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تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبروی پالایشگاه نفت پارس، پلاک ۱۲

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

VX-I "VORTEX"

Submersible pumps

for sewage water

PERFORMANCE RANGE

- Flow rate up to **400 l/min** (24 m³/h)
- Head up to **10 m**

APPLICATION LIMITS

- **5 m** maximum immersion depth
- Maximum liquid temperature **+40 °C**
- Solids passage:
  – up to **Ø 40 mm** for VX8/35I - VX10/35I
  – up to **Ø 50 mm** for VX8/50I - VX10/50I
- Minimum immersion depth for continuous service:
  – **270 mm** for VX8/35I - VX10/35I
  – **300 mm** for VX8/50I - VX10/50I

CONSTRUCTION AND SAFETY STANDARDS

- Complete with **5 m** long power cable
- Float switch for single-phase versions

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

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

CE

CERTIFICATIONS

CERTIFIED QUALITY MANAGEMENT SYSTEM ISO 9001:2008 SINCERT DNV

АИ30

УкрТЕСТ - 003

INSTALLATION AND USE

Suitable for use with **sewage water** in domestic, civil and industrial applications or in any other situation, such as with water mixed with mud, with groundwater and with surface water, where the water contains suspended solids. They are suitable for use in applications such as for draining flooded areas such as cellars, underground car parks, car washes, for emptying cesspools and for sewage disposal. These pumps distinguish themselves for their reliability, which can be best appreciated under automatic operating conditions in fixed installations.

PATENTS - TRADE MARKS - MODELS

- Patent pending n° BO2008A000494, BO2008A000496

OPTIONALS AVAILABLE ON REQUEST

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

GUARANTEE

2 years subject to terms and conditions

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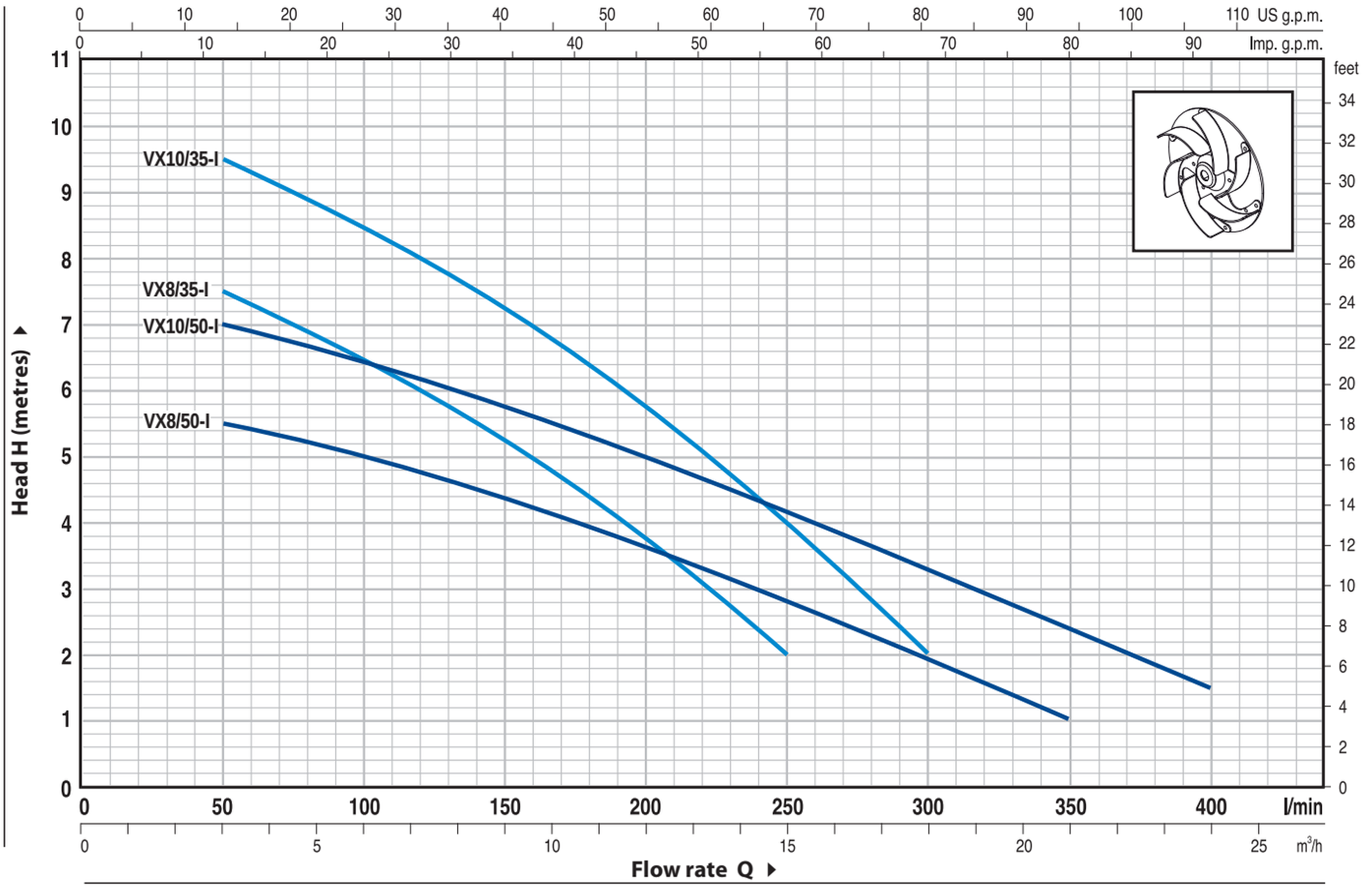
CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 1/min



MODEL		POWER		Q									
Single-phase	Three-phase	kW	HP	m³/h	0	3	6	9	12	15	18	21	24
				l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**	**350**	**400**
VXm 8/35-I	–	0.55	0.75	H metres	8.4	7.5	6.5	5.2	3.7	2			
VXm 10/35-I	**VX 10/35-I**	0.75	1		10	9.5	8.5	7.2	5.8	4	2		
VXm 8/50-I	–	0.55	0.75		6	5.5	5	4.4	3.6	2.8	2	1	
VXm 10/50-I	**VX 10/50-I**	0.75	1		7.5	7	6.5	5.8	5	4	3.2	2.4	1.5

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

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

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POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS
1	**PUMP BODY**	Stainless steel AISI 304, with threaded port in compliance with ISO 228/1
2	**BASE**	Stainless steel AISI 304
3	**IMPELLER**	Stainless steel AISI 304 VORTEX type
4	**MOTOR CASING**	Stainless steel AISI 304
5	**MOTOR CASING PLATE**	Stainless steel AISI 304
6	**MOTOR SHAFT**	Stainless steel AISI 431

