	11	10.5	9.5	8.5	8	7	4.8	4

 $\mathbf{Q} = \mathsf{Flow} \; \mathsf{rate} \quad \mathbf{H} = \mathsf{Total} \; \mathsf{manometric} \; \mathsf{head}$

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

















DOUBLE-CHANNEL

POS. COMPONENT CONSTRUCTION CHARACTERISTICS

- 2 IMPELLER Precision cast stainless steel AISI 304 DOUBLE-CHANNEL type
- **3 MOTOR CASING** Cast iron with an Epoxy Electro Coating treatment
- 4 MOTOR CASING PLATE Cast iron with an Epoxy Electro Coating treatment
- 5 MOTOR SHAFT Stainless steel AISI 431

6 TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER

Seal	Shaft	Position		Materials	
Model	Diameter		Stationary ring	Rotational ring	Elastomer
STA-22	Ø 22 mm	Motor side	Ceramic	Graphite	NBR
STA-20	Ø 20 mm	Pump side	Silicon carbide	Silicon carbide	NBR

7 BEARINGS 6305 CM D 6 / 6204 ZZ - C3

8 ELECTRIC MOTOR

MCm 15-20-30: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding

MC: three-phase 400 V - 50 Hz. with thermal overload protector incorporated into the winding to be connected to the control box (supplied on demand)

- Insulation: class F
- Protection: IP X8

o POWER CABLE

10 metres long "H07 RN-F" cable

10 CONTROL BOX for MCm 15-20-30

(only for single-phase versions)

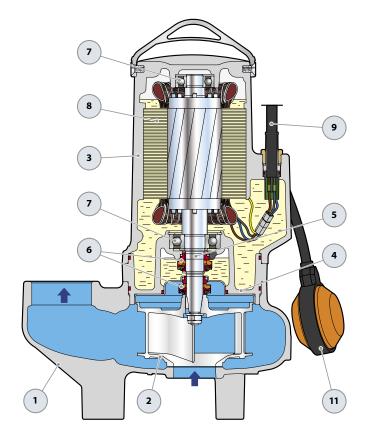
Complete with capacitor and manual reset motor protector

11 FLOAT SWITCH

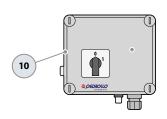
(only for single-phase versions)

OPTIONAL – Supporting Base





Standard Equipment



Control Box (only for single-phase versions)



VOLTAGE 400–415 V

4.5 A

5.0 A

6.5 A

690-720 V

2.6 A

2.9 A

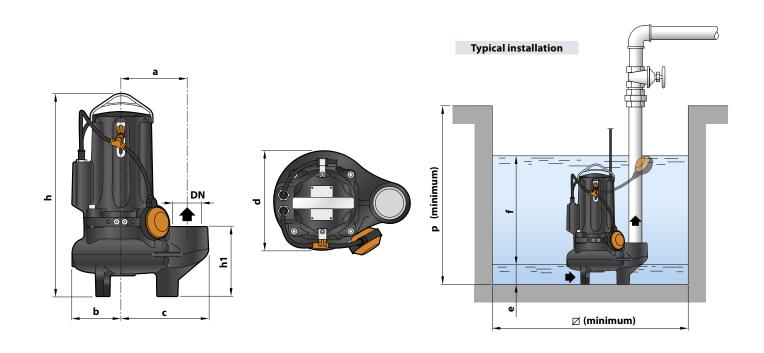
3.7 A

230-240 V

7.8 A

8.7 A

11.2 A



M	ODEL	PORT	Passage				DIN	IENSIO	NS mm	1				k	ιg
Single-phase	Three-phase	DN	of solids mm	a	b	С	h	h1	d	e	f	р	Ø	1~	3~
MCm 15/50	MC 15/50						407							42.0	40.5
MCm 20/50	MC 20/50	21/11	a.50	162	110	212	487	167	242	7.5				43.0	42.0
MCm 30/50	MC 30/50	2½"	Ø 50	162	119	212	513 487	167	242	75	ple		000	48.0	43.0
-	MC 40/50						513				variable	800	800	-	48.0
MCm 30/65	MC 30/65			100	120	240	547 521	201	246	0.5				50.0	45.0
_	MC 40/65	3"	Ø 65	180	120	240	547	201	246	85				_	50.0

