FRICO

⚡ 3-15 kW Electrical heat

14 models   CE

Elektra - C/F/V/H
Hard wearing fan heaters for very demanding environments

Application

Elektra is a range of fan heaters designed for use in demanding environments. The different models can be used anywhere from corrosive environments and combustible areas to rooms with high temperatures as well as onboard ships and offshore platforms. Elektra is mainly designed for stationary use, yet can also be used as a portable fan heater.

Comfort

Frico's fan heaters are extremely quiet and quickly provide comfortable heating. The Elektra fan heater makes it possible to bring comfort to environments with special requirements.

Operation and economy

Frico's fan heaters have a long life and providing fast and effective heating at a low cost. Simple installation and a minimum of maintenance also reduce costs and the risk of faults.

Design

The Elektra fan heater has a modern design with a stainless steel outer casing, red grille and red brackets. The brackets can be rotated, which means Elektra can also be used as a portable fan heater.

Product specifications

- The Elektra fan heater is available in four designs:
  - **Elektra C** is intended for corrosive and damp environments, for example, car-wash halls and sewage works. Outer casing of acid-proof sheet steel. IP65.
  - **Elektra F** has a low element temperature and is approved for use in combustible areas, for example, joinery workshops and agricultural buildings. IP65.
  - **Elektra V** is designed to withstand vibrations on ships and offshore platforms and is approved by Det Norske Veritas. Also available for 440V/60Hz. IP44.
  - **Elektra H** is designed for rooms with high temperatures, up to 70 °C. IP44.
- For stationary use. Portable use is possible due to the reversible brackets and fitted carrying handle.
- Stainless steel outer casing (Elektra C has an acid-proof outer casing). Grille and bracket: RAL 3020 (red).
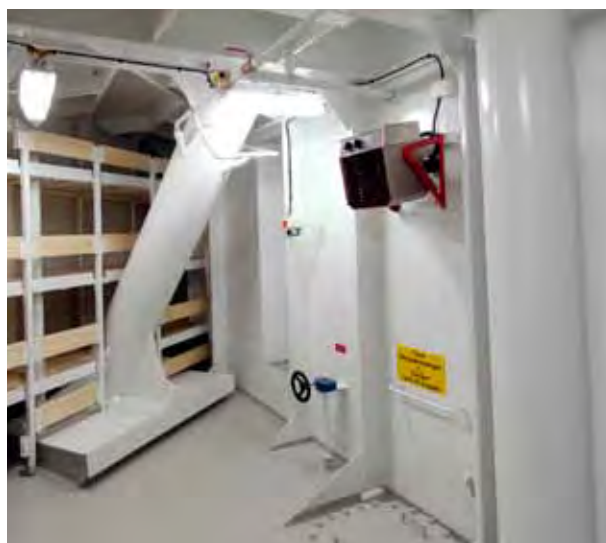
The Elektra C fan heater can also be used in very damp environments such as car-wash halls due to the high IP class and outer casing of acid-proof sheet steel.

Designed for combustible areas — Elektra F fan heater can be the ideal solution for joinery workshops.

Elektra H fan heater has been especially designed for areas with high temperatures, right up to 70 °C.

Vibrations onboard ships and offshore platforms can cause electronic equipment to malfunction. Elektra V fan heater has been designed to overcome these stresses.

Technical specifications | Elektra C. For corrosive environments ⚡

Type	Output steps [kW]	Airflow [m³/h]	Sound level*1 [dB(A)]	Δt*2 [°C]	Voltage [V]	Amperage*3 [A]	HxWxD [mm]	Weight [kg]
ELC331	0/1,5/3	400	48	21	230V~	9/13,5	375x300x340	13
ELC633	0/3/6	1000	55	17	400V3~	4,5/8,9	445x375x430	20
ELC933	0/4,5/9	1000	55	25	400V3~	6,7/13,2	445x375x430	20
ELC1533	0/7,5/15	1300	63	32	400V3~	11,2/22	445x375x430	20