7 SHAFT WITH DOUBLE SEAL AND OIL CHAMBER

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

8 LIP SEAL — **Ø 15** x **Ø 24** x **H 5** mm

9 BEARINGS — **6203 ZZ / 6203 ZZ**

10 CAPACITOR

Pump	*Capacitance*	
Single-phase	*(230 V or 240 V)*	*(110 V)*
VXm 8/35-I **VXm 8/50-I** **VXm 10/35-I** **VXm 10/50-I**	**20** µF 450 VL	**30** µF 250 VL

11 ELECTRIC MOTOR

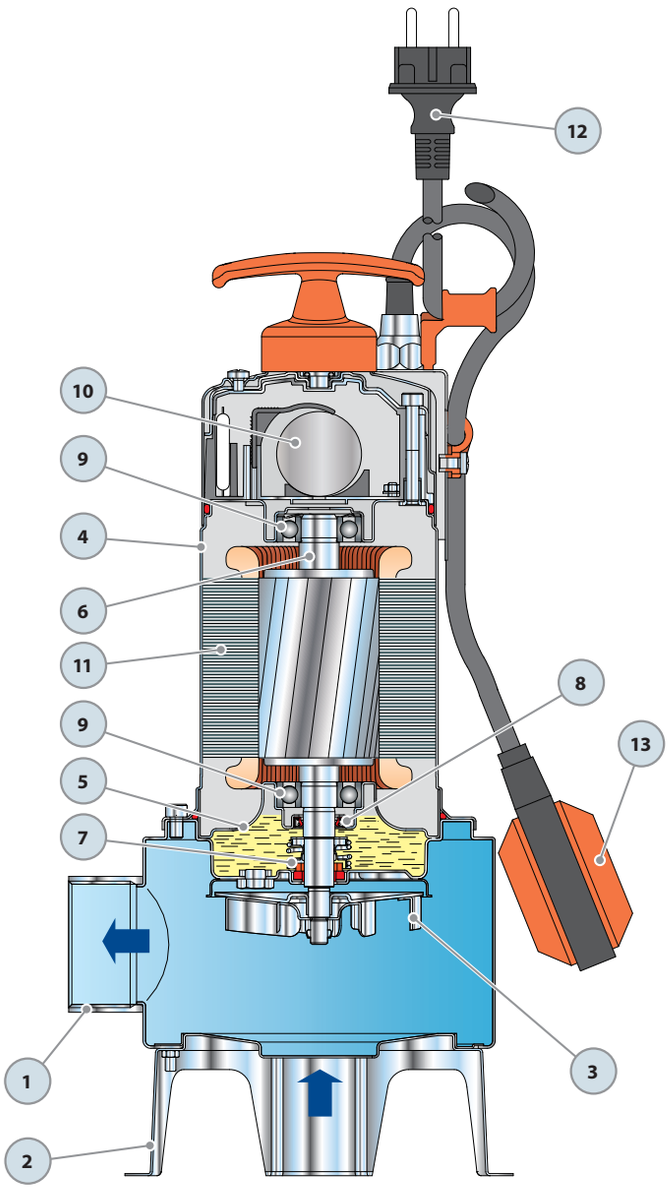
– Single-phase 230 V - 50 Hz
with thermal overload protector built-in to the winding
– Three-phase 400 V - 50 Hz
– Insulation: F class
– Protection: IP 68

12 POWER CABLE

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

13 FLOAT SWITCH

(only for single-phase versions)



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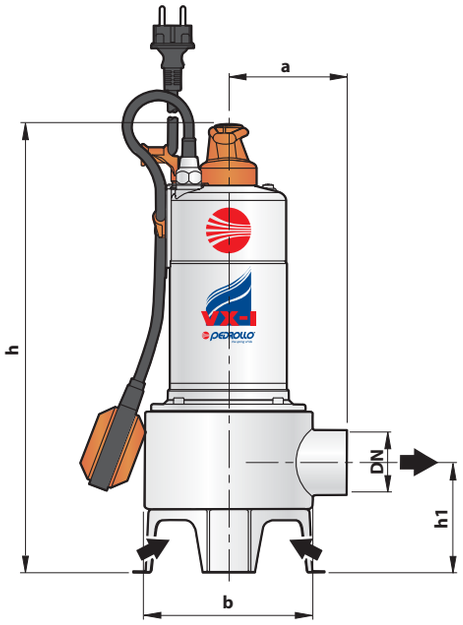
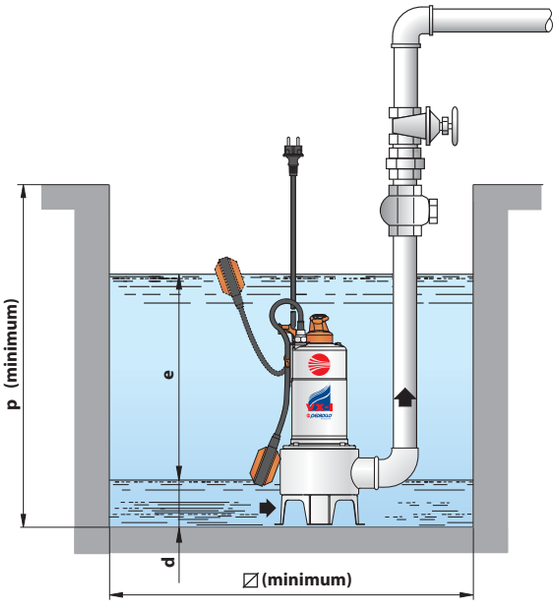
DIMENSIONS AND WEIGHT



Typical installation



MODEL		PORT	solids passage	DIMENSIONS mm								kg	
Single-phase	Three-phase	DN		a	b	h	h1	d	e	p	⍁	1~	3~
VXm 8/35-I	–	1½"	Ø 40 mm	108	166	404	87	50	variable	500	500	**9.5**	–
VXm 10/35-I	VX 10/35-I											**10.8**	**9.3**
VXm 8/50-I	–	2"	Ø 50 mm	118		434	108	60				**9.4**	–
VXm 10/50-I	VX 10/50-I											**10.6**	**9.2**

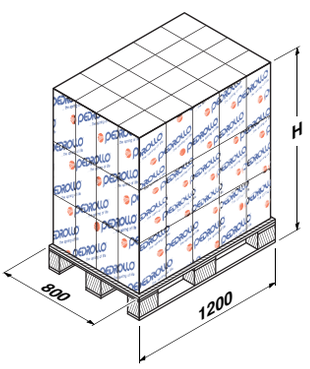
ABSORPTION

MODEL	VOLTAGE (single-phase)		
Single-phase	230 V	240 V	110 V
VXm 8/35-I	**3.3** A	**3.3** A	**7.6** A
VXm 10/35-I	**5.0** A	**5.0** A	**11.5** A
VXm 8/50-I	**3.5** A	**3.5** A	**8.0** A
VXm 10/50-I	**5.0** A	**5.0** A	**11.5** A

