Sewage
Civil use
Industrial use

※ Submersible pumps 4 poles (1450 min^{-1})



PERFORMANCE RANGE
- Flow rate up to **900 l/min** (54 m³/h)
- Head up to **7 m**

INSTALLATION AND USE
The **VX4** series is constructed from thick cast iron, offering exceptional robustness, abrasion resistance, and longevity. Equipped with **VORTEX**-type impellers, known for their reliability and minimal clogging risk, these pumps are versatile for handling sewage with suspended solids up to **80 mm** in diameter, as well as wastewater, rainwater, city sewage, and industrial wastewater. They are suitable for a wide range of applications, including sewers, tunnels, excavations, canals, and underground parking facilities.

ELECTRIC MOTOR
※ **The electric motor is safeguarded by a special three-phase thermal protector, situated within the motor, which activates in case of overheating or abnormal power consumption.**

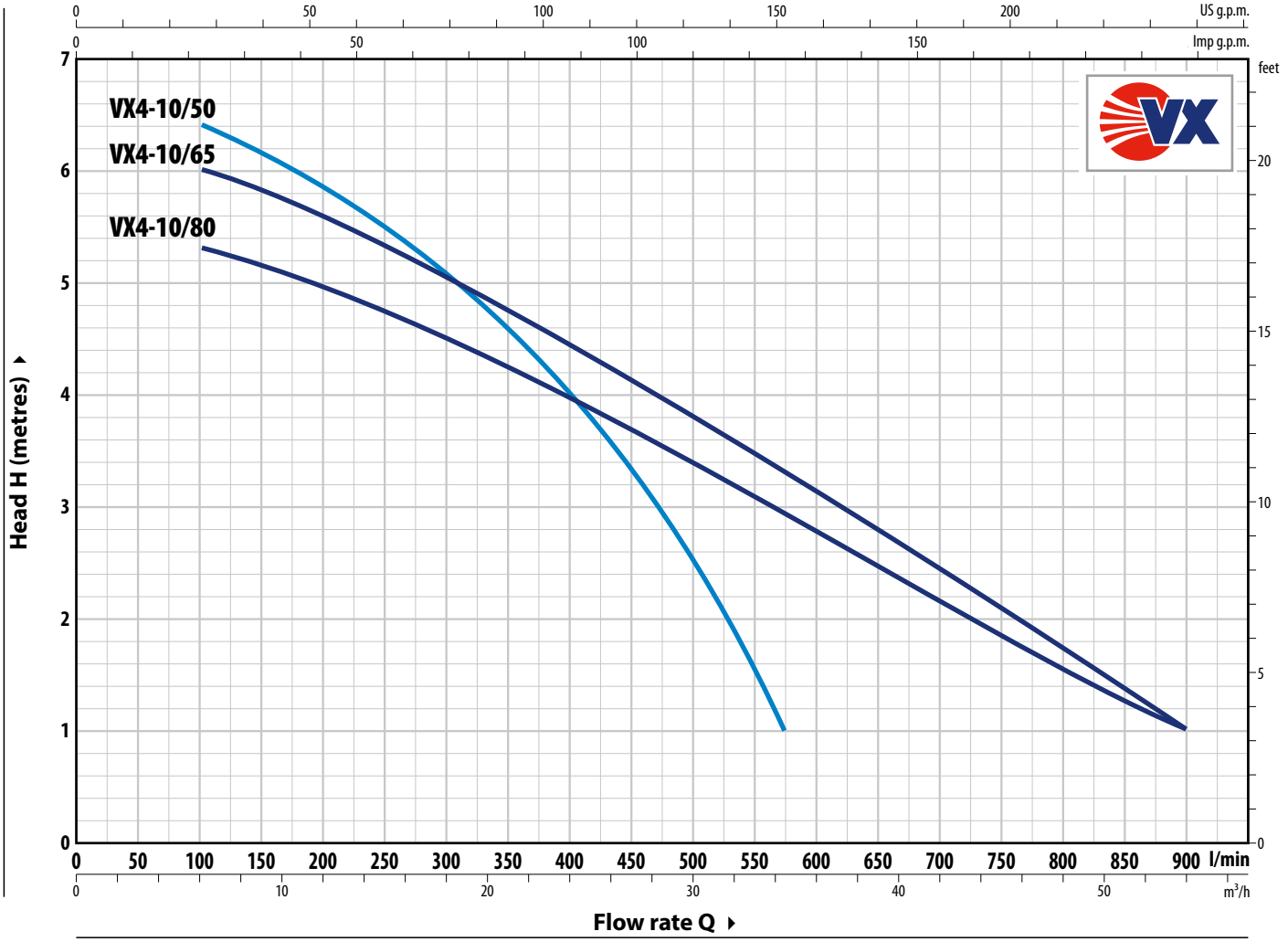
INCLUDES
※ Power cable length **10 m**

APPLICATION LIMITS
- Depth below water level up to **10 m** (with an appropriately sized power cable)
- Liquid temperature up to **+40 °C**
- Suspended solids transfer:
  – up to **Ø 50 mm** for VX4-10/50
  – up to **Ø 65 mm** for VX4-10/65
  – up to **Ø 80 mm** for VX4-10/80
- **Minimum immersion for continuous service: 500 mm**

AVAILABLE UPON REQUEST
※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS
- Registered Community Model No. 003863158-0002

CURVES AND PERFORMANCE DATA – n= 1450 min^{-1} 50 Hz



TYPE	POWER (P2)		Q	m³/h	0	6	12	24	30	34.5	36	45	54
Three-phase	kW	HP		l/min	**0**	**100**	**200**	**400**	**500**	**575**	**600**	**750**	**900**
VX4-10/50	0.75	1			7	6.4	5.8	5	4	2.5	1		
VX4-10/65	0.75	1	**H**	metres	6	6	5.6	5	4.4	3.8	3.3	2	1
VX4-10/80	0.75	1			5.5	5.3	4.9	4.5	3.9	3.4	2.9	1.8	1

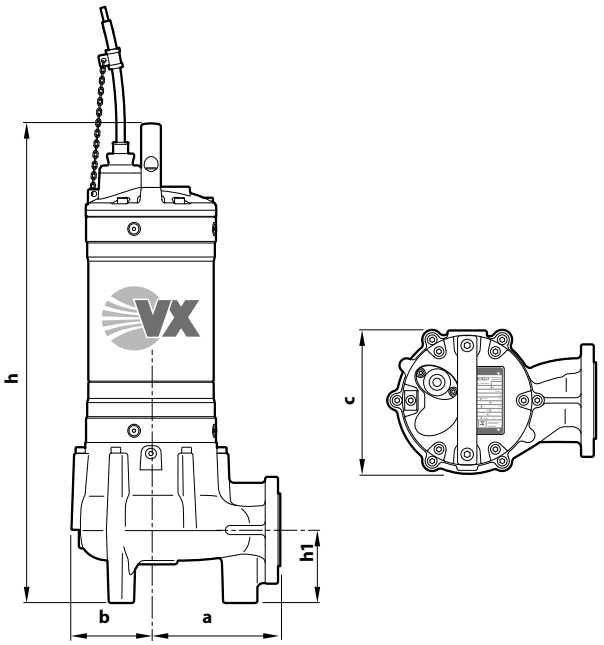
Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

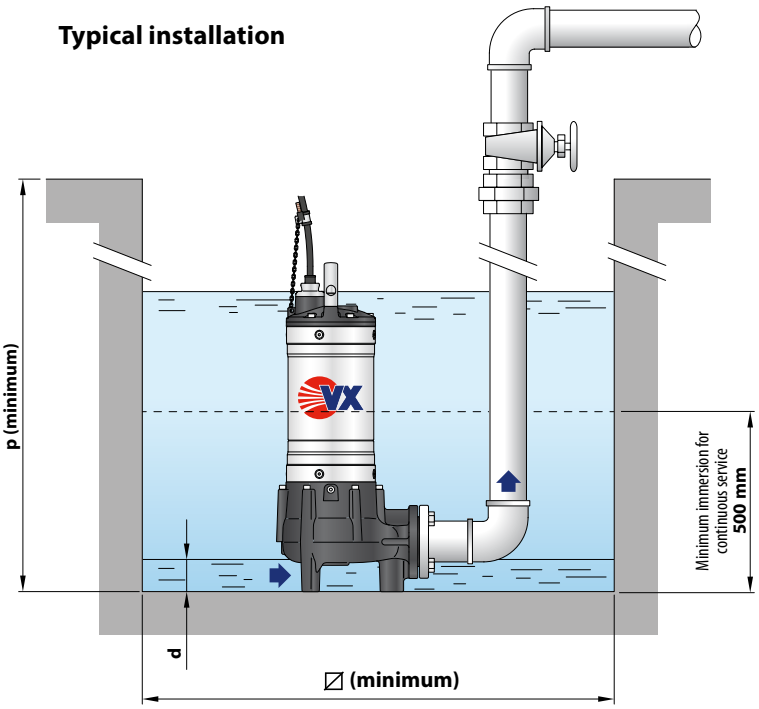
ABSORPTION

TYPE **Three-phase**	VOLTAGE **400 V**
VX4-10/50	2.7 A
VX4-10/65	2.7 A
VX4-10/80	2.7 A

DIMENSIONS AND WEIGHT



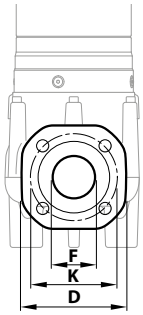
Typical installation



TYPE **Three-phase**	Passage of solid bodies	DIMENSIONS mm								kg
		a	b	c	h	h1	d	p	⍁	3~
VX4-10/50	**Ø 50 mm**	170	106	193	602	100	55	700	500	47.3
VX4-10/65	**Ø 65 mm**	170	107	196	630	121	70	800	500	50.6
VX4-10/80	**Ø 80 mm**	178	107	210	655	150	85	800	500	52.1

PORT FLANGE

TYPE **Three-phase**	FLANGE **DN**	F	K mm	D mm	HOLES N°	 Ø (mm)
VX4-10/50	**50** (PN10)	2"	125	150	4	18
VX4-10/65	**65** (PN10)	2½"	145	185	8	18
VX4-10/80	**80** (PN10)	3"	160	200	8	18



PALLET CAPACITY

TYPE **Three-phase**	NO. OF PUMPS
VX4-10/50	12
VX4-10/65	12
VX4-10/80	12

MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron with cataphoresis treatment
2	**Impeller**	Cast iron VORTEX type with cataphoresis treatment
3	**Motor sleeve**	Stainless steel **AISI 304**
4	**Motor cover**	Cast iron with cataphoresis treatment
5	**Motor shaft**	Stainless steel **AISI 431**

6 Double mechanical seal with interposed oil chamber

Seal	Shaft	Location	Materials
AR-27	Ø 27 mm	Motor side	Silicon carbide / Graphite / NBR
AR-25	Ø 25 mm	Pump side	Silicon carbide/Silicon carbide/NBR

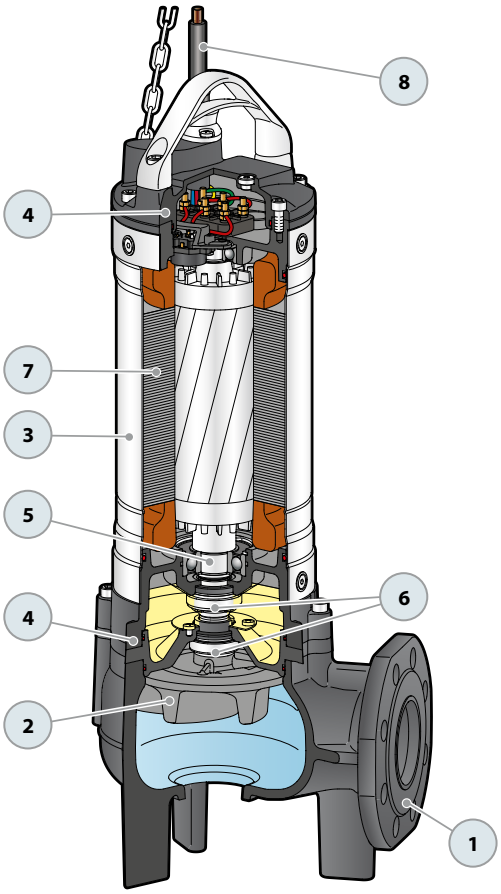
7 Electric Motor

Three-phase 400 V - 50Hz
with winding integrated thermal three-phase motor protection

– Insulation: class F
– Protection rating: IP X8

8 Power cord

※ 10 metres 'H07 RN-F' type



Sewage

Civil use

Industrial use

※ Submersible pumps 4 poles (1450 min^{-1})



PERFORMANCE RANGE

- Flow rate up to **1200 l/min** (72 m³/h)
- Head up to **6 m**

INSTALLATION AND USE

The **BC4** series is constructed from thick stainless steel and cast iron, offering exceptional robustness, abrasion resistance, and durability. Equipped with a **TWO-CHANNEL** impeller, the pumps are designed to **drain sewage, sludge-mixed water, and activated and putrid sludge**. They are suitable for a wide range of applications, including sewers, tunnels, excavations, canals, and underground parking facilities.

