

**FEKA**

**NEW**



**DAB**  
PUMP PERFORMANCE

## FEKA VS - FEKA VX



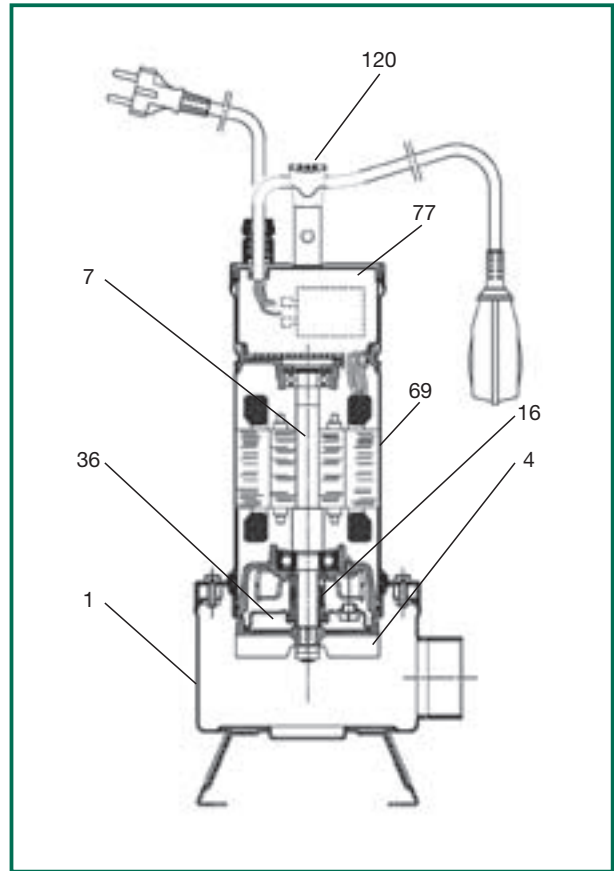
- ✓ *Innovative and modern design*
- ✓ *Easy and rapid maintenance*
- ✓ *Supports metallic bearings to improve the dissipation of heat and to guarantee max alignment and long life*
- ✓ *Double mechanical seal with vicariously oil chamber*

# TECHNICAL DATA

## FEKA VS

N.	PARTS*	MATERIALS
1	Pump body	Stainless steel AISI 304
4	Impeller	Microcasting Stainless steel
7	Motor shaft	Stainless steel AISI 304
16	Mechanical seal (pump side)	Silicon carbide/Silicon carbide
	Mechanical seal (motor side)	Carbon ceramic
36	Seal cover	Stainless steel AISI 304
69	Pump liner	Stainless steel AISI 304
77	Protection cover	Stainless steel AISI 304
120	Handle	Stainless steel AISI 304 with insulating rubber cover