MODEL

Three-phase

MC 15/50

MC 20/50

MC 30/50

ABSORPTION AND CAPACITORS

MCm 20/50

MCm 30/50

MCm 30/65

MODEL	VOLTAGE							
Single-phase	230 V	240 V						
MCm 15/50	10.5 A	10.1 A						
MCm 20/50	14.0 A	13.4 A						
MCm 30/50	18.0 A	17.3 A						
MCm 30/65	14.0 A	13.4 A						

50 μF 450 VL

60 μF 450 VL

MCm 30/50	18.0 A	17.3 A	MC 40/50	12.1 A	7 A	4.1 A
			— MC 30/65	11.2 A	6.5 A	3.7 A
MCm 30/65	14.0 A	13.4 A	MC 40/65	13.0 A	7.5 A	4.3 A
		'	_			
MODEL	CAPACITANC	E CAPACITORS	_			
Single-phase	(230 V	o 240 V)				
MCm 15/50	50 μF	450 VL				





Sewage water



Domestic use



Civil use



Industrial use

- * An innovative project by Pedrollo's Research and Development department, has resulted in the new VXC-F, a complete range of extremely robust and reliable reliable electric pumps.
- Thanks to the enhanced oversizing of the oil-bath electric motor, shaft and bearings, the new VXC-F electric pumps guarantee an unprecedented service life, with high hydraulic performance, low operating costs and easy maintenance. The oil-bath motor also allows continuous operation of the electric pump, even if completely uncovered.
- * They are recommended in all installations for pumping waste water with suspended solid bodies up to 65 mm diameter.
- The VXC-F series is equipped with an extremely reliable and robust VORTEX impeller with low risk of clogging.



PERFORMANCE RANGE

- Flow rate up to **1250 l/min** (75 m^3/h)
- Head up to 20 m

APPLICATION LIMITS

- 10 m maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature +40 °C
- Passage of solids:
 - up to **Ø 50 mm** for VXC /50-F
 - up to Ø 65 mm for VXC /65-F

CONSTRUCTION AND SAFETY STANDARDS

- **10 m** long power cable
- External float switch and control box for single-phase versions

NSTALLATION AND USE

The VXC-F series of pumps, manufactured from heavy gauge robust cast iron, resistant to abrasion and long lasting, are fitted with a VOR-TEX impeller and therefore suitable for drainage of refluent water, water mixed with mud, liquids containing air or gas, and putrid muds. They are recommended for fixed installations, when placed in suitable wells, in sewers, tunnels, wells, underground car parks, etc.

PATENTS - TRADE MARKS - MODELS

Patent n° IT0001428923

OPTIONS AVAILABLE ON REQUEST

- Connection support KIT
- **QES** control box for three-phase pumps
- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

GUARANTEE

➡ For the following versions, to validate the guarantee, the built-in thermal overload protector must be connected to the control box:

- VXC 15-20-30-40/50-F
- VXC 15-20-30-40/65-F











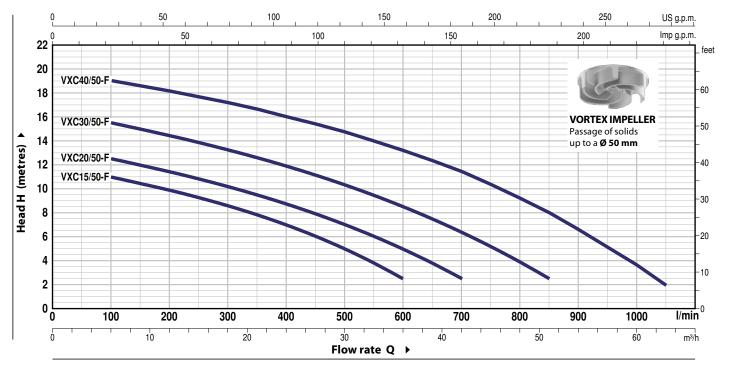


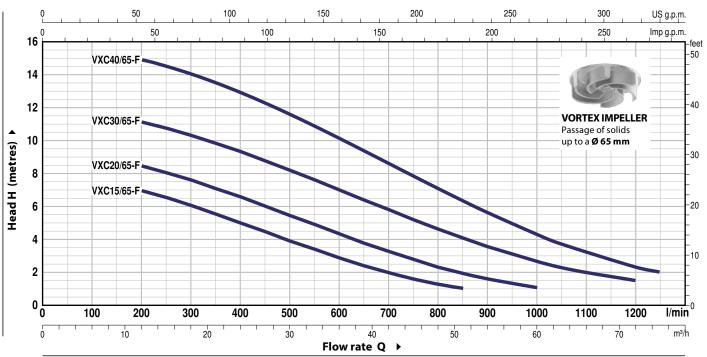






50 Hz n= 2900 min⁻¹





МС	DDEL	POWI	R (P2)	m³/h	0	6	12	18	24	30	36	42	51	60	63	72	75
Single-phase	Three-phase	kW	HP	Q //min	0	100	200	300	400	500	600	700	850	1000	1050	1200	1250
VXCm 15/50-F	VXC 15/50-F	1.1	1.5		12.0	11.0	9.9	8.6	7.0	5.0	2.5						
VXCm 20/50-F	VXC 20/50-F	1.5	2		13.5	12.5	11.4	10.2	8.7	7.0	5.0	2.5					
VXCm 30/50-F	VXC 30/50-F	2.2	3		16.5	15.5	14.4	13.2	11.9	10.3	8.5	6.4	2.5				
_	VXC 40/50-F	3	4]	20.0	19.0	18.1	17.1	16.0	14.7	13.2	11.4	8.0	3.6	2.0		
VXCm 15/65-F	VXC 15/65-F	1.1	1.5	H metri	8.0	_	7.0	6.0	5.0	3.9	2.8	2.0	1.0				
VXCm 20/65-F	VXC 20/65-F	1.5	2		9.5	_	8.5	7.6	6.6	5.4	4.3	3.3	2.0	1.0			
VXCm 30/65-F	VXC 30/65-F	2.2	3		12.0	_	11.1	10.3	9.3	8.2	7.0	5.8	4.1	2.6	2.3	1.5	
_	VXC 40/65-F	3	4		15.5	_	15.0	14.0	13.0	11.6	10.1	8.6	6.3	4.3	3.7	2.3	2.0



POS. COMPONENT **CONSTRUCTION CHARACTERISTICS**

PUMP BODY Cast iron with an Epoxy Electro Coating treatment, with flanged and threaded ports in compliance with

ISO 228/1

IMPELLER VORTEX type in cast iron with an Epoxy Electro Coating treatment

MOTOR CASING Cast iron with an Epoxy Electro Coating treatment 3

MOTOR CASING PLATE Cast iron with an Epoxy Electro Coating treatment

MOTOR SHAFT Stainless steel AISI 431 5

TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER

Seal	Shaft	Position		Materials	
Model	Diameter		Stationary ring	Rotational ring	Elastomer
STA-22	Ø 22 mm	Motor side	Ceramic	Graphite	NBR
STA-20	Ø 20 mm	Pump side	Silicon carbide	Silicon carbide	NBR

7 **BEARINGS** 6305 CM D 6 / 6204 ZZ - C3

ELECTRIC MOTOR 8

VXCm 15-20-30-F: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding

VXC-F: three-phase 400 V - 50 Hz with thermal overload protector incorporated into the winding to be connected to the control box (supplied on demand)

