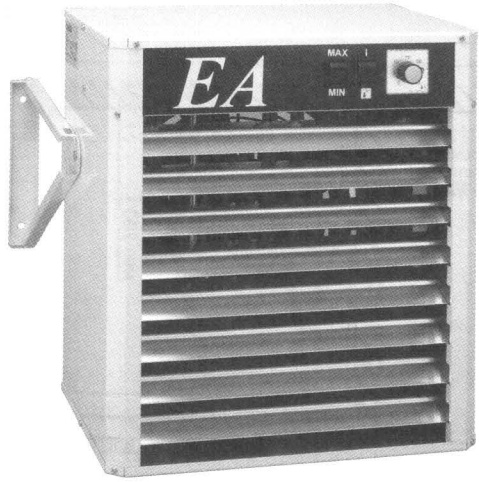
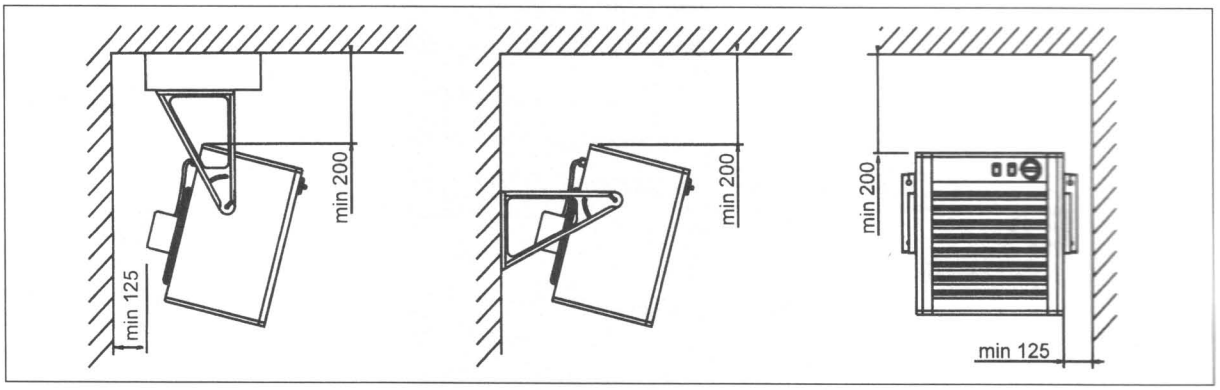
EA