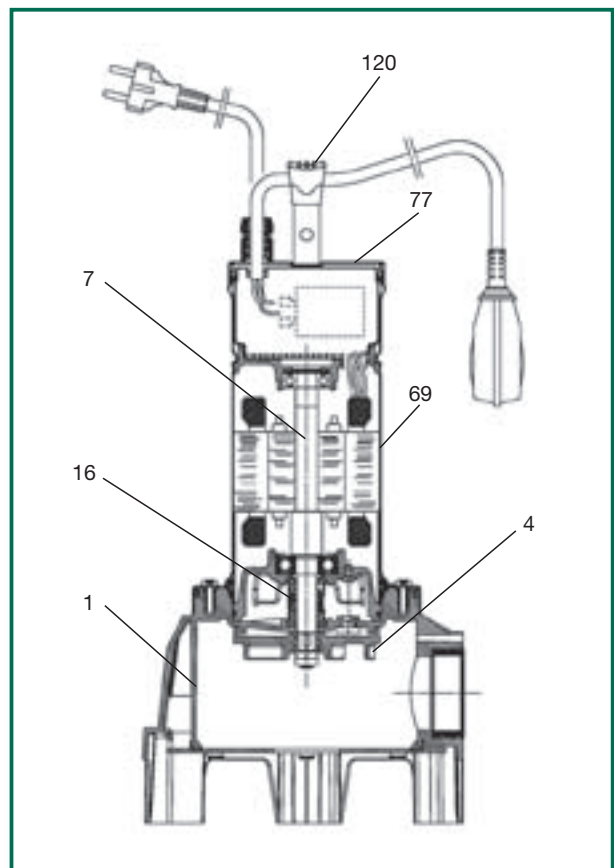
\* In contact with the liquid



## FEKA VX

N.	PARTS*	MATERIALS
1	Pump body	Technopolymer
4	Impeller	Technopolymer
7	Motor shaft	Stainless steel AISI 304
16	Mechanical seal (pump side)	Silicon carbide/Silicon carbide
	Mechanical seal (motor side)	Carbon ceramic
69	Pump liner	Stainless steel AISI 304
77	Protection cover	Stainless steel AISI 304
120	Handle	Stainless steel AISI 304 with insulating rubber cover

\* In contact with the liquid





## Applications

Stainless steel submersible centrifugal pump with **precision cast steel** liquid vortex impeller, suitable for pumping sewer water and waste water in general containing solids up to a maximum size of 50 mm.

## Structural characteristics of the pump

Stainless steel pump casing, seal cover, motor casing and cover with handle.

### Precision cast steel impeller

Handle with insulating rubber cover  
 AISI 316 stainless steel drive shaft  
 Double mechanical seal with intermediate oil chamber (atoxic oil), in carbon/alumina on the motor side and silicon carbide/silicon carbide on the pump side.

## Structural characteristics of the motor

Dry, asynchronous, sealed and cooled by the pumped liquid. Rotor mounted on greased for-life ball bearings, oversized and selected to guarantee greater noise reduction and duration. Thermo-amperometric protection as standard for single-phase version, and the user's responsibility for the three-phase version.

Constantly active capacitor on the single-phase version. Construction in accordance with the IEC 2-3 IEC 61-69 (EN 60335-2-41) standards.

Motor protection class: IP 68

Insulation class: F

Standard voltage: 220-240V 50Hz Single-phase

400V 50Hz Three-phase

Continual running with liquid at 35 °C and pump completely submerged.

The single-phase version can be supplied with float for automatic function.

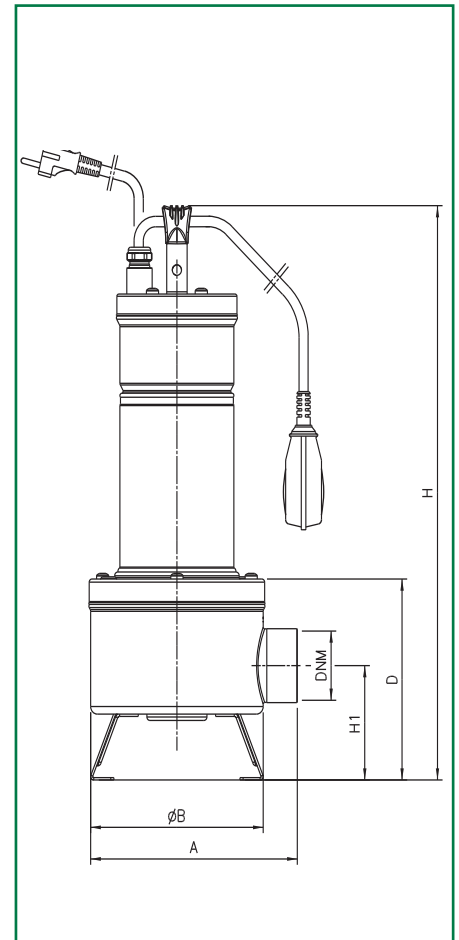
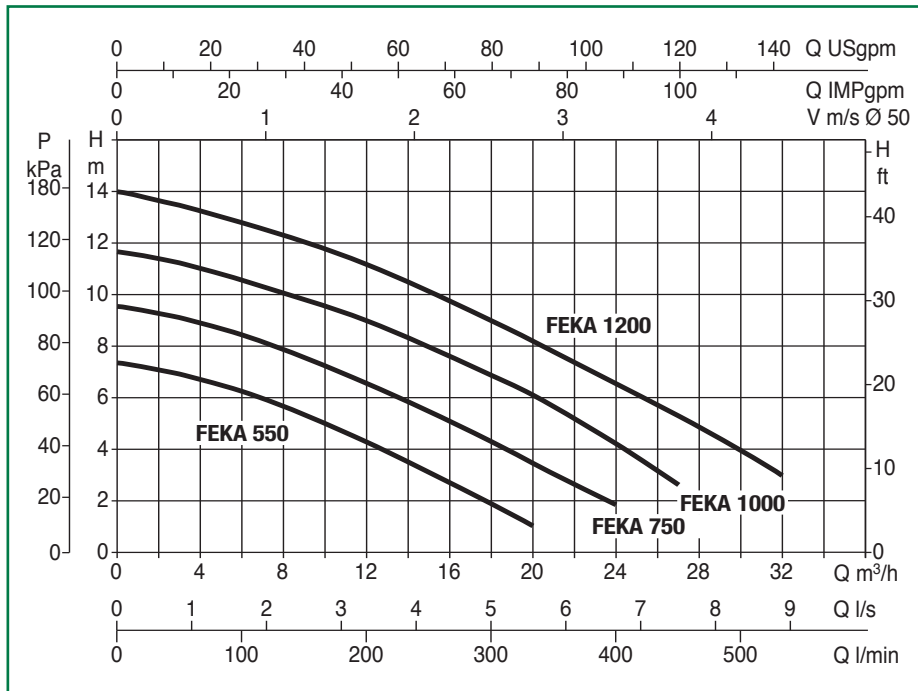
Power supply cable: 10 metres of H07RN-F cable with Shuko plug for the single-phase version and 10 meters of H07RN-F cable for the three-phase version.