- Insulation: class F
- Protection: IP X8

POWER CABLE

10 metres long "H07 RN-F" cable

CONTROL BOX for VXCm 15-20-30-F

(only for single-phase versions)

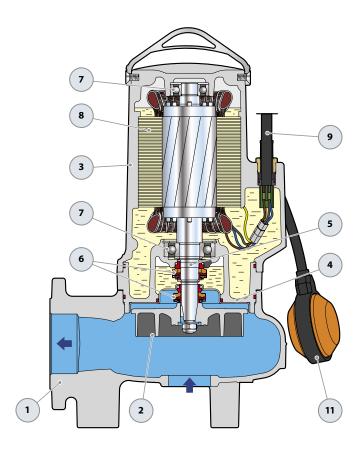
Complete with capacitor and manual reset motor protector

FLOAT SWITCH

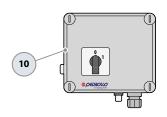
(only for single-phase versions)

OPTIONAL – Supporting Base





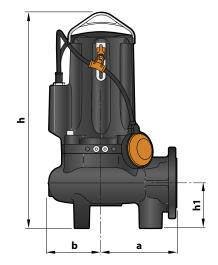
Standard Equipment

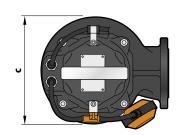


Control Box (only for single-phase versions)

** **PEDROUG**the spring of life

DIMENSIONS AND WEIGHT -





MC	DDEL	Passage		D	IMENSIONS m	m		k	g
Single-phase	Three-phase	of solids mm	a	b	С	h	h1	1~	3~
VXCm 15/50-F	VXC 15/50-F				242	487	102	43.5	42.0
VXCm 20/50-F	VXC 20/50-F	8.50	170	110				44.5	43.5
VXCm 30/50-F	VXC 30/50-F	Ø 50	170	119	242	513 487	102	49.5	44.5
_	VXC 40/50-F					513		-	49.5
VXCm 15/65-F	VXC 15/65-F					521		46.0	44.5
VXCm 20/65-F	VXC 20/65-F	0.05	210	120	246	521	122	47.0	46.0
VXCm 30/65-F	VXC 30/65-F	Ø 65	210	120	246	547 521	123	52.0	47.0
_	VXC 40/65-F	1				547		_	52.0

ABSORPTION AND CAPACITORS -

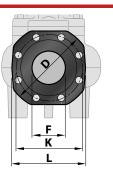
MODEL	VOLT	AGE
Single-phase	230 V	240 V
VXCm 15/50-F	8.5 A	8.1 A
VXCm 20/50-F	9.0 A	8.6 A
VXCm 30/50-F	12.0 A	11.5 A
VXCm 15/65-F	8.5 A	8.1 A
VXCm 20/65-F	9.0 A	8.6 A
VXCm 30/65-F	12.0 A	11.5 A

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MODEL		VOLTAGE	
Three-phase	230-240 V	400-415 V	690-720 V
VXC 15/50-F	5.9 A	3.4 A	2.0 A
VXC 20/50-F	6.4 A	3.7 A	2.1 A
VXC 30/50-F	8.7 A	5.0 A	2.9 A
VXC 40/50-F	10.7 A	6.2 A	3.5 A
VXC 15/65-F	5.9 A	3.4 A	2.0 A
VXC 20/65-F	6.4 A	3.7 A	2.1 A
VXC 30/65-F	8.7 A	5.0 A	2.9 A
VXC 40/65-F	10.7 A	6.2 A	3.6 A

PORT FLANGE -

MODEL	FLANGE	F	K	D	L	но	LES
			mm	mm	mm	N°	Ø (mm)
VXC /50-F	DN65 (PN10)	2½"	145	185	160	4	18
VXC /65-F	DN80 (PN10)	3"	160	200	180	8	18







Sewage water



Domestic use



Civil use



Industrial use

- * An innovative project by Pedrollo's Research and Development department, has resulted in the new MC-F, a complete range of extremely robust and reliable electric pumps.
- * Thanks to the enhanced oversizing of the oil-bath electric motor, shaft and bearings, the new MC-F electric pumps guarantee an unprecedented service life, with high hydraulic performance, low operating costs and easy maintenance. The oil-bath motor also allows continuous operation of the electric pump, even if partially uncovered.
- * They are recommended in all installations for pumping waste water with suspended solid bodies up to 65 mm diameter.
- * The MC-F series is equipped with a double-channel impeller, ideal for the discharge of large volumes of waste water.



