



# FEKABOX 200 - FEKAFOS 280



**Technical Sheet** 

### **FEKABOX 200**

#### **AUTOMATIC PUMPING STATION FOR 1 PUMP**



#### **DATI TECNICI**

**Operating range:** from 1 to 24 m³/h with a head of up to 15 mt. **Pumped liquid:** ground water, rain water, clear waste water, black waste water and water from rivers and lakes.

Maximum liquid temperature range: 45°C

**Installation:** Inside or outside the building. Laid on the floor, under the ground or housed.

#### **APPLICATIONS**

Tanks for domestic waste water arriving from drainage systems of various types or storm drains, for systems located below the sewer network such as garages or basements, when the sewers cannot be reached by gravity. The pump installed in the tank allows the waters to be conveyed into the sewer. The tank has numerous possibilities for connecting pipes at input, output and ventilation, allowing adequate use even in limited spaces. A grinder pump can also be installed in the tank, able to break up any foreign bodies in the waste water and project them at long distances.

#### **SELLING POINTS**

- Certification according to European law 12050-1 to guarantee the watertight seal from odors and leaks
- · Light, but resistant to chemical and mechanical stress
- Designed for easy installation and maintenance of the pump thanks to the lifting device
- Tightening of the lid without the use of screws
- The tank material is environmentally friendly, 100% recyclable

#### **CONSTRUCTIVE CHARACTERISTICS**

CAPACITY: 200 It MATERIAL: LLDPE CONNECTIONS:

- Input DN 50/110
- Ventilation DN 50
- Output G2"

#### **COMPONENTS INCLUDED:**

- A lifting device 2" PP and anti-rotation bracket for FEKA VS e VX
- Cable gland for single pump
- Connection 2" F x 1 x 1/4 M per FEKA 600
- Floating cable clamp kit FEKA VS e VX

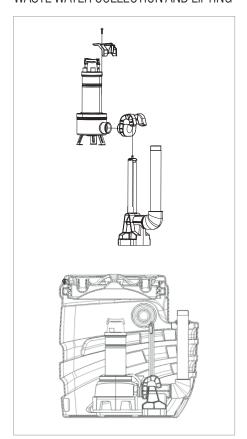
#### COMPONENTS EXCLUDED:

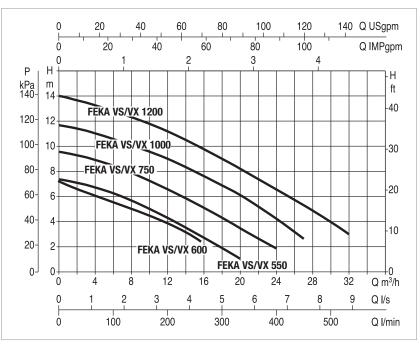
- Pump: to be selected according to the configuration possibilities
- · Floatin alarm support



#### FEKABOX 200

#### WASTE WATER COLLECTION AND LIFTING





 $Performance~curves~are~based~on~kinematic~viscosity~values = 1~mm^2/s~and~density~of~1000~kg/m^3.~Curve~tolerance~in~accordance~with~ISO~9906.$ 

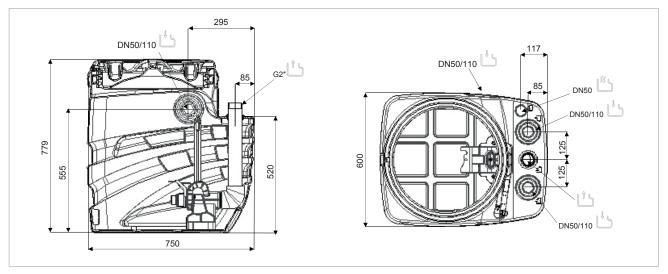
#### **CONFIGURATION**

DUMD	ELECTRICAL DATA					
PUMP Model	VOLTAGE	P1 MAX	P2 NOMINAL		In	
WODEL	50 HZ	kW	kW	HP	A	
FEKA 600 M-A	1X220-240 V~	1	0,55	0,75	4,3	
FEKA VS/VX 550 M-A	1X220 - 240 V~	0,9	0,55	0,75	4,2	
FEKA VS/VX 750 M-A	1X220 - 240 V~	1,1	0,75	1	5,13	
FEKA VS/VX 1000 M-A	1X220 - 240 V~	1,4	1	1,36	6,63	
FEKA VS/VX 1200 M-A	1X220 - 240 V~	1,9	1,2	1,6	8,63	