## Technical data

- Operating range: from 0 to 32 m<sup>3</sup>/h with head up to 14 meters.
- Pumped liquid: sewer water and waste water in general and non aggressive.
- Liquid temperature range:
  - from 0°C to +35°C for household use (EN 60335-2-41)
  - from 0°C to +50°C for other uses
- Maximum ambient temperature for pump running with submerged motor: +40°C
- Maximum immersion depth: 10 meters
- Installation: fixed or portable, vertical

# FEKA VS

## DIMENSIONS AND WEIGHTS



MODEL	A	B	D	H	H1	Ø DNM	PACKAGING DIM.			VOL m³	GROSS WEIGHT Kg
							L/A	L/B	H		
FEKA VS 550	203	170	172	492	98	2" F	240	600	240	0,034	16,3
FEKA VS 750	203	170	172	492	98	2" F	240	600	240	0,034	17,5
FEKA VS 1000	203	170	172	537	98	2" F	240	600	240	0,034	19,3
FEKA VS 1200	203	170	172	537	98	2" F	240	600	240	0,034	20,8

## ELECTRICAL AND HYDRAULIC DATA

MODEL	VOLTAGE 50 HZ	ELECTRICAL SPECIFICATIONS						HYDRAULIC SPECIFICATIONS (N≈2800 1/min)																								
		P1 max W	P2 Nominal		I <sub>n</sub> A	CAPACITOR																										
			kW	HP		µF	VC	m³/h	0	3	6	12	18	20	24	27	32															
FEKA VS 550 M-NA	1x220-240 V~	927	0,55	0,75	4,2	12,5	450	H (m)	7,4	6,9	6,2	4,1	1,8	1,2	-	-	-															
FEKA VS 550 M-A																		900	0,55	0,75	1,64	-	-	9,6	9,2	8,5	6,7	4,3	3,5	1,9	-	-
FEKA VS 550 T-NA																																
FEKA VS 750 M-NA	1038	0,75	1	1,94	-	-	14		13,4	12,8	11,2	9	8,3	6,7	5,3	3																
FEKA VS 750 M-A																	1469	1	1,36	6,63	25	450	14	13,4	12,8	11,2	9	8,3	6,7	5,3	3	
FEKA VS 750 T-NA																																1374
FEKA VS 1000 M-NA	1936	1,2	1,6	8,63	30	450	14		13,4	12,8	11,2	9	8,3	6,7	5,3	3																
FEKA VS 1000 M-A																	1865	1,2	1,6	3,44	-	-	14	13,4	12,8	11,2	9	8,3	6,7	5,3	3	
FEKA VS 1000 T-NA																																1865
FEKA VS 1200 M-NA	1865	1,2	1,6	3,44	-	-	14		13,4	12,8	11,2	9	8,3	6,7	5,3	3																
FEKA VS 1200 M-A																	1865	1,2	1,6	3,44	-	-	14	13,4	12,8	11,2	9	8,3	6,7	5,3	3	
FEKA VS 1200 T-NA																																1865



