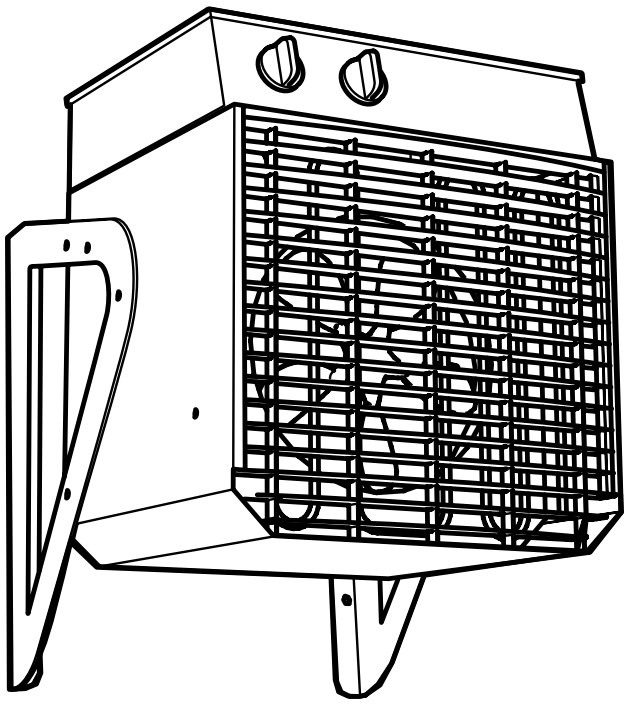
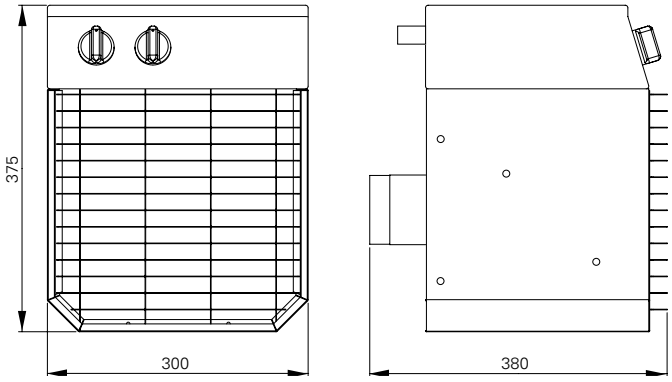
Elektra V