PERFORMANCE RANGE

- Flow rate up to **1600 l/min** (96 m³/h)
- Head up to 25 m

APPLICATION LIMITS

- **10 m** maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature +40 °C
- Passage of solids:
 - up to Ø 50 mm for MC /50-F
 - up to Ø 65 mm for MC /65-F
- Minimum immersion depth for continuous service:
 - **320 mm** for MC /50-F
 - 360 mm for MC /65-F

CONSTRUCTION AND SAFETY STANDARDS

- 10 m long power cable
- External float switch and control box for single-phase versions

INSTALLATION AND USE

MC-F 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

Patent n° IT0001428923

OPTIONS AVAILABLE ON REQUEST

- **QES** control box for three-phase pumps
- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

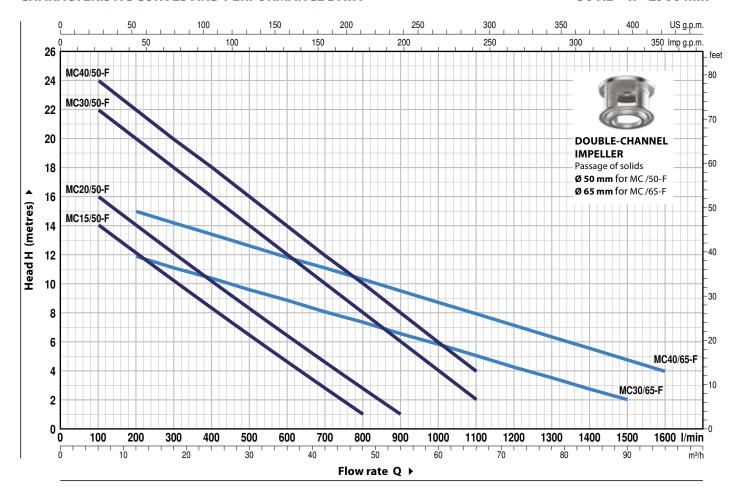
GUARANTEE

➡ For the following versions, to validate the guarantee, the built-in thermal overload guarantee, the built-in thermal overload control box:

- MC 15-20-30-40/50-F
- MC 30-40/65-F



50 Hz n= 2900 min⁻¹



MC	DEL	POWE	R (P2)	m³/h	0	6	12	18	24	30	36	42	48	54	60	66	72	90	96
Single-phase	Three-phase	kW	HP	Q I/min	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1500	1600
MCm 15/50-F	MC 15/50-F	1.1	1.5		16	14	12.5	10.5	8.5	6.5	4.5	3	1						
MCm 20/50-F	MC 20/50-F	1.5	2		18	16	14	12.5	10.5	8.5	6.5	5	3	1					
MCm 30/50-F	MC 30/50-F	2.2	3]	24	22	20	18	16	14	12	10	8	6	4	2			
-	MC 40/50-F	3	4	H metres	25	24	22	20	18	16	14	12	10	8	6	4			
MCm 30/65-F	MC 30/65-F	2.2	3		13	-	12	11	10.5	9.7	9	8	7.5	6.5	6	5	4.5	2	
-	MC 40/65-F	3	4		17	-	15	14	13.5	12.5	12	11	10.5	9.5	8.5	8	7	4.8	4