## Applications

Stainless steel submersible centrifugal pump with **technopolymer** liquid vortex impeller, suitable for pumping sewer water and waste water in general containing solids up to a maximum size of **50 mm**.

## Structural characteristics of the pump

Technopolymer pump casing with threaded metal insert inserted into the delivery port, stainless steel seal cover, motor casing and cover with handle.

### Technopolymer impeller

Handle with insulating rubber cover.

AISI 316 stainless steel drive shaft

Double mechanical seal with intermediate oil chamber (atoxic oil), in carbon/alumina on the motor side and silicon carbide/silicon carbide on the pump side.

## Structural characteristics of the motor

Dry, asynchronous, sealed and cooled by the pumped liquid.

Rotor mounted on greased for-life ball bearings, oversized and selected to guarantee greater noise reduction and duration. Thermo-ampometric protection as standard for single-phase version, and the user's responsibility for the three-phase version.

Constantly active capacitor on the single-phase version.

Construction in accordance with the IEC 2-3 IEC 61-69 (EN 60335-2-41) standards.

Motor protection class: IP 68

Insulation class: F

Standard voltage: 220-240V 50Hz Single-phase

400V 50Hz Three-phase

Continual running with liquid at 35 °C and pump completely submerged.

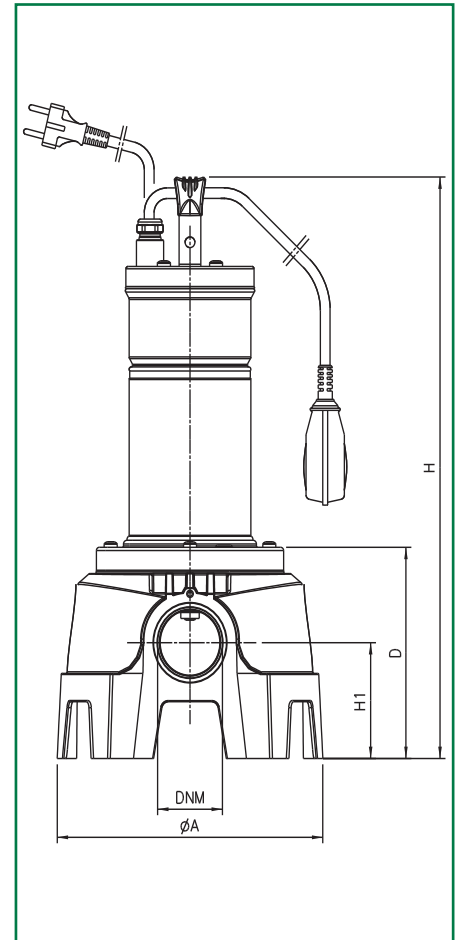
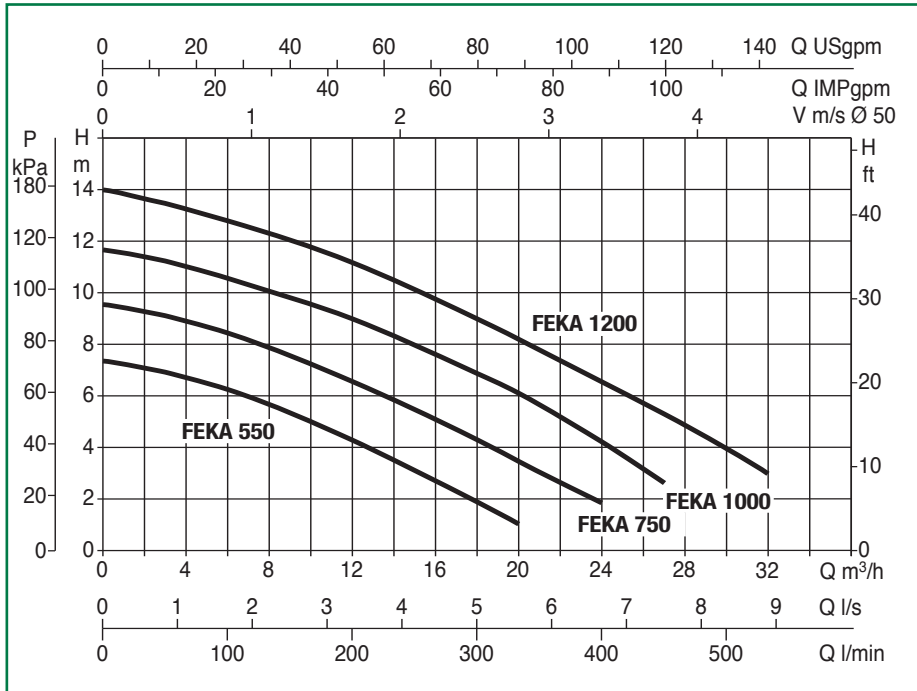
The single-phase version can be supplied with float for automatic function.