MODEL	VOLTAGE (three-phase)			
Three-phase	230 V	400 V	240 V	415 V
VX 10/35-I	**3.6** A	**2.1** A	**3.6** A	**2.1** A
VX 10/50-I	**3.6** A	**2.1** A	**3.6** A	**2.1** A

PALLETIZATION

MODEL		GROUPAGE				CONTAINER			
		n°	H	kg		n°	H	kg	
Single-phase	Three-phase	pumps	(mm)	1~	3~	pumps	(mm)	1~	3~
VXm 8/35-I	–	**60**	1520	588	–	**80**	1980	778	–
VXm 10/35-I	VX 10/35-I	**60**	1520	662	576	**80**	1980	877	762
VXm 8/50-I	–	**60**	1520	579	–	**80**	1980	766	–
VXm 10/50-I	VX 10/50-I	**60**	1520	652	569	**80**	1980	864	753



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VX "VORTEX"

Submersible pumps

for sewage water

PERFORMANCE RANGE

- Flow rate up to **500 l/min** (30 m^3/h)
- Head up to **15 m**

APPLICATION LIMITS

- **5 m** maximum immersion depth
- Maximum liquid temperature **+40 °C**
- Solids passage:
  – up to **Ø 40 mm** for VX8-10-15/35
  – up to **Ø 50 mm** for VX8-10-15/50
- Minimum immersion depth for continuous service:
  – **290 mm** for VX8-10-15/35
  – **320 mm** for VX8-10-15/50

CONSTRUCTION AND SAFETY STANDARDS

- Complete with **5 m** long power cable
- VXm versions complete with float switch

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

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

CE

CERTIFICATIONS

CERTIFIED QUALITY MANAGEMENT SYSTEM ISO 9001:2008 SINCERT DNV

АИ30

УкрТЕСТ - 003

INSTALLATION AND USE

Suitable for use in domestic, civil and industrial applications where the water, such as **groundwater, surface water and sewage water**, contains suspended solids up to Ø 50 mm.
They are suitable for use in applications such as for draining flooded areas such as cellars, underground car parks, car washes, for emptying cesspools and for sewage disposal.
These pumps distinguish themselves for their reliability, which can be best appreciated under automatic operating conditions in fixed installations.

PATENTS - TRADE MARKS - MODELS

- Patent pending n° BO2008A000494, BO2008A000496

OPTIONALS AVAILABLE ON REQUEST

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

GUARANTEE

2 years subject to terms and conditions

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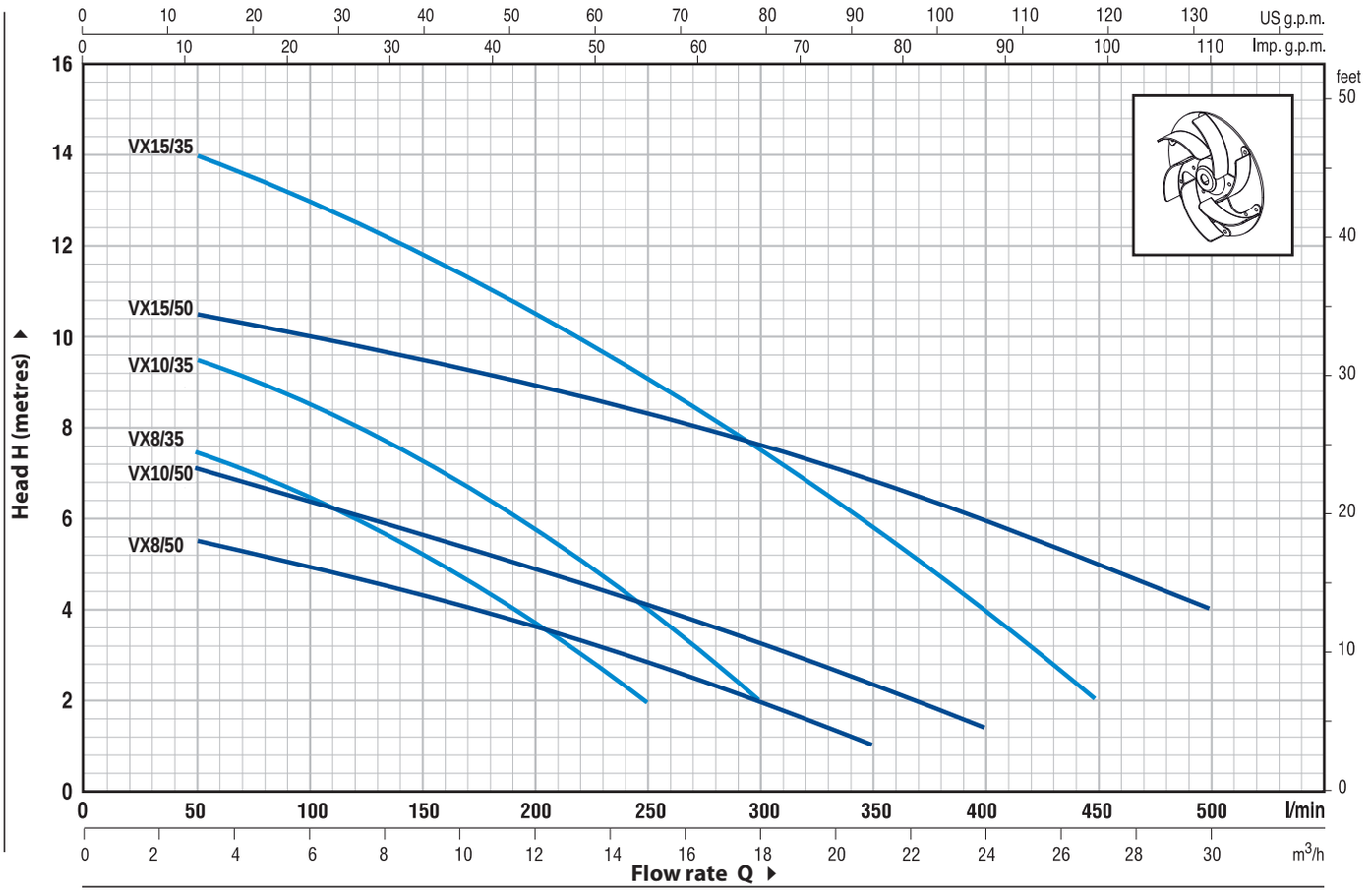
CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 1/min



MODEL		POWER		Q	m³/h	0	3	6	9	12	15	18	21	24	27	30
Single-phase	Three-phase	kW	HP		l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**
VXm 8/35	–	0.55	0.75	H	metres	8.4	7.5	6.5	5.2	3.7	2					
VXm 10/35	**VX 10/35**	0.75	1			10	9.5	8.5	7.2	5.8	4	2				
VXm 15/35	**VX 15/35**	1.1	1.5			15	14	13	11.8	10.5	9	7.5	6	4	2	
VXm 8/50	–	0.55	0.75			6	5.5	5	4.4	3.6	2.8	2	1			
VXm 10/50	**VX 10/50**	0.75	1			7.5	7	6.5	5.8	5	4	3.2	2.4	1.5		
VXm 15/50	**VX 15/50**	1.1	1.5			11	10.5	10	9.5	9	8.3	7.5	6.8	6	5	4