ELECTRIC MOTOR

※ **The electric motor is safeguarded by a special three-phase thermal protector, situated within the motor, which activates in case of overheating or abnormal power consumption.**

INCLUDES

※ Power cable length **10 m**

APPLICATION LIMITS

- Depth below water level up to **10 m** (with an appropriately sized power cable)
- Liquid temperature up to **+40 °C**
- Capable of processing suspended solids up to **Ø 50 mm**
- **Minimum immersion for continuous service: 500 mm**

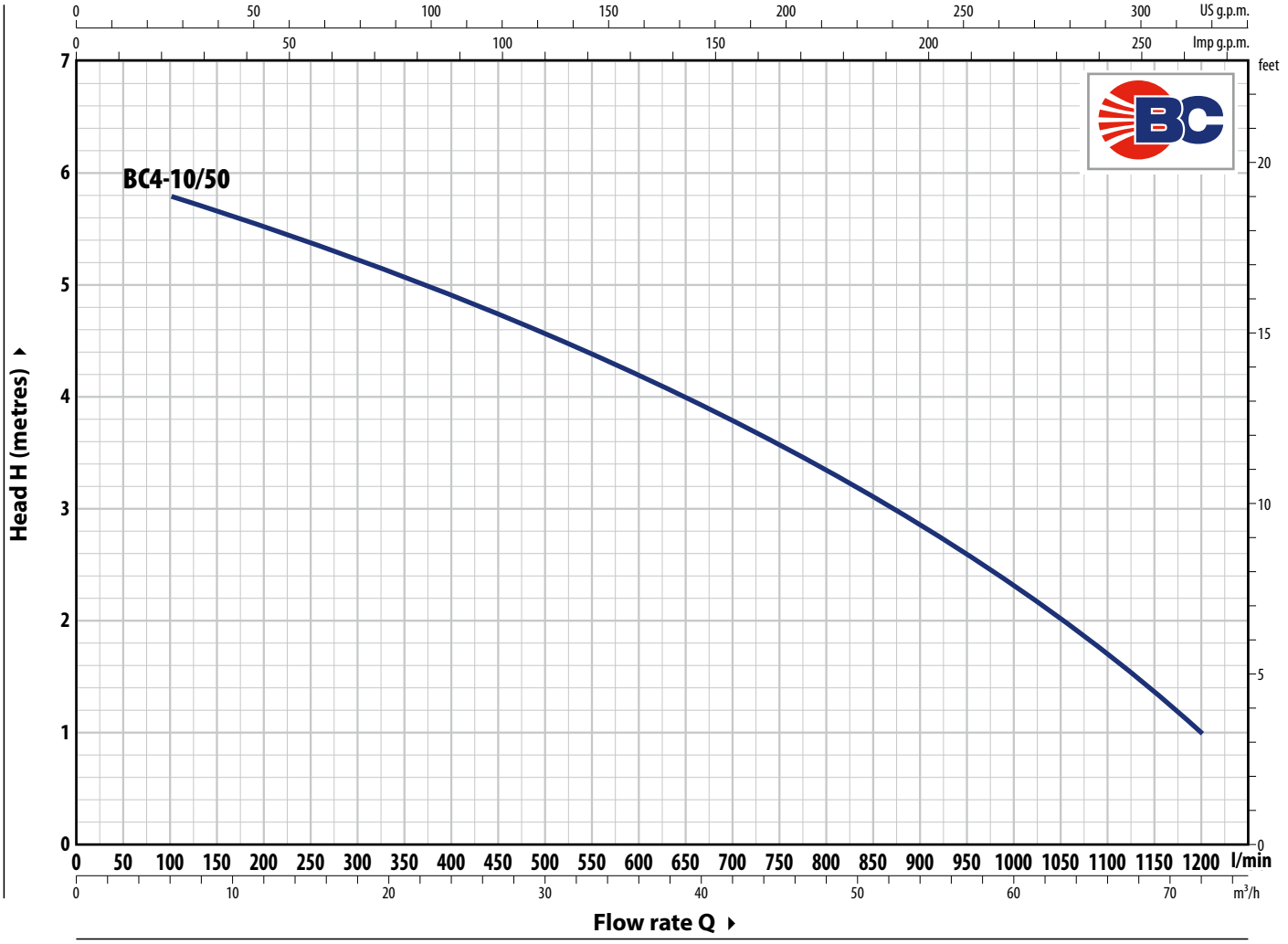
AVAILABLE UPON REQUEST

※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS

- Registered Community Model No. 003863158-0001

CURVES AND PERFORMANCE DATA – n= 1450 min^{-1} 50 Hz



TYPE	POWER (P_2)		Q										
Three-phase	kW	HP		l/min	0	100	200	400	500	600	750	900	1000	1200
BC4-10/50	0.75	1	H	metres	6	6	5.9	5.3	5	4.4	3.6	2.7	2	1

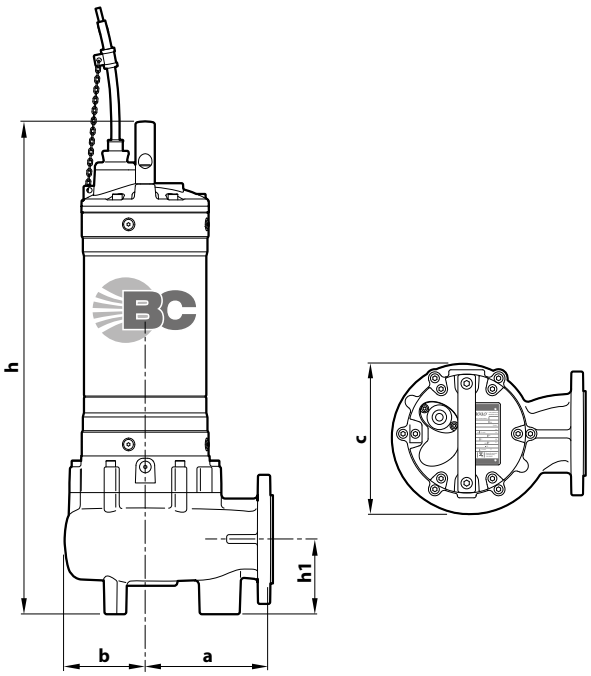
Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

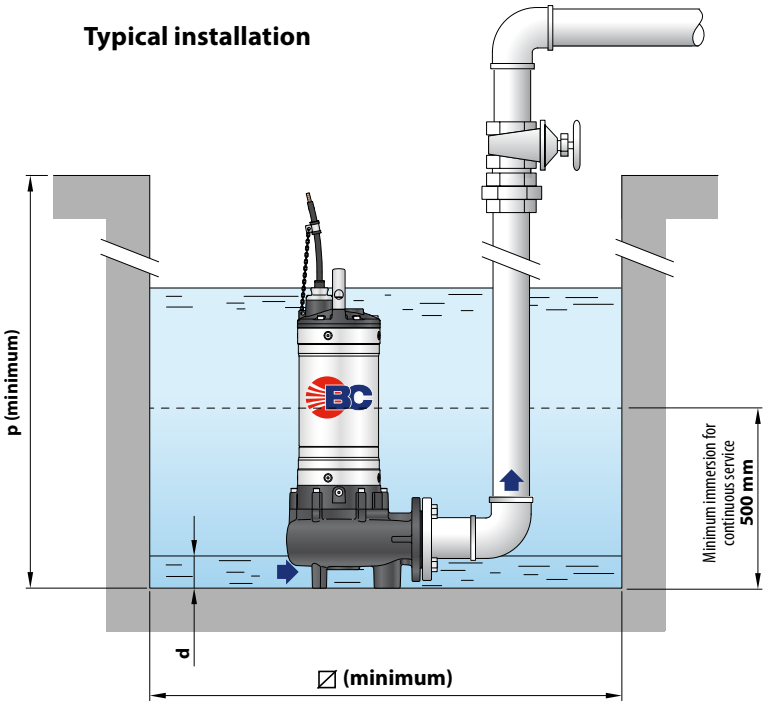
ABSORPTION

TYPE **Three-phase**	VOLTAGE **400 V**
BC4-10/50	2.7 A

DIMENSIONS AND WEIGHT



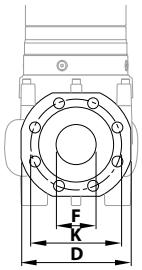
Typical installation



TYPE **Three-phase**	Passage of solid bodies	DIMENSIONS mm								
		a	b	c	h	h1	d	p	⍁	3~
BC4-10/50	**Ø 50 mm**	178	107	210	655	150	85	800	500	55.8

PORT FLANGE

TYPE **Three-phase**	FLANGE **DN**	F	K mm	D mm	HOLES N°	 Ø mm)
BC4-10/50	**80** (PN10)	**3"**	160	200	8	18



PALLET CAPACITY

TYPE **Three-phase**	NO. OF PUMPS
BC4-10/50	12

MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron with cataphoresis treatment
2	**Impeller**	TWO-CHANNEL cast iron type with cataphoresis treatment
3	**Motor sleeve**	Stainless steel **AISI 304**
4	**Motor cover**	Cast iron with cataphoresis treatment
5	**Motor shaft**	Stainless steel **AISI 431**

6 Double mechanical seal with interposed oil chamber

Seal	Shaft	Location	Materials
AR-27	Ø 27 mm	Motor side	Silicon carbide / Graphite / NBR
AR-25	Ø 25 mm	Pump side	Silicon carbide/Silicon carbide/NBR

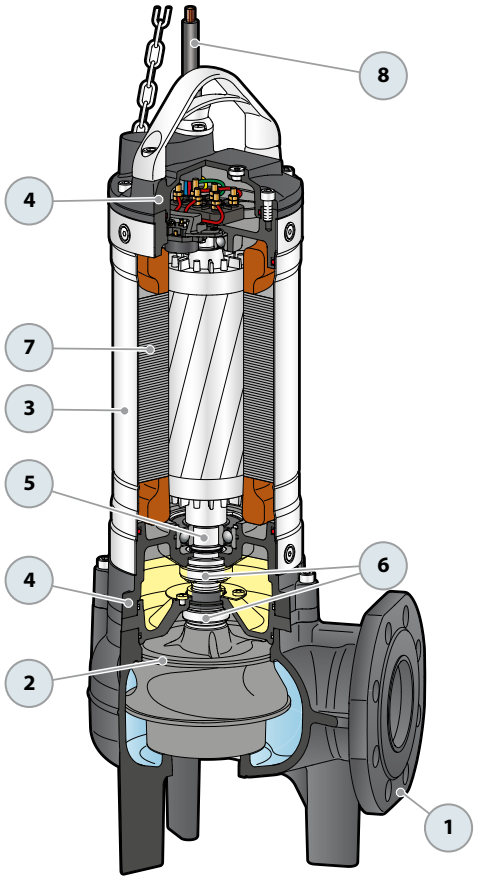
7 Electric Motor

Three-phase 400 V - 50Hz
with winding integrated thermal three-phase motor protection

– Insulation: class F
– Protection rating: IP X8

8 Power cord

※ 10 metres 'H07 RN-F' type



SEWAGE LIFTING SYSTEM VX4 - BC4

VERSION WITH HORIZONTAL DELIVERY AND ¾" GUIDE PIPES

For **VX4 /50**	Code ASSPVX50	**DN 2**

※ Kit consisting of:


Coupling foot


Guide rail


Support for guide tubes



VERSION WITH VERTICAL DELIVERY AND ¾" GUIDE PIPES

For **VX4 /50**	Code ASSPVX503V	**DN 2½"**
For **VX4 /65**	Code ASSPVX653V	**DN 3"**
For **BC4 /50**	Code ASSVXCF071V	

VERSION WITH VERTICAL DELIVERY AND 2" GUIDE TUBES

For **VX4 /50**	Code ASSPVX50V	**DN 3"**
For **VX4 /65**	Code ASSPVX65V	
For **VX4 /80, BC4 /50**	Code ASSVXCF0705V	

※ Kit consisting of:


Coupling foot complete with counterflange


Guide rail


Support for guide tubes



● ACCESSORIES AVAILABLE FOR ORDER

RUNNING GUIDE

※ For VX4 /50 with Ø ¾" guide tubes	Code ASSFL009
※ For VX4 /65 with Ø ¾" guide tubes	Code ASSFL010
※ For BC4 /50 with Ø ¾" guide tubes	Code ASSFL0018
※ For VX4 /50 with Ø 2" guide tubes	Code ASSFL050
※ For VX4 /65 with Ø 2" guide tubes	Code ASSFL065
※ For VX4 /80, BC4 /50 with Ø 2" guide tubes	Code ASSFL072

Complete with screws and seals


for Ø ¾" guide tubes


for guide tubes Ø 2"

INTERMEDIATE GUIDE TUBE SUPPORT

※ For Ø ¾" guide tubes	Code 859SV340INTFA
※ For guide tubes Ø 2"	Code 859SV349INTFA

For reasons of stability, an intermediate support should be interposed:
– every 2 metres with ¾" guide pipes (mandatory)
– every 3 metres with 2" guide tubes (recommended)


for Ø ¾" guide tubes

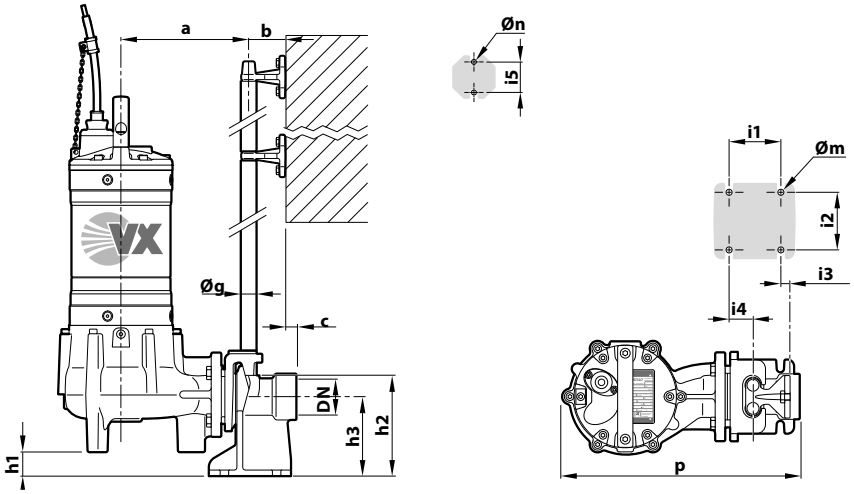

for guide tubes Ø 2"

GUIDE TUBE (AISI 304 stainless steel)

※ 2 metres Ø ¾" guide tube	Code 54SARTG0052F
※ 3 metres Ø ¾" guide tube	Code 54SARTG0053F
※ 6 metres Ø ¾" guide tube	Code 54SARTG0056F
※ 3 metres Ø 2" guide tube	Code 54SARTG0063F
※ 6 metres guide tube Ø 2"	Code 54SARTG0066F