Power supply cable: 10 metres of H07RN-F cable with Shuko plug for the single-phase version and 10 meters of H07RN-F cable for the three-phase version.

## Technical data

- Operating range: from 0 to 32 m<sup>3</sup>/h with head up to 14 meters.
- Pumped liquid: sewer water and waste water in general and non aggressive.
- Liquid temperature range:
  - from 0°C to +35°C for household use (EN 60335-2-41)
  - from 0°C to +50°C for other uses
- Maximum ambient temperature for pump running with submerged motor: +40°C
- Maximum immersion depth: 10 meters
- Installation: fixed or portable, vertical.

## DIMENSIONS AND WEIGHTS



MODEL	A	D	H	H1	Ø DNM	PACKAGING DIM.			VOL m³	GROSS WEIGHT Kg
						L/A	L/B	H		
FEKA VX 550	245	179	498	98	2" F	360	600	320	0,069	16,7
FEKA VX 750	245	179	498	98	2" F	360	600	320	0,069	17,9
FEKA VX 1000	245	179	543	98	2" F	360	600	320	0,069	19,6
FEKA VX 1200	245	179	543	98	2" F	360	600	320	0,069	21,1

## ELECTRICAL AND HYDRAULIC DATA

MODEL	VOLTAGE 50 HZ	ELECTRICAL SPECIFICATIONS						HYDRAULIC SPECIFICATIONS (N≈2800 1/min)																								
		P1 max W	P2 Nominal		In A	CAPACITOR. µF	VC																									
			kW	HP				m³/h	0	3	6	12	18	20	24	27	32															
FEKA VX 550 M-NA	1x220-240 V~	927	0,55	0,75	4,2	12,5	450	H (m)	7,4	6,9	6,2	4,1	1,8	1,2	-	-	-															
FEKA VX 550 M-A																		900	0,55	0,75	1,64	-	-	9,6	9,2	8,5	6,7	4,3	3,5	1,9	-	-
FEKA VX 550 T-NA																																
FEKA VX 750 M-NA	1038	0,75	1	1,94	-	-	14		13,4	12,8	11,2	9	8,3	6,7	5,3	3																
FEKA VX 750 M-A																	1469	1	1,36	6,63	25	450	14	13,4	12,8	11,2	9	8,3	6,7	5,3	3	
FEKA VX 750 T-NA																																1936
FEKA VX 1000 M-NA	1865	1,2	1,6	3,44	-	-	14		13,4	12,8	11,2	9	8,3	6,7	5,3	3																
FEKA VX 1000 M-A																	1865	1,2	1,6	3,44	-	-	14	13,4	12,8	11,2	9	8,3	6,7	5,3	3	
FEKA VX 1000 T-NA																																1865
FEKA VX 1200 M-NA	1865	1,2	1,6	3,44	-	-	14		13,4	12,8	11,2	9	8,3	6,7	5,3	3																
FEKA VX 1200 M-A																	1865	1,2	1,6	3,44	-	-	14	13,4	12,8	11,2	9	8,3	6,7	5,3	3	
FEKA VX 1200 T-NA																																1865