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

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

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS
1	**PUMP BODY**	Cast iron, with threaded port in compliance with ISO 228/1
2	**BASE**	Stainless steel AISI 304
3	**IMPELLER**	Stainless steel AISI 304 VORTEX type
4	**MOTOR CASING**	Stainless steel AISI 304
5	**MOTOR CASING PLATE**	Stainless steel AISI 304
6	**MOTOR SHAFT**	Stainless steel EN 10088-3 - 1.4104

7 SHAFT WITH DOUBLE SEAL AND OIL CHAMBER

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

8 LIP SEAL

Ø 15 x **Ø 24** x **H 5** mm for VX 8-10/35-50
Ø 16 x **Ø 24** x **H 5** mm for VX 15/35-50

9 BEARINGS **6203 ZZ / 6203 ZZ**

10 CAPACITOR

Pump	*Capacitance*	
Single-phase	*(230 V or 240 V)*	*(110 V)*
VXm 8/35 **VXm 8/50** **VXm 10/35** **VXm 10/50**	**20** µF 450 VL	**30** µF 250 VL
VXm 15/35 **VXm 15/50**	**25** µF 450 VL	–

11 ELECTRIC MOTOR

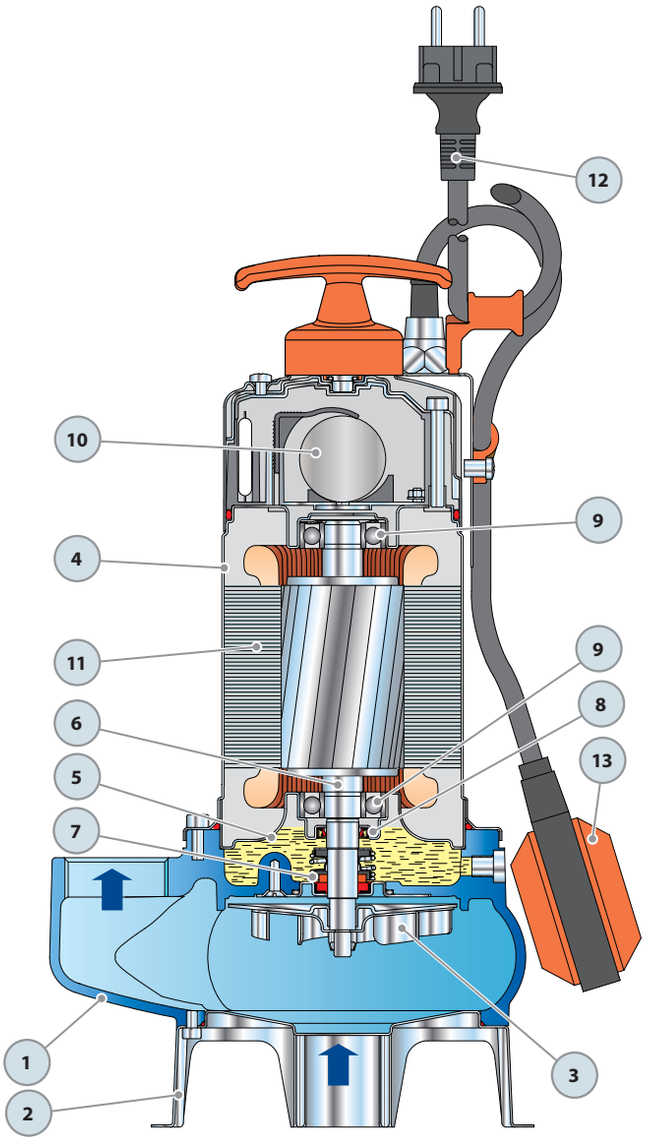
– Single-phase 230 V - 50 Hz
with thermal overload protector built-in to the winding
– Three-phase 400 V - 50 Hz
– Insulation: F class
– Protection: IP 68

12 POWER CABLE

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

13 FLOAT SWITCH

(only for single-phase versions)



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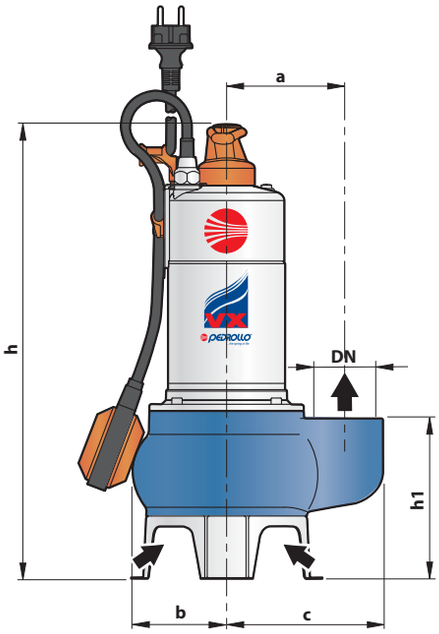
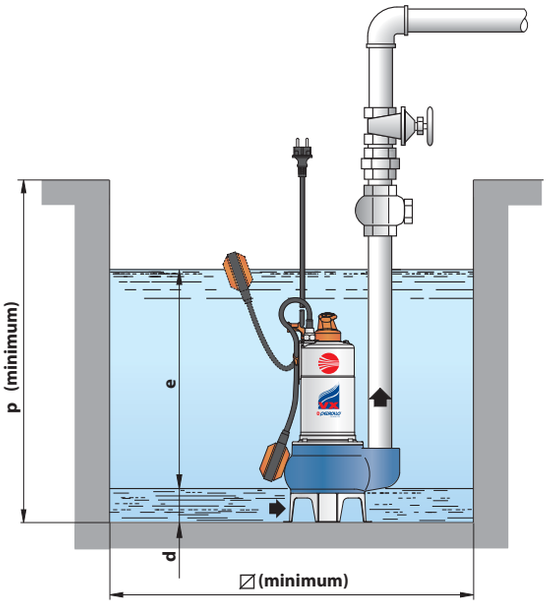
DIMENSIONS AND WEIGHT



Typical installation



MODEL		PORT	solids passage	DIMENSIONS mm									kg	
Single-phase	Three-phase	DN		a	b	c	h	h1	d	e	p	⍁	1~	3~
VXm 8/35	–	1½"	Ø 40 mm	105	92	136	408	125	50	variable	500	500	**12.4**	–
VXm 10/35	VX 10/35												**13.3**	**12.1**
VXm 15/35	VX 15/35			110		143	429	130					**16.3**	**15.0**
VXm 8/50	–	2"	Ø 50 mm			150	437	153	60				**12.9**	–
VXm 10/50	VX 10/50												**13.9**	**12.1**
VXm 15/50	VX 15/50			115	97	157	458	159					**17.0**	**15.6**

