

ENVIRONMENTAL UK









Sewage water



Domestic use



Civil use



Industrial use



- * 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









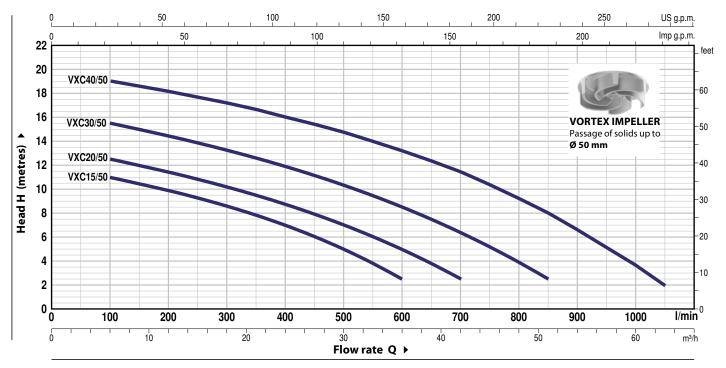


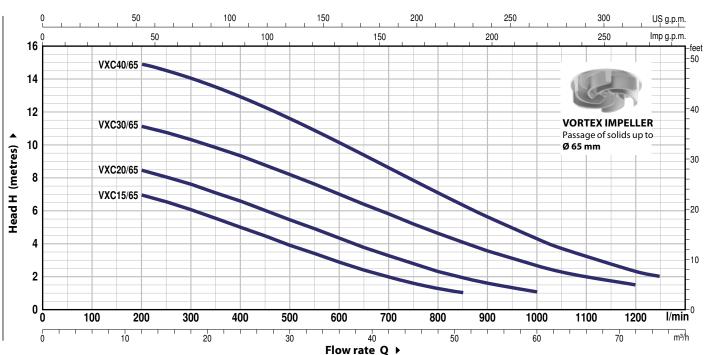






50 Hz n= 2900 min⁻¹





MO	DEL	POWE	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	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)

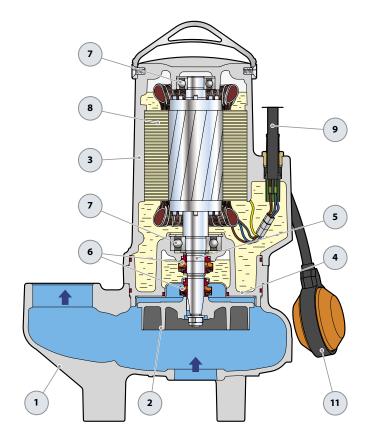
 $Complete\ with\ capacitor\ and\ manual\ reset\ motor\ protector$

11 FLOAT SWITCH

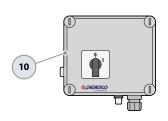
(only for single-phase versions)

OPTIONAL – Supporting Base

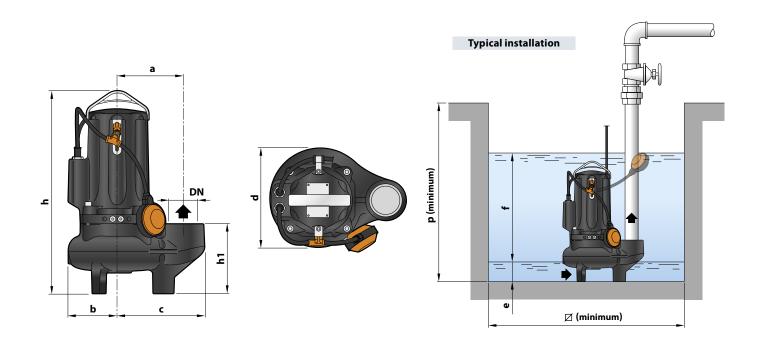




Standard features



Control box (only for single-phase versions)