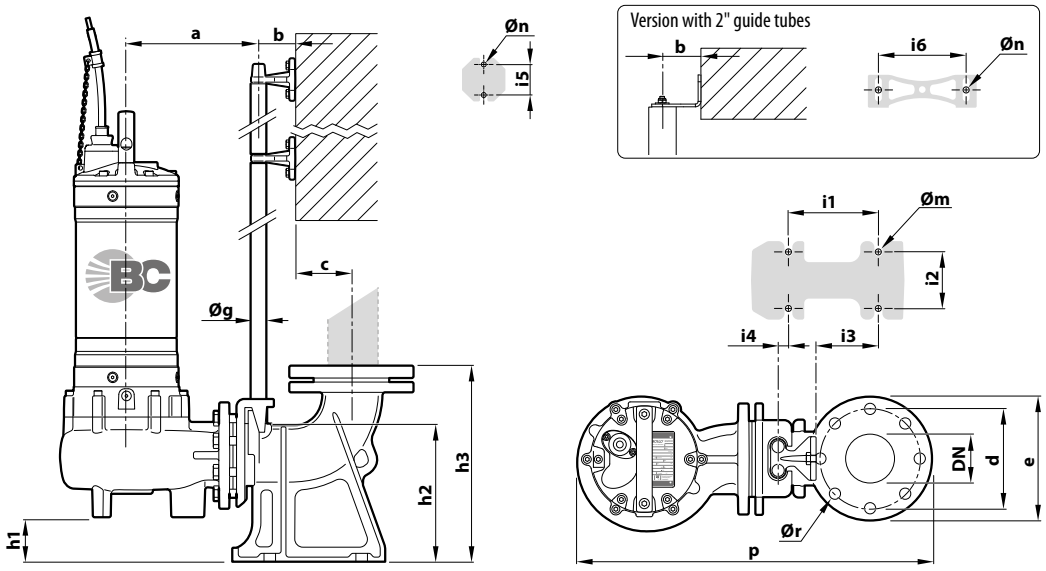


DIMENSIONS (HORIZONTAL delivery version)



TYPE	Solid bodies mm	PORT DN	DIMENSIONS mm														
			a	b	c	p	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn
VX4 /50	**Ø 50**	**2"**	214	61	17	400	30	165	130	85	94	16	40	50	¾"	12	11

DIMENSIONS (Version with VERTICAL delivery)



※ Version with ¾" guide tubes

TYPE	Solid bodies mm	PORT DN	DIMENSIONS mm																		
			a	b	c	d	e	p	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn	Ør
VX4 /50	**Ø 50 mm**	**2½"**	211	61	52	125	165	506	28	164	216	120	72	62	3	50	¾"	14	11	18
VX4 /65	**Ø 65 mm**	**3"**	213		69	150	190	537	48	216	280	130	112	84	15					
BC4 /50	**Ø 50 mm**		222					553	19											

※ Version with 2" guide tubes

TYPE	Solid bodies mm	PORT DN	DIMENSIONS mm																				
			a	b	c	d	e	p	h1	h2	h3	i1	i2	i3	i4	i5	i6	Øg	Øm	Øn	Ør
VX4 /50	**Ø 50 mm**	**3"**	319	86	95	160	200	706	107	264	392	250	150	34	–	80	186	2"	22	13.5	18
VX4 /65	**Ø 65 mm**							697	86												
VX4 /80	**Ø 80 mm**		328					714	57												
BC4 /50	**Ø 50 mm**		328					714	57												

Sewage
Civil use
Industrial use

※ Submersible pumps 4 poles (1450 min^{-1})



PERFORMANCE RANGE
- Flow rate up to **2200 l/min** (132 m^3/h)
- Head up to **12.2 m**

INSTALLATION AND USE
The **VXC4** series is constructed from thick stainless steel and cast iron, offering exceptional robustness, abrasion resistance, and durability. Equipped with a **VORTEX**-type impeller, the pumps are designed to **drain sewage, sludge-mixed water, and activated and putrid sludge**.
They are suitable for a wide range of applications, including sewers, tunnels, excavations, canals, and underground parking facilities.

ELECTRIC MOTOR
※ **The electric motor is safeguarded by a special three-phase thermal protector, situated within the motor, which activates in case of overheating or abnormal power consumption.**

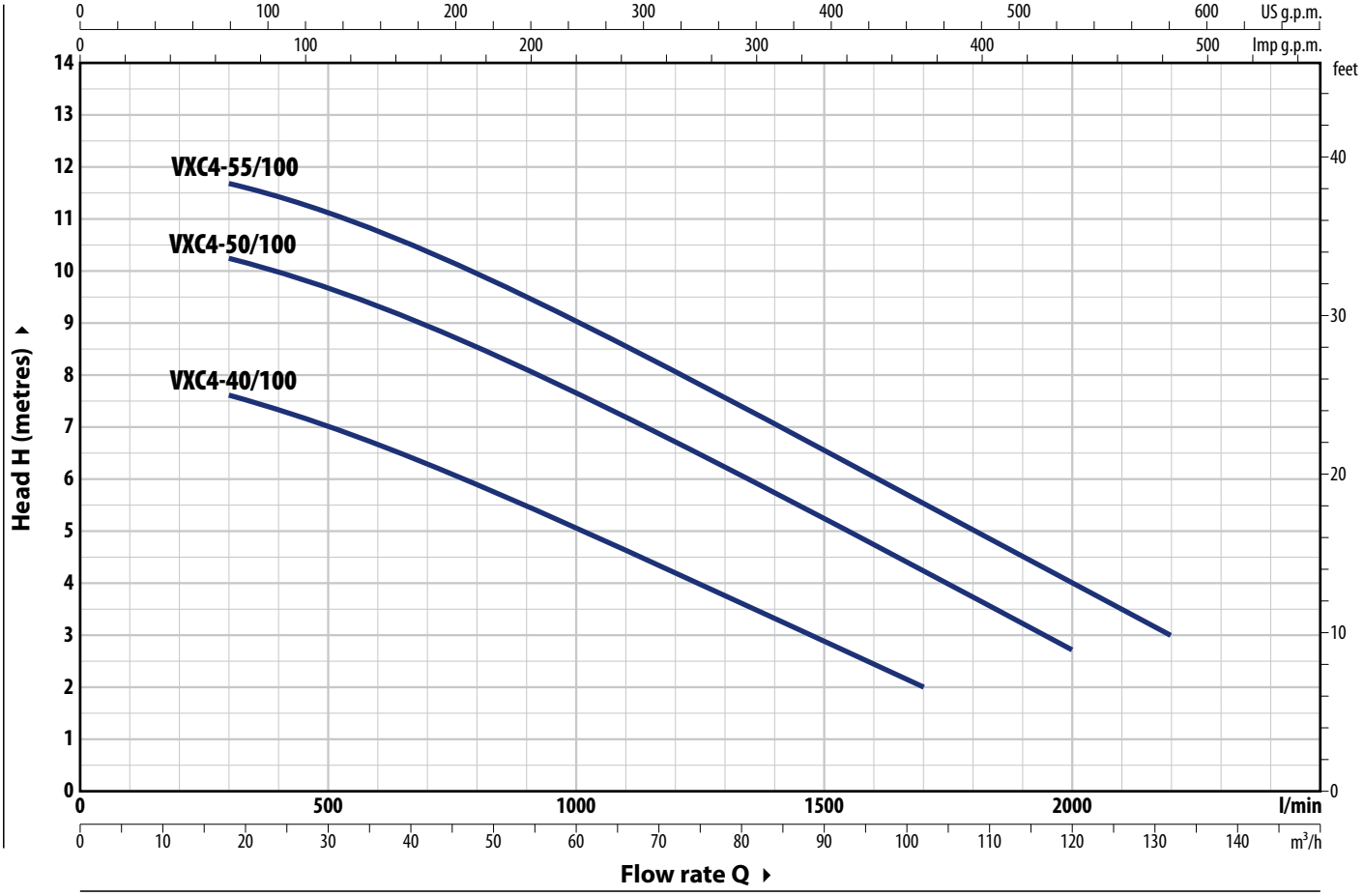
INCLUDES
※ Power cable length **10 m**

APPLICATION LIMITS
- Depth below water level up to **10 m** (with an appropriately sized power cable)
- Liquid temperature up to **+40 °C**
- Capable of processing suspended solids up to Ø **100 mm**
- **Minimum immersion for continuous service: 550 mm**

AVAILABLE UPON REQUEST
※ Pumps equipped with internal probes that detect the presence of water in the oil chamber
※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS
- Registered Community Model No. 003863158-0003

CURVES AND PERFORMANCE DATA – n= 1450 min^{-1} 50 Hz



TYPE	POWER (P2)		Q	m³/h	0	18	30	45	60	75	90	102	120	132
Three-phase	kW	HP		l/min	**0**	**300**	**500**	**750**	**1000**	**1250**	**1500**	**1700**	**2000**	**2200**
VXC4-40/100	3	4			8.3	7.6	7	6	5	4	3	2		
VXC4-50/100	3.7	5	**H**	metres	10.8	10.2	9.6	8.7	7.6	6.4	5.2	4.2	2.7	
VXC4-55/100	4	5.5			12.2	11.7	11	10.2	9	7.8	6.5	5.5	4	3

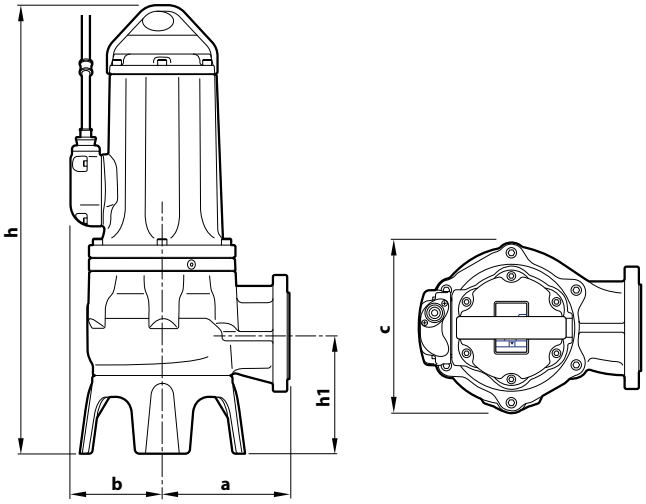
Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

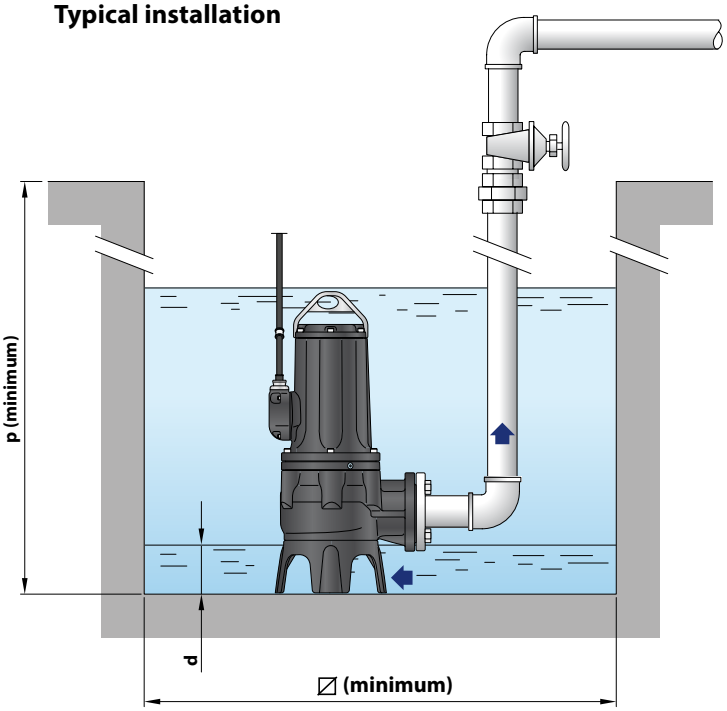
ABSORPTION

TYPE **Three-phase**	VOLTAGE **400 V**
VXC4-40/100	5.5 A
VXC4-50/100	7.7 A
VXC4-55/100	9.0 A

DIMENSIONS AND WEIGHT

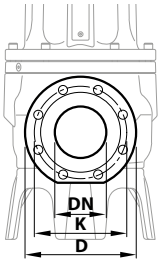


Typical installation



TYPE **Three-phase**	Passage of solid bodies	DIMENSIONS mm a	b	c	h	h1	d	p	⍁	kg 3~
VXC4-40/100	**Ø 100 mm**	228	165	302	806	211	140	1000	1000	129.1
VXC4-50/100										129.0
VXC4-55/100										132.0

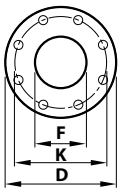
PORT FLANGE



TYPE **Three-phase**	FLANGE **DN**	K mm	D mm	HOLES N°	HOLES Ø (mm)
VXC4-40/100	**100** (PN10)	180	220	8	18
VXC4-50/100					
VXC4-55/100					

COUNTERFLANGE

(CAN BE ORDERED SEPARATELY)



TYPE **Three-phase**	FLANGE **DN**	F	K mm	D mm	HOLES N°	HOLES Ø (mm)
VXC4-40/100	**100**	4"	180	220	8	18
VXC4-50/100						
VXC4-55/100						

PALLET CAPACITY

TYPE **Three-phase**	NO. OF PUMPS
VXC4-40/100	4
VXC4-50/100	4
VXC4-55/100	4

MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron with cataphoresis treatment
2	**Base**	Cast iron with cataphoresis treatment
3	**Impeller**	Cast iron VORTEX type with cataphoresis treatment
4	**Motor holder**	Cast iron with cataphoresis treatment
5	**Motor cover**	Cast iron with cataphoresis treatment
6	**Motor shaft**	Stainless steel **AISI 431**

7 Double mechanical seal with interposed oil chamber

Seal	Shaft	Location	Materials
MG91-40D	Ø 40 mm	Motor side	Silicon carbide / Graphite / NBR
		Pump side	Silicon carbide/Silicon carbide/NBR

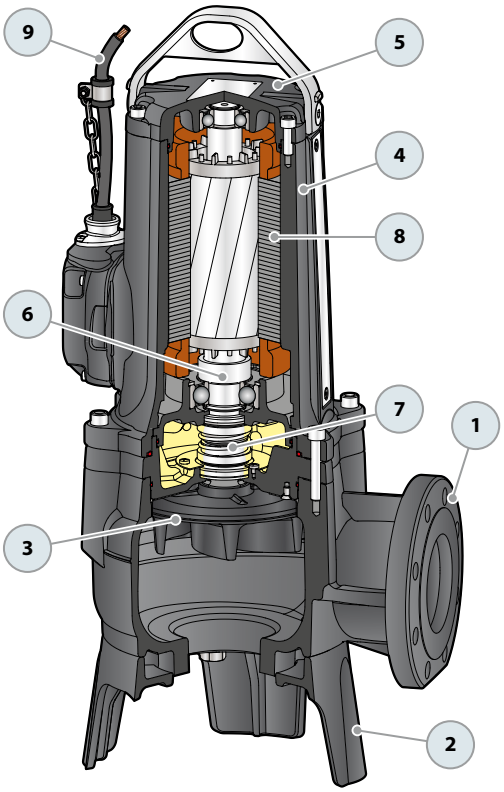
8 Electric motor

Three-phase 400 V - 50Hz
with winding integrated thermal motor protection

– Insulation: class F
– Protection rating: IP X8

9 Power cord

※ 10 metres 'H07 RN-F' type



Sewage

Civil use

Industrial use

※ Submersible pumps 4 poles (1450 min^{-1})



PERFORMANCE RANGE

- Flow rate up to **2900 l/min** (174 m^3/h)
- Head up to **16 m**

INSTALLATION AND USE

The **MC4** series is constructed from thick stainless steel and cast iron, offering exceptional robustness, abrasion resistance, and durability. Equipped with a **TWO-CHANNEL** impeller, the pumps are designed to **drain liquids containing suspended solids and short fibers, as well as sewage**, sludge-mixed water, groundwater, and surface water.
They are suitable for a wide range of applications, including apartment buildings, public facilities, industries, parking facilities, washing areas.