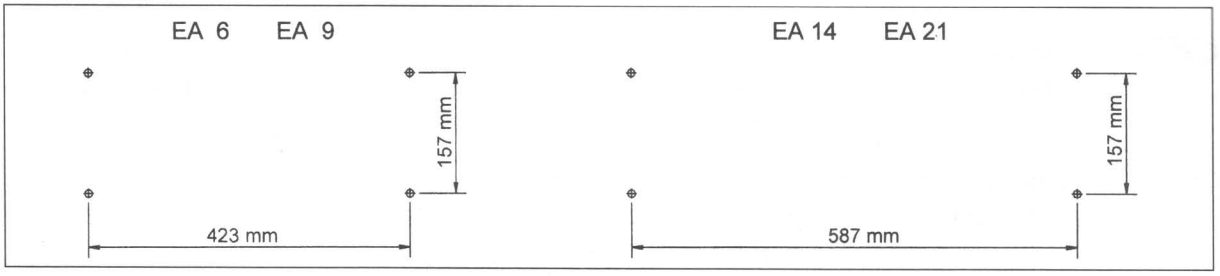


EA

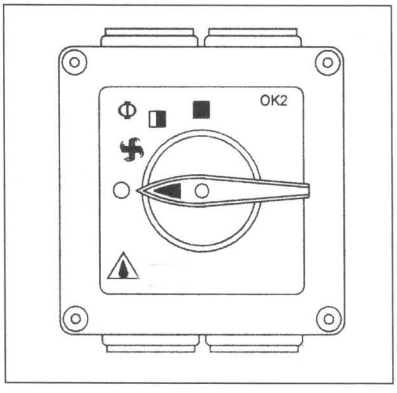
1


min 125
min 200
min 200
min 200
min 125

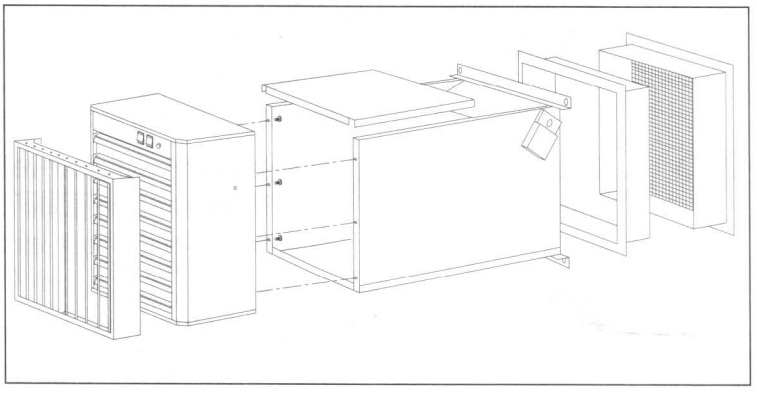
2


EA 6 EA 9
EA 14 EA 21
157 mm
157 mm
423 mm
587 mm

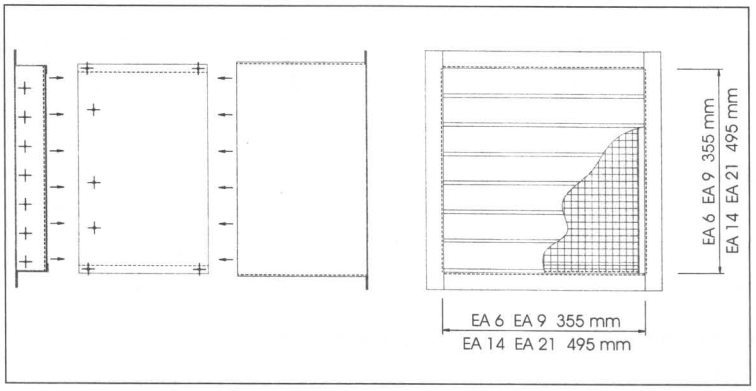
3


OK2

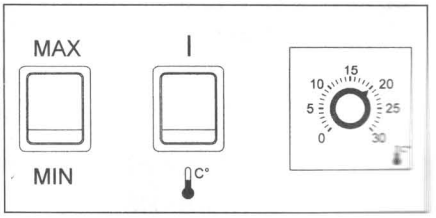
4