#### **FEKABOX 200**

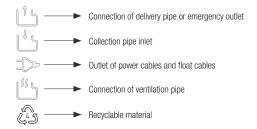
#### WASTE WATER COLLECTION AND LIFTING



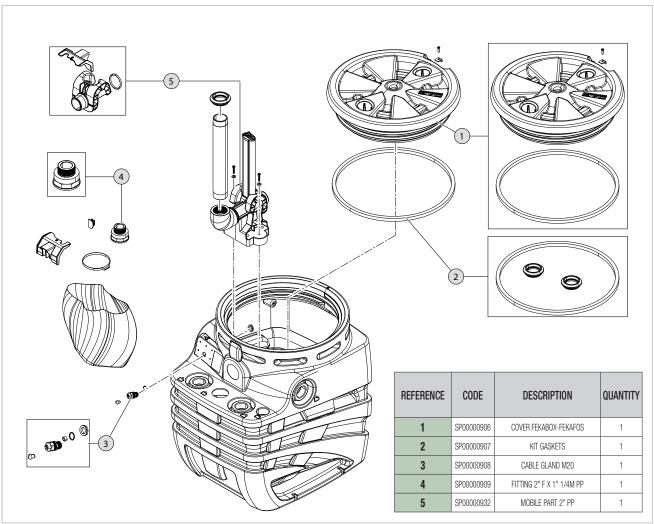
#### **DIMENSIONS AND WEIGHTS**

PAC	WEIGHT			
D	L	L H		
750	600	779	23,2	

#### LEGEND:



#### **SPARE PARTS**



### **FEKAFOS 280**

#### **AUTOMATIC PUMPING STATION FOR 1 PUMP**



#### **DATI TECNICI**

**Operating range:** from 1 to 48 m<sup>3</sup>/h with a head of up to 23 mt. Pumped liquid: ground water, rain water, clear waste water, black waste water and water from rivers and lakes.

Maximum liquid temperature range: 45°C

Installation: Inside or outside the building. Laid on the floor, under the ground or housed.

#### **APPLICATIONS**

Tanks for domestic waste water arriving from drainage systems of various types or storm drains, for systems located below the sewer network such as garages or basements, when the sewers cannot be reached by gravity. The pump installed in the tank allows the waters to be conveyed into the sewer. The tank has numerous possibilities for connecting pipes at input, output and ventilation, allowing adequate use even in limited spaces. A grinder pump can also be installed in the tank, able to break up any foreign bodies in the waste water and project them at long distances.

#### **SELLING POINTS**

- Certification according to European law 12050-1 to guarantee the watertight seal from odors and leaks
- · Light, but resistant to chemical and mechanical stress
- Designed for easy installation and maintenance of the pump thanks to the lifting device
- Tightening of the lid without the use of screws
- Designed with floats and a supplementary floating overflow alarm
- The tank material is environmentally friendly, 100% recyclable

#### **CONSTRUCTIVE CHARACTERISTICS**

CAPACITY: 280 It **MATERIAL:** LLDPE **CONNECTIONS:** • Input DN 50/110

- Ventilation DN 50
- Output G2"

#### **COMPONENTS INCLUDED:**

- A lifting device DSD2" and anti-rotation bracket for FEKA VS e VX
- 4 Cable glands for single pump and floats
- Connection 2" F x 1 x 1/4 M per FEKA 600
- Floating cable clamp kit FEKA VS e VX
- 2 floating and floating alarm support

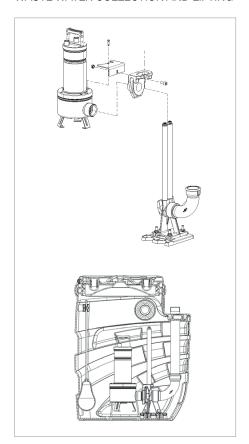
#### COMPONENTS EXCLUDED:

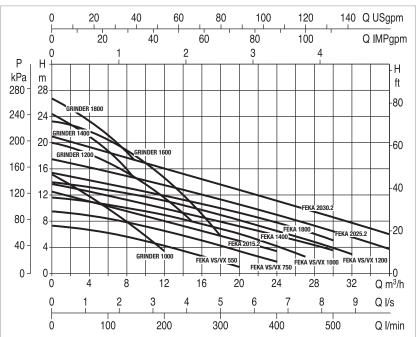
- Pump: to be selected according to the configuration possibilities
- Control panel: to be selected according to the configuration possibilities



#### **FEKAFOS 280**

### WASTE WATER COLLECTION AND LIFTING





 $Performance\ curves\ are\ based\ on\ kinematic\ viscosity\ values = 1\ mm^2/s\ and\ density\ of\ 1000\ Kg/m^3.$  Curve tolerance in accordance with ISO 9906.