ELECTRIC MOTOR

※ **The electric motor is safeguarded by a special three-phase thermal protector, situated within the motor, which activates in case of overheating or abnormal power consumption.**

INCLUDES

※ Power cable length **10 m**

APPLICATION LIMITS

- Depth below water level up to **10 m** (with an appropriately sized power cable)
- Liquid temperature up to **+40 °C**
- Capable of processing suspended solids up to **Ø 55 mm**
- **Minimum immersion for continuous service: 550 mm**

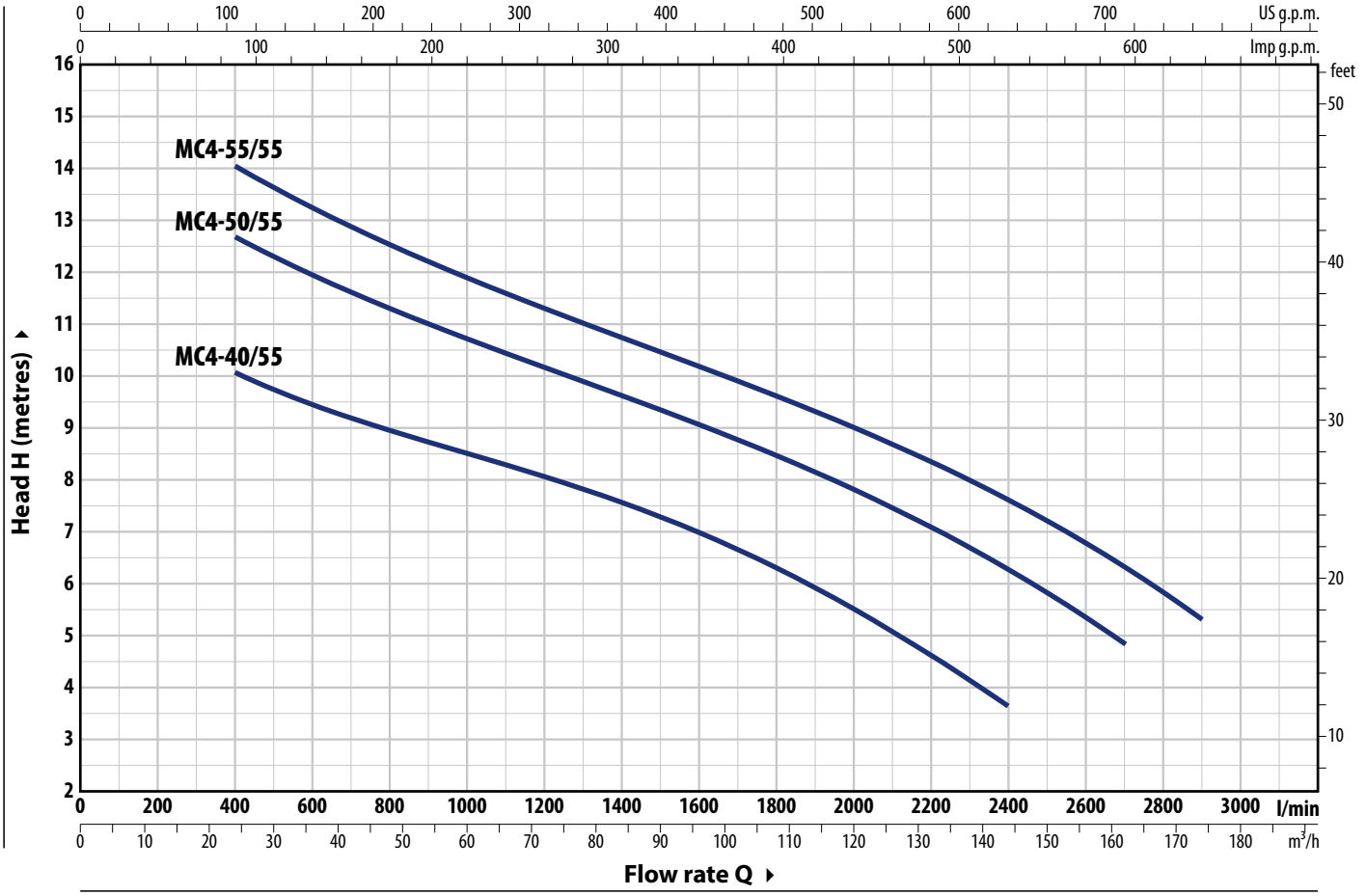
AVAILABLE UPON REQUEST

※ Pumps equipped with internal probes that detect the presence of water in the oil chamber

PATENTS - TRADE MARKS - MODELS

- Registered Community Model No. 003863158-0004

CURVES AND PERFORMANCE DATA – n= 1450 min^{-1} 50 Hz



TYPE	POWER (P2)		Q	m³/h	0	24	48	72	96	108	120	132	144	162	174
Three-phase	**kW**	**HP**		l/min	**0**	**400**	**800**	**1200**	**1600**	**1800**	**2000**	**2200**	**2400**	**2700**	**2900**
MC4-40/55	3	4			12	10	9	8	7	6.3	5.5	4.6	3.6		
MC4-50/55	3.7	5	**H**	metres	14.5	12.6	11.3	10	9	8.4	7.8	7	6.2	4.8	
MC4-55/55	4	5.5			16	14	12.5	11.3	10.2	9.6	9	8.3	7.6	6.3	5.3

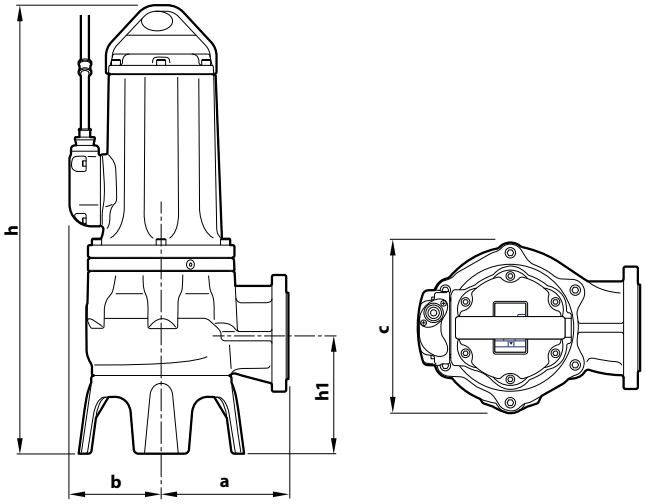
Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

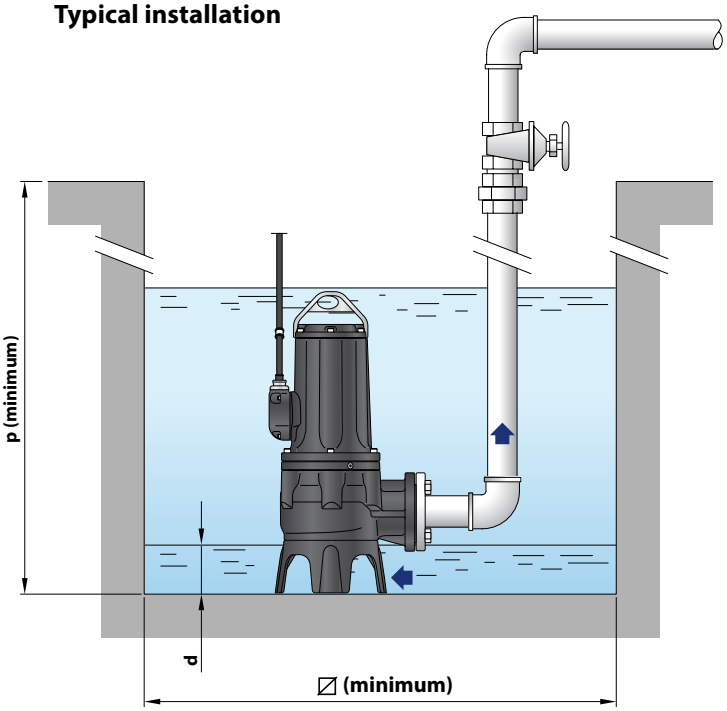
ABSORPTION

TYPE	VOLTAGE
Three-phase	**400 V**
MC4-40/55	5.5 A
MC4-50/55	7.7 A
MC4-55/55	8.3 A

DIMENSIONS AND WEIGHT

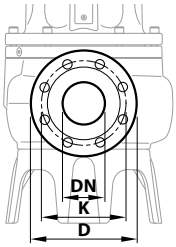


Typical installation



TYPE **Three-phase**	Passage of solid bodies	DIMENSIONS mm a	b	c	h	h1	d	p	⍁	kg 3~
MC4-40/55	**Ø 55 mm**	248	165	320	792	228	140	1000	1000	125.2
MC4-50/55										133.0
MC4-55/55										136.0

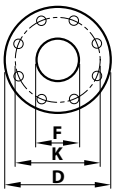
PORT FLANGE



TYPE **Three-phase**	FLANGE **DN**	K **mm**	D **mm**	HOLES **N°**	**Ø (mm)**
MC4-40/55	**80** (PN10)	160	200	8	18
MC4-50/55					
MC4-55/55					

COUNTERFLANGE

(CAN BE ORDERED SEPARATELY)



TYPE **Three-phase**	FLANGE **DN**	F	K **mm**	D **mm**	HOLES **N°**	**Ø (mm)**
MC4-40/55	**80**	3"	160	200	8	18
MC4-50/55						
MC4-55/55						

PALLET CAPACITY

TYPE **Three-phase**	NO. OF PUMPS
MC4-40/55	4
MC4-50/55	4
MC4-55/55	4

MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron with cataphoresis treatment
2	**Base**	Cast iron with cataphoresis treatment
3	**Impeller**	TWO-CHANNEL cast iron type with cataphoresis treatment
4	**Motor holder**	Cast iron with cataphoresis treatment
5	**Motor cover**	Cast iron with cataphoresis treatment
6	**Motor shaft**	Stainless steel **AISI 431**

7 Double mechanical seal with interposed oil chamber

Seal	Shaft	Location	Materials
MG91-40D	Ø 40 mm	Motor side	Silicon carbide / Graphite / NBR
		Pump side	Silicon carbide/Silicon carbide/NBR

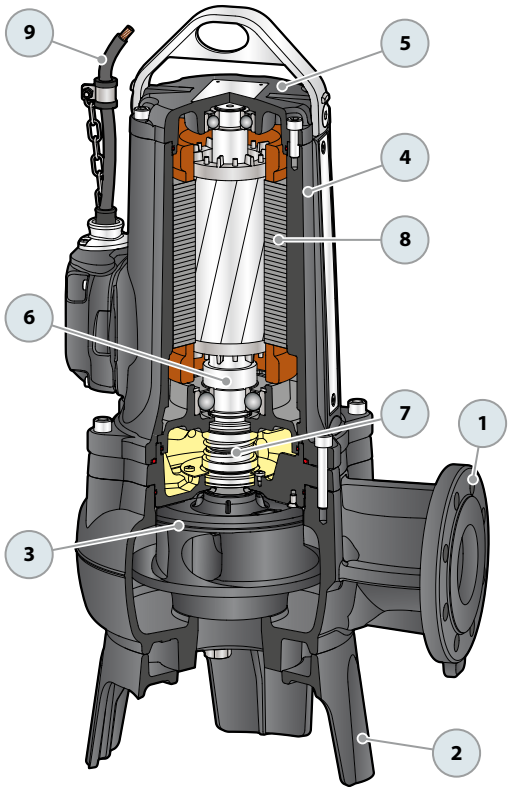
8 Electric motor

Three-phase 400 V - 50Hz
with winding integrated thermal motor protection

– Insulation: class F
– Protection rating: IP X8

9 Power cord

※ 10 metres 'H07 RN-F' type



SEWAGE LIFTING SYSTEM VXC4 - MC4

VERSION WITH VERTICAL DELIVERY AND 2" GUIDE TUBES

For **VXC4**	Code ASSPVXC4V	DN **4"**
For **MC4**	Code ASSPMC4V	DN **3"**



※ Kit consisting of:



Coupling foot complete with counterflange



Slide rail with screws and gasket



Support for guide tubes

ACCESSORIES AVAILABLE FOR ORDER

RUNNING GUIDE

※ For VXC4	Code ASSFL100
※ For MC4	Code ASSFL080

Complete with screws and seals



INTERMEDIATE GUIDE TUBE SUPPORT

※ For guide tubes Ø 2"	Code 859SV349INTFA



For reasons of stability, interpose a support every 3 metres (recommended)

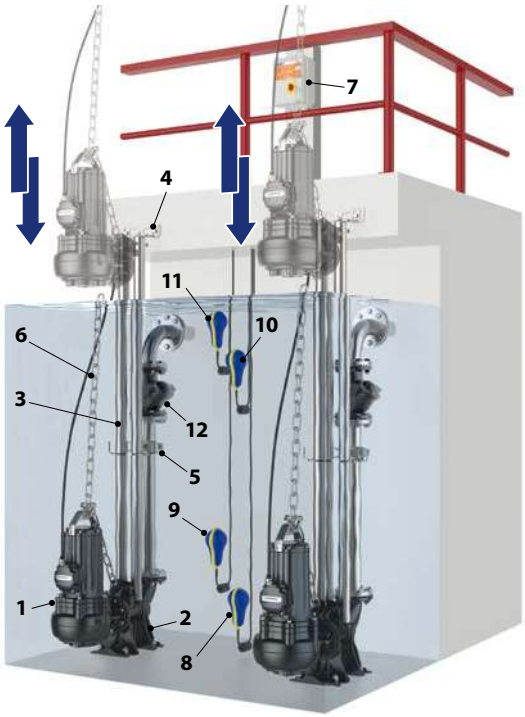
GUIDE TUBE (AISI 304 stainless steel)

※ 3 metres Ø 2" guide tube	Code 54SARTG0063F
※ 6 metres guide tube Ø 2"	Code 54SARTG0066F

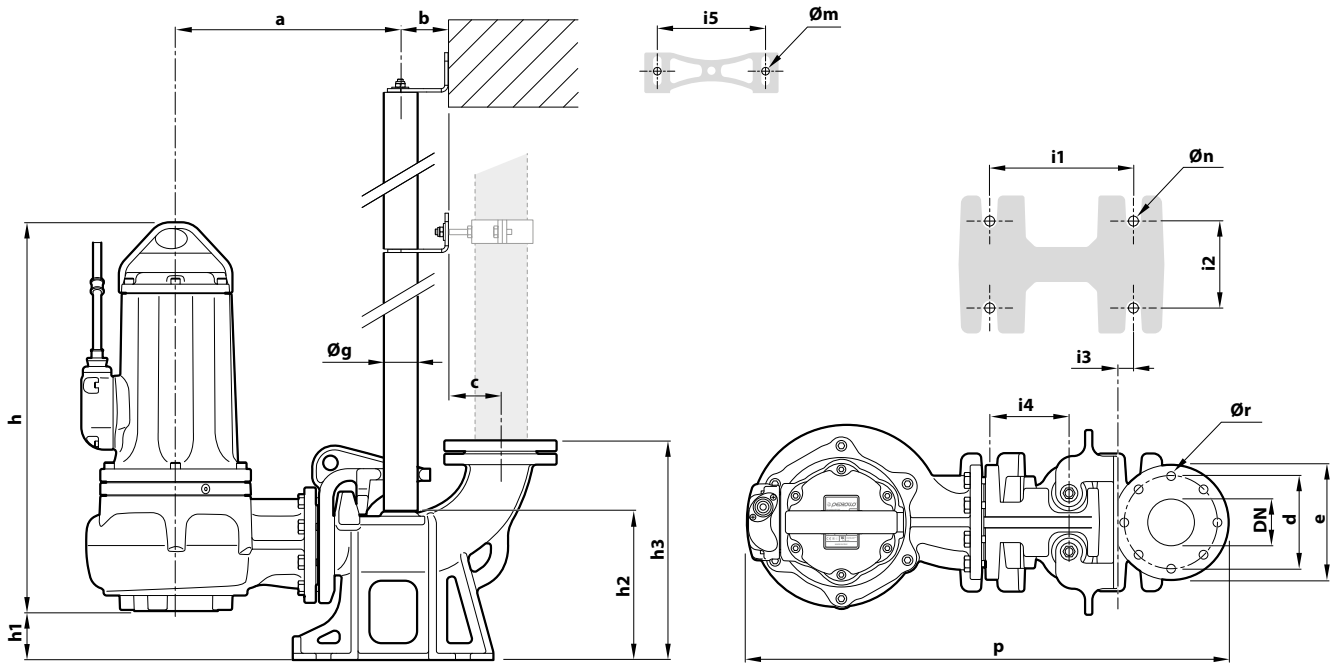


Typical installation

1. Water pump
2. Pump Base
3. Guide Rails
4. Upper Guide Rail Support
5. Intermediate Guide Rail Support
6. Lifting chain
7. Control Panel
8. Stop Float Switch
9. Start Float Switch
10. Supplementary pump start float switch
11. Alarm float
12. Check val



DIMENSIONS



TYPE	Passage of solid bodies	PORT	DIMENSIONS mm																		
Three-phase	mm	**DN**	a	b	c	d	e	p	h	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn	Ør
VXC4-40/100																					
VXC4-50/100	**Ø 100 mm**	**4"**	376	85	105	180	220	841	695	107	266	426	250	150	34	130	186	2"	13	16	18
VXC4-55/100																					

TYPE	Passage of solid bodies	PORT	DIMENSIONS mm																		
Three-phase	mm	**DN**	a	b	c	d	e	p	h	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn	Ør
MC4-40/55																					
MC4-50/55	**Ø 55 mm**	**3"**	396	85	95	160	200	841	680	92	256	592	250	150	34	130	186	2"	13	16	18
MC4-55/55																					

Sewage
Civil use
Industrial use

※ Submersible pumps 4 poles (1450 min^{-1})



PERFORMANCE RANGE
- Flow rate up to **5000 l/min** (300 m^3/h)
- Head up to **22.5 m**

INSTALLATION AND USE
The **VXC4** series is constructed from thick stainless steel and cast iron, offering exceptional robustness, abrasion resistance, and durability. Equipped with a **VORTEX**-type impeller, the pumps are designed to **drain sewage, sludge-mixed water, and activated and putrid sludge**.
They are suitable for a wide range of applications, including sewers, tunnels, excavations, canals, and underground parking facilities.

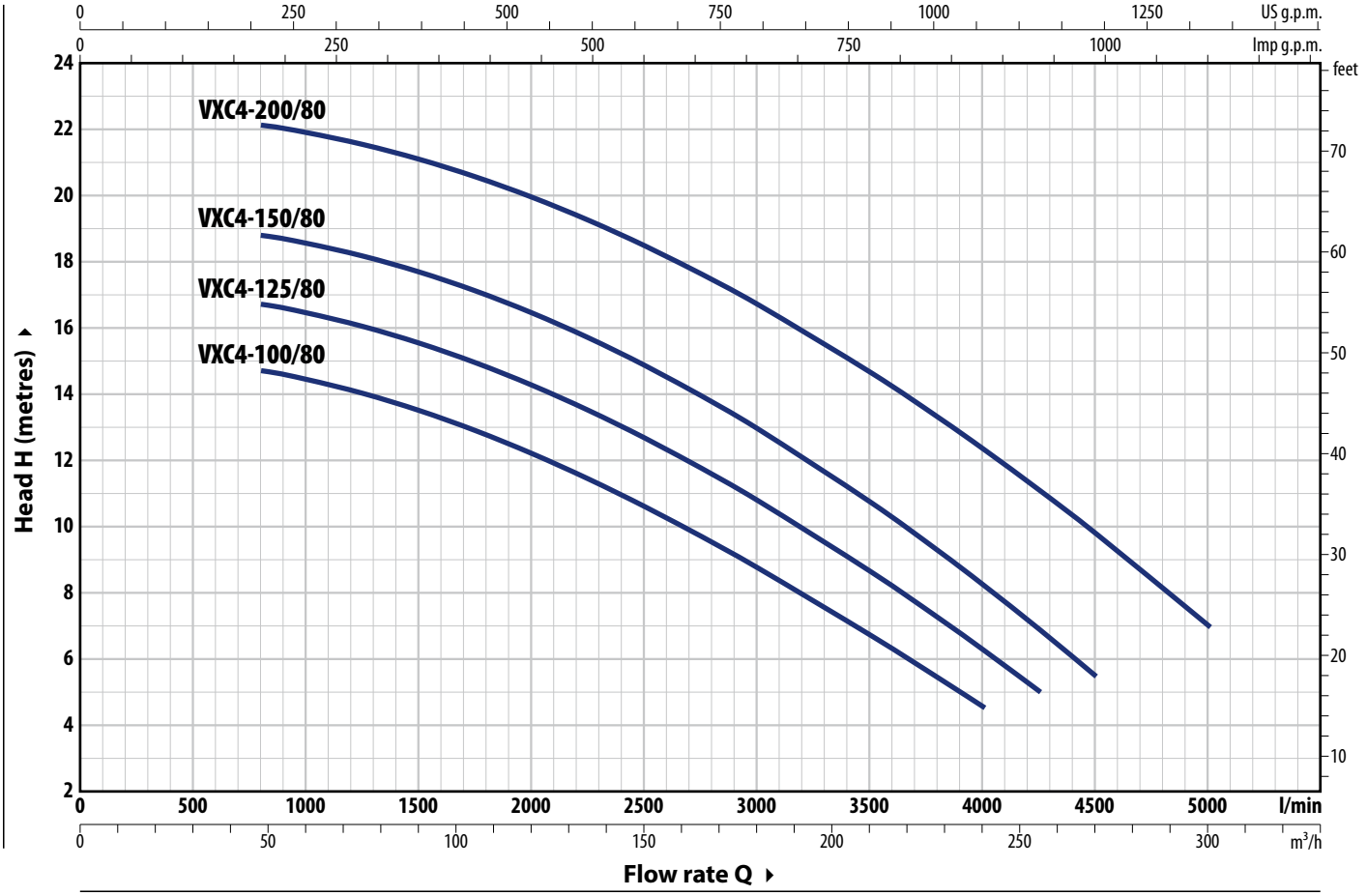
ELECTRIC MOTOR
※ **Electric motor with built-in three-phase thermal protection in the winding must be connected to the control panel.**
N.B. The warranty is valid if the thermal protection is connected to the control panel.

INCLUDES
※ Power cable length **10 m**

APPLICATION LIMITS
- Depth below water level up to **10 m** (with an appropriately sized power cable)
- Liquid temperature up to **+40 °C**
- Capable of processing suspended solids up to **Ø 80 mm**
- **For continuous service, the pump must not rise more than 290 mm**

AVAILABLE UPON REQUEST
※ Pumps equipped with internal probes that detect the presence of water in the oil chamber
※ Pumps with double cable for star/delta starting
※ Different voltage requirements 60 Hz frequency

CURVES AND PERFORMANCE DATA – n= 1450 min^{-1} 50 Hz



TYPE	POWER (P2)		Q	m³/h	0	48	60	90	120	150	180	210	240	255	270	300
Three-phase	kW	HP		l/min	0	800	1000	1500	2000	2500	3000	3500	4000	4250	4500	5000
VXC4-100/80	7.5	10	H	metres	15	14.7	14.5	13.5	12.2	10.6	8.7	6.7	4.5			
VXC4-125/80	9.2	12.5			17	16.7	16.5	15.5	14.3	12.7	10.8	8.6	6.3	5		
VXC4-150/80	11	15			19	18.8	18.6	17.7	16.4	15	13	10.7	8.2	7	5.5	
VXC4-200/80	15	20			22.5	22.1	22	21	20	18.5	16.7	14.7	12.3	11	9.8	7

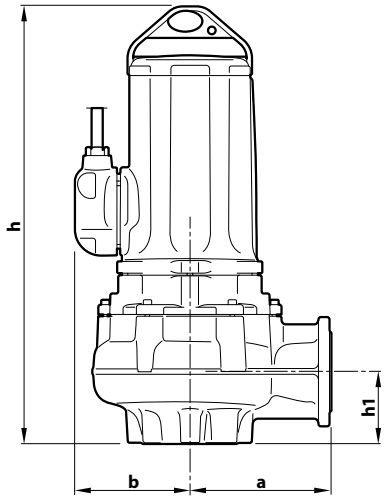
Q = Flow rate **H** = Total manometric head

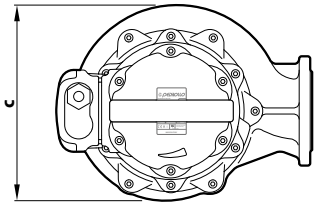
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	TENSIONE			
Three-phase	230 V - Δ	400 V - Y	400 V - Δ	690 V - Y
VXC4-100/80	32.9 A	19.0 A	19.0 A	11.0 A
VXC4-125/80	36.3 A	21.0 A	21.0 A	12.1 A
VXC4-150/80	40.7 A	23.5 A	23.5 A	13.6 A
VXC4-200/80	49.3 A	28.5 A	28.5 A	16.5 A

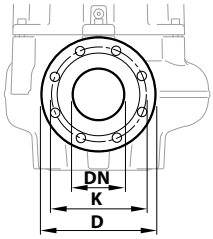
DIMENSIONS AND WEIGHT





TYPE	Passage of solid bodies	DIMENSIONS mm					kg
Three-phase		a	b	c	h	h1	3~
VXC4-100/80	**Ø 80 mm**	285	228	395	858	130	215
VXC4-125/80							217
VXC4-150/80							227
VXC4-200/80							237

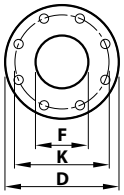
PORT FLANGE



TYPE	FLANGE	K	D	HOLES	
Three-phase	**DN**	mm	mm	N°	Ø (mm)
VXC4-100/80 **VXC4-125/80** **VXC4-150/80** **VXC4-200/80**	**100** (PN10)	180	220	8	18