 $\mathbf{Q} = \text{Flow rate } \mathbf{H} = \text{Total manometric head}$

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



















DOUBLE-CHANNEL

POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	PUMP BODY	Cast iron with an Epoxy Electro Coating treatment, with flanged and threaded ports in compliance with

ISO 228/1

2 IMPELLER Precision cast stainless steel AISI 304 DOUBLE-CHANNEL type

3 MOTOR CASING Cast iron with an Epoxy Electro Coating treatment

4 MOTOR CASING PLATE Cast iron with an Epoxy Electro Coating treatment

5 MOTOR SHAFT Stainless steel AISI 431

6 TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER

Seal	Shaft	Position		Materials	
Model	Diameter		Stationary ring	Rotational ring	Elastomer
STA-22	Ø 22 mm	Motor side	Ceramic	Graphite	NBR
STA-20	Ø 20 mm	Pump side	Silicon carbide	Silicon carbide	NBR

7 BEARINGS 6305 CM D 6 / 6204 ZZ - C3

8 ELECTRIC MOTOR

MCm 15-20-30-F: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding

MC-F: three-phase 400 V - 50 Hz. with thermal overload protector incorporated into the winding to be connected to the control box (supplied on demand)

- Insulation: class F
- Protection: IP X8

9 POWER CABLE

10 metres long "H07 RN-F" cable

10 CONTROL BOX for MCm 15-20-30-F

(only for single-phase versions)

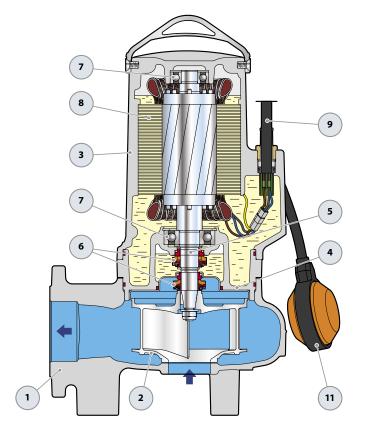
Complete with capacitor and manual reset motor protector

11 FLOAT SWITCH

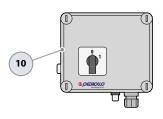
(only for single-phase versions)

OPTIONAL – Supporting Base





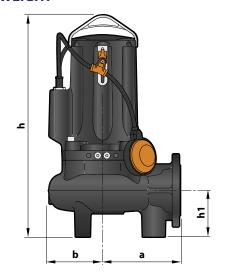
Standard Equipment

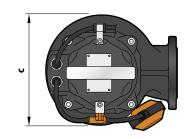


Control Box (only for single-phase versions)

PEDROUOthe spring of life

DIMENSIONS AND WEIGHT





M	ODEL	Passage		DIMENSIONS mm						
Single-phase	Three-phase	of solids mm	a	b	с	h	h1	1~	3~	
MCm 15/50-F	MC 15/50-F							43.5	42.0	
MCm 20/50-F	MC 20/50-F	4.50	170	119	242	487	102	44.5	43.5	
MCm 30/50-F	MC 30/50-F	Ø 50		119	242	513 487 513	102	49.5	44.5	
_	MC 40/50-F							_	49.5	
MCm 30/65-F	MC 30/65-F	~	240	120	246	547 521	422	52.0	47.0	
_	MC 40/65-F	Ø 65	210	120	246	547	123	_	52.0	

ABSORPTION AND CAPACITORS -

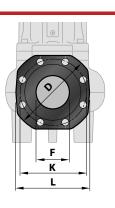
MODEL	VOL.	TAGE
Single-phase	230 V	240 V
MCm 15/50-F	10.5 A	10.1 A
MCm 20/50-F	14.0 A	13.4 A
MCm 30/50-F	18.0 A	17.3 A
MCm 30/65-F	14.0 A	13.4 A