Elektra V

ELV3333, ELV3344, ELV5333, ELV6344



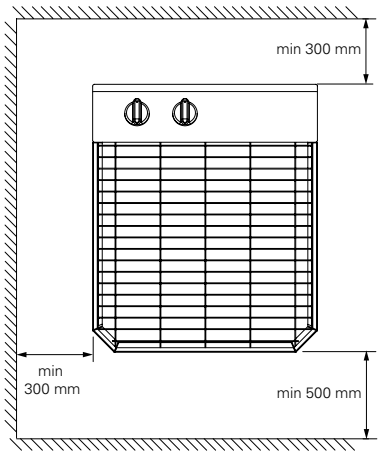


Fig. 1

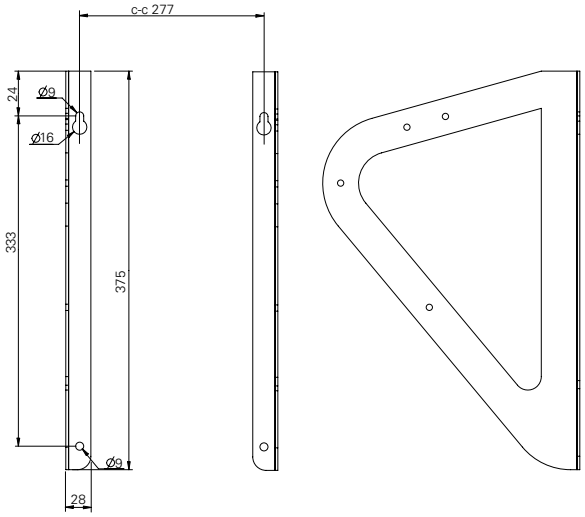


Fig. 2

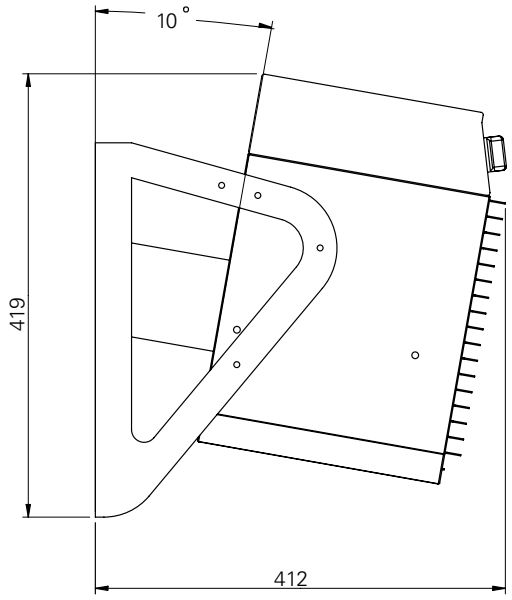


Fig. 3

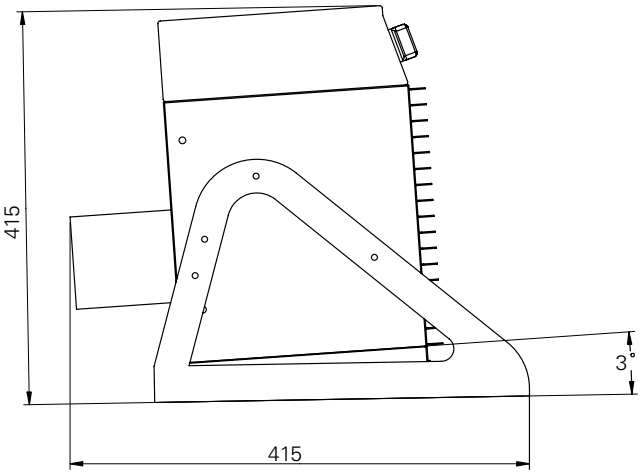


Fig. 4

Elektra V

Fig. 5

Fig. 6

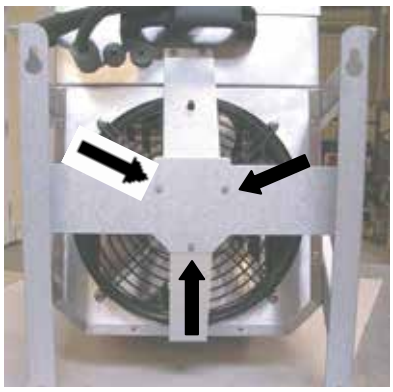


Fig. 7

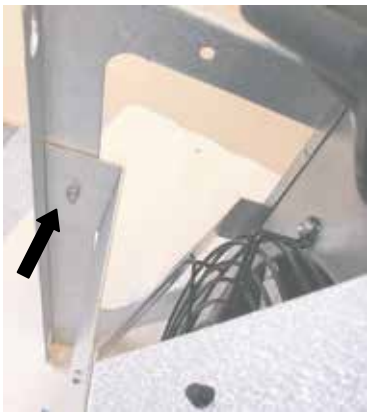


Fig. 8

Technical specifications

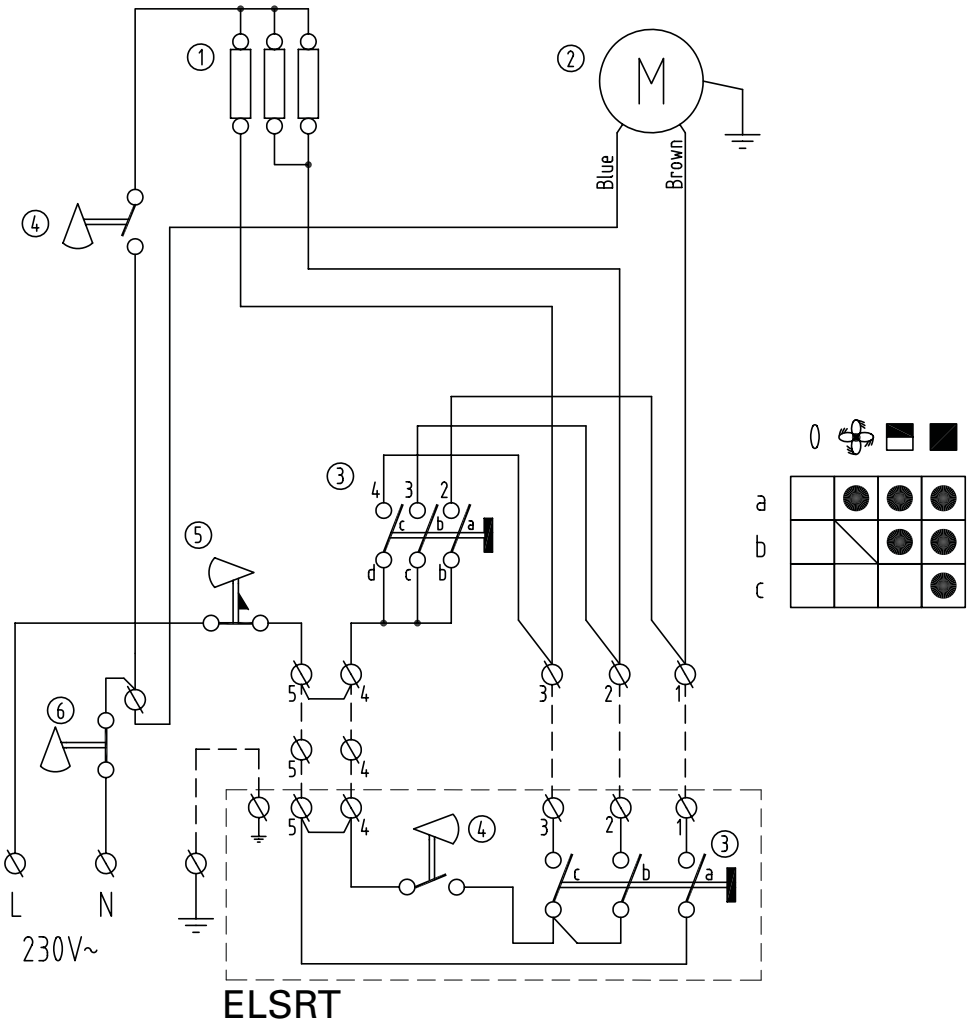
Type	Output [kW]	Output steps [kW]	Voltage [V]	Amperage [A]	Airflow [m³/h]	Sound level*1 [dB(A)]	Δt*2 [°C]	Weight [kg]
ELV331	3	0/2/3	230V~	9.0/13.3	400	48	21	13
ELV3333	3	0/1.5/3	400V3~	4.0/4.6	400	48	21	13
ELV3344	3,6	0/1.8/3.6	440V3~	4.4/5.1	400	48	21	13
ELV5323	5	0/2.5/5	230V3~	11.1/12,8	700	53	17	13
ELV5333	5	0/2.5/5	400V3~	6.5/7.5	700	53	17	13
ELV6344	6	0/3/6	440V3~	7.1/8.2	700	53	17	13

[1]) Distance to fan: 5 metres.

[2]) Δt = Temperature rise of passing air at maximum heat output.