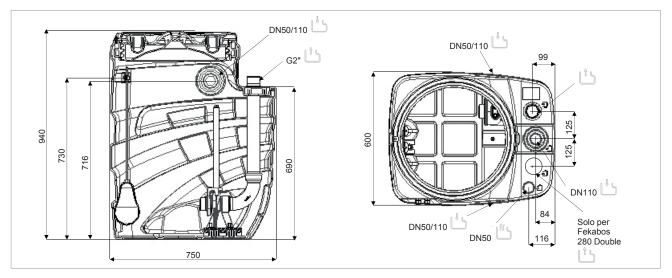
#### **CONFIGURATION**

DUMD		ELECTRICAL DATA				CONTROL DANIEL
PUMP MODEL	VOLTAGE	P1 MAX	P2 N	OMINAL	ln	CONTROL PANEL MATCHING
WODEL	50 HZ	kW	kW	HP	A	MATOTING
FEKA VS/VX 550 M-NA	1X220 - 240 V~	0,9	0,55	0,75	4,2	ED 1,3 M / E-BOX 2D M/T
FEKA VS/VX 550 T-NA	3X400 V~	0,9	0,55	0,75	1,64	ED 1 T / E-BOX 2D M/T
FEKA VS/VX 750 M-NA	1X220 - 240 V~	1,1	0,75	1	5,13	ED 1,3 M / E-BOX 2D M/T
FEKA VS/VX 750 T-NA	3X400 V~	1,1	0,75	1	1,94	ED 1 T / E-BOX 2D M/T
FEKA VS/VX 1000 M-NA	1X220 - 240 V~	1,4	1	1,36	6,63	ED 1,3 M / E-BOX 2D M/T
FEKA VS/VX 1000 T-NA	3X400 V~	1,4	1	1,36	2,51	ED 1,5 T / E-BOX 2D M/T
FEKA VS/VX 1200 M-NA	1X220 - 240 V~	1,9	1,2	1,6	8,63	ED 1,3 M / E-BOX 2D M/T
FEKA VS/VX 1200 T-NA	3X400 V~	1,9	1,2	1,6	3,44	ED 1,5 T / E-BOX 2D M/T
FEKA 1400 M	1X220 - 240 V~	1,8	1,1	1,5	8,5	ED 1,3 M / E-BOX 2D 40 ųF
FEKA 1800 T	3X400 V~	1,9	1,5	2,0	3,7	ED 1,5 T / E-BOX 2D M/T
GRINDER 1400 M	1X220 - 240 V~	1,9	1,1	1,5	8,7	ED 3 MHS
GRINDER 1800 T	3X400 V~	2	1,5	2,0	3,8	ED 1,5 T / E-BOX 2D M/T
GRINDER 1000 M-NA	1X220 - 240 V~	1,5	1	1,3	8	ED 1,3 M / E-BOX 2D M/T
GRINDER 1000 T	3X400 V~	1,6	1	1,3	2,8	ED 1,5 T / E-BOX 2D M/T
GRINDER 1200 M-NA	1X220 - 240 V~	2,8	1,5	2	12,7	ED 2,4 M / E-BOX 2D M/T
GRINDER 1200 T	3X400 V~	2,7	1,5	2	4,7	ED 2,5 T / E-BOX 2D M/T
GRINDER 1600 M-NA	1X220 - 240 V~	3,8	1,8	2,4	16,8	ED 2,4 M / E-BOX 2D M/T
GRINDER 1600 T	3X400 V~	3,3	1,8	2,4	5,8	ED 2,5 T / E-BOX 2D M/T
FEKA 2015.2 M-NA	1X230 V~	1,6	1,1	1,5	8	ED 1,3 M / E-BOX 2D M/T
FEKA 2015.2 T-NA	3X400 V~	1,5	1,1	1,5	2,8	ED 1,5 T / E-BOX 2D M/T
FEKA 2025.2 T-NA	3X400 V~	2,2	1,8	2,4	4,1	ED 2,5 T / E-BOX 2D M/T
FEKA 2030.2 T-NA	3X400 V~	3,3	2,2	3	5,6	ED 2,5 T / E-BOX 2D M/T



#### **FEKAFOS 280**

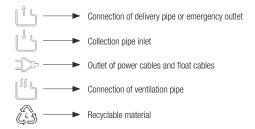
#### WASTE WATER COLLECTION AND LIFTING



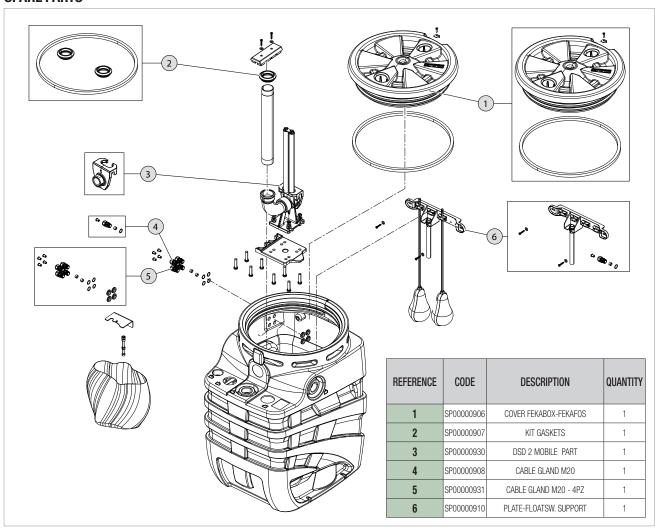
#### **DIMENSIONS AND WEIGHTS**

PAC	WEIGHT		
D	L	Kg	
750	600	940	40,5

#### LEGEND:



#### **SPARE PARTS**



### **FEKAFOS 280 DOUBLE**

#### **AUTOMATIC PUMPING STATION FOR 2 PUMPS**



#### **DATI TECNICI**

**Operating range:** from 1 to 36 m³/h with a head of up to 25 mt. **Pumped liquid:** ground water, rain water, clear waste water, black waste water and water from rivers and lakes.