### GENERAL DATA

#### Applications

Electric panel for the protection and automatic operation by means of one or more floats of single-phase electropumps, like t is indicated in the following table:

CONTROL PANEL	ELECTROPUMP
<b>ED 1,3 M</b>	FEKA VS 550 M-NA, FEKA VS 750 M-NA, FEKA VS 1000 M-NA, FEKA VS 1200 M-NA FEKA VX 550 M-NA, FEKA VX 750 M-NA, FEKA VX 1000 M-NA, FEKA VX 1200 M-NA

#### Characteristics

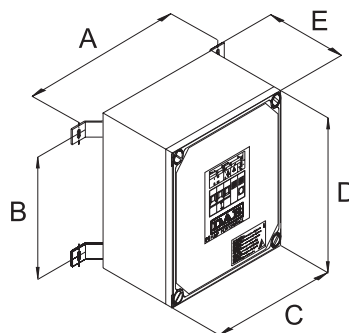
Supplied in a thermoplastic self-extinguishing box, fitted with a bracket for wall mounting. The panel is self-protected and it protects the electropump from overloads and short circuit breakers with manual reset (only for model ED 3 M).

Complete with:

- insulating switch of the supply line;
- self-protected transformer for the supply at 24V of the external controls;
- terminals for connecting the electropump and the control floats minimum/maximum ( or thrust meter etc.);
- terminals for connecting the alarm float and for installing a remote acoustic or luminous alarm (without potential);
- thermal protection with manual reset for connection to the KK leads from the motor (only for model ED 3 M);
- button in front of the panel for the manual functioning of the electropump;
- green signal in front the panel indicating the working pump.

### TECHNICAL DATA

- |   |                                      |
|---|--------------------------------------|
| - Supply voltage:                           | 220-240V~ +/- 10%                    |
| - Phases:                                   | 1                                    |
| - Frequency:                                | 50-60 Hz                             |
|   | <b>ED 1,3 M</b>                      |
| - Rated output power:                       | 1,85 KW 220-240 V                    |
| - Max. rated using current:                 | 10 Ampere                            |
| - Starting capacitor:                       | -                                    |
| - Field of use environment temp.:           | -10°C +40°C                          |
| - Storage environment temp. limit:          | -25°C + 55°C                         |
| - Relative humidity (without condensation): | 50% a 40°C MAX (90% a 20°C)          |
| - Max. altitude:                            | 3000 m (a.s.l.)                      |
| - Degree of protection:                     | IP55                                 |
| - Construction of the panels:               | according to EN 60204-1 e EN 60439-1 |



MODEL	DIMENSIONS (mm)					WEIGHT (Kg)
	A	B	C	D	E	
<b>ED 1,3 M</b>	350	245	270	300	190	5,6
						5,6

## E2D 2,6 M



### GENERAL DATA

#### Applications

Electric panel for the protection and automatic operation by means of one or more floats of single-phase electropumps, like it is indicated in the following table:

CONTROL PANEL	ELECTROPUMP
<b>E2D 2,6 M</b>	FEKA VS 550 M-NA, FEKA VS 750 M-NA, FEKA VS 1000 M-NA, FEKA VS 1200 M-NA FEKA VX 550 M-NA, FEKA VX 750 M-NA, FEKA VX 1000 M-NA, FEKA VX 1200 M-NA

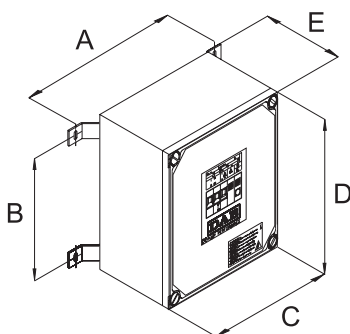
#### Characteristics

Supplied in a thermoplastic self-extinguishing box, fitted with a bracket for wall mounting. The panel is self-protected and it protects the electropump from overloads and short circuit breakers with manual reset (only for model E2D 6 M). Complete with:

- insulating switch of the supply line;
- self-protected transformer for the supply at 24V of the external controls;
- terminals for connecting the electropump and the control floats minimum/maximum (or thrust meter etc.);
- terminals for connecting the alarm float and for installing a remote acoustic or luminous alarm (without potential);
- thermal protection with manual reset for connection to the KK leads from the motor (only for model E2D 6 M);
- set for the starting order's inversion of the two pumps at each starting;
- buttons in front of the panel for the manual functioning of the electropumps;
- green signals in front the panel indicating the working pumps.

### TECHNICAL DATA

- Supply voltage: 220-240V~ +/- 10%
  - Phases: 1
  - Frequency: 50-60 Hz
- E2D 2,6 M**
- Rated output power: 1,85 kW+1,85 kW 220-240V
  - Max. rated using current: 10+10 Ampere
  - Starting capacitor: -
  - Field of use environment temp.: -10°C +40°C
  - Storage environment temp. limit: -25°C + 55°C
  - Relative humidity (without condensation): 50% a 40°C MAX (90% a 20°C)
  - Max. altitude: 3000 m (a.s.l.)
  - Degree of protection: IP55
  - Construction of the panels: according to EN 60204-1 e EN 60439-1



MODEL	DIMENSIONS (mm)					WEIGHT (Kg)
	A	B	C	D	E	
<b>E2D 2,6 M</b>	345	335	270	390	230	8

## ED 1 T - ED 1,5 T



### GENERAL DATA

#### Applications

Electric panels for the protection and automatic operation by means of one or more floats of single-phase electropumps, like t is indicated in the following table:

CONTROL PANEL	ELECTROPUMP
<b>ED 1 T</b>	FEKA VS 550 T-NA, FEKA VS 750 T-NA, FEKA VX 550 T-NA, FEKA VX 750 T-NA,
<b>ED 1,5 T</b>	FEKA VS 1000 T-NA, FEKA VS 1200 T-NA, FEKA VX 1000 T-NA, FEKA VX 1200 T-NA

#### Characteristics

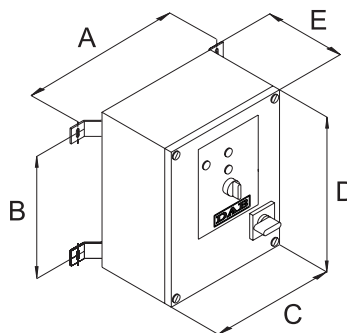
Supplied in a thermoplastic self-extinguishing box, fitted with a bracket for wall mounting. The panel is self-protected and it protects the electropump from overloads and short circuit breakers with manual reset (only for model ED 2,5 T paired off to Drenag/Feka/Grinder 1800).

Complete with:

- insulating switch of the supply line;
- self-protected transformer for the supply at 24V of the external controls;
- terminals for connecting the electropump and the control floats minimum/maximum (or thrust meter etc.);
- terminals for connecting the alarm float and for installing a remote acoustic or luminous alarm (without potential);
- thermal protection with manual reset for connection to the KK leads from the motor (only for model ED 2,5 T, fit a jumper when using it with Feka 2500.4 T - 2500.2 T - 2700.2 T);
- switch in front the panel for the manual functioning - o - automatic of the electropump;
- signalling in front the panel:
  - luminous red signal which indicates the intervention of the amperometric protection;
  - luminous green signal which indicates that the pump is working;
  - luminous white signal which indicates the correct functioning of the auxiliaries circuits.