Me	ODEL	PORT	Passage				DIM	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~
VXCm 15/50	VXC 15/50		Ì				407							42.0	40.5
VXCm 20/50	VXC 20/50	21/2"	0.50	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	/5	4.			48.0	43.0
_	VXC 40/50						513				variable	000	000	-	48.0
VXCm 15/65	VXC 15/65						521				/ariċ	800	800	44.0	42.5
VXCm 20/65	VXC 20/65	3"	0.05	100	120	240	521	201	246	0.5				45.0	44.0
VXCm 30/65	VXC 30/65	3"	Ø 65	180	120	240	547 521	201	246	85				50.0	45.0
_	VXC 40/65	1					547	1						_	50.0

ABSORPTION AND CAPACITORS -

MODEL	VOL	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
/XCm 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		VOLTAGE	
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







Domestic use



Industrial use

- * An innovative project by Our Research and Development department, has resulted in the new MC, a complete range of extremely robust and
- * 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)

reliable electric pumps.

• 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

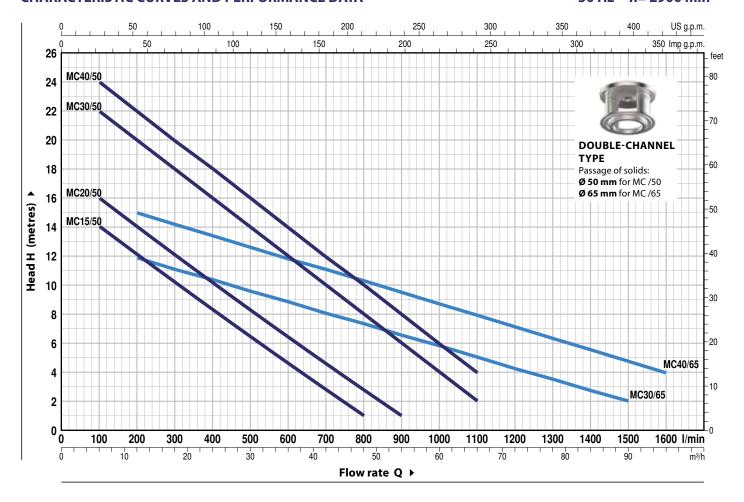
GUARANTEE

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	ER (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

1	PUMP BODY	Cast iron with an Epoxy Electro Coating treatment, with threaded ports in compliance with ISO 228/1
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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)

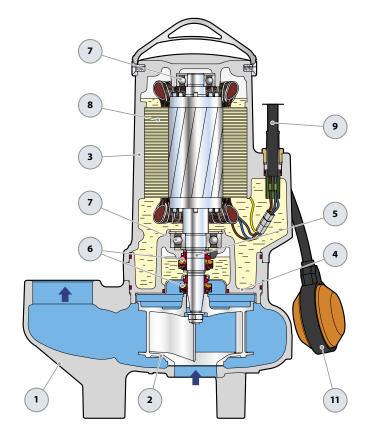
Complete with capacitor and manual reset motor protector

11 FLOAT SWITCH

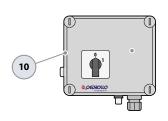
(only for single-phase versions)

OPTIONAL – Supporting Base

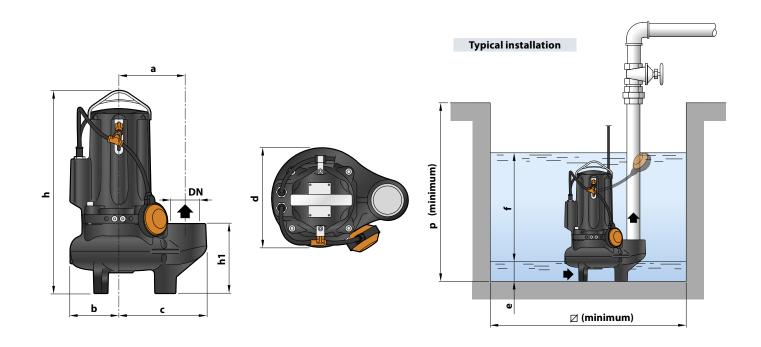




Standard Equipment



Control Box (only for single-phase versions)



M	ODEL	PORT	Passage				DIM	IENSIO	NS mm	1				k	g
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						487							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	pple	000	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	204	246					50.0	45.0
_	MC 40/65	3"	Ø 65	180	120	240	547	201	246	85				_	50.0