Maximum liquid temperature range: 45°C

**Installation:** Inside or outside the building. Laid on the floor, under the ground or housed.

#### **APPLICATIONS**

Tanks for domestic waste water arriving from drainage systems of various types or storm drains, for systems located below the sewer network such as garages or basements, when the sewers cannot be reached by gravity. The pump installed in the tank allows the waters to be conveyed into the sewer. The tank has numerous possibilities for connecting pipes at input, output and ventilation, allowing adequate use even in limited spaces. A grinder pump can also be installed in the tank, able to break up any foreign bodies in the waste water and project them at long distances.

#### **SELLING POINTS**

- Certification according to European law 12050-1 to guarantee the watertight seal from odors and leaks
- · Light, but resistant to chemical and mechanical stress
- Designed for easy installation and maintenance of the pump thanks to the lifting device
- Tightening of the lid without the use of screws
- Designed with floats and a supplementary floating overflow alarm
- The tank material is environmentally friendly, 100% recyclable
- The only one on the market that offers a complete professional solution with double pump also for domestic installations where space and cost are contained

#### **CONSTRUCTIVE CHARACTERISTICS**

CAPACITY: 280 It MATERIAL: LLDPE CONNECTIONS:

- Input DN 50/110
- Ventilation DN 50
- Output G2"

#### COMPONENTS INCLUDED:

- 2A lifting devices DSD2" and anti-rotation bracket for FEKA VS e VX
- 6 Cable glands for double pump and floats
- 2 Floating cable clamp kits FEKA VS e VX
- 3 floating and floating alarm support

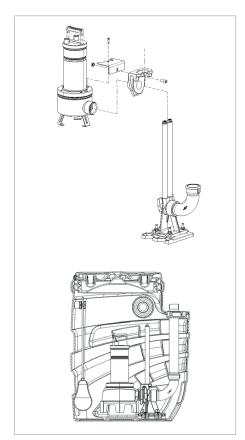
#### COMPONENTS EXCLUDED:

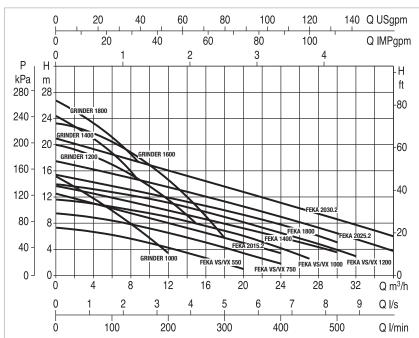
• Pump: to be selected according to the configuration possibilities



#### **FEKAFOS 280 DOUBLE**

#### WASTE WATER COLLECTION AND LIFTING





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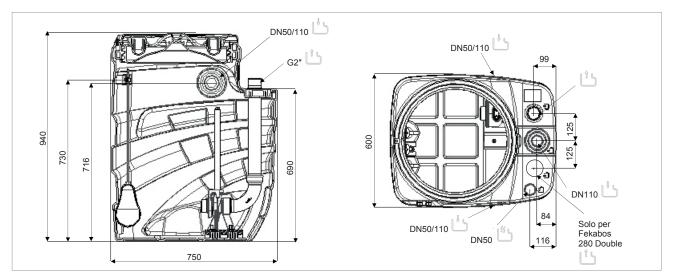
#### **CONFIGURATION**

