VEAB
Heat Tech AB

EA
Electric fan heaters for wall mounting

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The EA series of electric fan heaters covers a wide range of outputs and is designed for permanent heating of warehouses, industrial premises, garages, drying rooms, etc. The simple, neat design makes the EA series also suitable for public premises, such as shops.

- 5 output variants rated from 6 kW to 30 kW
- 2 fan speeds
- Built-in temperature regulator and knob for switching from low to high fan speed and continuous/intermittent fan operation
- Air deflector for adjusting vertically the direction of outlet air flow
- Together with the thermostat MCD4-1999, fulfils the Ecodesign directive 2009/125/EU and EU regulation 2015/1188.
- Wall bracket that allows for stepless adjustment of the fan heater angle during installation

OK2

Design

The casing is made of galvanized sheet steel painted white, and the heater elements are made of stainless steel to EN 1.4301. The junction box includes equipment for automatic temperature control. Degree of protection IP44 (splash-proof) and approved for use in humid and wet areas (e.g. drying rooms).

Mounting/installation

Wall brackets are included.
EA is supplied with a type OK 2 external switch used for turning the heating fan on/off, and to limit power consumption.
An EA with a connected sensor/thermostat can control an unlimited amount of slaved EA units. The slave-controlled units receive their control signal from the EA which has a sensor/thermostat connected.

Controls

See page 4.

Accessories

See page 5.

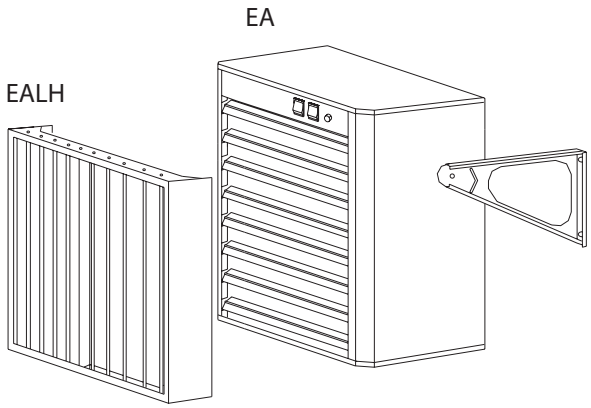
Approvals

The duct heaters have been tested and approved by Intertek Semko in accordance with:
LVD Directive: EN 60335-1 and EN 60335-2-30
EMC Directive: EN 61000-6-1, EN 61000-6-2, EN 61000-6-3 and EN 61000-6-4
EMF Directive: EN 62233

Product range overview

Type		EA 6	EA 9	EA 14	EA 21	EA 30
Power supply	V	400V3N~	400V3N~	400V3N~	400V3N~	400V3N~
Current	A	8.8	13.1	20.4	30.5	43.5
Output	kW	6	9	14	21	30
Output steps	kW	0-3-6	0-6-9	0-7-14	0-14-21	0-20-30
Air flow rate (low- / high speed)	m^3/h	970 / 1300	970 /1300	1950 / 2650	1950 / 2650	2800 / 3900
Air temp. rise through heater (low- / high speed)	°C	17 / 13	26 / 19	20 / 15	30 / 22	30 / 21
Max. throw (low- / high speed)	m	10 / 13	10 / 13	11 / 15	11 / 15	12 / 16
Sound pressure level [1] (low- / high speed)	dB(A)	45 / 54	45 / 54	48 / 57	48 / 57	56 / 63
Weight	kg	15	16	30	33	43
Dimensions, excl. wall bracket, W × H × D	mm	388 × 453 × 350	388 × 453 × 350	552 × 610 × 385	552 × 610 × 385	552 × 610 × 505
Dimensions, incl. wall bracketl, W × H × D	mm	388 × 453 × 475	388 × 453 × 475	552 × 610 × 510	552 × 610 × 510	552 × 610 × 615
Degree of protection		IP44	IP44	IP44	IP44	IP44

[1] *Measured at a distance of 5 metres in front of the unit.*



EA can be supplemented with external deflectors

Project design/ordering

Descriptive text - EA

VEAB type EA electric fan heater with casing of sheet steel painted white and heater elements of stainless steel EN 1.4301. Degree of protection IP44. The EA is supplied with wall brackets and external selector switch (type OK2). The MCD4-1999 room thermostat or an external 0...10V control signal are used for regulation. Outside the EU, sensors can also be used. Accessories such as a thermostat and sensor must be ordered separately.

Control

A. MCD4-1999 room thermostat

For installations within the EU, locations which are heated for the comfort of people must meet the Ecodesign directive 2009/125/EU and EU regulation 2015/1188. To do so, an external MCD4-1999 thermostat (ordered separately, see page 5) must be fitted.
The thermostat has a built-in clock and calendar which can be programmed for lowering the temperature, e.g. during nights and weekends. Transition from reduced to normal temperatures can be adapted so that a comfortable temperature is achieved at the desired time (adaptive function).

MCD4-1999

B. External 0...10V control signal

The EA series can also be controlled by an external 0…10V signal, in such cases, it is the installer's responsibility to utilise control equipment which meets applicable regulations.

C. Sensors

For installations outside the EU, and for locations which are not heated for the comfort of people, a VEAB TG sensor can be used (ordered separately, see page 5).

Alt C1. Combined setpoint adjuster and room sensor.

TG-R430 as setpoint adjuster and room sensor.

Alt C2. Separate setpoint adjuster and separate sensor.

TG-R430 as setpoint adjuster.

TG-R530 (IP30) or TG-R630 (IP54) as room sensor.

Accessories

	Product	Range	Degree of protection
	MCD4-1999 room thermostat Supplied with a frame which enables external mounting.	5°C - 40°C	IP21
	Room sensor TG-R430 with setpoint adjustment	Range 0-30°C	IP30
	Room sensor TG-R530 The required temperature is set on TG-R430.	Range 0-30°C	IP30
	Room sensor TG-R630 The required temperature is set on TG-R430.	Range 0-30°C	IP54
	Air deflector EALH Aluminium blades. Used for directing the air sideways.		

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