Elektra V

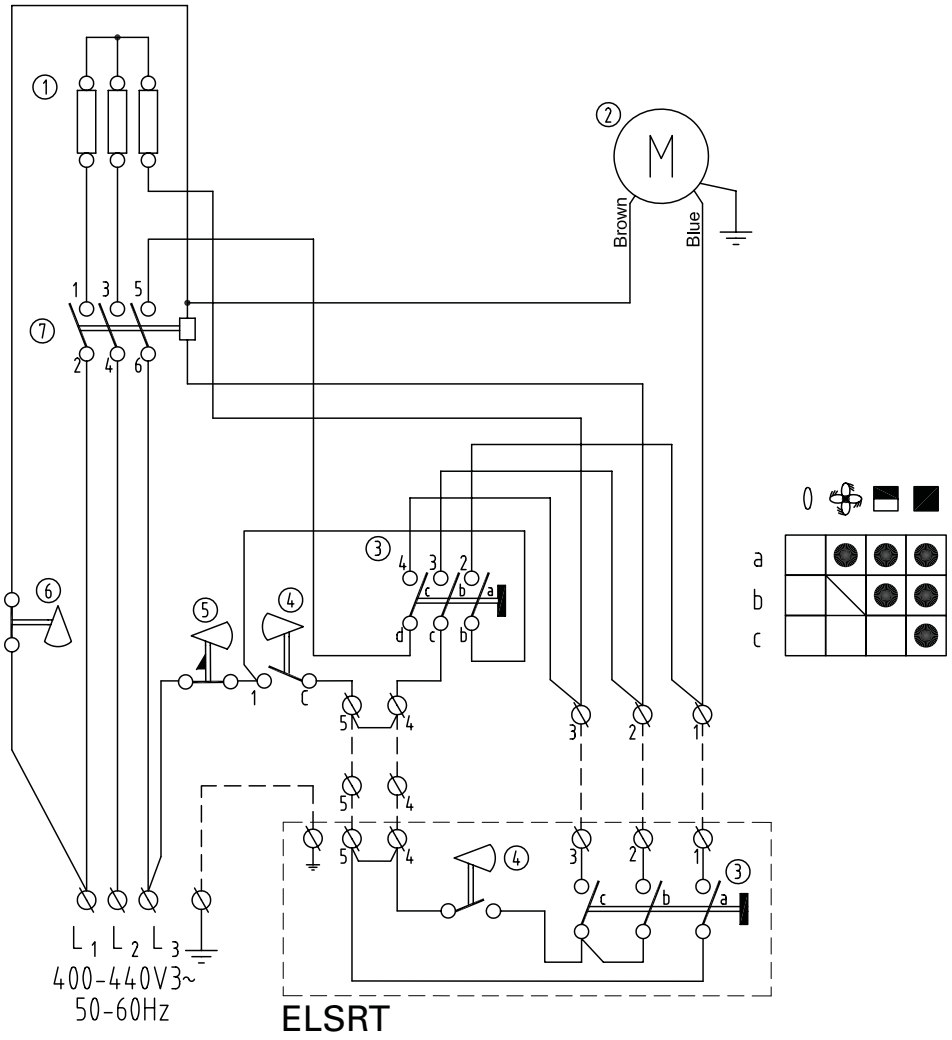
Elektra V 230V~
ELV331



1	Element/Værmeelement/Element/Elementii/Element/Heizelement/ Verwarmingselement
2	Fläktmotor/Ventilator/Viftemotor/Puhallinmoottori/ Fan motor/ Gebläse motor/Moteur de ventilateur/Ventilatornotor
3	Brytare/Afbryder/Bryter/Katkaisin/Switch/Schalter/Interrupteur/ Schakelaar
4	Termostat/Termostat/Termostat/Termostaatti/Thermostat/Thermost/Thermostat/ Thermostaat
5	Överhettningsskydd/Overophedningsbeskytter/Overhetingsvern/Ylikuumenemissuoja/ Overheating cut-out/Überhitzungschutz/Protection contre la surchauffe/ Oververhittningsthermostaat
6	Överhettningsskydd/Overophedningsbeskytter/Overhetingsvern/Ylikuumenemissuoja/ Overheating cut-out/Überhitzungschutz/Protection contre la surchauffe/ Oververhittningsthermostaat