MODEL

ABSORPTION AND CAPACITORS -

MODEL	VOL	ΓAGE
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

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

VOLTAGE

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





Sewage water



Domestic use



Civil use



Industrial use

- An innovative project by Our 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 quarantee 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









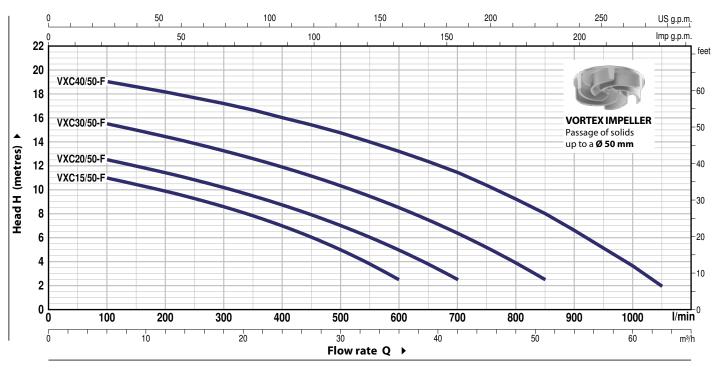


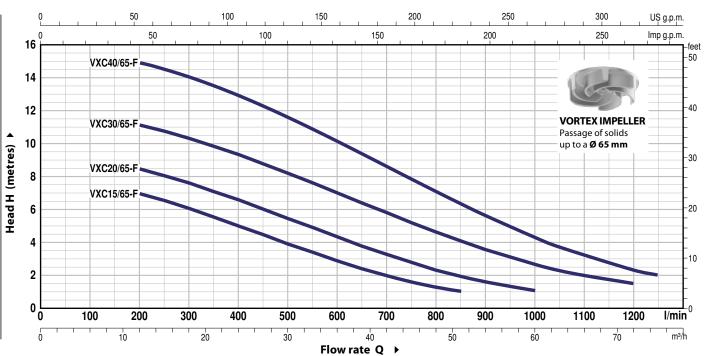






50 Hz n= 2900 min⁻¹





MODEL		POWER (P2)		m³/h	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-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	1	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 flanged and threaded ports in compliance with

ISO 228/1

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

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

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

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

9 POWER CABLE

10 metres long "H07 RN-F" cable

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

(only for single-phase versions)

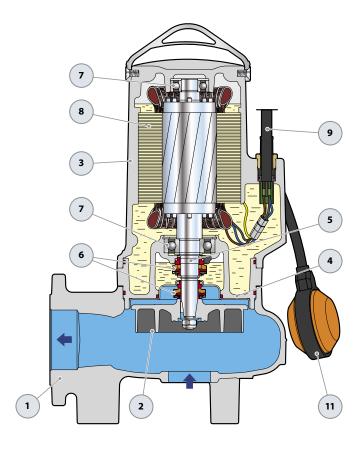
Complete with capacitor and manual reset motor protector

11 FLOAT SWITCH

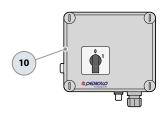
(only for single-phase versions)

OPTIONAL – Supporting Base



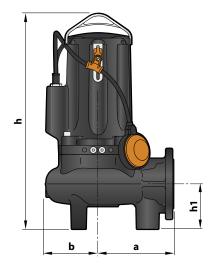


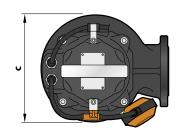
Standard Equipment



Control Box (only for single-phase versions)

DIMENSIONS AND WEIGHT —





MC	DDEL	Passage			kg					
Single-phase Three-pha		of solids mm	a	b	С	h	h1	1~	3~	
VXCm 15/50-F	VXC 15/50-F			407			407		43.5	42.0
VXCm 20/50-F	VXC 20/50-F	Ø 50	170	110	242	487	102	44.5	43.5	
VXCm 30/50-F	VXC 30/50-F	W 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		210	120	246		122	47.0	46.0	
VXCm 30/65-F	VXC 30/65-F	Ø 65	210	120	246		123	52.0	47.0	
_	VXC 40/65-F					547		_	52.0	