Technical specifications | Elektra F. For rooms where there is a risk of fire ⚡

Type	Output steps [kW]	Airflow [m³/h]	Sound level*1 [dB(A)]	Δt*2 [°C]	Voltage [V]	Amperage*3 [A]	HxWxD [mm]	Weight [kg]
ELF331	0/1,5/3	400	48	21	230V~	7/13,5	375x300x340	13
ELF633	0/3/6	700	53	24	400V3~	4,8/9,1	375x300x340	13
ELF933	0/4,5/9	1000	55	25	400V3~	6,7/13,2	445x375x430	20

Technical specifications | Elektra V. For use on ships and within the offshore industry ⚡

Type	Output steps [kW]	Airflow [m³/h]	Sound level*1 [dB(A)]	Δt*2 [°C]	Voltage [V]	Amperage*3 [A]	HxWxD [mm]	Weight [kg]
ELV331	0/2/3	400	48	21	230V~	9/13,5	375x300x340	13
ELV3333	0/1,5/3	400	48	21	400V3~	4,2/4,9	375x300x340	13
ELV3344	0/1,8/3,6	400	48	21	440/440V3~	4,7/5,3	375x300x340	13
ELV5333	0/2,5/5	700	53	17	400V3~	6,8/7,8	375x300x340	13
ELV6344	0/3/6	700	53	17	400/440V3~	7,4/8,5	375x300x340	13

Technical specifications | Elektra H. For rooms with high temperatures ⚡

Type	Output steps [kW]	Airflow [m³/h]	Sound level*1 [dB(A)]	Δt*2 [°C]	Voltage [V]	Amperage*3 [A]	HxWxD [mm]	Weight [kg]
ELH633	0/3/6	1000	55	24	400V3N~	4,5/8,9	445x375x430	20
ELH933	0/4,5/9	1000	55	25	400V3N~	6,7/13,2	445x375x430	20

*1) Conditions: Distance to the unit 5 metres.
*2) Δt = temperature rise of passing air at full heat output.
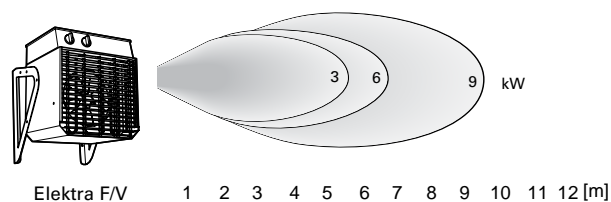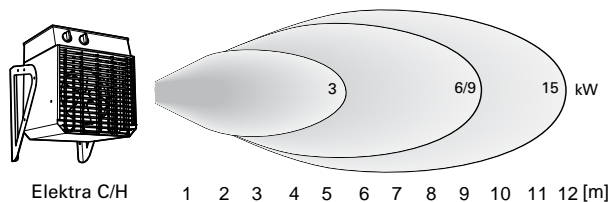*3) Amperage at half/full output.

Protection class Elektra C/F: IP65, Elektra V/H: IP44.
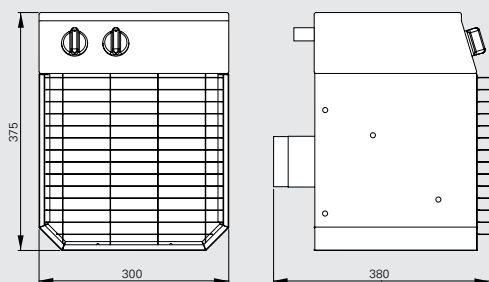Approved by SEMKO and CE compliant.
Elektra V is approved by Det Norske Veritas. Elektra F is approved for use in combustible areas.
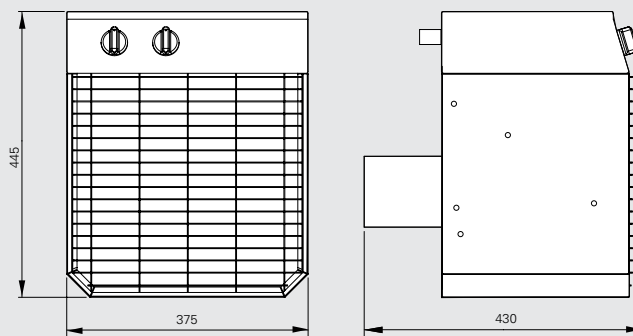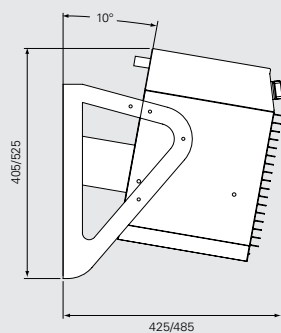
Air throw