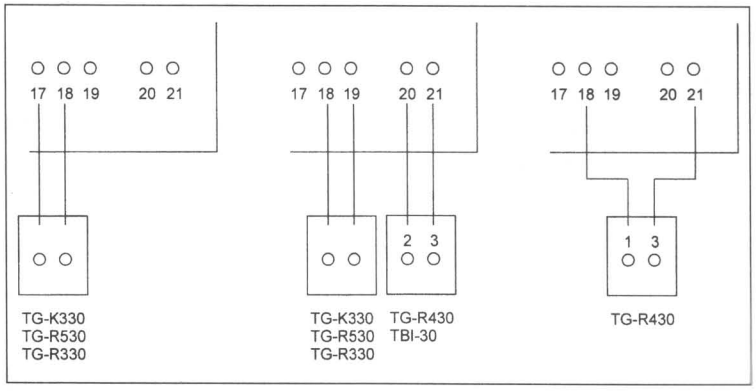
5


EA 6 EA 9 355 mm
EA 14 EA 21 495 mm
EA 6 EA 9 355 mm
EA 14 EA 21 495 mm

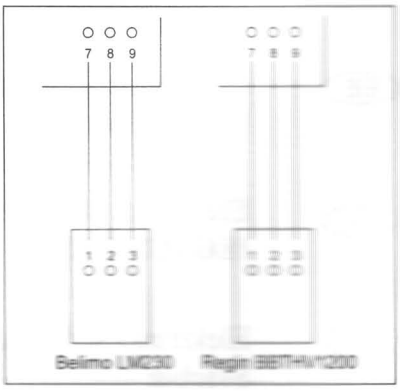
6


MAX
MIN
I
C°
0
5
10
15
20
25
30

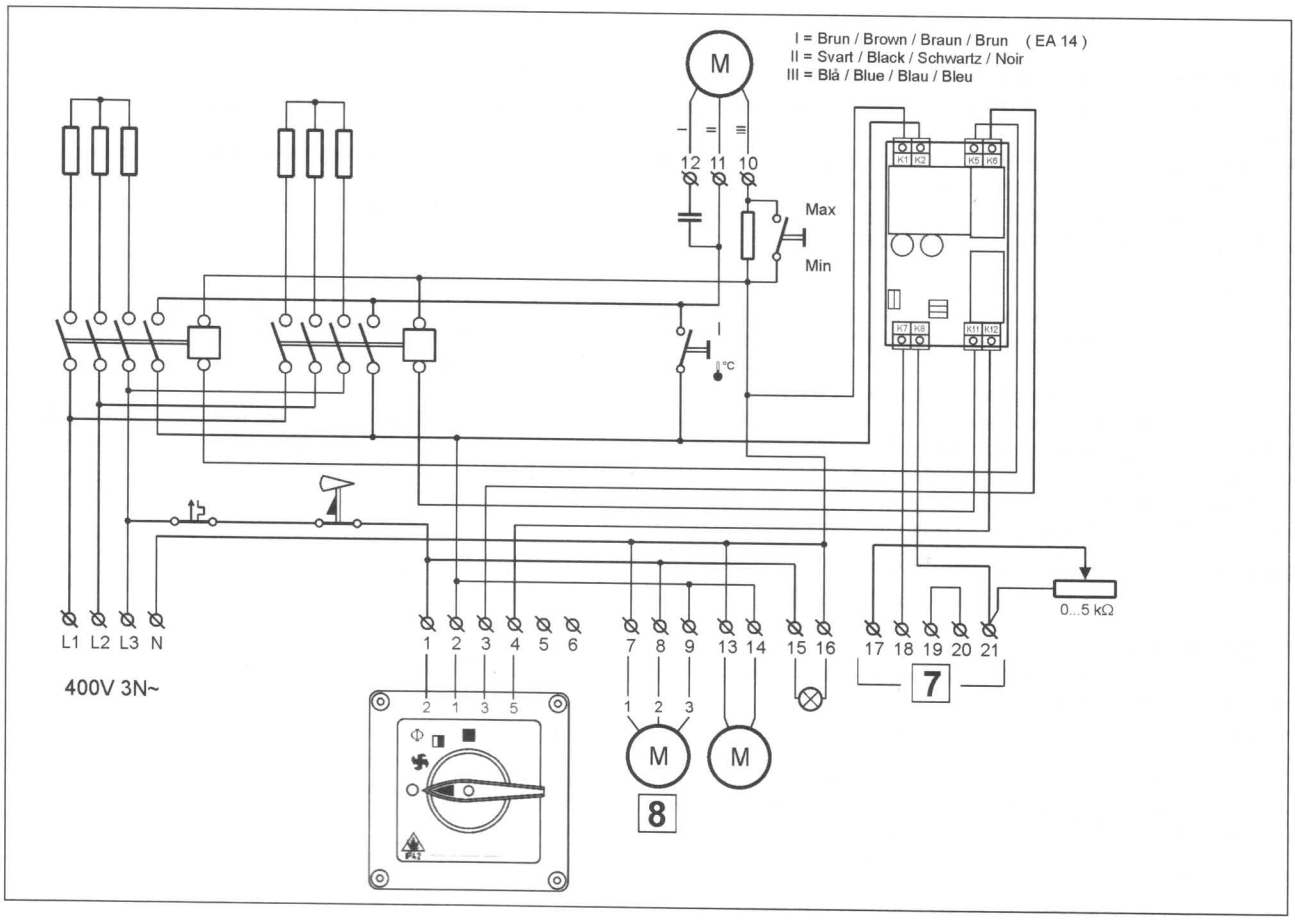
7


17 18 19
20 21
TG-K330
TG-R530
TG-R330
17 18 19
20 21
2 3
TG-K330
TG-R530
TG-R330
TG-R430
TBI-30
17 18 19
20 21
1 3
TG-R430