COUNTERFLANGE

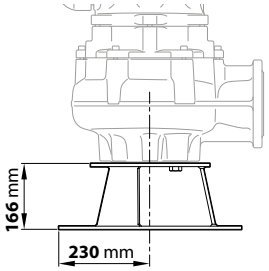
(CAN BE ORDERED SEPARATELY)

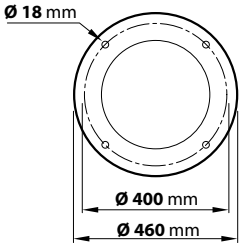


TYPE	FLANGE	F	K	D	HOLES	
Three-phase	**DN**		mm	mm	N°	Ø (mm)
VXC4-100/80 **VXC4-125/80** **VXC4-150/80** **VXC4-200/80**	**100**	4"	180	220	8	18

BASE

(CAN BE ORDERED SEPARATELY)





MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron with cataphoresis treatment
2	**Impeller**	Cast iron VORTEX type with cataphoresis treatment
3	**Motor holder**	Cast iron
4	**Motor cover**	Cast iron
5	**Motor shaft**	Stainless steel **AISI 431**

6 Double mechanical seal with interposed oil chamber

Seal	Shaft	Location	Materials
MG1-43	Ø 43 mm	Motor side	Ceramic / Graphite / NBR
ARP-40	Ø 40 mm	Pump side	Silicon carbide/Silicon carbide/NBR

7 Electric Motor

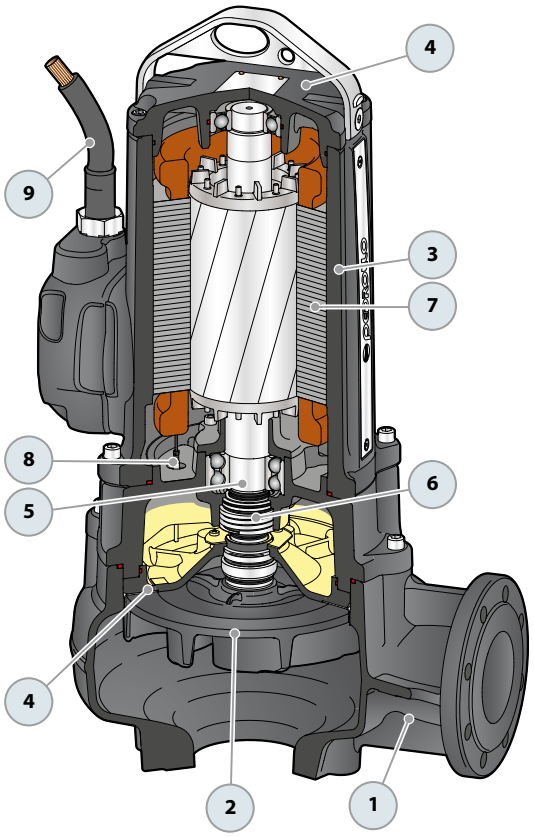
Three-phase 230/400 V - 50 Hz or 400/690 V - 50 Hz
with winding integrated thermal three-phase motor protection to be connected to the control panel

– Insulation: class F
– Protection rating: IP X8

8 ※ Probe for detecting water in the oil chamber

9 Power cord

※ 10 metres '**EM2 quality**' type



Sewage
Civil use
Industrial use

※ Submersible pumps 4 poles (1450 min^{-1})



PERFORMANCE RANGE

- Flow rate up to **5000 l/min** (300 m^3/h)
- Head up to **28 m**

INSTALLATION AND USE

The **MC4** series is constructed from thick stainless steel and cast iron, offering exceptional robustness, abrasion resistance, and durability.
Equipped with a **TWO-CHANNEL** impeller, the pumps are designed to drain liquids containing suspended solids and short fibers, as well as **sewage, sludge-mixed water, groundwater, and surface water**. They are suitable for a wide range of applications, including apartment buildings, public facilities, industries, parking facilities, washing areas.

ELECTRIC MOTOR

※ **Electric motor with built-in three-phase thermal protection in the winding must be connected to the control panel.**
N.B. The warranty is valid if the thermal protection is connected to the control panel.

INCLUDES

※ Power cable length **10 m**

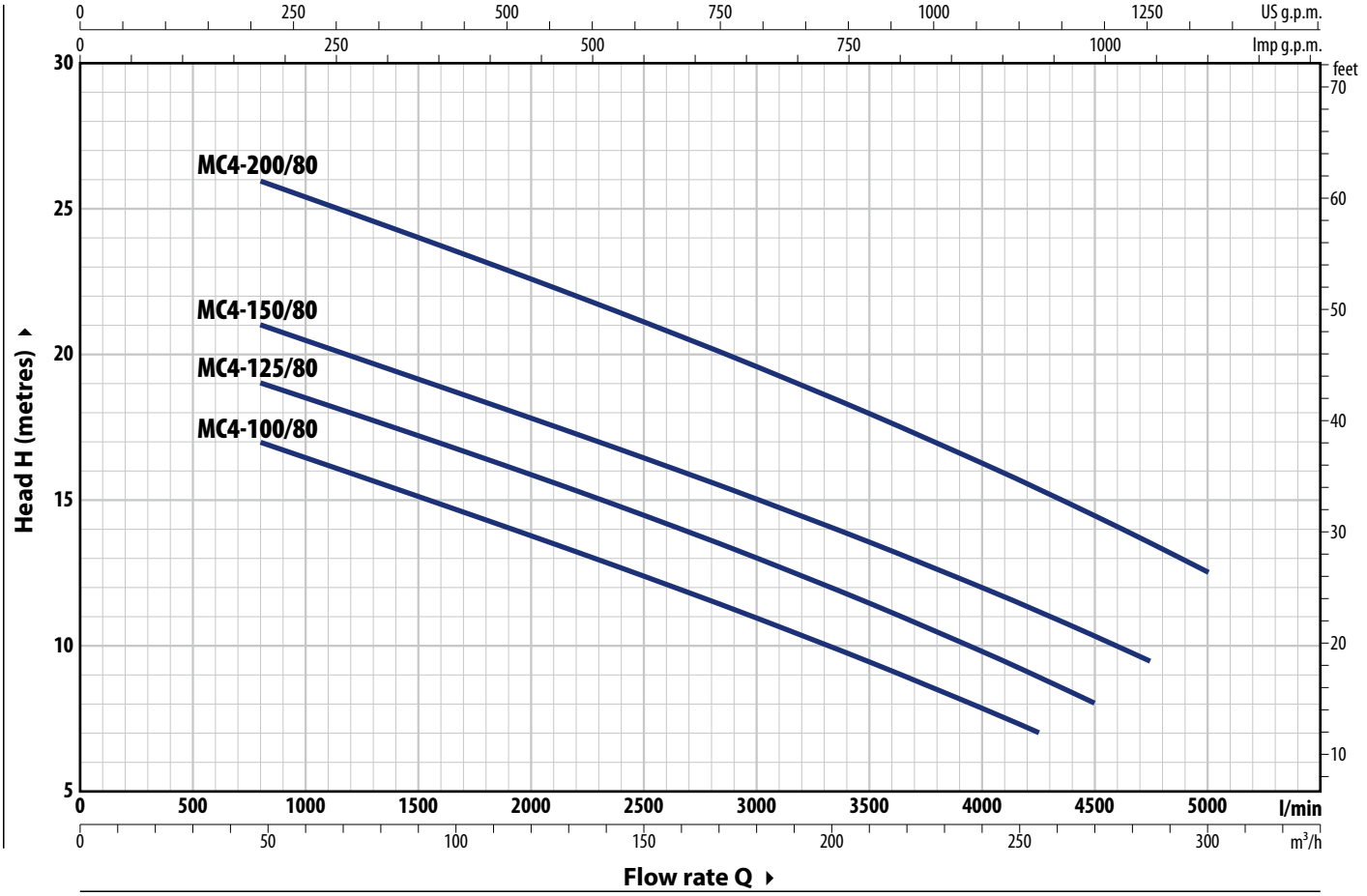
APPLICATION LIMITS

- Depth below water level up to **10 m** (with an appropriately sized power cable)
- Liquid temperature up to **+40 °C**
- Capable of processing suspended solids up to **Ø 80 mm**
- **For continuous service, the pump must not rise more than 290 mm**

AVAILABLE UPON REQUEST

※ Pumps equipped with internal probes that detect the presence of water in the oil chamber
※ Pumps with double cable for star/delta starting
※ Different voltage requirements 60 Hz frequency

CURVES AND PERFORMANCE DATA – n= 1450 min^{-1} 50 Hz



TYPE	POWER (P2)		Q	m³/h	0	48	60	120	180	240	255	270	285	300
Three-phase	kW	HP		l/min	**0**	**800**	**1000**	**2000**	**3000**	**4000**	**4250**	**4500**	**4750**	**5000**
MC4-100/80	7.5	10	H	metres	19	17	16.4	13.7	11	7.8	7			
MC4-125/80	9.2	12.5			21	19	18.5	15.8	13	9.8	9	8		
MC4-150/80	11	15			23.5	21	20.7	18	15.2	12.1	11.3	10.4	9.5	
MC4-200/80	15	20			28	26	25.3	22.5	19.5	16.2	15.3	14.4	13.5	12.5

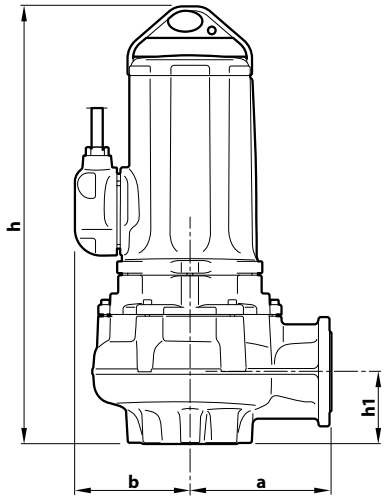
Q = Flow rate **H** = Total manometric head

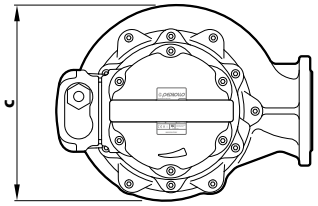
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE			
Three-phase	**230 V - Δ**	**400 V - Y**	**400 V - Δ**	**690 V - Y**
MC4-100/80	29.4 A	17.0 A	17.0 A	9.8 A
MC4-125/80	34.6 A	20.0 A	20.0 A	11.6 A
MC4-150/80	38.1 A	22.0 A	22.0 A	12.7 A
MC4-200/80	49.3 A	28.5 A	28.5 A	16.5 A

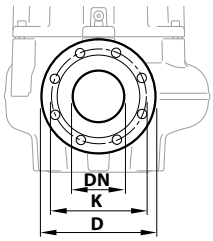
DIMENSIONS AND WEIGHT





TYPE	Passage of solid bodies	DIMENSIONS mm					kg
Three-phase		a	b	c	h	h1	3~
MC4-100/80	**Ø 80 mm**	285	228	395	858	130	224
MC4-125/80							226
MC4-150/80							236
MC4-200/80							246

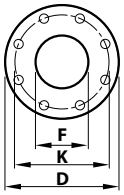
PORT FLANGE



TYPE	FLANGE	K	D	HOLES	
Three-phase	**DN**	mm	mm	N°	Ø (mm)
MC4-100/80 **MC4-125/80** **MC4-150/80** **MC4-200/80**	**100** (PN10)	180	220	8	18

COUNTERFLANGE

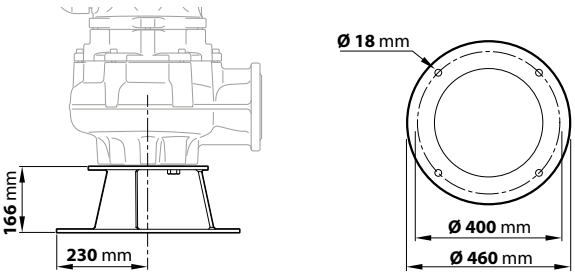
(CAN BE ORDERED SEPARATELY)



TYPE	FLANGE	F	K	D	HOLES	
Three-phase	**DN**		mm	mm	N°	Ø (mm)
MC4-100/80 **MC4-125/80** **MC4-150/80** **MC4-200/80**	**100**	4"	180	220	8	18

BASE

(CAN BE ORDERED SEPARATELY)



MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron with cataphoresis treatment
2	**Impeller**	TWO-CHANNEL cast iron type with cataphoresis treatment
3	**Motor holder**	Cast iron
4	**Motor cover**	Cast iron
5	**Motor shaft**	Stainless steel **AISI 431**

6 Double mechanical seal with interposed oil chamber

Seal	Shaft	Location	Materials
MG1-43	Ø 43 mm	Motor side	Ceramic / Graphite / NBR
ARP-40	Ø 40 mm	Pump side	Silicon carbide/Silicon carbide/NBR

7 Electric Motor

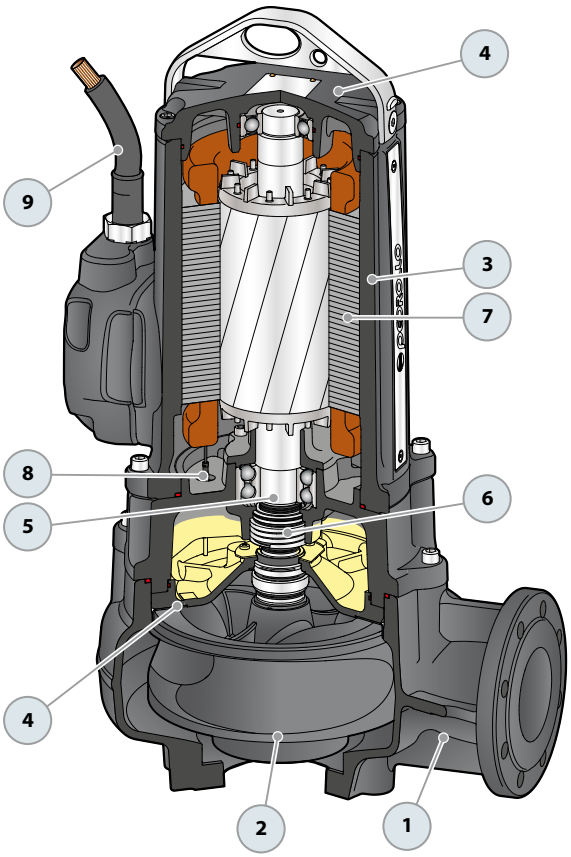
Three-phase 230/400 V - 50 Hz or 400/690 V - 50 Hz
with winding integrated thermal three-phase motor protection to be connected to the control panel