MODEL		VOLTAGE									
Three-phase	230-240 V	400-415 V	690-720 V								
MC 15/50-F	7.8 A	4.5 A	2.6 A								
MC 20/50-F	8.7 A	5.0 A	2.9 A								
MC 30/50-F	11.2 A	6.5 A	3.7 A								
MC 40/50-F	12.1 A	7 A	4.1 A								
MC 30/65-F	11.2 A	6.5 A	3.7 A								
MC 40/65-F	13.0 A	7.5 A	4.3 A								

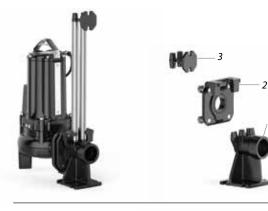
MODEL	CAPACITANCE CAPACITORS
Single-phase	(230 V or 240 V)
MCm 15/50-F	50 μF 450 VL
MCm 20/50-F	50 μF 450 VL
MCm 30/50-F MCm 30/65-F	60 μF 450 VL

PORT FLANGE -

MODEL	FLANGE	F	K	D	L	НО	LES
			mm	mm	mm	N°	Ø (mm)
MC /50-F	DN65 (PN10)	2½"	145	185	160	4	18
MC /65-F	DN80 (PN10)	3"	160	200	180	8	18



SEWAGE LIFTING SYSTEM VXC-F – MC-F



HORIZONTAL DELIVERY VERSION WITH 34" GUIDE TUBES

For VXC /50-F, MC /50-F	Cod. ASSVXCF051	DN 2"
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Kit consisting of:

- 1. footing connection
- 2. slide guide with screws and seals
- 3. support for the guide tubes

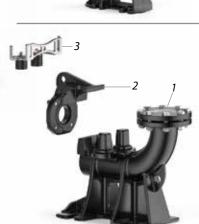


VERTICAL DELIVERY VERSION WITH 34" GUIDE TUBES

For VXC /50-F, MC /50-F	Cod. ASSVXCF051V	DN 2 ½"
For VXC /65-F, MC /65-F	Cod. ASSVXCF071V	DN 3"

Kit consisting of:

- 1. footing connection completo di controflangia
- 2. slide guide with screws and seals
- 3. support for the guide tubes



VERTICAL DELIVERY VERSION WITH 2" GUIDE TUBES

For VXC /50-F, MC /50-F	Cod. ASSVXCF0704V	DN 3 "
For VXC /65-F, MC /65-F	Cod. ASSVXCF0705V	DN 3

Kit consisting of:

- 1. footing connection completo di controflangia
- 2. slide guide with screws and seals
- 3. support for the guide tubes

ACCESSORIES CAN BE ORDERED

SLIDE GUIDE (Also to be ordered separately)

For VXC /50-F, MC /50-F with guide tubes Ø ¾"	Cod. ASSFL0017
For VXC /65-F, MC /65-F with guide tubes Ø 3/4"	Cod. ASSFL0018
For VXC /50-F, MC /50-F with guide tubes Ø 2"	Cod. ASSFL071
For VXC /65-F, MC /65-F with guide tubes Ø 2"	Cod. ASSFL072

Complete with screws and seals

INTERMEDIATE SUPPORT (To be ordered separately)

For guide tubes Ø ¾"	Cod. 859SV340INTFA
For guide tubes Ø 2"	Cod. 859SV349INTFA

In order to ensure stability, insert the intermediate support:

- every 2 metres with 3/4" guide tubes (compulsory)
- every 3 metres with 2" guide tubes (recommended)

GUIDE TUBES (AISI 304 stainless steel)

Guide tube Ø ¾"	Cod. 54SARTG005
Guide tube Ø 2"	Cod. 54SARTG006

Maximum length of the tube plank: 6 metres

INTERMEDIATE SUPPORT

For guide tubes Ø ¾"

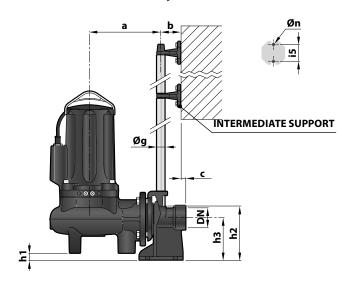


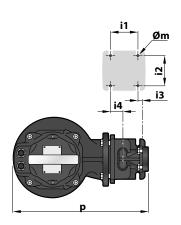
For guide tubes Ø 2"