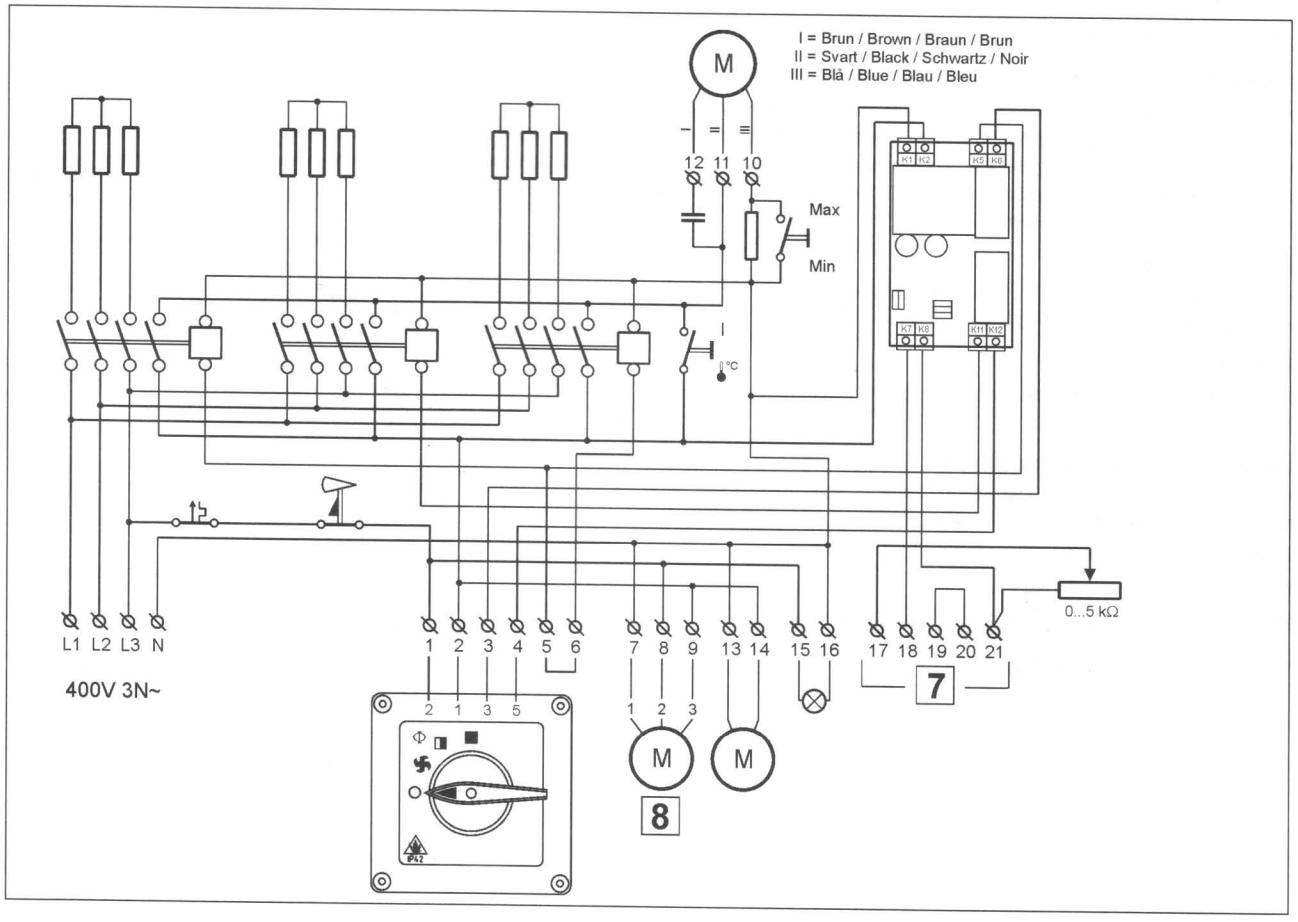
8


7 8 9
1 2 3
Belimo LMC30
Regin BBTHV1200

9 EA 6 EA 9 EA 14



10 EA 21



Installation / Approval, see also wiring diagram fig. nos. 7, 8, 9, and 10.

The EA series may be installed in dry, damp, or wet environments, but not in those classed as a fire hazard or explosion risk.
Protection class IP x4.
The EA series complies with the electrical safety requirements in EN 60 335-2 and the EMC requirements in EN 50081-1, EN 60100-3-2 and EN 61000-3-3. The products have been tested by SEMKO (the Swedish Institute for testing and certification of electrical equipment). The EA series is CE marked.
The heater must be connected to the mains supply as a fixed installation with a cable of the type EKK or FKK. The installation must be carried out by an authorised electrician. An all-pole breaker must be fitted in the mains supply to the heater.

Mounting

The dimensions shown in fig. 1 are a minimum. The dimensions to the ceiling and walls must be correct otherwise there is a risk of overheating and fire. The connection box must always be positioned upwards. The heater must be installed in such a way that it is easy to carry out cleaning and service. A hole template for the wall bracket is shown in fig. 2.

Mounting of heaters with mixer unit, see also figs. 4 and 5.

Remove the plate in front of the valve cover and fit the mixer unit on to the heater unit using four M6 screws. (The holes are predrilled in the rear side of the heater). The mixer unit can be mounted with the mixer cover either upwards or downwards. Struts from the ceiling can be attached to the wall brackets by removing their locking screws and swinging the brackets upwards. See fig. 4. A hole template for the mixer unit outside wall louvre is shown in fig. 5.
The rear edge of the valve motor is attached directly on the side of the mixer unit using the enclosed special adapters and self-tapping screws. See the valve motor mounting instructions for further details. N.B. the length of the self-tapping screws must not exceed 18 mm.

Maintenance

Dust and dirt can cause overheating and a risk of fire. Therefore, clean the heater regularly.

Overheating

The heater is equipped with overheat protection that can be reset manually. The protection will be activated if the temperature increases abnormally. When the protection has been activated, proceed as follows:

- The heater must not be tampered with or opened in any way, e.g. removal of cover, except by an authorised electrician.
- Switch off the mains supply.
- Investigate the reason why the overheat protection has been activated.
- When the fault has been corrected, reset the protection with the button on the rear of the connection box.
- Restart the heater fan, first with no heat on, and check that the fan is functioning properly.

Safety

⚠ **The heater must not be covered because this can cause a fire risk.**

⚠ **When the heater is installed in a bathroom or shower room, it must be mounted in such a way that a person using the shower or bath cannot touch the heater.**

⚠ **The heater must not be installed in environments with a fire hazard or explosion risk.**

Function

The heater is started and the max. controlled power is selected with the external breaker OK 2, see fig. 3.