– Insulation: class F
– Protection rating: IP X8

8 ※ Probe for detecting water in the oil chamber

9 Power cord

※ 10 metres '**EM2 quality**' type



SEWAGE LIFTING SYSTEM VXC4 - MC4

VERSION WITH VERTICAL DELIVERY AND 2" GUIDE TUBES

For **VXC4, MC4**	Code ASSPVXC4V	DN **4"**



※ Kit consisting of:



Coupling foot complete with counterflange



Slide rail with screws and gasket



Support for guide tubes

ACCESSORIES AVAILABLE FOR ORDER

RUNNING GUIDE

※ For VXC4, MC4	Code ASSFL100

Complete with screws and seals



INTERMEDIATE GUIDE TUBE SUPPORT

※ For guide tubes Ø **2"**	Code 859SV349INTFA

For reasons of stability interpose a support every 3 metres



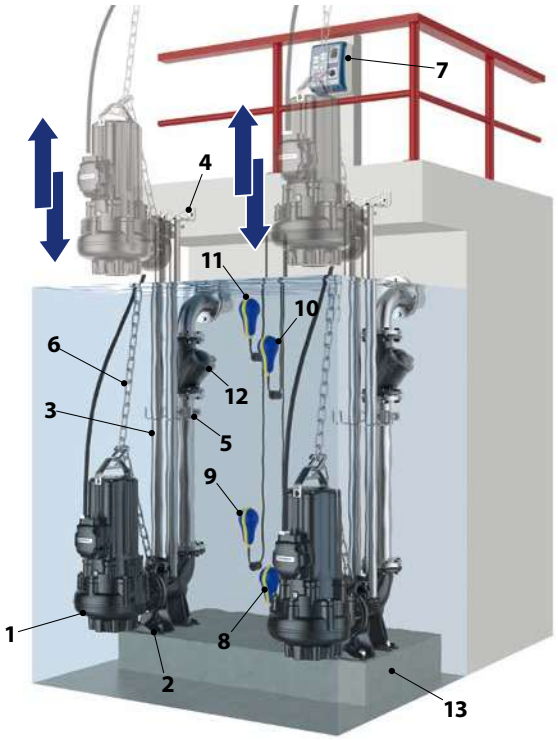
GUIDE TUBE (**AISI 304 stainless steel**)

※ 3 metres Ø 2" guide tube	Code 54SARTG0063F
※ 6 metres guide tube Ø 2"	Code 54SARTG0066F

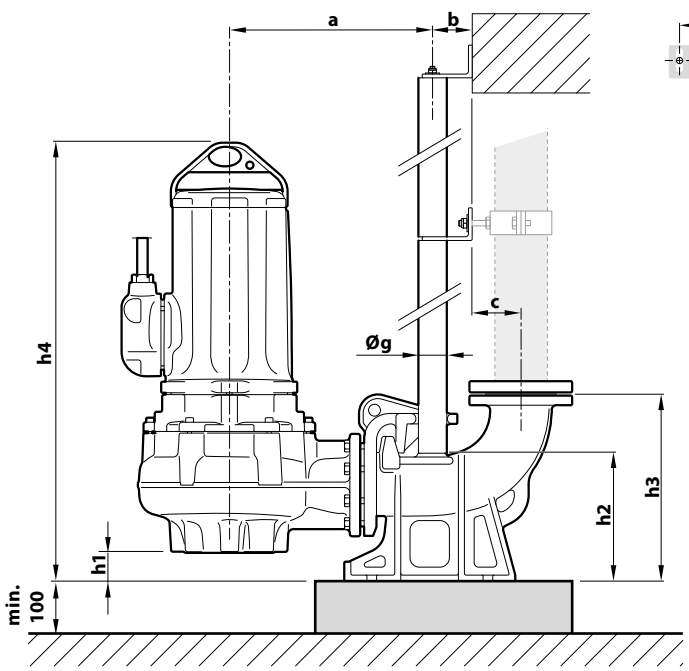


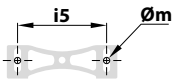
Typical installation

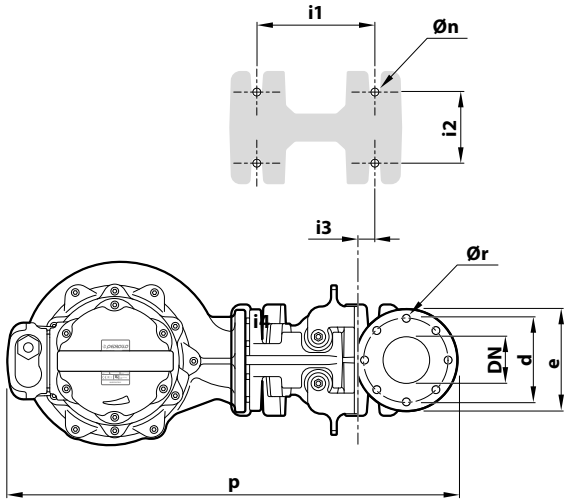
1. Water pump
2. Pump Base
3. Guide Rails
4. Upper Guide Rail Support
5. Intermediate Guide Rail Support
6. Lifting chain
7. Control panel
8. Stop Float Switch
9. Start Float Switch
10. Supplementary pump start float switch
11. Alarm float
12. Check valve
13. Pump Pedestal



DIMENSIONS







TYPE **Three-phase**	Passage of solid bodies mm	PORT **DN**	DIMENSIONS mm a	b	c	d	e	p	h1	h2	h3	h4	i1	i2	i3	i5	Øg	Øm	Øn	Ør
VXC4 /80 **MC4 /80**	**Ø 80 mm**	**100**	435	85.5	104.5	180	220	965	77	275	400	935	250	150	34	187	2"	13.5	22	18

SAR 40 Lift and collection stations



INSTALLATION AND USE

The **SAR 40** lift and collection stations are designed to handle clear water, rainwater, and wastewater from household drains like washing machines, dishwashers, and sinks, especially in situations where connection to the main sewer system is impractical or impossible due to distance or gravity constraints.

The **SAR 40** stations are compact and easy to install in basements, single-residence garages, or even underground

COMPONENTS INCLUDED

※ **40 litres** polyethylene tank with a non-walkable and non-driveable cover.

※ Single-phase submersible pump.

※ Standard **5-metres** power cable .

※ Swing check valve for models with drainage pumps only (for clear wastewater).

AVAILABLE UPON REQUEST

※ **SAR 40 lift station, equipped with a single-phase submersible pump with a float switch, based on your specific requirements.**

※ **10-metres** power cable.

※ Full-flow check valve (for external installation) designed for vortex and grinder pumps.

※ SAR 40 with grinder pump

TYPE	POWER (P2) kW	HP	MAXIMUM FLOW RATE litres/min	PREVALENCE MAX metres	
TRITUS-TX	**0.55**	**0.75**	**90**	**11.5**	

※ Suitable for sewage

※ Start of production 06.2024

※ SAR 40 with drainage pumps

TYPE	POWER (P2) kW	HP	MAXIMUM FLOW RATE litres/min	PREVALENCE MAX metres	
TOP 1 -GM	**0.25**	**0.33**	**160**	**6.0**	
RXm 1 -GM	**0.25**	**0.33**	**160**	**7.0**	

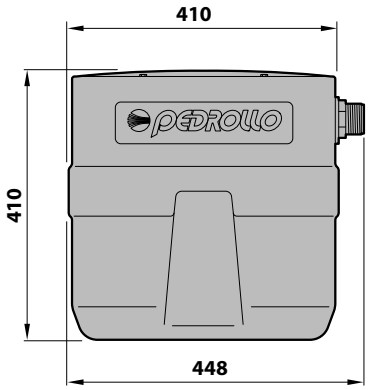
※ Suitable for clear wastewater

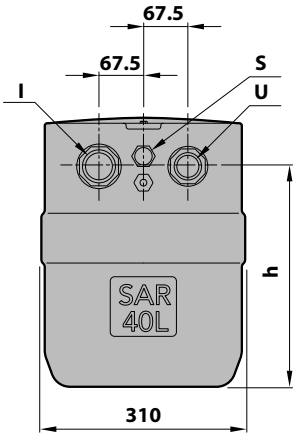
※ SAR 40 with vortex pumps

TYPE	POWER (P2) kW	HP	MAXIMUM FLOW RATE litres/min	PREVALENCE MAX metres	
TOP 2 VORTEX-GM	**0.37**	**0.50**	**155**	**7.0**	
TEX 2	**0.37**	**0.50**	**220**	**8.3**	

※ Suitable for dirty waste water

DIMENSIONS AND WEIGHT





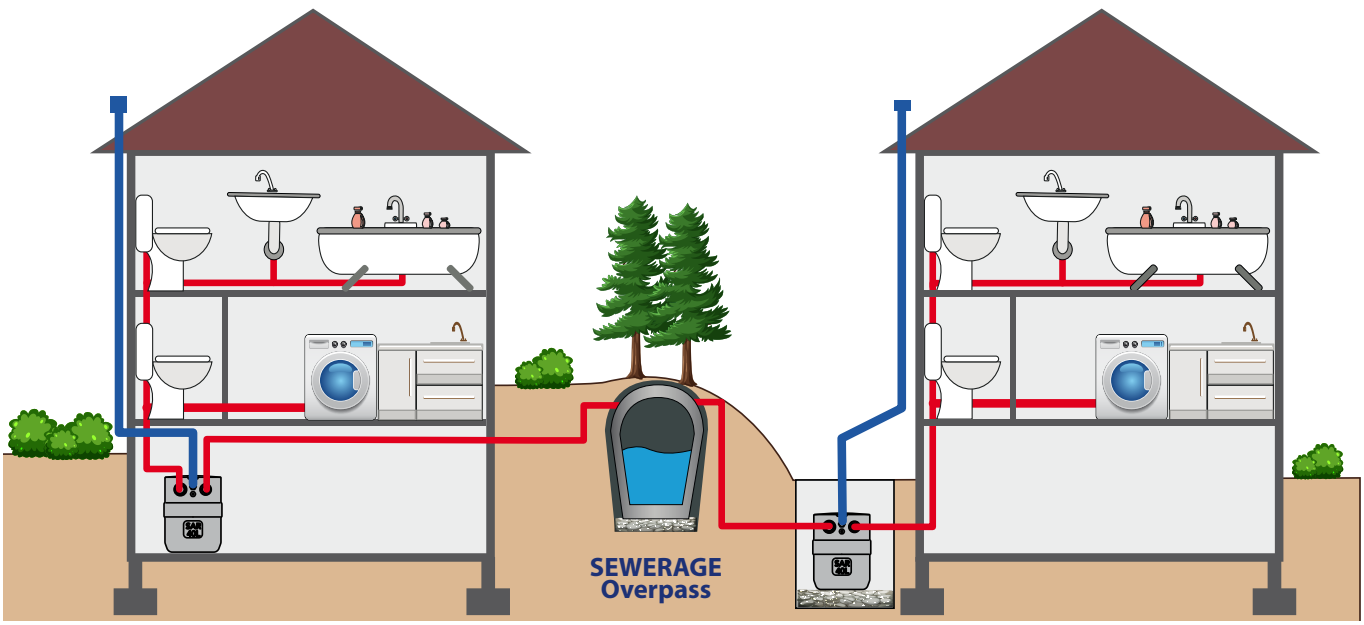
KEY:

I collection pipe connection
U discharge pipe connection
S ventilation pipe connection

TYPE	PORTS			h	kg
	I[1]	U[1]	S[1]		
SAR 40 - TRITUS-TX	1½"	1¼"	½"	335	15.9
SAR 40 - TOP 1-GM				305	14.3
SAR 40 - RXm 1-GM					15.2
SAR 40 - TOP 2 VORTEX-GM				335	14.4
SAR 40 - TEX 2					15.0

[1] Male threaded connection

EXAMPLES OF INSTALLATION



Surface installation **Underground installation**

SAR 100 Lift and collection stations



INSTALLATION AND USE

SAR 100 lift and collection stations are designed to handle clear water, rainwater, and wastewater from household drains like washing machines, dishwashers, sinks, and toilets, especially in situations where connection to the main sewer system is impractical or impossible due to distance or gravity constraints.

The **SAR 100** stations are compact and easy to install either on the floor or underground, both inside and outside of single or two-family homes.

COMPONENTS INCLUDED

※ **100 litres** polyethylene tank with a non-walkable and non-driveable cover.

※ Single-phase submersible pump.

※ Standard **10-metres** power cable.