DUMD		ELECTRICAL DATA				CONTROL DANIEL
PUMP MODEL	VOLTAGE	P1 MAX	P2 NO	OMINAL	ln	CONTROL PANEL MATCHING
WODEL	50 HZ	kW	kW	HP	A	MAIOIING
FEKA VS/VX 550 M-NA	1X220 - 240 V~	0,9	0,55	0,75	4,2	E2D 2,6 M / E-BOX 2D M/T
FEKA VS/VX 550 T-NA	3X400 V~	0,9	0,55	0,75	1,64	E2D 2 T / E-BOX 2D M/T
FEKA VS/VX 750 M-NA	1X220 - 240 V~	1,1	0,75	1	5,13	E2D 2,6 M / E-BOX 2D M/T
FEKA VS/VX 750 T-NA	3X400 V~	1,1	0,75	1	1,94	E2D 2 T / E-BOX 2D M/T
FEKA VS/VX 1000 M-NA	1X220 - 240 V~	1,4	1	1,36	6,63	E2D 2,6 M / E-BOX 2D M/T
FEKA VS/VX 1000 T-NA	3X400 V~	1,4	1	1,36	2,51	E2D 3 T / E-BOX 2D M/T
FEKA VS/VX 1200 M-NA	1X220 - 240 V~	1,9	1,2	1,6	8,63	E2D 2,6 M / E-BOX 2D M/T
FEKA VS/VX 1200 T-NA	3X400 V~	1,9	1,2	1,6	3,44	E2D 3 T / E-BOX 2D M/T
FEKA 1400 M	1X220 - 240 V~	1,8	1,1	1,5	8,5	E2D 2,6 M / E-BOX 2D 40 ųF
FEKA 1800 T	3X400 V~	1,9	1,5	2,0	3,7	E2D 3 T / E-BOX 2D M/T
GRINDER 1400 M	1X220 - 240 V~	1,9	1,1	1,5	8,7	E2D 6 MHS
GRINDER 1800 T	3X400 V~	2	1,5	2,0	3,8	E2D 3 T / E-BOX 2D M/T
GRINDER 1000 M-NA	1X220 - 240 V~	1,5	1	1,3	8	E2D 2,6 M / E-BOX 2D M/T
GRINDER 1000 T	3X400 V~	1,6	1	1,3	2,8	E2D 3 T / E-BOX 2D M/T
GRINDER 1200 M-NA	1X220 - 240 V~	2,8	1,5	2	12,7	E2D 4,8 M / E-BOX 2D M/T
GRINDER 1200 T	3X400 V~	2,7	1,5	2	4,7	E2D 5 T / E-BOX 2D M/T
GRINDER 1600 M-NA	1X220 - 240 V~	3,8	1,8	2,4	16,8	E2D 4,8 M / E-BOX 2D M/T
GRINDER 1600 T	3X400 V~	3,3	1,8	2,4	5,8	E2D 5 T / E-BOX 2D M/T
FEKA 2015.2 M-NA	1X230 V~	1,6	1,1	1,5	8	E2D 2,6 M / E-BOX 2D M/T
FEKA 2015.2 T-NA	3X400 V~	1,5	1,1	1,5	2,8	E2D 3 T / E-BOX 2D M/T
FEKA 2025.2 T-NA	3X400 V~	2,2	1,8	2,4	4,1	E2D 5 T / E-BOX 2D M/T
FEKA 2030.2 T-NA	3X400 V~	3,3	2,2	3	5,6	E2D 5 T / E-BOX 2D M/T



#### FEKAFOS 280 DOUBLE

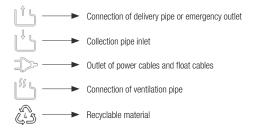
#### WASTE WATER COLLECTION AND LIFTING



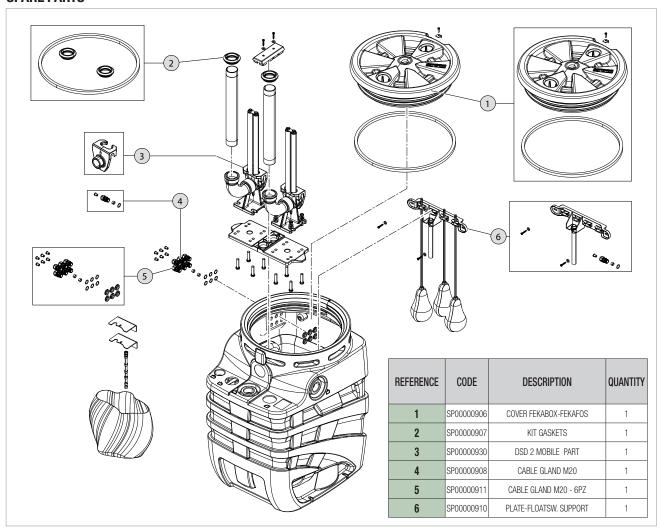
#### **DIMENSIONS AND WEIGHTS**

PAC	WEIGHT		
D	L	Kg	
750	600	940	53,7

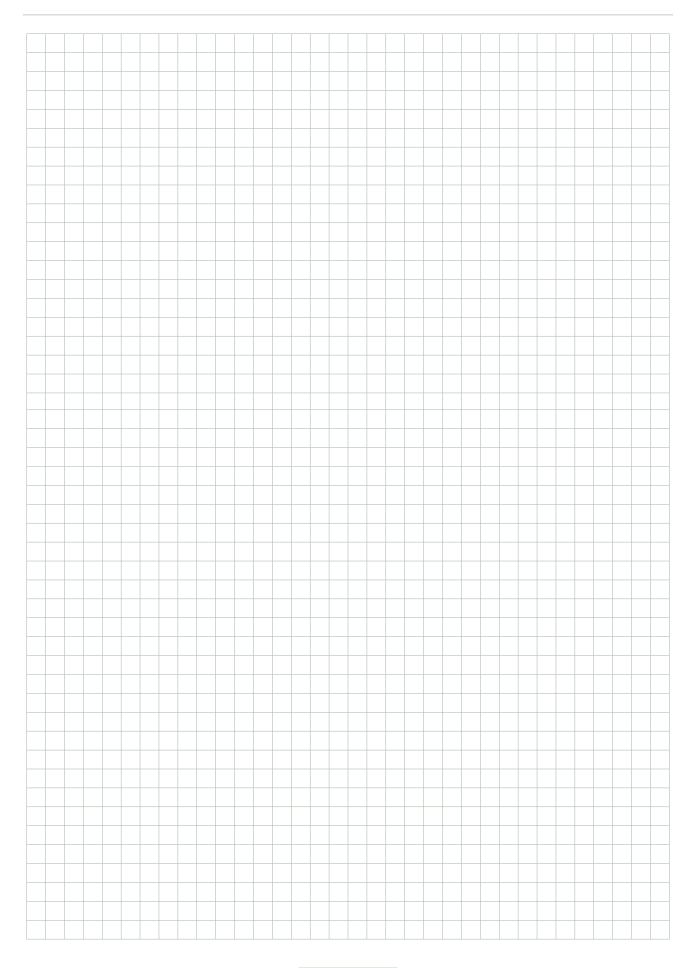
#### LEGEND:



#### **SPARE PARTS**



### **NOTES**





# **ACCESSORIES**



## **ACCESSORIES**

FLOATS	DESCF	RIPTION	WEIGHT Kg	Q.TY X BOX
	FLOAT KEY	10 metrers	1,3	1
		20 metrers	2	1
	FLOAT CABLE STOP KIT FOR FEKA VS-VX		0,12	1
ALARMS AND CONTROL	DESCR	RIPTION	WEIGHT Kg	Q.TY X BOX
	AS 1 CONTROL - WITH ALARM DEVICE		2	1
BRACKET	DESCR	RIPTION	WEIGHT Kg	Q.TY X BOX
9 29	ANTIROTATION BRACKET FOR FEKA VS-VX			1
BALL NON-RETURN VALVES	DESCF	WEIGHT Kg	Q.TY X BOX	
	PVC NON-RETURN VALVE (BALL) 2" - THREADED			1
	NON RETURN VALVE (BALL) 2" - THREADED			1
	DN50 NON RETURN VALVE (BALL)		9,5	1
	DNG5 NON RETURN VALVE (BALL)		9,5	1
REFLOW KIT	DESCRIPTION			Q.TY X BOX
	REFLOW KIT			1



**AUTOMATIC PUMPING STATION** 

#### **UNI EN 12050-1**

#### PRINCIPLES OF CONSTRUCTION AND TESTING OF LIFTING PLANTS FOR WASTEWATER CONTAINING FAECAL MATTER

#### SUMMARY

The standard applies to lifting plants for wastewater containing faecal matter, which can also be used for the treatment of wastewater not containing faecal matter, for the drainage of locations, of buildings, and sites below the high water mark to avoid eventual backflow of sewage into the building. This part of the European standard contains general requirements, the basic principles for the construction and testing, as well as information on materials and conformity assessments.

#### **TANK REQUIREMENTS**

Except for the regard of the inlet openings, outlet and ventilation, the collecting tanks must be closed, water and air (odor) tight. The interior of the tank of a collection system for faecal material can be regarded as an area containing potentially explosive gas. In this sense the tank and other mechanical fittings are not subject to any particular requirements as long as you take the necessary measures to prevent explosions inside the tank.

#### PRINCIPLES OF CONSTRUCTION

#### **Pumping of solids**

Lifting plants for faecal matter must be capable of pumping wastewater as defined in EN 12056-1, including all solid material generally contained in domestic wastewater. They must be designed in such a way as to avoid the accumulation of solid material.

#### **Connection of tubes**

The size of the input connections, drainage and ventilation systems must permit the use of standard-sized tubes. The fittings must be flexible and able to withstand the maximum pressure of the pump outlet without leakage.

#### Minimum size of ventilation pipes

The ventilation pipes must have a minimum nominal diameter DN 50.

#### Minimum step of the system

The free passage in the lifting system for faecal material, anywhere between the faecal material in the system and the pumping device, must be at least 40 mm

#### Minimum size of the drain connection for lifting plants for faecal matter without maceration

The discharge connection of lifting plants for faecal material without maceration must be at least DN 80. The free passage of the non-return valve must be at least 60mm. When necessary, the drain connection must be at least equal to DN 50 and the free passage of the non-return valve must be at least 50 mm.

#### Minimum size of the drain pipes of lifting plants for faecal material with maceration

The drain connections, the exhaust pipes and the non-return valve of lifting plants for faecal material with maceration must be at least in diameter DN 32.