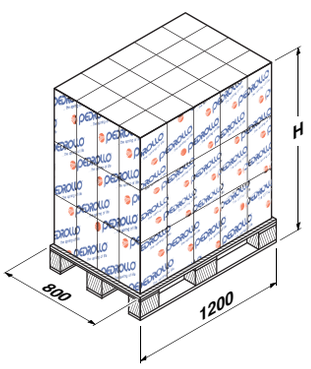
ABSORPTION

MODEL	VOLTAGE (single-phase)		
Single-phase	230 V	240 V	110 V
VXm 8/35	**3.3** A	**3.3** A	**7.6** A
VXm 10/35	**5.0** A	**5.0** A	**11.5** A
VXm 15/35	**6.7** A	**6.7** A	–
VXm 8/50	**3.5** A	**3.5** A	**8.0** A
VXm 10/50	**5.0** A	**5.0** A	**11.5** A
VXm 15/50	**7.1** A	**7.1** A	–

MODEL	VOLTAGE (three-phase)			
Three-phase	230 V	400 V	240 V	415 V
VX 10/35	**3.6** A	**2.1** A	**3.6** A	**2.1** A
VX 15/35	**5.4** A	**3.1** A	**5.4** A	**3.1** A
VX 10/50	**3.6** A	**2.1** A	**3.6** A	**2.1** A
VX 15/50	**5.4** A	**3.1** A	**5.4** A	**3.1** A

PALLETIZATION

MODEL		GROUPAGE				CONTAINER			
		n°	H	kg		n°	H	kg	
Single-phase	Three-phase	pumps	(mm)	1~	3~	pumps	(mm)	1~	3~
VXm 8/35	–	**60**	1520	761	–	**80**	1980	1009	–
VXm 10/35	VX 10/35	**60**	1520	815	744	**80**	1980	1081	987
VXm 15/35	VX 15/35	**45**	1574	748	692	**60**	2052	992	917
VXm 8/50	–	**60**	1520	791	–	**80**	1980	1049	–
VXm 10/50	VX 10/50	**60**	1520	851	744	**80**	1980	1129	986
VXm 15/50	VX 15/50	**45**	1574	780	718	**60**	2052	1034	952



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VX-F "VORTEX"

Pump with flanged port

➠ *for sewage water*

PERFORMANCE RANGE

- Flow rate up to **400 l/min** (24 m^3/h)
- Head up to **7.5 m**

APPLICATION LIMITS

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

CONSTRUCTION AND SAFETY STANDARDS

- Complete with **5 m** long power cable
- Float switch for single-phase versions

➠ **The "CF" delivery elbow is available separately**

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

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

CE

CERTIFICATIONS

CERTIFIED QUALITY MANAGEMENT SYSTEM ISO 9001:2008 SINCERT DNV

INSTALLATION AND USE

Suitable for use in domestic, civil and industrial applications where the water, such as **groundwater, surface water and sewage water**, contains suspended solids up to Ø 50 mm.
They are suitable for use in applications such as for draining flooded areas such as cellars, underground car parks, car washes, for emptying cesspools and for sewage disposal.
These pumps distinguish themselves for their reliability, which can be best appreciated under automatic operating conditions in fixed installations.

PATENTS - TRADE MARKS - MODELS

- Patent pending n° BO2008A000494, BO2008A000496

OPTIONALS AVAILABLE ON REQUEST

- **"CF" Delivery kit - discharge elbow with bolts and seal.**
- Pumps with a **10 m** long power cable
  - ➠ N.B. Standard EN 60335-2-41 states that the power cable must be 10 m long for outdoor applications
- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

GUARANTEE

2 years subject to terms and conditions

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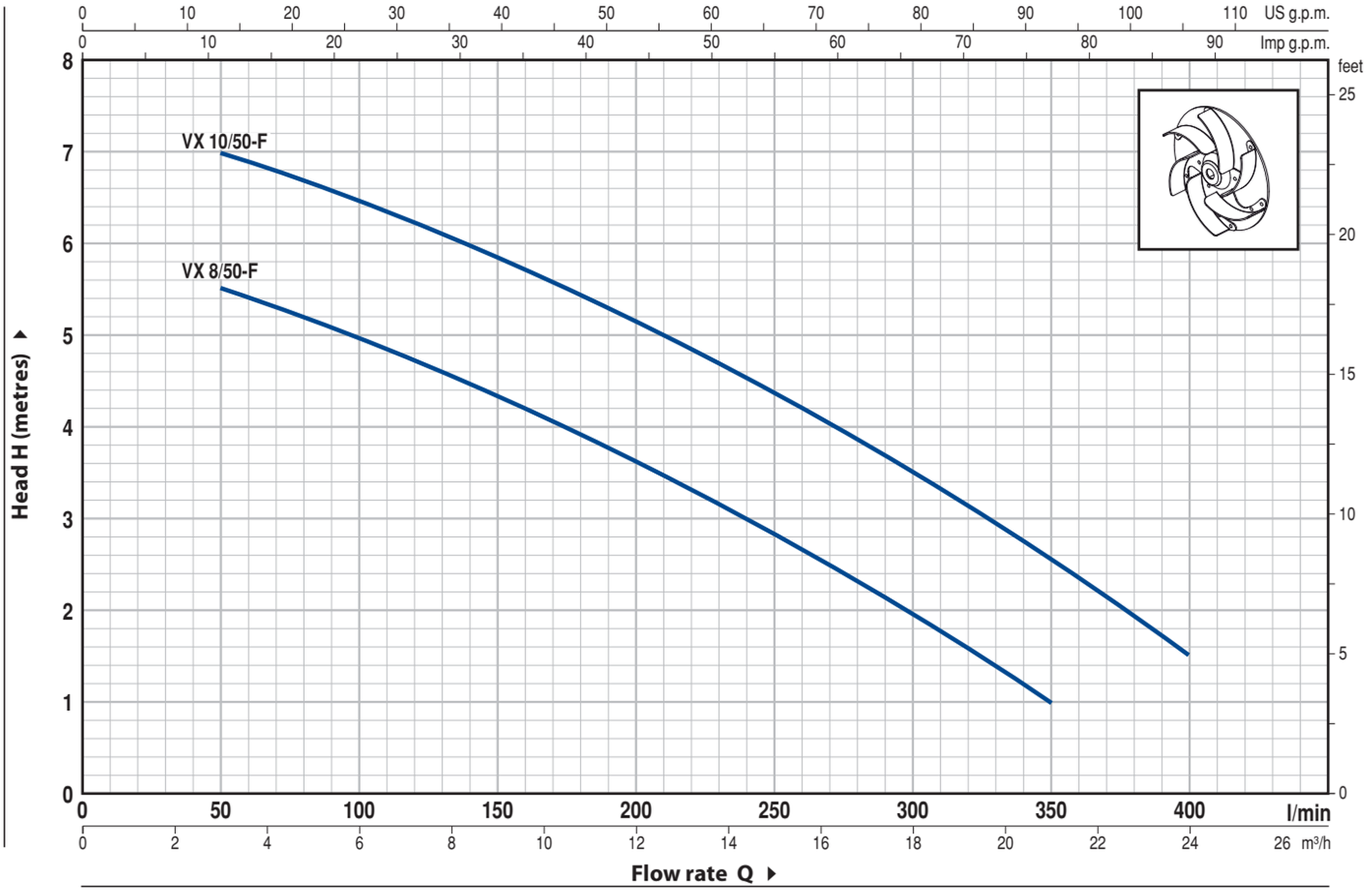
روبروی پالایشگاه نفت پارس، پلاک ۱۲