Elektra C/H   1 2 3 4 5 6 7 8 9 10 11 12 [m]

Elektra F/V   1 2 3 4 5 6 7 8 9 10 11 12 [m]

Dimensions

ELC331, ELF331, ELF633, ELV   ELC633, ELC933, ELC1533, ELF933, ELH

375   300   380   445   375   430

Fixed installation   Portabel use

10°   405/525   425/485   405/465   390/545   3°
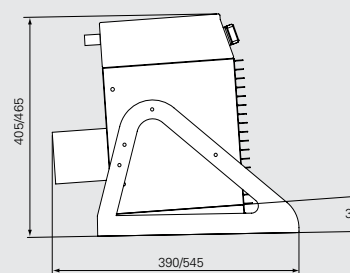
Mounting and connection

Mounting
Fan heater Elektra is fitted on the wall and has a fixed tilt angle, 10° down, which gives optimal comfort. Elektra can also be used as a portable fan heater. Wall brackets are supplied and are turned downwards for portable use, see the dimension diagrams. There is a carrying handle at the rear of the unit which facilitates handling. For minimum dimensions with permanent installation, see diagrams 1 and 2.

Electrical installation
The Elektra fan heater is equipped with a 1.8 metre long cable. Elektra F has a CEE plug fitted to the connection cable. The cable glands at the rear of the unit are used to connect accessories.
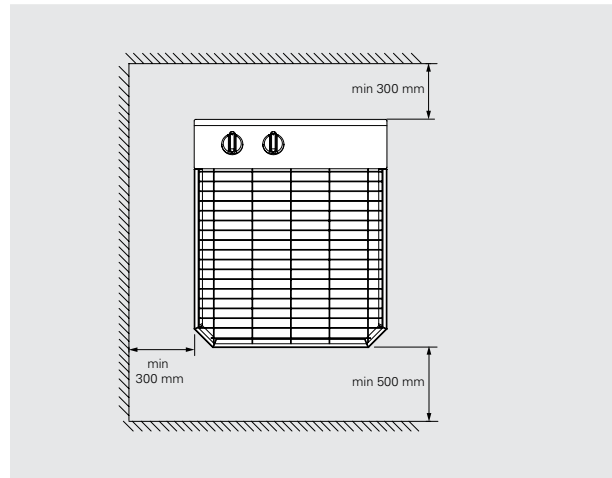
Figure 1: Minimum mounting distance for Elektra C, V and H as well as for Elektra F when ELS (accessory) is not used.
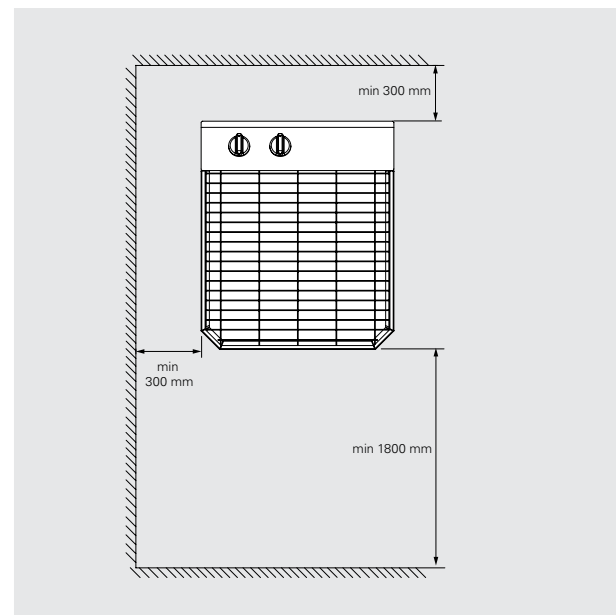
Figure 2: Minimum mounting distance for Elektra F when control panel ELS (accessory) is used.