#### **Fasteners**

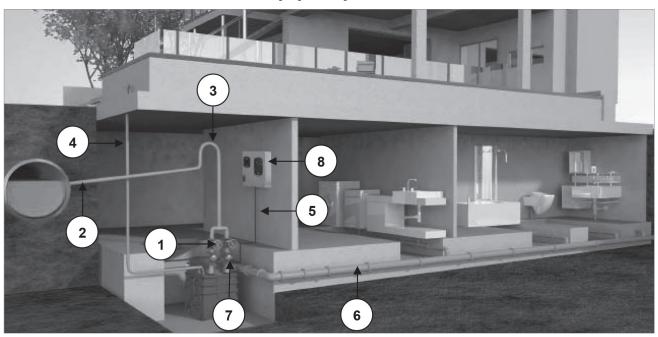
Lifting plants for faecal matter must include fasteners in order to prevent rotation or flotation.

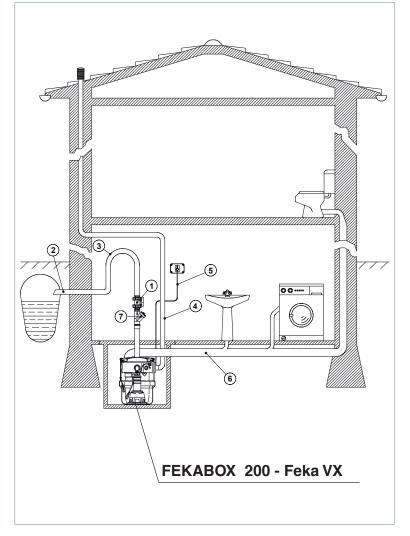


**AUTOMATIC PUMPING STATION** 

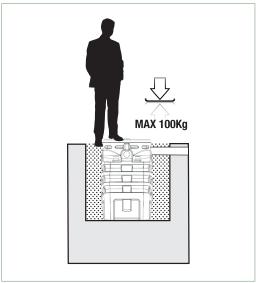
### **INSTALLATION EXAMPLES**

The installation can be carried out on the surface or underground, where it is required to overcome soil barriers to connection to sewerage networks even from a distance. FEKAFOS can be installed in basements, garages, underground wells.





REFERENCE	DESCRIPTON		
1	Interception ball or gate valve		
2	Delivery		
3	Siphon		
4	Ventilation		
5	Power Cable		
6	Collecting pipe		
7	No Return Valve		
8	E-BOX control panel (only for fekafos models)		



Outdoor installation without underground structure with sand. Walkable



STORMWATER	WET SURFACE AREA (m²)			
LEVEL DIFFERENCE (m)	0-25	25-45	45-70	
0,0				
1,0	NOVA 180	NOVA CCC		
2,0		NOVA 200 NOVA 300	FEKA 600	
3,0	NOVA 200	NOVA 300		
4,0	NOVA 300			
5,0	FEKA 600	FEMA COO		
5,5	FENA 600	FEKA 600		
6,0			NOVA 600	
7,0	NOVA 600	NOVA 600		
8,0				

STORMWATER		WET SURFA	ACE AREA (m²)	
LEVEL DIFFERENCE (m)	0 - 25	25 - 45	45 - 70	70 - 90
0,0				
0,5	-			
1,0	-			
1,5				
2,0			FEKA VS-VX	
2,5	FEKA VS-VX	FEKA VS-VX	550	2 x
3,0	550	55()		FEKA VS-VX
3,5				550
	4,0			
4,5				
5,0	-			
5,5	-			
6,0			FEKA VS-VX	
6,5		FEKA VS-VX	750	2 x
7,0	FEKA VS-VX	750		FEKA VS-VX
7,5	750		-	750
8,0			FEKA VS-VX	
8,5		FEKA VS-VX	1000	2 x
9,0	FEKA VS-VX	1000		FEKA VS-VX
9,5	1000		-	1000
10,0		-	FEKA VS-VX	
10,5	-	FEKA VS-VX	1200	
11,0	FEKA VS-VX	1200		2 x
11,5	1200			FEKA VS-VX 1200
12,0				1200
12,5				

FEKABOX 100
FEKABOX / FEKAFOS 200
FEKABOX / FEKAFOS 280
FEKAFOS 280 DOUBLE
FEKAFOS 550



SEWERAGE	TYPE OF RESIDENCE				TYPE OF RESIDENCE			
LEVEL DIFFERENCE (m)	Kitchen or bathroom	Kitchen + bathroom	Kitch. + 2 bathrooms	N° OF RESIDENTIAL UNITS				
0,0								
0,5								
1,0								
1,5			FEKA VS - VX 550					
2,0								
2,5		FEKA VS - VX 550						
3,0	FEKA VS 550							
3,5				1				
4,0								
4,5								
5,0			- FEKA VS - VX 750					
5,5								
6,0		FEKA VS - VX 750						
6,5	FEKA VS 750	FENA VO - VA 750						
7,0	LIW VO 750							