Elektra V

Elektra V 400/440V3~
ELV3333, ELV3344, ELV5333, ELV6344



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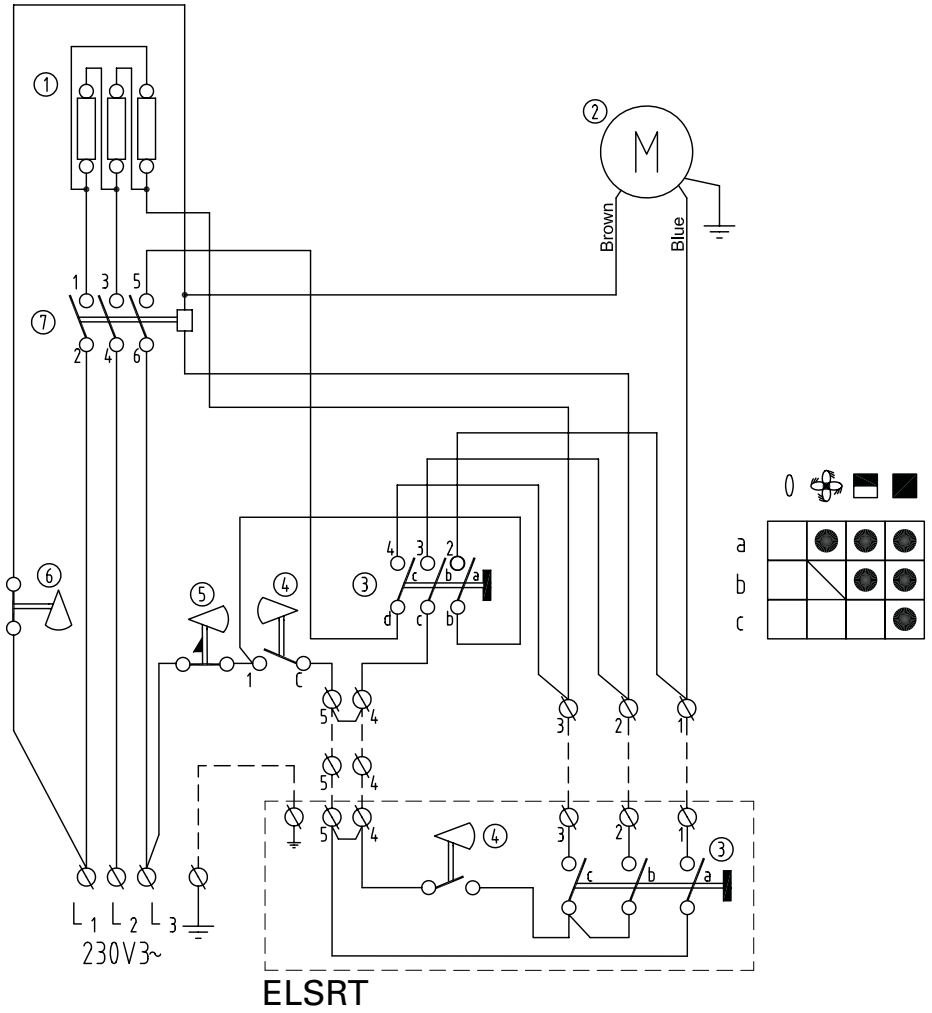
③	Brytare/Afbryder/Bryter/Katkaisin/Switch/Schalter/Interrupteur/ Schakelaar
④	Termostat/Termostat/Termostat/Termostaatti/Thermostat/Thermost/Thermostat/ Thermostaat
⑤	Överhettningsskydd/Overophedningsbeskytter/Overhetingsvern/Ylikuumenemissuoja/ Overheating cut-out/Überhitzungschutz/Protection contre la surchauffe/ Oververhittningsthermostaat
⑥	Överhettningsskydd/Overophedningsbeskytter/Overhetingsvern/Ylikuumenemissuoja/ Overheating cut-out/Überhitzungschutz/Protection contre la surchauffe/ Oververhittningsthermostaat
⑦	Kontaktor/Kontaktor/Kontaktor/Kontaktori/Contactor/Schutz/Contacteur/Relais

Elektra V

Elektra V 230V3~
ELV5323



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③	Brytare/Afbryder/Bryter/Katkaisin/Switch/Schalter/Interrupteur/ Schakelaar
④	Termostat/Termostat/Termostat/Termostaatti/Thermostat/Thermost/Thermostat/ Thermostaat
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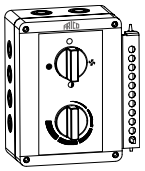
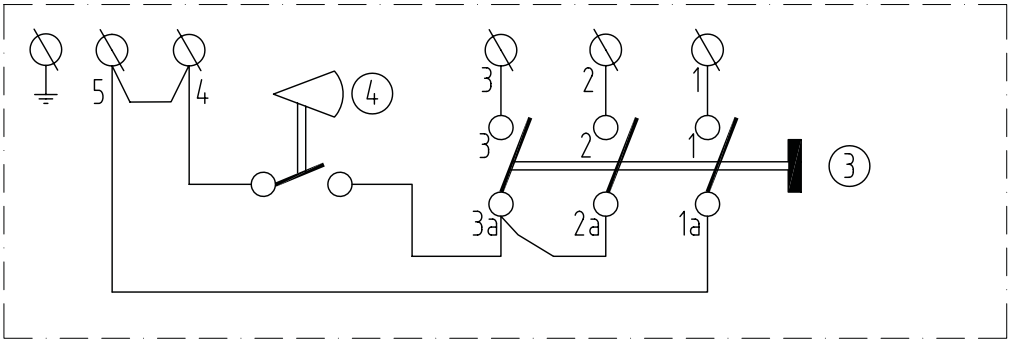
⑦	Kontaktor/Kontaktor/Kontaktor/Kontaktori/Contactor/Schutz/Contacteur/Relais