ABSORPTION AND CAPACITORS —

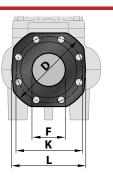
MODEL	VOL	ΓAGE
Single-phase	230 V	240 V
VXCm 15/50-F	8.5 A	8.1 A
/XCm 20/50-F	9.0 A	8.6 A
/XCm 30/50-F	12.0 A	11.5 A
/XCm 15/65-F	8.5 A	8.1 A
/XCm 20/65-F	9.0 A	8.6 A
VXCm 30/65-F	12.0 A	11.5 A

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

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	HOLES	
			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 Our 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

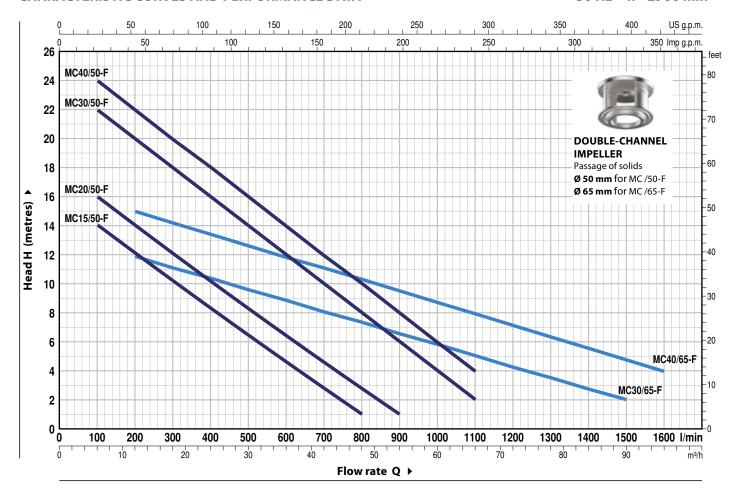
- **QES** control box for three-phase pumps
- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

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



MO	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	
		160 220/1	

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)

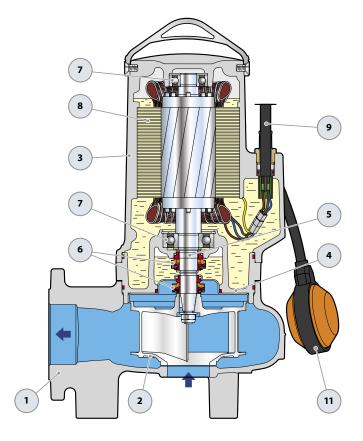
Complete with capacitor and manual reset motor protector

11 FLOAT SWITCH

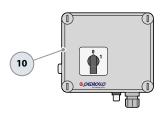
(only for single-phase versions)

OPTIONAL – Supporting Base



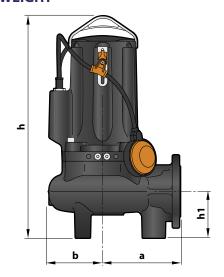


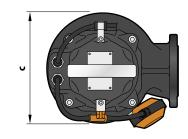
Standard Equipment



Control Box (only for single-phase versions)

DIMENSIONS AND WEIGHT





MODEL		Passage		kg					
Single-phase	Three-phase	of solids mm	a	b	с	h	h1	1~	3~
MCm 15/50-F	MC 15/50-F	Ø 50		440				43.5	42.0
MCm 20/50-F	MC 20/50-F				242	487	103	44.5	43.5
MCm 30/50-F	MC 30/50-F		Ø 50	170	119	242	513 487	102	49.5
-	MC 40/50-F					513		-	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		246	547	123	_	52.0

ABSORPTION AND CAPACITORS -

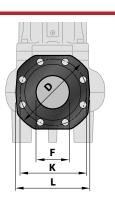
MODEL	VOL	TAGE
Single-phase	230 V	240 V
MCm 15/50-F	10.5 A	10.1 A
MCm 20/50-F	14.0 A	13.4 A
MCm 30/50-F	18.0 A	17.3 A
MCm 30/65-F	14.0 A	13.4 A