	TYPE OF RESIDENCE						
LEVEL DIFFERENCE (m)	Kitchen + bathroom	Kitch. + 2 bathrooms	Kitch. + 3	bathrooms	N° OF Residential Units		
0,0	_		2 x	2 x			
0,5	_		FEKA VS-VX 550	FEKA VS-VX 550			
1,0		FEKA VS-VX 550	ELECTRICAL PANELS:	ELECTRICAL PANELS:			
1,5		ELECTRICAL PANELS:	E-BOX	E-BOX			
2,0	FEKA VS-VX 550	ED1,3M ED1.3T	+ 2 ANTIROTATION  BASES	+ 2 ANTIROTATION  BASES			
2,5	ELECTRICAL PANELS: ED1.3M	+ ANTIROTATION	D/ IOEG	<i>Dr</i> IOLO			
3,0	ED1,3T	BASE	0.4	0.4			
3,5			2 x FEKA VS-VX 750	2 x FEKA VS-VX 750			
4,0			ELECTRICAL PANELS:	ELECTRICAL PANELS:			
4,5		FEKA VS-VX 750	E-BOX	E-BOX			
5,0		ELECTRICAL PANELS:	+ 2 ANTIROTATION BASES	+ 2 ANTIROTATION BASES			
5,5	FEKA VS-VX 750	FEKA VS-VX 1000 ELECTRICAL PANELS: ED1,3M FD1.3T +	FEKA VS-VX 750 ECTRICAL PANELS: ANTIROTATION BASE  ED1,3M ED1,3T FEKA VS-VX 1000 ELECTRICAL PANELS: FD1 3M	DAOLO	BAOLO	1	
6,0				2 x	2 x	ı	
6,5	, -			FFI/A VC VV 1000	FEKA VS-VX 1000	FEKA VS-VX 1000 ELECTRICAL PANELS:	
7,0	ED1,3T			ELECTRICAL PANELS: E-BOX + 2 ANTIROTATION			
7,5	FEKA VS-VX 1000			BASES	+ 2 ANTIROTATION BASES		
8,0	ELECTRICAL PANELS:		2 x FEKA VS-VX 1200	2 x FEKA VS-VX 1200			
8,5	ED1,3M						
9,0	ED1,3T		ELECTRICAL PANELS:	ELECTRICAL PANELS:			
9,5		ELECTRICAL PANELS:		E-BOX+ 2 ANTIROTATION			
10,0	FEKA VS-VX 1200	LECTRICAL PANELS: ED1,3T +	BASES	BASES			
10,5	ELECTRICAL PANELS: ED1,3M						
11,0	ED1,3T						
11,5							



#### **AUTOMATIC PUMPING STATION**

	TYPE OF RESIDENCE				
LEVEL DIFFERENCE (m)	Kitchen + bathroom	Kitch. + 2 bathrooms	Kitch. + 3 bathrooms	N° OF Residential Units	
0,0					
0,5					
1,0	2 x		2 x FEKA VS-VX 1200		
1,5	FEKA VS-VX 750				
2,0	ELECTRICAL PANELS: E-BOX + 2 ANTIROTATION BASES  2 x FEKA VS-VX 1000 ELECTRICAL PANELS: E-BOX + 2 ANTIROTATION BASES	2 x FEKA VS-VX 1200	ELECTRICAL PANELS:		
2,5		ELECTRICAL PANELS:	E-BOX		
3,0		E-BOX	+ 2 ANTIROTATION BASES		
3,5		+ 2 ANTIROTATION BASES			
4,0		DAGLO		2	
4,5					
5,0					
5,5					
6,0	2 x				
6,5	FEKA VS-VX 1200				
7,0	ELECTRICAL PANELS:				
7,5	E-BOX + 2 ANTIROTATION BASES				
8,0					

Maximum volume of waste water in single-family domestic systems

Kitchen + bathroom =  $7 \text{ m}^3/\text{h}$ 

Kitchen + 2 bathrooms =  $12 \text{ m}^3/\text{h}$ 

Kitchen + 3 bathrooms =  $16 \text{ m}^3/\text{h}$ 

For selection of these lifting stations we considered a drainage pipeline length of 20 metres and the same diameter of the discharge port as the corresponding FEKA unit.

- \*\* To install FEKAFOS consider the electrical panels shown in the annexed tables.
- \*\* For greater lengths consult the technical department.

Surfaces (m²)	0 - 25	25 - 45	45 - 70	70 - 90
Flow Rate (m³/h)	0 - 3	3 - 5,5	5,5 - 8,4	8,4 - 10,8

<sup>\*\*</sup> For calculation of stormwater pumps we considered average annual rainfall of 120 mm/h

### VOLUME OF CISTERN IN SYSTEMS FOR TREATMENT OF EFFLUENT AND STORM WATER:

V (litres) = 
$$\frac{0.3 \times Q (m^3/h) \times 1000}{N^{\circ} \text{ starts / hour}}$$

 $\mathbf{V} = \text{Cistern volume in litres.}$ 

 $\mathbf{Q} = \text{Pump flow rate in m}^3/\text{h}.$ 

 $N^o$  of starts = consider 12.

For selection of these lifting stations we considered a drainage pipeline length of 20 metres and the same diameter of the discharge port as the corresponding FEKA unit.

These tables show some examples based on standard value. For a correct selection, please contact our sales network.





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