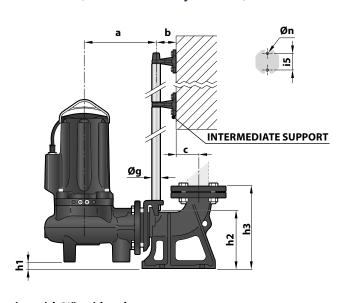
DIMENSIONS (Horizontal delivery version)

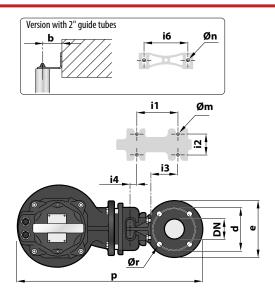




MODEL	Passage of solids	PORT	DIMENSIONS mm														
	mm	DN	a	b	c	р	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn
VXC /50-F	Ø 50	211	216	<i>C</i> 1	17	412	20	165	120	0.5	0.4	16	40	F0	3/11	12	11
MC /50-F	Ø 50	2"	216	61	17	412	28	165	130	85	94	16	40	50	3/4"	12	11

DIMENSIONS (Vertical delivery version)





Version with ¾" guide tubes

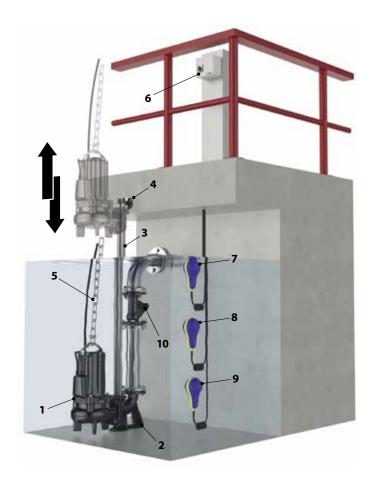
MODEL	Passage of solids	PORT	DIMENSIONS mm																	
	mm	DN	a	b	c	d	e	р	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn	Ør
VXC /50-F	Ø 50	2½"	212	C1	52	125	165	F26	25.5	164	215	120	72	62	_	F0	3/4"	14	11	10
MC /50-F	Ø 50	(PN10)	213	61	52	125	165	526	25.5	164	215	120	/2	62	3	50	7/4	14	11	18
VXC /65-F	0.65	3"	252	C1	60	150	100	500	46	216	270	120	112	0.4	15		2/11	14	11	10
MC /65-F	Ø 65	(PN6)	253	61	69	150	190	598	46	216	279	130	112	84	15	50	3/4"	14	11	18

Version with 2" guide tubes

MODEL	Passage of solids	PORT	DIMENSIONS mm																		
	mm	DN	a	b	c	d	e	р	h1	h2	h3	i1	i2	i3	i4	i5	i6	Øg	Øm	Øn	Ør
VXC /50-F	Ø 50	3" (PN10)	320	85	95	160	200	718	105	265	392	250	150	35	-130	-	187	2"	22	13.5	18
MC /50-F																					
VXC /65-F	Ø 65	3"	250	85	95	160	200	760	84	256	392	250	150	35	-130	_	187	2"	22	13.5	18
MC /65-F		(PN10)	359																		



STANDARD INSTALLATION-



- 1. Pump
- 2. Footing connection
- 3. Guide tubes
- 4. Support for the guide tubes
- 5. Lifting chain
- 6. Control box
- 7. Alarm float switch
- 8. Starting float switch
- 9. Stop float switch
- 10. Non-return valve





 $The features \ and \ specifications \ here in \ stated \ are in \ no \ way \ binding \ for \ the \ manufacturer.$ Pedrollo S.p.A. is free to modify the product at any time without previous notice.