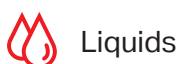

Fan Heaters

Type VLEx

Fan Heater type VLEx has been designed for Explosion Proof industrial applications. Our Fan Heaters are characterized mainly by their quality, both in used materials and design.



SINUS
JEVI Ω



Liquids



Gasses



Solids



Spaces



Resistors

VLEx Fan Heaters

VLEx fan heaters are for fix mounting (non-portable) and are ideal for use in classified zone 1 & 2, where high performance of heating is required. It has a very robust construction. 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 fan provides an airflow/circulation and air heating for outdoor or indoor installation.

MATERIALS

- Cabinet and heater junction box: stainless steel AISI 316L
- d-enclosure: casted aluminium
- Heating elements: stainless steel AISI 316L, bright annealed

STANDARDS AND APPROVALS

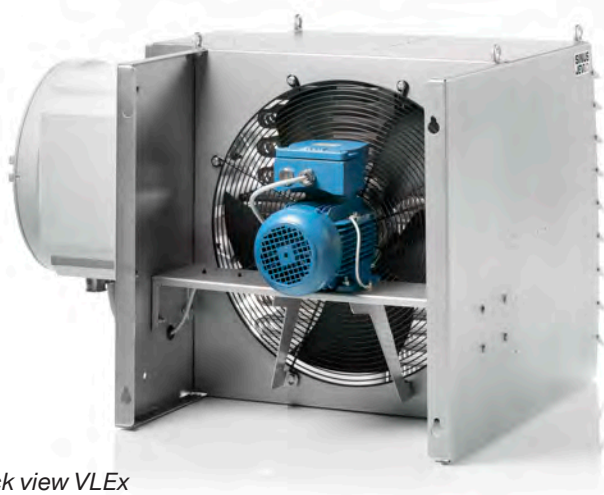
- | | |
|----------------------|-------------------------|
| • CE | • IEC/EN 61000-6-2:2006 |
| • EN 60335-1:2012 | • IEC/EN 61000-6-4:2007 |
| • EN 60335-2-30:2009 | • IEC/EN 60079-1 |
| • EN 60204-1:2006 | • IEC/EN 60079-7 |
| • EN 62233:2008 | • IEC/EN 60079-11 |
| • EN 50581:2012 | • IEC/EN 60079-14 |

VLEx fan heaters approved by DNV and/or ABS on request.

MARKING

ATEX & IEC

- Ex db eb IIC T3 Gb or
- Ex db eb [ja] IIC T3 Gb



Back view VLEx

TECHNICAL DATA

Voltage range:

- 3x400V, 3x440V, 3x480V and 3x690V

Degree of protection for fan motor:

- IP55

Degree of protection for heater junction box (e-enclosure) and d-enclosure:

- IP66

Integrated safety components

- TSHH, with manual outside reset to prevent overheating
- Overcurrent protection to prevent the motor to overheat

Cable glands

- Supplied with M32 cable glands for Ø17 - Ø26,3 cable
- Type: CMP
- Material: nickle plated brass

Lifting lugs

Supplied with lifting lugs to ensure safe working conditions during installation and maintenance.

Control:

- On/Off control with circuit breaker

Ambient temperature:

- -25°C to +50°C

Storage temperature:

- -25°C to +50°C

ACCESSORIES FOR VLE Ex FAN HEATERS

In addition to our standard range shown on next page, optional extras are available:

- Integrated room thermostat: 0-40°C thermostat, ensuring optimum operation and minimising energy consumption. Choose between location inside:
 - the Ex e control panel or
 - the Ex d control panel
- Room thermostat for wall mounting 0-40°C
- TSH, temperature range 0-200°C
- Flow switch
- Main switch
- RTD (PT100 sensor and 4-20mA transmitter instead of integrated room thermostat, for external control
- Cable gland reducer nickle plated brass to M25 for Ø11,1 - Ø20 cable
- Cable gland reducer nickle plated brass to M20 for Ø6,5 - Ø14 cable
- Gland nickle plated brass M32
- Gland nickle plated brass M32 + M25 + M20

See our standard range on the following pages.