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 1/min



MODEL		POWER		Q									
Single-phase	Three-phase	kW	HP	m³/h	0	3	6	9	12	15	18	21	24
				l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**	**350**	**400**
VXm 8/50-F	–	0.55	0.75	H metres	6	5.5	5	4.4	3.6	2.8	2	1	
VXm 10/50-F	**VX 10/50-F**	0.75	1		7.5	7	6.5	5.8	5	4	3.2	2.4	1.5

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

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

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VX-F "VORTEX"

POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS
1	**PUMP BODY**	Cast iron, complete with flanged port
2	**BASE**	Stainless steel AISI 304
3	**IMPELLER**	Stainless steel AISI 304 VORTEX type
4	**MOTOR CASING**	Stainless steel AISI 304
5	**MOTOR CASING PLATE**	Stainless steel AISI 304
6	**MOTOR SHAFT**	Stainless steel EN 10088-3 - 1.4104
7	**SHAFT WITH DOUBLE SEAL AND OIL CHAMBER**	

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

8	**LIP SEAL**	**Ø 15** x **Ø 24** x **H 5** mm
9	**BEARINGS**	**6203 ZZ / 6203 ZZ**

10 CAPACITOR

Pump	*Capacitance*	
Single-phase	*(230 V or 240 V)*	*(110 V)*
VXm 8/50-F **VXm 10/50-F**	**20** µF 450 VL	**30** µF 250 VL

11 ELECTRIC MOTOR

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

12 POWER CABLE

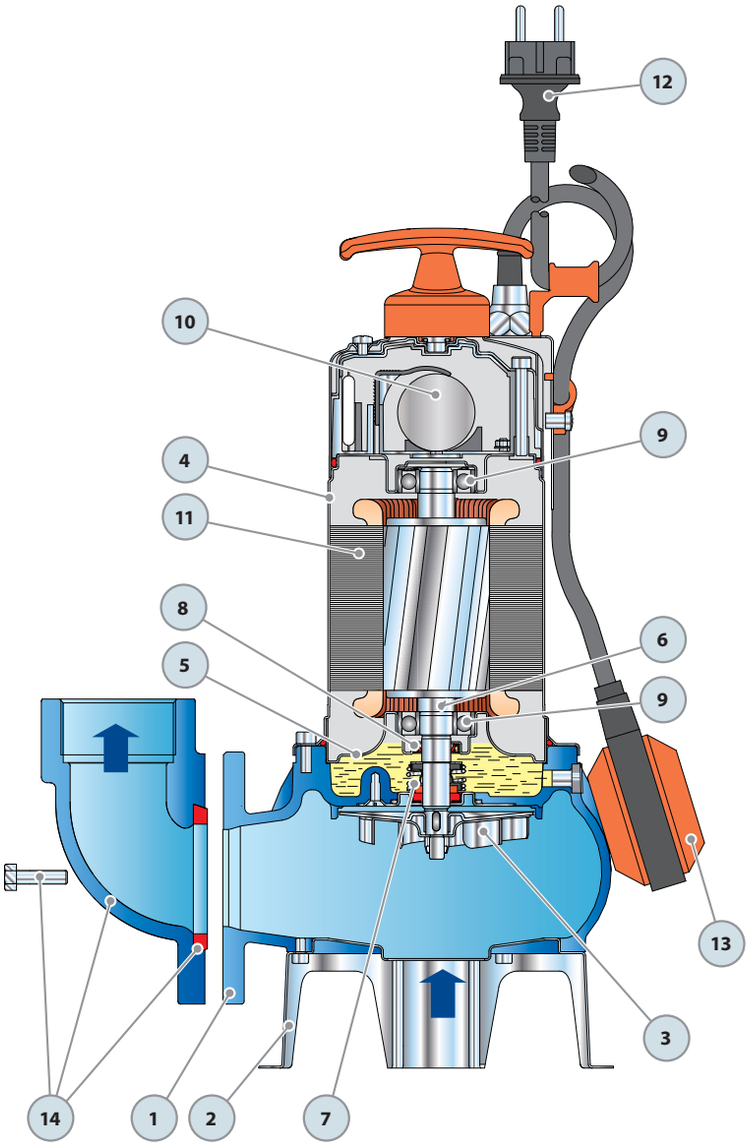
5 metre long "H07 RN-F" cable
(with Schuko plug on single-phase versions only)

13 FLOAT SWITCH

(only for single-phase versions)

14 "CF" CURVED DELIVERY KIT

Complete with:
– cast iron flanged curved delivery attachment
– seal
– stainless steel screws



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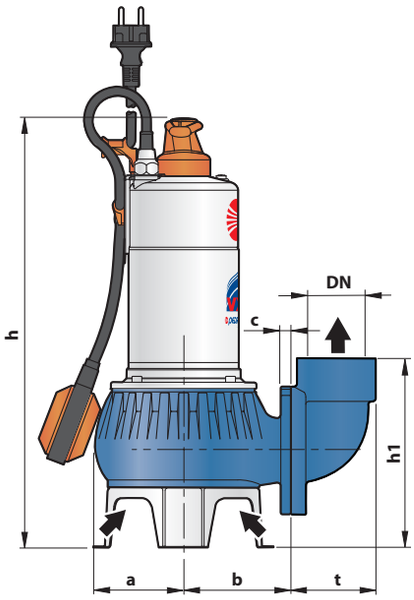
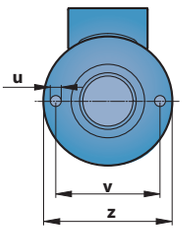
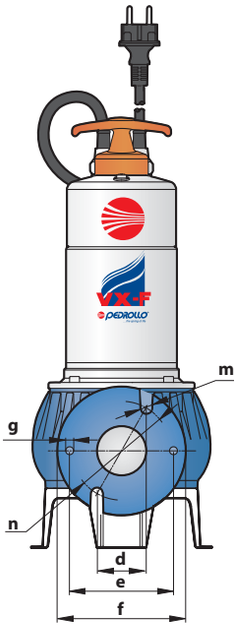
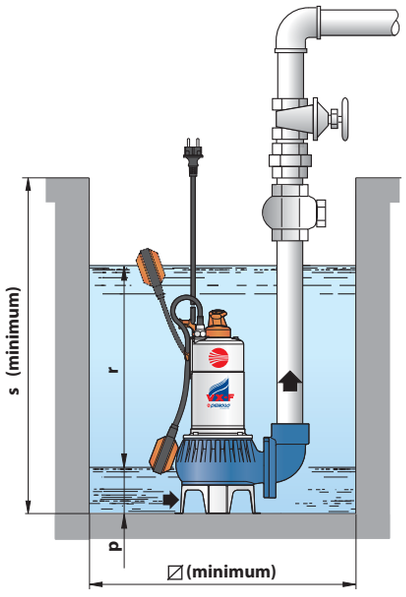
DIMENSIONS AND WEIGHT