※ Control panel (only for **SAR 100-TIGm 1.1** and **1.3**)

AVAILABLE UPON REQUEST

※ **SAR 100 lift station, equipped with a single-phase submersible pump with a float switch, based on your specific requirements**

※ SAR 100 with drainage pumps

TYPE	POWER (P2) kW	HP	MAXIMUM FLOW RATE litres/min	PREVALENCE MAX metres	
TOP 3	**0.55**	**0.75**	**260**	**10.0**	
RXm 3	**0.55**	**0.75**	**220**	**11.5**	
Dm 10	**0.75**	**1.0**	**300**	**15.5**	
Dm 20	**0.75**	**1.0**	**250**	**19.0**	

※ suitable for clear wastewater

※ SAR 100 with vortex pumps

TYPE	POWER (P2) kW	HP	MAXIMUM FLOW RATE litres/min	PREVALENCE MAX metres	
TOP 3-VORTEX	**0.55**	**0.75**	**170**	**8.2**	
RXm 3/20	**0.55**	**0.75**	**240**	**9.5**	
ZXm 2/30	**0.55**	**0.75**	**320**	**12.5**	
VXm 10/35	**0.75**	**1.0**	**400**	**10.0**	

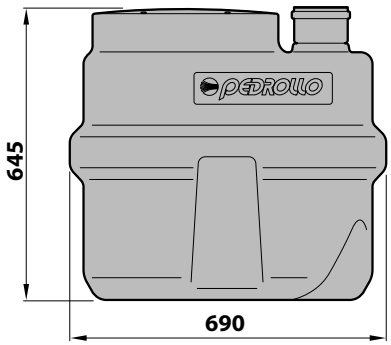
※ suitable for dirty waste water

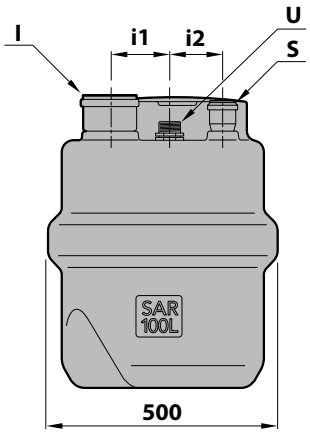
※ SAR 100 with grinder pumps (TRITUS)

TYPE	POWER (P_2) kW	POWER (P_2) HP	MAXIMUM FLOW RATE litres/min	PREVALENCE MAX metres	
TIGm 0.55	**0.55**	**0.75**	**130**	**14.5**	
TIGm 0.75	**0.75**	**1.0**	**140**	**17.5**	
TIGm 1.1	**1.1**	**1.5**	**150**	**22.5**	
TIGm 1.3	**1.3**	**1.75**	**250**	**20.5**	

※ **suitable for sewage water**

DIMENSIONS AND WEIGHT





KEY:

I collection pipe port
U discharge pipe connection
S ventilation pipe port

TYPE	PORTS I	PORTS U(1)	PORTS S	i1	I2	kg
SAR 100 - TOP 3	DN 110	1¼"	DN 50	145	100	29.0
SAR 100 - RXm 3		1¼"				29.9
SAR 100 - Dm 10		1½"				36.3
SAR 100 - Dm 20		1½"				36.3
SAR 100 - TOP 3-VORTEX		1¼"				29.1
SAR 100 - RXm 3/20		1¼"				30.0
SAR 100 - ZXm 2/30		1½"				33.1
SAR 100 - VXm 10/35		1½"				37.5
SAR 100 - TIGm 0.55		1½"				38.2
SAR 100 - TIGm 0.75		1½"				38.3
SAR 100 - TIGm 1.1		1½"				40.6
SAR 100 - TIGm 1.3		1½"				40.6

(1) Male threaded connection

SAR 250 Lift and collection stations



INSTALLATION AND USE

SAR 250 lift and collection stations are designed to handle clear water, rainwater, and wastewater from household and civil drains like washing machines, dishwashers, sinks, and toilets, especially in situations where connection to the main sewer system is impractical or impossible due to distance or gravity constraints.

SAR 250 stations are compact and easy to install, suitable for floor or underground placement, both indoors and outdoors of multi-unit buildings.

COMPONENTS INCLUDED

※ **SAR 250** polyethylene tank with a non-driveable cover that can support pedestrian traffic up to a maximum of 100 kg.

※ Single-phase submersible pump.

※ Control panel (only for **SAR 250-TIGm 1.1** and **1.3**).

※ Standard **10-metres** power cable.

AVAILABLE UPON REQUEST

※ **SAR 250 lift station, equipped with a single-phase submersible pump with a float switch, based on your specific requirements.**

※ Three-phase submersible pump

※ **Alarm kit** (Code: KSKIT-ALLARME) equipped with control panel, self-powered siren, and float

※ **300 mm extension kit** (Code No. KSKIT-308MA) for installing the "SAR" tank at greater depths

※ "SAR" Stations with check valve and ball valve in the discharge pipe.

※ SAR 250 with drainage pumps

TYPE	POWER (P2) kW	HP	MAXIMUM FLOW RATE litres/min	PREVALENCE MAX metres	
TOP 3	**0.55**	**0.75**	**260**	**10.0**	
TOP 4	**0.75**	**1.0**	**320**	**12.5**	
TOP 5	**0.92**	**1.25**	**360**	**15.0**	
RXm 3	**0.55**	**0.75**	**220**	**11.5**	
Dm 10	**0.75**	**1.0**	**300**	**15.5**	
Dm 20	**0.75**	**1.0**	**250**	**19.0**	
Dm 30	**1.1**	**1.5**	**275**	**26.0**	

※ suitable for clear wastewater

※ SAR 250 with VORTEX pumps

TYPE	POWER (P2) kW	HP	MAXIMUM FLOW RATE litres/min	PREVALENCE MAX metres	
RXm 3/20	**0.55**	**0.75**	**240**	**9.5**	
ZXm 2/40	**0.55**	**0.75**	**400**	**11**	
VXm 10/35	**0.75**	**1**	**400**	**10**	
VXm 15/35	**1.1**	**1.5**	**500**	**13.5**	
VXm 15/50	**1.1**	**1.5**	**650**	**11**	

※ suitable for dirty waste water

※ SAR 250 with grinder pumps (TRITUS)

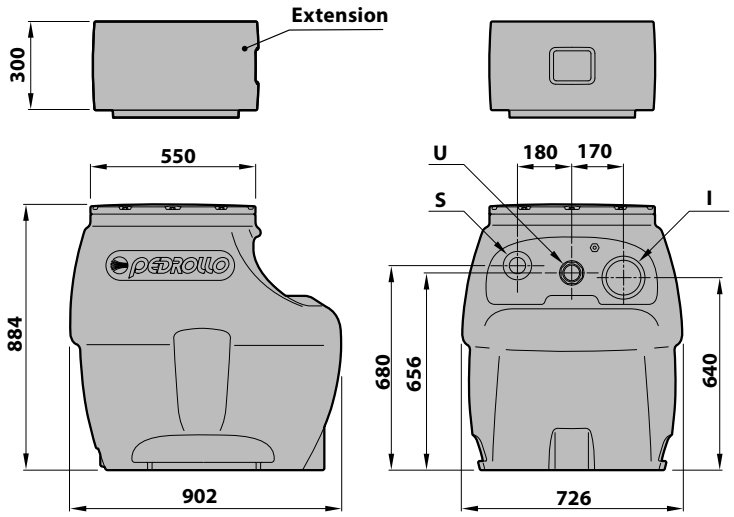
TYPE	POWER (P_2) kW	POWER (P_2) HP	MAXIMUM FLOW RATE litres/min	PREVALENCE MAX metres	
TIGm 0.75	**0.75**	**1.0**	**140**	**17.5**	
TIGm 1.1	**1.1**	**1.5**	**150**	**22.5**	
TIGm 1.3	**1.3**	**1.75**	**250**	**20.5**	

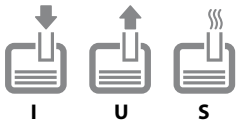
※ suitable for sewage water

DIMENSIONS AND WEIGHT

TYPE	PORTS I	PORTS U(1)	PORTS S	kg
SAR 250 - TOP 3	DN 110	1¼"	DN 50	49.7
SAR 250 - TOP 4		1½"		53.3
SAR 250 - TOP 5		1½"		54.3
SAR 250 - RXm 3		1¼"		50.6
SAR 250 - Dm 10		1½"		57.0
SAR 250 - Dm 20		1½"		57.0
SAR 250 - Dm 30		1½"		60.4
SAR 250 - RXm 3/20		1¼"		50.7
SAR 250 - ZXm 2/40		1½"		53.8
SAR 250 - VXm 10/35		1½"		58.2
SAR 250 - VXm 15/35		1½"		61.0
SAR 250 - VXm 15/50		2"		61.5
SAR 250 - TIGm 0.75		1½"		59.0
SAR 250 - TIGm 1.1		1½"		61.3
SAR 250 - TIGm 1.3		1½"		61.3

(1) Male threaded connection





KEY:
I collection pipe port
U discharge pipe connection
S ventilation pipe port

SAR 550 Lift and collection stations



INSTALLATION AND USE

The **SAR 550** lift and collection stations are designed to handle clear water, rainwater, or dirty water from civil and industrial drains, where the sewer network is too far away or not accessible by gravity.
The **SAR 550** stations are compact and easy to install on the floor or underground, both indoors and outdoors of residential buildings, offices, public establishments, courtyards, and parking facilities, for sewage or rainwater disposal.

COMPONENTS INCLUDED

※ **550 litres** polyethylene tank with a non-driveable cover that can support pedestrian traffic up to a maximum of 100 kg.
※ **Two single-phase pumps (without float switches) pre-installed and already connected to a control panel.**
※ Standard **10-metres** power cable .
※ Control panel (**E2** model).
※ Three float switches with the following functions:
1) Alternating activation of one of the two pumps
2) Activation of the second pump at maximum level
3) Shutdown of the pump at minimum level

AVAILABLE UPON REQUEST

※ **SAR 550 lift station, equipped with two single-phase pumps, based on your specific requirements.**
※ **Three-phase submersible pump.**

OPTIONAL

※ **Alarm kit** (Code: KSKIT-ALLARME) equipped with control panel, self-powered siren, and float
※ **300 mm extension kit** (Code No. KSKIT-308MA) for installing the "SAR" tank at greater depths
※ "SAR" Stations with check valve and ball valve in the discharge pipe

※ SAR 550 with drainage pumps

TYPE	POWER (P_2) kW	POWER (P_2) HP	MAXIMUM FLOW RATE [1] pump litres/min	PREVALENCE MAX metres	
TOP 4	**0.75**	**1**	**320**	**12.5**	
TOP 5	**0.92**	**1.25**	**360**	**15**	
Dm 10	**0.75**	**1**	**300**	**15.5**	
Dm 20	**0.75**	**1**	**250**	**19**	
Dm 30	**1.1**	**1.5**	**275**	**26**	

※ suitable for clear wastewater

※ SAR 550 with VORTEX pumps

TYPE	POWER (P_2) kW	POWER (P_2) HP	MAXIMUM FLOW RATE [1] pump litres/min	PREVALENCE MAX metres	
VXm 10/35	**0.75**	**1**	**400**	**10**	
VXm 15/35	**1.1**	**1.5**	**500**	**13.5**	
VXm 10/50	**0.75**	**1**	**550**	**8.5**	
VXm 15/50	**1.1**	**1.5**	**650**	**11**	
BCm 10/50	**0.75**	**1**	**600**	**11**	
BCm 15/50	**1.1**	**1.5**	**750**	**14**	

※ suitable for dirty waste water

※ SAR 550 with grinder pumps (TRITUS)

TYPE	POWER (P2) kW	POWER (P2) HP	MAXIMUM FLOW RATE [1] pump litres/min	PREVALENCE MAX metres	
TIGm 0.75	**0.75**	**1**	**140**	**17.5**	
TRm 0.9	**0.9**	**1.25**	**170**	**15**	
TRm 1.1	**1.1**	**1.5**	**140**	**21.5**	
TRm 1.3	**1.3**	**1.75**	**220**	**22.5**	
TRm 1.5	**1.5**	**2**	**270**	**25**	

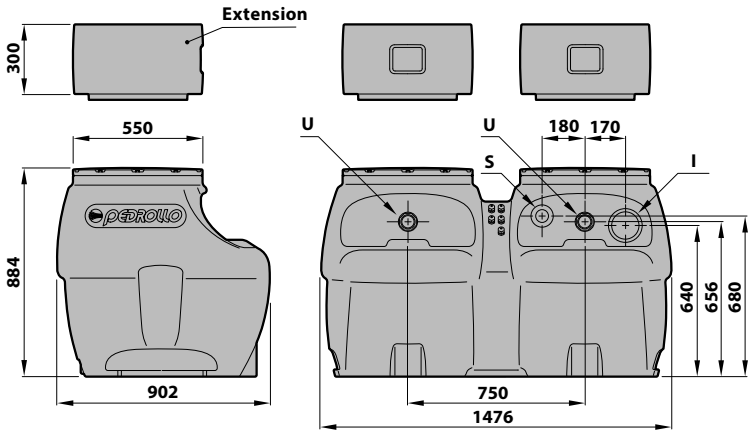
※ suitable for sewage water

(*) On request "SAR" stations with coupling feet and guide pipes for pump descent

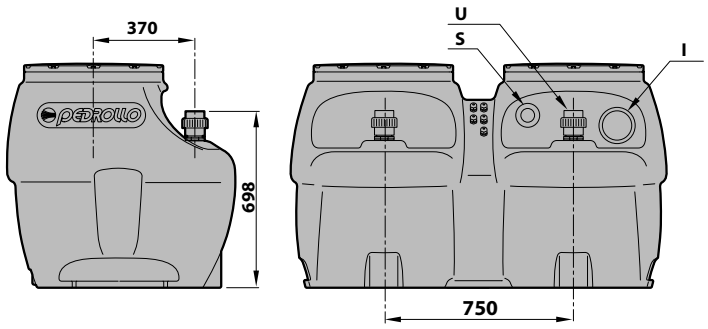
DIMENSIONS AND WEIGHT

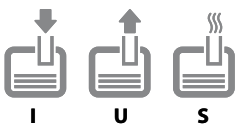
TYPE	PORTS I	PORTS U(1)	PORTS S	kg
SAR 550 - TOP 4	DN 110	1½"	DN 50	109.0
SAR 550 - TOP 5		1½"		110.9
SAR 550 - Dm 10		1½"		116.4
SAR 550 - Dm 20		1½"		116.4
SAR 550 - Dm 30		1½"		123.2
SAR 550 - VXm 10/35		1½"	DN 75	118.8
SAR 550 - VXm 15/35		1½"		124.4
SAR 550 - VXm 10/50		2		119.8
SAR 550 - VXm 15/50		2		125.4
SAR 550 - BCm 10/50		2		120.8
SAR 550 - BCm 15/50		2		126.0
SAR 550 - TIGm 0.75		1½"	DN 50	120.4
SAR 550 - TRm 0.9		1¼"		136.4
SAR 550 - TRm 1.1		1¼"		139.7
SAR 550 - TRm 1.3		1¼"		139.4
SAR 550 - TRm 1.5		1½"		178.4

(1) Male threaded connection



Only for TR versions with coupling feet





KEY:

I collection pipe port

U discharge pipe connection

S ventilation pipe port