Control options

Fan heater Elektra H features an integrated thermostat with the working range 0 – +70 °C, other models feature an integrated thermostat with the working range 0 – +35 °C. The output can be selected using the output selector on the unit or on the external control panel.

Elektra C
Can be regulated using an external control panel with integrated thermostat (0 - +35 °C) for remote control, for example, when installed high on a wall.

• ELSRT, control panel, controls one unit
• ELSRT4, control panel, controls up to four units

Elektra F
Can be started/stopped using an external control panel for remote control, for example, when installed high on a wall.

• ELS, control panel

Elektra H
Can be regulated using an external thermostat.

• ELRT, room thermostat

Elektra V
Can be regulated using an external control panel with integrated thermostat (0 - 35 °C) for remote control, for example, when installed high on a wall.

• ELSRT, control panel, controls one unit
• ELSRT4, control panel, controls up to four units

Accessories

ELSRT   ELSRT4   ELS   ELRT
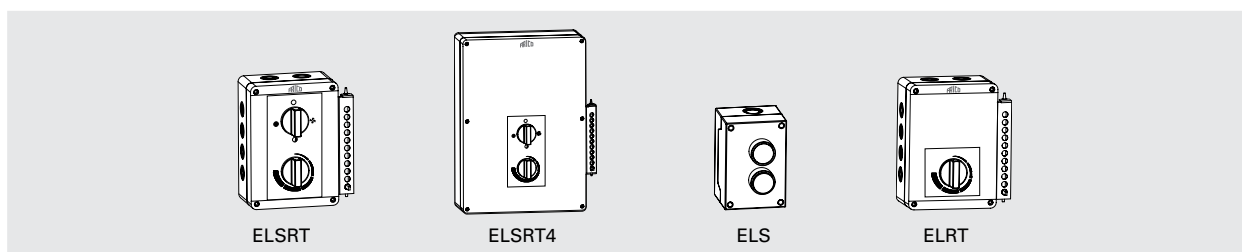
ELSRT/ELSRT4, control panel
The required output and temperature can be set on the control panel. Integrated thermostat, +5 – +35 °C. Used for external control, for example, when installed high on a wall. **ELSRT** controls only one unit. **ELSRT4** can control up to four units. IP65.

ELS, control panel start/stop
Control panel that starts/stops the fan, for external control, for example, when installed high on a wall. Only one unit can be controlled from one control panel. IP65.

ELRT, room thermostat
Capillary tube thermostat with visible dial. Setting range 0 - +70 °C. Max. breaking current: 16 A. IP44.

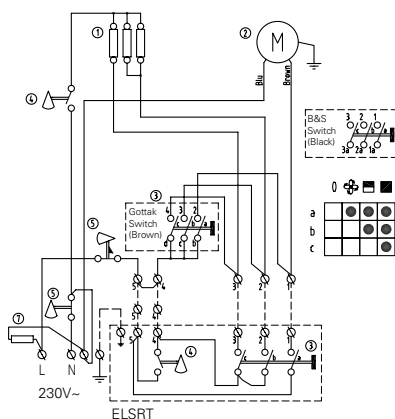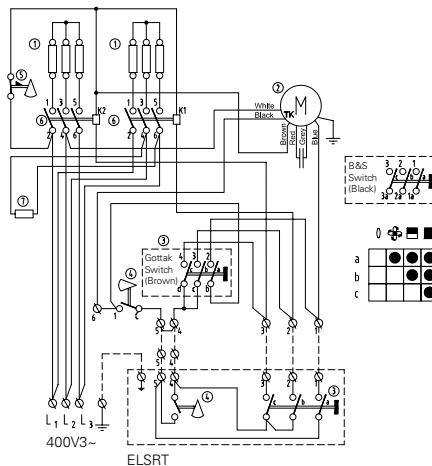| Type	Description	HxWxD [mm]
ELSRT	Control panel and thermostat, for ELC/ELV, controls one fan heater	175x150x100
ELSRT4	Control panel and thermostat, for ELC/ELV, controls 4 fan heaters	255x360x110
ELS	Control panel, for ELF, start/stop	105x70x80
ELRT	Thermostat, for ELH	175x150x100