Typical installation



MODEL		solids passage	DIMENSIONS mm														kg	
Single-phase	Three-phase		a	b	c	d	e	f	g	h	m	n	p	r	s	⍁	1~	3~
VXm 8/50-F	–	**Ø 50** mm	90	110	11	50	105	130	M10	437	12	100	60	variable	500	500	**13.4**	**–**
VXm 10/50-F	VX 10/50-F																**14.6**	**13.3**

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

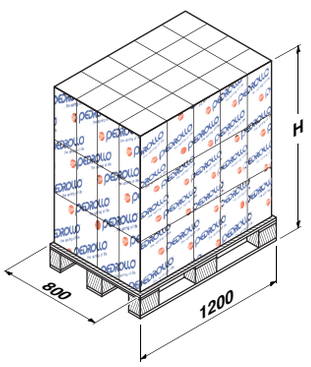
ABSORPTION

MODEL	VOLTAGE (single-phase)		
Single-phase	230 V	240 V	110 V
VXm 8/50-F	**3.5** A	**3.5** A	**8.0** A
VXm 10/50-F	**5.0** A	**5.0** A	**11.5** A

MODEL	VOLTAGE (three-phase)			
Three-phase	230 V	400 V	240 V	415 V
VX 10/50-F	**3.6** A	**2.1** A	**3.6** A	**2.1** A

PALLETIZATION

MODEL		GROUPAGE				CONTAINER			
		n°	H	kg		n°	H	kg	
Single-phase	Three-phase	pumps	(mm)	1~	3~	pumps	(mm)	1~	3~
VXm 8/50-F	–	**60**	1520	821	**–**	**80**	1980	1089	**–**
VXm 10/50-F	VX 10/50-F	**60**	1520	893	815	**80**	1980	1185	1081



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VX-F "VORTEX"

Pump with flanged port

➠ *for sewage water*

PERFORMANCE RANGE

- Flow rate up to **400 l/min** (24 m^3/h)
- Head up to **7.5 m**

APPLICATION LIMITS

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

CONSTRUCTION AND SAFETY STANDARDS

- Complete with **5 m** long power cable
- Float switch for single-phase versions

➠ **The "CF" delivery elbow is available separately**

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

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

CE

CERTIFICATIONS

CERTIFIED QUALITY MANAGEMENT SYSTEM ISO 9001:2008 SINCERT DNV

INSTALLATION AND USE

Suitable for use in domestic, civil and industrial applications where the water, such as **groundwater, surface water and sewage water**, contains suspended solids up to Ø 50 mm.
They are suitable for use in applications such as for draining flooded areas such as cellars, underground car parks, car washes, for emptying cesspools and for sewage disposal.
These pumps distinguish themselves for their reliability, which can be best appreciated under automatic operating conditions in fixed installations.

PATENTS - TRADE MARKS - MODELS

- Patent pending n° BO2008A000494, BO2008A000496

OPTIONALS AVAILABLE ON REQUEST

- **"CF" Delivery kit - discharge elbow with bolts and seal.**
- Pumps with a **10 m** long power cable
  - ➠ N.B. Standard EN 60335-2-41 states that the power cable must be 10 m long for outdoor applications
- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

GUARANTEE

2 years subject to terms and conditions

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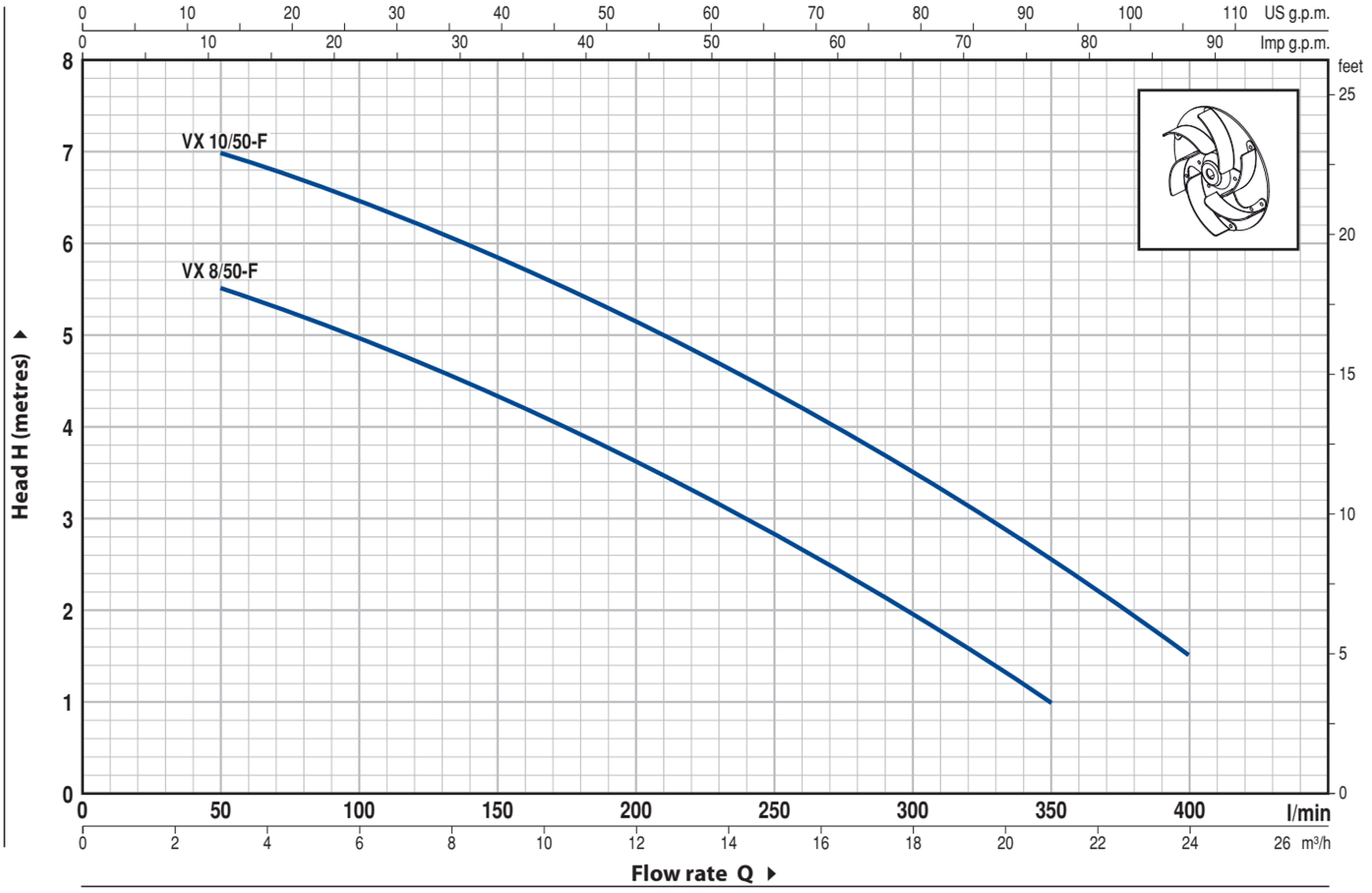