STANDARD PROGRAMME

- Type: VLEx - S (small)
- Power: 3.5 - 7 - 10.6 kW
- Material:
 - Cabinet and heater junction box: Stainless steel AISI 316L
 - d-enclosure: casted aluminium
 - Heating elements: stainless steel AISI 316L, bright annealed
- Size: W776 x H500 x D755 mm
- Frequency: 50/60 Hz
- Maximum volume of air at nominal fan speed for:
 - 3.5kW: 1550/1890 m³/h
 - 7 and 10.6 kW: 2500/3500 m³/h - 50/60Hz
- Degree of protection for control panels: IP66
- Degree of protection for fan motor: IP55
- Ambient temperature: -25°C to +50°C
- Storage temperature: -25°C to +50°C



Type Power	Item no. Frequency 50Hz	Item no. Frequency 60Hz	Voltage	Current (min. supply)	dB (A) (50/60Hz)
VLEx - S 3.5 kW	21960201	21960202	3x400V	6 A	51/55
	21960203	21960204	3x440V	6 A	
	21960205	21960206	3x480V	5 A	
	21960207	21960208	3x690V	4 A	
VLEx - S 7 kW	21960209	21960210	3x400V	11 A	56/61
	21960211	21960212	3x440V	10 A	
	21960213	21960214	3x480V	9 A	
21960215	21960216	3x690V	7 A		
VLEx - S 10.6 kW	21960217	21960218	3x400V	16 A	
	21960219	21960220	3x440V	15 A	
	21960221	21960222	3x480V	14 A	
	21960223	21960224	3x690V	10 A	



STANDARD PROGRAMME

- Type: VLEx - M (medium)
- Power: 11.7 - 15.6 - 19.5 kW
- Material:
 - Cabinet and heater junction box: Stainless steel AISI 316L
 - d-enclosure: casted aluminium
 - Heating elements: stainless steel AISI 316L, bright annealed
- Size: W936 x H665 x D755 mm
- Frequency: 50/60 Hz
- Maximum volume of air at nominal fan speed for: 3800/4600 m³/h
- Degree of protection for control panels: IP66
- Degree of protection for fan motor: IP55
- Ambient temperature: -25°C to +50°C
- Storage temperature: -25°C to +50°C



Type Power	Item no. Frequency 50Hz	Item no. Frequency 60Hz	Voltage	Current (min. supply)	dB (A) (50/60Hz)
VLEx - M 11.7 kW	21960225	21960226	3x400V	18 A	60/64
	21960227	21960228	3x440V	16 A	
	21960229	21960230	3x480V	15 A	
	21960231	21960232	3x690V	11 A	
VLEx - M 15.6 kW	21960233	21960234	3x400V	24 A	
	21960235	21960236	3x440V	21 A	
	21960237	21960238	3x480V	20 A	
	21960239	21960240	3x690V	14 A	
VLEx - M 19.5 kW	21960241	21960242	3x400V	29 A	
	21960243	21960244	3x440V	27 A	
	21960245	21960246	3x480V	24 A	
	21960247	21960248	3x690V	17 A	



STANDARD PROGRAMME

- Type: VLEx - L (large)
- Power: 23.4 - 27.3 - 31.2 - 35.1 kW
- Material:
 - Cabinet and heater junction box: Stainless steel AISI 316L
 - d-enclosure: casted aluminium
 - Heating elements: stainless steel AISI 316L, bright annealed
- Size: W936 x H665 x D950 mm
- Frequency: 50/60 Hz
- Maximum volume of air at nominal fan speed for: 4800/6800 m³/h
- Degree of protection for control panels: IP66
- Degree of protection for fan motor: IP55
- Ambient temperature: -25°C to +50°C
- Storage temperature: -25°C to +50°C



Type Power	Item no. Frequency 50Hz	Item no. Frequency 60Hz	Voltage	Current (min. supply)	dB (A) (50/60Hz)
VLEx - L 23.4 kW	21960249	21960250	3x400V	35 A	65/68
	21960251	21960252	3x440V	32 A	
	21960253	21960254	3x480V	30 A	
	21960255	21960256	3x690V	21 A	
VLEx - L 27.3 kW	21960257	21960258	3x400V	41 A	
	21960259	21960260	3x440V	37 A	
	21960261	21960262	3x480V	34 A	
	21960263	21960264	3x690V	24 A	
VLEx - L 31.2 kW	21960265	21960266	3x400V	47 A	
	21960267	21960268	3x440V	42 A	
	21960269	21960270	3x480V	39 A	
	21960271	21960272	3x690V	27 A	
VLEx - L 35.1 kW	21960273	21960274	3x400V	52 A	
	21960275	21960276	3x440V	48 A	
	21960277	21960278	3x480V	44 A	
	21960279	21960280	3x690V	30 A	



SINUS JEVIΩ

Sinus was one of the pioneers in the field of explosion proof heating equipment, today we are still operating at the forefront. We design and manufacture according to ATEX as well as IECEx and EAC directives.

Our company is certified to design and produce Ex-equipment. and we also in the possession of ISO 9001 and ISO 14001 certificates.

NIBE