Elektra C
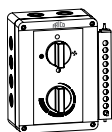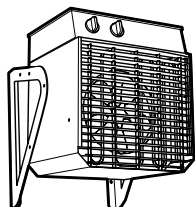
**ELSRT,
control box with
thermostat**
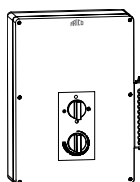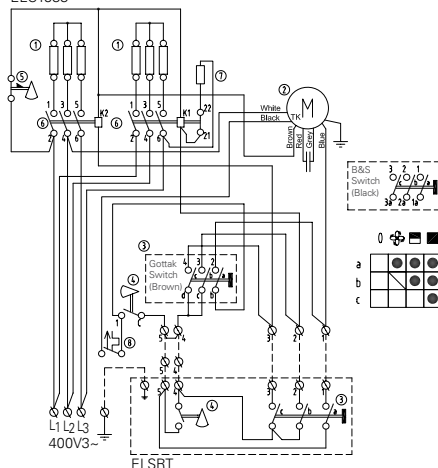
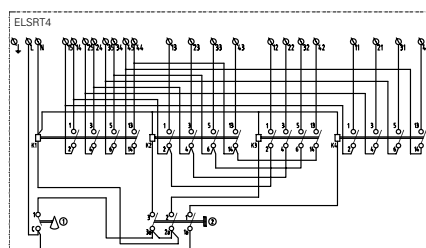Elektra C 230V~

ELC331

Elektra C 400V3~

ELC633, ELC933

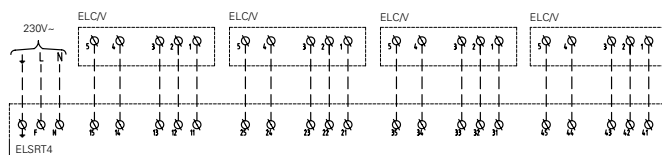Elektra C 400V3~

ELC1533

**ELSRT4,
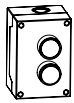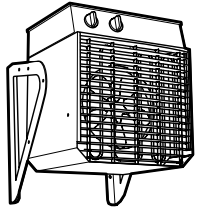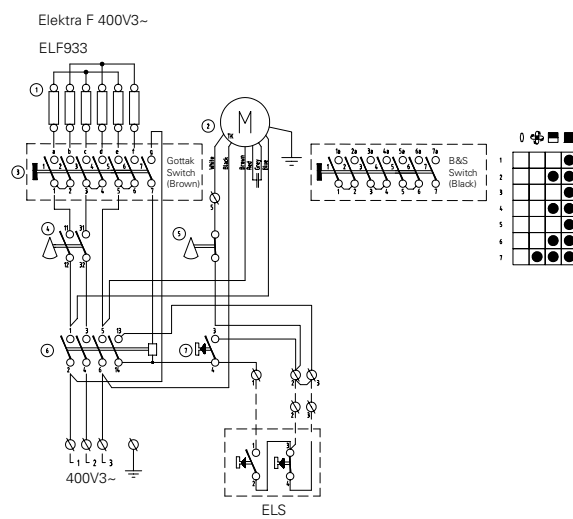control box with thermostat,
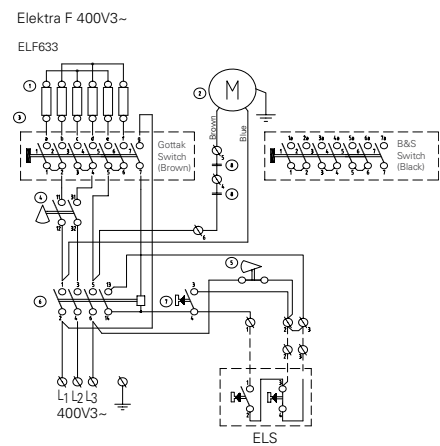for 4 units**