Elektra V

ELSRT



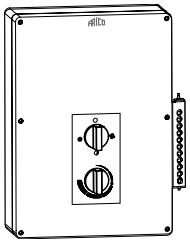


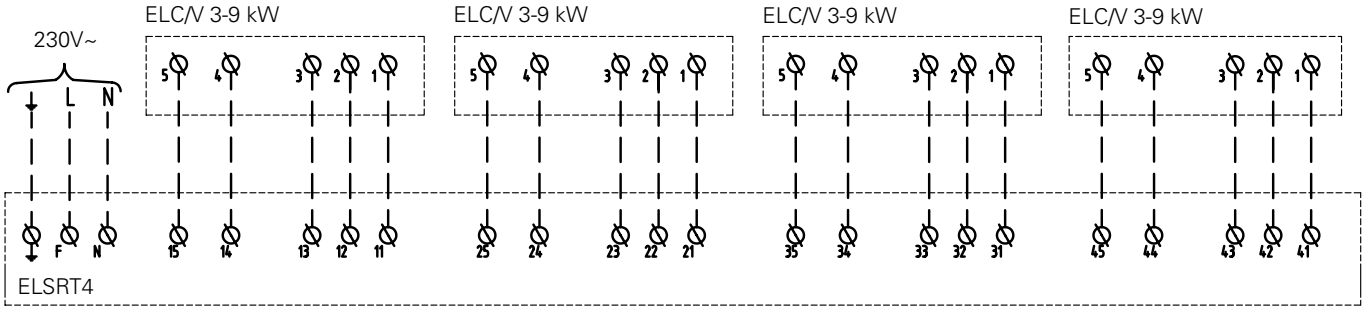
ELSRT

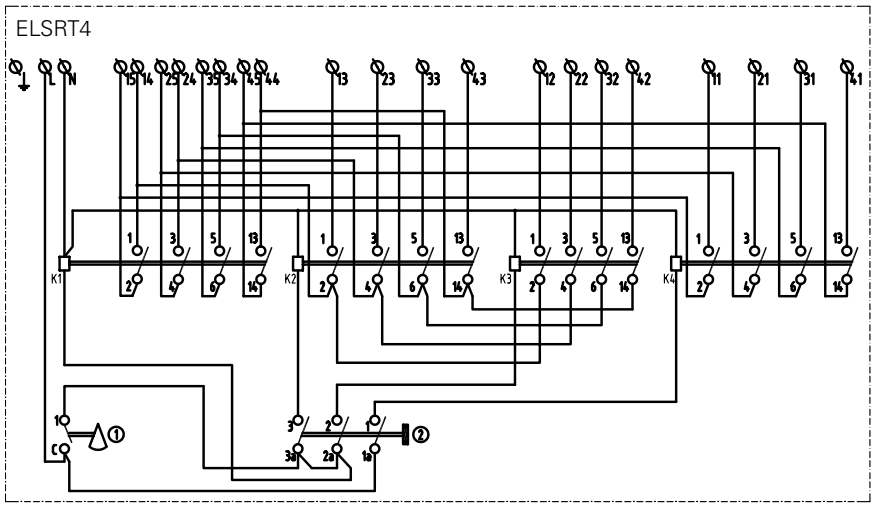
3 Switch

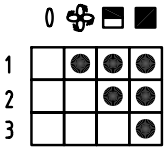
4 Thermostat

ELSRT4









① Thermostat
② Switch

EN

Elektra V

Mounting and assembly instruction

Application area

The fan heater is approved for use on ships and off-shore applications. Elektra V has reinforced electrical insulation, motor and heating elements have a construction that absorbs vibrations. For both fixed installation and portable use. Elektra V is available in 230V~, 400V3~ and 50 Hz and 440V3~ and 60Hz.

The fan heater should be installed for easy maintenance and inspection. For portable use, mount a suitable terminal with appropriate protection class. The fan heater is tested and approved according to the EMC- and SEMKO regulations and is CE compliant. Protection class: IP44. Approved by DNV, Det norske Veritas. The heater is also approved for 440V3~ and 60Hz. Casing and heating rods are made of stainless steel SS2320.

Operation

The fan is running constantly unless the output selector is set in 0 position. The heat output is controlled by the built in thermostat (0- +35°C) or with an external thermostat (KRT1900).

The on/off mode, and half or full heat output can be controlled with the output selector on the unit or with an external control panel (ELSRT/ ELSRT4) mounted on the wall for easy access. External control box or thermostat are ordered separately.

Off
Only fan
Fan + half output
Fan + full output

Mounting

Elektra V can be mounted permanently on the wall or be used as a portable fan heater.

Wall mounting

The fan heater must not be placed immediately below or in front of a wall socket.
Remove the plastic feet on the brackets.