0 = Off, = Fan only, = Fan + 1/2 heater power (2/3 power for EA 21), = Fan + 1/1 heater power

On the front of the heater, see fig. 6, there is one switch used for selecting the fan speed (min./max.) and another switch (I/) for selecting whether the fan should run continuously (I) or only when heating is needed (C°). Alongside both these switches are set point adjusters. Separate set point adjusters are available as accessories. See under the heading Sensors / Set point adjusters.

Air extraction fan

When the heater is in operation, 230 V single phase max. 6 A is available across terminals 13 and 14. This power supply can be used for a small single phase extraction fan or to control a larger 3 phase extraction fan via a contactor.

Alarm

When the power supply to the heater is switched on, 230 V single phase is available across terminals 15 and 16. If the overheat protection is activated or the control fuse is tripped, this voltage signal disappears.

Sensors / Set point adjusters

An external sensor must always be installed. The set points can be adjusted on the front of the heater or on an external set point adjuster. The following sensors / set point adjusters can be used:

TG-R530 = Room sensor, IP 20.

TG-R330 = Room sensor, IP 54.

TG-R430 = Room sensor with integral set point adjuster, IP 20.

Technical data, see page 15

	Typ	Effekt	Effekt-steg	Spänning	Ström	Luftmängd	Vikt
SE							
GB	Type	Rating	Power steps	Voltage	Current	Airflow	Weight
DE	Typ	Leistung	Leistungs-stufe	Spannung	Strom	Luftmenge	Weight
FR	Type	Puissance de chauffage	Modes	Tension	Intensité	Débit d'air	Poids
FI	Tyyppi	Teho	Tehoaste	Jännite	Virta	Ilmamäärä	Paino
NL	Type	Vermogen	Vemogens-stappen	Spanning	Stroom	Lucht-hoeveelheid	Gewicht
PL	Typ	Moc	Krok zmiany mocy	Napięcie	Prąd	Objętość wydmuchiwanego powietrza	Masa
RU	Тип	Мощность	Ступени мощности	Напряжение	Ток	Поток воздуха	Вес
EE	Tüüp	Võimsus	Võimsusaste	Pinge	Vool	Õhukogus	Kaal
LV	Tips	Jauda	Jaudas pakāpes	Spriegums	Strāva	Gaisa tilpums	Svars
LT	Tipas	Efektas	Efektas pasiekiamas	Įtampa	Srovė	Oro padavimas	Svoris
	EA 6	6 kW	3 + 3 kW	400 V 3N~	8,8 A	970 / 1300 m³/h*	15 kg
	EA 9	9 kW	6 + 3 kW	400 V 3N~	13,1 A	970 / 1300 m³/h*	16 kg
	EA 14	14 kW	7 + 7 kW	400 V 3N~	20,4 A	1950 / 2650 m³/h*	26 kg
	EA 21	21 kW	14 + 7 kW	400 V 3N~	30,5 A	1950 / 2650 m³/h*	28 kg

* När blandningsdelen är tillkopplad sjunker luftmängden med ca 20%.
* When the mixer unit is attached and in use, the airflow is reduced by approx. 20%.
* Wenn der Mischluftteil eingeschaltet ist, sinkt die Luftmenge um etwa 20 %.
* Réduire cette valeur de 20 % si le dispositif de mélange a été monté.
* Kun sekoitusosa on kytketty, ilmamäärä pienenee noin 20 %.
* Als het mengonderdeel is aangekoppeld, daalt de hoeveelheid lucht met ca 20%.
* Jeżeli mieszacz powietrza jest dołączony, objętość wydmuchiwanego powietrza zmniejsza się o ok. 20%.
* При подключении смесителя поток воздуха уменьшается прибл. на 20%.
* Kui õhusegaja on külge ühendatud, väheneb õhukogus umbes 20%.
* Ar pieslēgtu sadalītāju gaisa plūsmas tilpums samazinās apmēram par 20%.
* Kai maišytuvo detalės yra įjungtos, oro padavimas sumažėja apytiksliai 20%