① Thermostat
② Switch

Frico AB
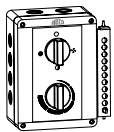031 336 86 00
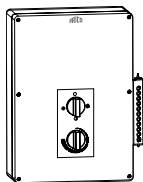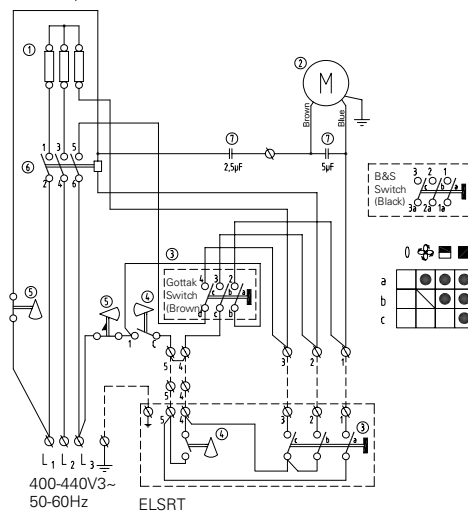Design and specifications are subject to change without notice.
www.frico.se

Elektra F

ELS,
control box start/stop

Elektra F 230V~

ELF331

Elektra F 400V3~

ELF633

Elektra F 400V3~

ELF933
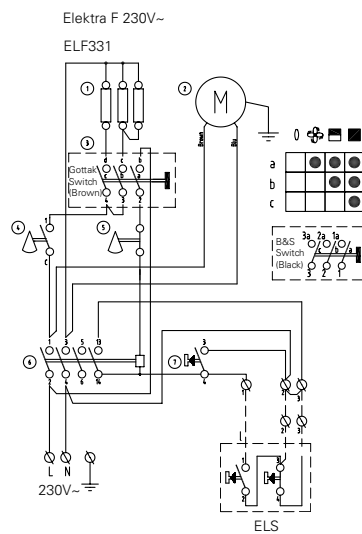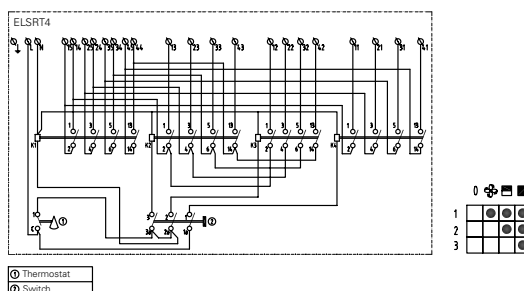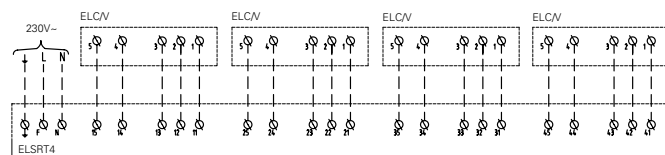
Elektra V
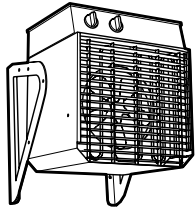
Elektra V
ELV331

ELSRT,
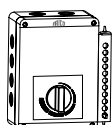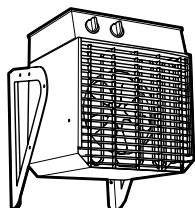control box with
thermostat
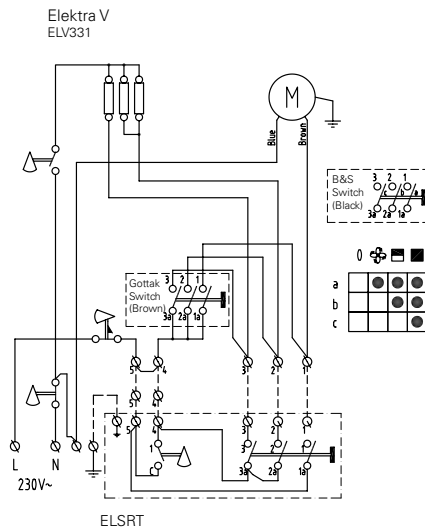
Elektra V 400-440V3~

ELV3333, ELV5333
ELV3344, ELV6344

ELSRT4,
control box with
thermostat, for 4 units

Elektra H

ELRT,
Room thermostat

Elektra H 400V3~

ELH633, ELH933

Gottak Switch (Brown)

B&S Switch (Black)

ELRT

L₁ L₂ L₃ N

400V3~