



# VLE FAN HEATER

VLE fan heaters are for fix mounting (non-portable) and are ideal for use in areas where high output is needed. It has a very stable construction and can therefore be used where high vibrations can occur. The fan heater is made of materials able to withstand aggressive effects at sea, on offshore installations, in warehouses and for large manufacturing facilities.

The product is produced in two different types of materials, recommended for the following uses:

- Stainless steel AISI 316L - for outdoor and corrosive areas like offshore and other harsh environments
- Cabinet in galvanized steel and with coated steel control panel mainly for indoor use and non-corrosive areas like onshore use, sports halls, warehouses and manufacturing facilities

Regardless of which material is selected, the heating elements (stainless steel AISI 316L) are bright annealed.

The power is divided into 3 steps (low - medium - full power). This gives you a fan heater with a large window of power in only one unit. The fan provides an airflow/circulation and air heating for outdoor or indoor installation. Power can easily be changed manually on the outside of the control panel to give you the preferred output. For change of airflow you need an *external fan unit adjustment control* - see under "accessories for VLE fan heaters"

## STANDARDS AND APPROVALS

- CE
- EN 60335-1:2012
- EN 60335-2-30:2009
- EN 60204-1:2006
- EN 62233:2008
- IEC/EN 61000-6-2:2006
- IEC/EN 61000-6-4:2007
- EN 50581:2012

Our VLE fan heaters can be approved by DNV, ABS and other 3. parties.

## TECHNICAL DATA

### Voltage range:

- 1x230V and 3x230V to 3x690V

### Degree of protection for fan motor:

- IP44 (VLE 4)
- IP54 (VLE 5 og VLE6)

### Degree of protection for control panel:

- IP66 for all three models

### Integrated room thermostat:

0-40°C thermostat, ensuring optimum operation and minimising energy consumption

### Integrated safety components:

- TSH with automatic reset and TSHH with manual reset to prevent overheating
- overload fuse to prevent the motor to overheat

### Cable glands:

VLE fan heaters above 16 amp are pre-fitted with M32 cable glands. Reducing parts for M20 and M25 cable glands are also included. Fan heaters under 16 amp are pre-fitted with M20. Standard material for cable glands - polyamide. Other material on request.

### Lifting lugs:

Regardless of model, the heater weighs more than 25 kg and is therefore supplied with lifting lugs to ensure better working conditions during installation and maintenance.

## ACCESSORIES FOR VLE FAN HEATERS

In addition to our standard range shown on the following pages, optional extras are available:

- External room thermostat 0-40°C, IP44 (item no. 19400505)
- External room thermostat 0-40°C IP65 (item no. 19400502)
- External fan unit start/stop circuit breaker, IP66 (item no. 19400501). Allows the heater to be used to circulate cold air
- External fan unit adjustment control (Item no. 19400503)  
Noise level can be reduced to dB 50 at low fan speed



## STANDARD PROGRAMME

- Type: VLE 5
- Power: 6-9-15 kW or 9-15-24 kW (3 steps)
- Material: Stainless steel AISI 316L or cabinet in galvanized steel with coated control panel
- Size: W740 x H570 x D690 mm
- Frequency: 50/60 Hz
- Maximum volume of air at nominal fan speed: 3500/4200 m<sup>3</sup>/h - 50/60 Hz  
(air volume at low fan speed: 2600/3100 m<sup>3</sup>/h - 50/60 Hz possible with the purchase of a regulator, see page 1)
- Maximum throw at nominal fan speed: 12/14 m - 50/60 Hz
- Degree of protection for control panel: IP66
- Degree of protection for fan motor: IP54
- Sound level at nominal fan speed: dB 65 (measured at a distance of 5 metres from the unit)  
Can be reduced to dB 56 when using a regulator for the fan unit (see page 1)



Material	Type Effekt (3 steps)	Item no.	Voltage	Current (min. supply)	Rise of temperature at nominal fan speed	Weight
Stainless steel AISI 316L	VLE 5 6-9-15 kW	21410130	3x230V	38 A	6/5°C	62 kg
		21410131	3x380V	23 A	6/5°C	62 kg
		21410132	3x400V	22 A	9/8°C	62 kg
		21410133	3x440V	20 A	9/8°C	62 kg
		21410134	3x480V	19 A	16/13°C	62 kg
		21410135	3x690V	13 A	16/13°C	62 kg
Stainless steel AISI 316L	VLE 5 9-15-24 kW	21410142	3x230V	61 A	9/7°C	65 kg
		21410143	3x380V	37 A	9/7°C	65 kg
		21410144	3x400V	35 A	16/13°C	65 kg
		21410145	3x440V	32 A	16/13°C	65 kg
		21410146	3x480V	29 A	26/21°C	65 kg
		21410147	3x690V	21 A	26/21°C	65 kg
Cabinet galvanized steel and coated steel control panel	VLE 5 6-9-15 kW	21410124	3x230V	38 A	6/5°C	62 kg
		21410125	3x380V	23 A	6/5°C	62 kg
		21410126	3x400V	22 A	9/8°C	62 kg
		21410127	3x440V	20 A	9/8°C	62 kg
		21410128	3x480V	19 A	16/13°C	62 kg
		21410129	3x690V	13 A	16/13°C	62 kg
Cabinet galvanized steel and coated steel control panel	VLE 5 9-15-24 kW	21410136	3x230V	61 A	9/7°C	65 kg
		21410137	3x380V	37 A	9/7°C	65 kg
		21410138	3x400V	35 A	16/13°C	65 kg
		21410139	3x440V	32 A	16/13°C	65 kg
		21410140	3x480V	29 A	26/21°C	65 kg
		21410141	3x690V	21 A	26/21°C	65 kg