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								

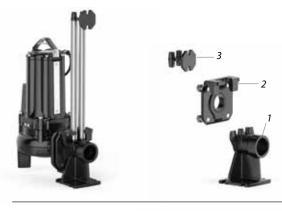
MODEL	CAPACITANCE CAPACITORS
Single-phase	(230 V or 240 V)
MCm 15/50-F	50 μF 450 VL
MCm 20/50-F	50 μF 450 VL
MCm 30/50-F MCm 30/65-F	60 μF 450 VL

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

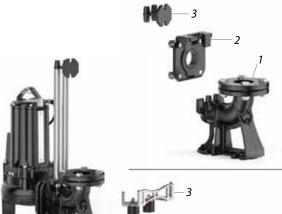


HORIZONTAL DELIVERY VERSION WITH 34" GUIDE TUBES

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

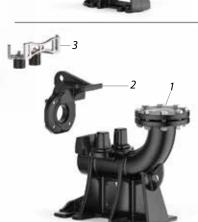


VERTICAL DELIVERY VERSION WITH 34" GUIDE TUBES

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	DIN 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 3⁄4"	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

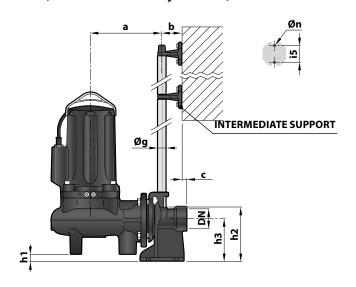
For guide tubes Ø ¾"

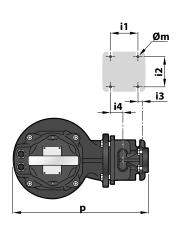


For guide tubes Ø 2'



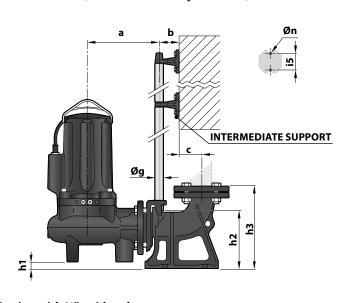
DIMENSIONS (Horizontal delivery version) –

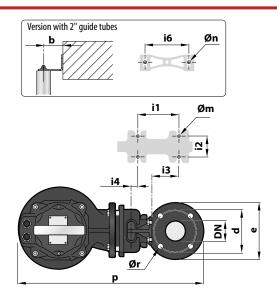




MODEL	Passage of solids	PORT							DIME	NSION	S mm						
	mm	DN	a	b	c	р	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn
VXC /50-F	Ø 50	2"	216	61	17	412	28	165	120	85	04	16	40	50	3/4"	12	11
MC /50-F	טכש		216	61	17	412	28	165	130	85	94	16	40	50	7/4	12	11

DIMENSIONS (Vertical delivery version)





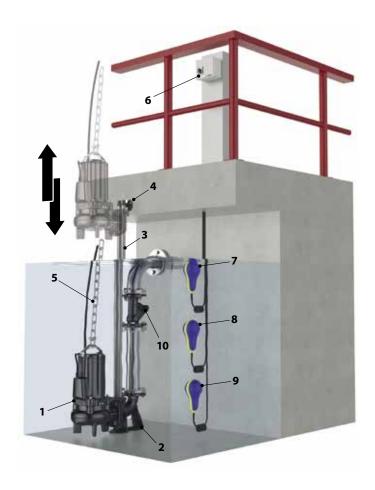
Version with ¾" guide tubes

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	21/2"	212	61	52	125	165	526	25.5	164	215	120	72	62	3	50	3/4"	14	11	18
MC /50-F	Ø 50	(PN10)	213																	
VXC /65-F	0.55	3"	252	61	69	150	190	598	46	216	279	130	112	84	15	50	3/4"	14	11	18
MC /65-F	Ø 65	(PN6)	253																	

Version with 2" guide tubes

MODEL	Passage of solids																				
	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