1. Drill four holes in the wall with a c-c distance according to fig. 2 on page 2.
2. Fit the screws in the upper two holes.
3. Hang the heater by using the keyholes in the bracket and lock with the two lower screws.

Note! The minimum distances according to fig. 1 on page 2.

Portable use

1. Loosen the three screws with washers from the motor, see Fig. 7 page 3.
2. Loosen the screws on the bracket (the bracket is fitted on the casing).
3. Then loosen the two screws connecting the bracket and the support, see Fig. 8 page 3.
4. The support between motor and bracket is removed, it is not needed for portable use.
5. Fasten the three screws to the motor, see Fig. 7 page 3. Note! Don't forget the washers.
6. Mount the brackets on the fan according to Fig. 6 page 3.

Electrical installation

The electrical installation should be carried out by a qualified electrician in conformity with prevailing regulations. The appliance should be preceded by an all-pole switch with at least 3 mm breaking gap.

Use the knock-outs on the back of the appliance for installation of the external devices. Cable-glands used must guarantee the protection class requirements.

Overheating

Note! Opening the heater cover should only be done by a qualified installer.
The heater is equipped with two overheat protections, one with manual reset and one with automatic reset. If the manual overheat protection is released due to overheating, reset as follows:

- Disconnect the power with the fully isolated switch.
- Investigate the matter and repair the fault.
- Reset cut-out by opening the lid and pressing the red button until a click is heard.
- Put on the lid and make sure that the screws are tightened to ensure full protection. If the fault continues or cannot be fixed, please contact a qualified technician.

Maintenance

Note! Opening the heater cover should only be done by a qualified installer.

Always disconnect the power supply before opening the cover or doing any maintenance work.

The appliance should be cleaned regularly both inside and outside, to prevent overheating and

risk of fire but also to guarantee long life of the heater.

Note! To keep the protection class it is very important to tighten the screws properly when the lid is put back again after installation or maintenance.

Packaging

Packaging materials are chosen with consideration to environment and are therefore recyclable.

Handling of product at end of working life

Tthis product may contain substances necessary for functionality of product but potentially dangerous for the environment. The product should not be disposed mixed with general household waste but delivered to a designated collection point for environmental recycling. Please contact local authority for further details of your nearest designated collection point.

Safety instructions

Incorrect installation and/or incorrect usage of the fan heater can be hazardous.

Warning!

- *Always disconnect the fan heater berfore opening the cover or doing any electrical work.*
- *Incorrect installation can lead to personal injury.*
- Opening the heater cover etc should only be done by a qualified installer
- *This fan heater must not be used next to a shower, bath or swimming pool.*
- *Place the fan heater away from flammable materials*
- *Ensure that the area around the intake and exhaust grille is kept free from material which could obstruct the air flow through the unit!*
- *The unit must not be covered fully or partially with clothes, or similar materials, as overheating can result in a fire risk!*
- *The fan heater is fitted with a cable that, in the event of damage, must be changed by a qualified installer.*
- *This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.*
- *Children of less than 3 years should be kept away unless continuously supervised.*
- *Children aged from 3 years and less than 8 years shall only switch on/off the appliance provided that it has been placed or installed in its intended normal operating position and they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.*
- *Children aged from 3 years and less than 8 years shall not plug in, regulate and clean the appliance or perform user maintenance.*

CAUTION — Some parts of this product can become very hot and cause burns. Particular attention has to be given where children and vulnerable people are present.

Important!

When using the heater as a portable, the brackets must be turned in order to use them as a floor stand (see fig 4 on page 3).

The guarantee is only valid if the units are used in the manner intended by the manufacturer and in accordance with the installation and maintenance instructions.

Accessories

For fixed installation the heater can be controlled by an external control panel with a built in thermostat 0 – +35°C. It is also possible to use only an external thermostat to control the heat output. The ELSRT can only control one unit. For parallel connection of up to 4 units the ELSRT4 can be used. When ELSRT is being used, the built-in thermostat must be set to max and the output selector on the unit to Off ◯.

See table below.

Type	Description	HxWxD [mm]
ELSRT	Control panel and thermostat, controls one fan heater, IP65	175x150x100
ELSRT4	Control panel and thermostat (not ELC1533), controls 4 fan heaters, IP65	255x360x110

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For latest updated information and information about your local contact: www.frico.se

2020-02-13 HH/CH