### TECHNICAL DATA

- Supply voltage: 400 V +/- 10%
  - Phases: 3
  - Frequency: 50 - 60 Hz
- |                             | <b>ED 1 T</b> | <b>ED 1,5 T</b> |
|-----------------------------|---------------|-----------------|
| - Rated output power:       | 1,38 KW       | 2,2 KW          |
| - Max. rated using current: | 2,5 A         | 4A              |
- Field of use environment temp.: -10°C +40°C
  - Storage environment temp. limit: -25°C +55°C
  - Relative humidity (without condensation): 50% at 40°C max. (90% at 20°C)
  - Max. altitude: 3000 m (a.s.l.)
  - Degree of protection: IP 55
  - Construction of the panels: according to EN 60204-1 and EN 60439-1



MODEL	DIMENSIONS (mm)					WEIGHT (Kg)
	A	B	C	D	E	
<b>ED 1 T</b>	350	245	270	300	230	5,6
<b>ED 1,5 T</b>	350	245	270	300	230	5,6

# CONTROL PANELS

## E2D 2 T - E2D 3 T



### GENERAL DATA

#### Applications

Electric panels for the protection and automatic operation by means of one or more floats of single-phase electropumps, like t is indicated in the following table:

CONTROL PANEL	ELECTROPUMP
<b>E2D 2 T</b>	FEKA VS 550 T-NA, FEKA VS 750 T-NA, FEKA VX 550 T-NA, FEKA VX 750 T-NA,
<b>E2D 3 T</b>	FEKA VS 1000 T-NA, FEKA VS 1200 T-NA, FEKA VX 1000 T-NA, FEKA VX 1200 T-NA

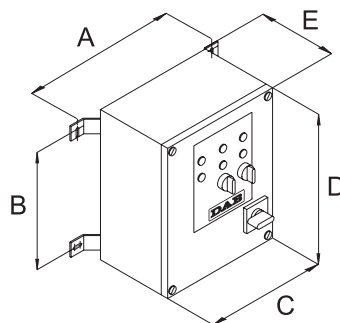
#### Characteristics

Supplied in a thermoplastic self-extinguishing box, fitted with brackets for wall mounting. The panel is self-protected and it protects the electropump from overloads and short circuit breakers with manual reset (only for model ED 5 T). Complete with:

- insulating switch of the supply line with block door-handle and lock;
- self-protected transformer for the supply at 24V of the external controls;
- terminals for connecting the electropump and the control floats minimum/maximum ( or thrust meter etc.);
- terminals for connecting the alarm float and for installing a remote acoustic or luminous alarm (without potential);
- thermal protection with manual reset for connection to the KK leads from the motor (only for model ED 5 T);
- set for the starting order's inversion of the two pumps at each starting, for the functioning simultaneously and for the insertion of one of the two in case of damage of the other one;
- switch in front the panel for the manual functioning - o - automatic of each electropump;
- signalling in front the panel:
  - luminous red signal which indicates the intervention of the amperometric protection for each electropump;
  - luminous green signals which indicate that the pumps are working;
  - luminous white signal which indicates the correct functioning of the auxiliaries circuits.

### TECHNICAL DATA

- Supply voltage:	400 V +/- 10%
- Phases:	3
- Frequency:	50 - 60 Hz
	<b>E2D 2 T</b> <b>E2D 3 T</b>
- Rated output power:	1,38 +1,38 KW    2,2 +2,2 KW
- Max. rated using current:	2,5 +2,5A                      4+4A
- Field of use environment temp.:	-10°C +40°C
- Storage environment temp. limit:	-25°C +55°C
- Relative humidity (without condensation):	50% at 40°C max. (90% at 20°C)
- Max. altitude:	3000 m (a.s.l.)
- Degree of protection:	IP 55
- Construction of the panels:	according to EN 60204-1 and EN 60439-1



MODEL	DIMENSIONS (mm)					WEIGHT (Kg)
	A	B	C	D	E	
<b>E2D 2 T</b>	345	335	270	390	230	8
<b>E2D 3 T</b>	345	335	270	390	230	8



DAB PUMPS Spa - Via Marco Polo, 14 - 35035 Mestrino PADOVA - Italy - Tel. +39-049-9048811 r.a. - Fax +39-049-9048847 - [www.dabpumps.com](http://www.dabpumps.com)

**Sales Export dept:**

Ph: +39-049-9048895-96-97  
Fax +39-049-9048900

**Customer Technical Assistance:**

Ph. +39-049-9048911-12-14  
Fax +39-049-9048920