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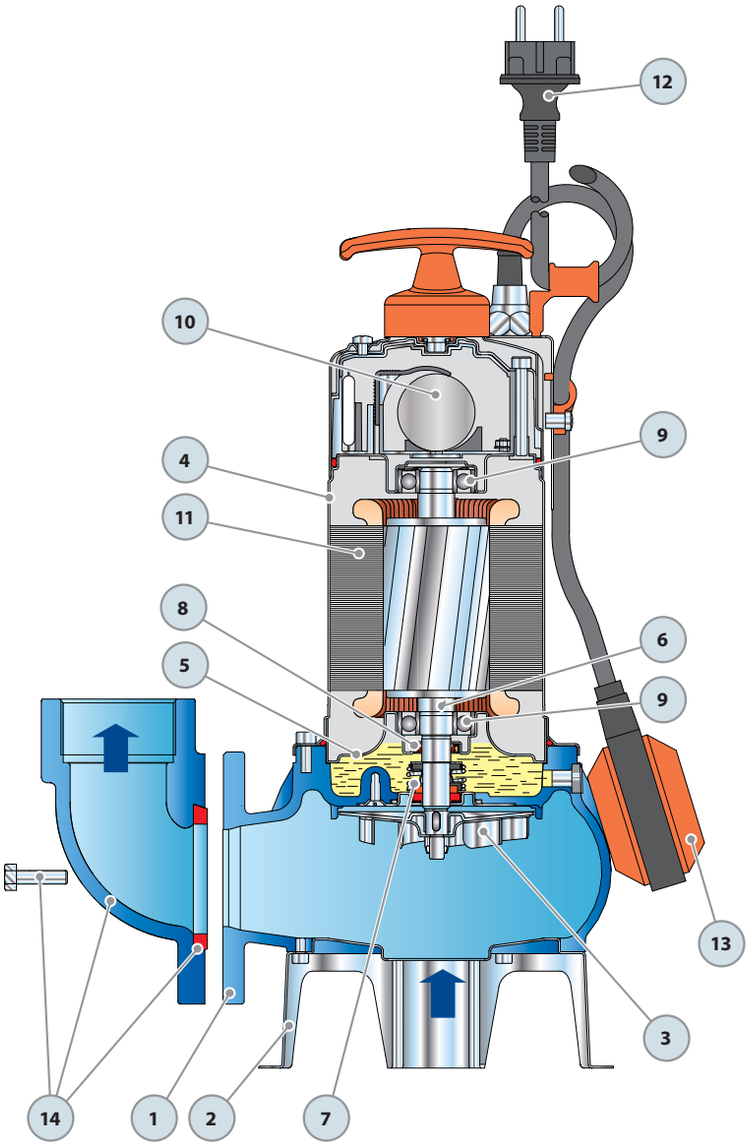

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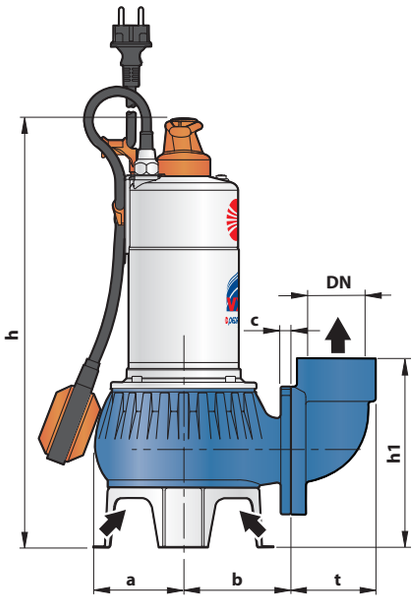

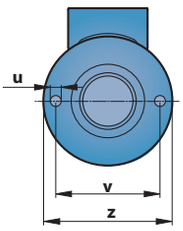

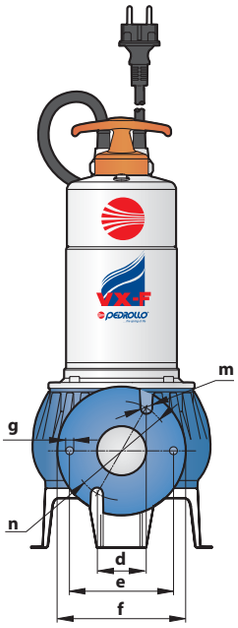

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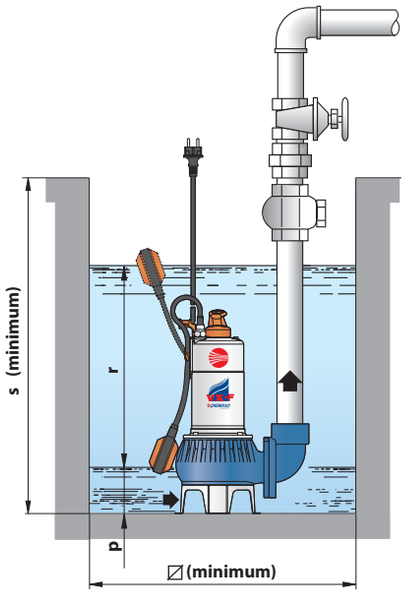

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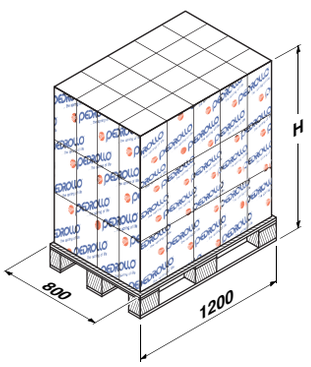

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