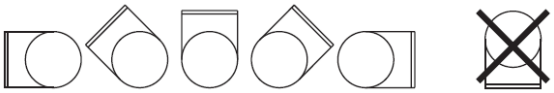
MANUAL for
JEGK SERIES

CONNECTION TO MAINS

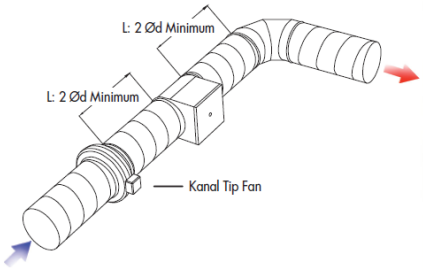
1. The duct heaters are designed to operate on single phase, two phase, or three phase alternating current. See the wiring diagram for the particular heater and the electrical data on the rating plate placed on the cover of the duct heater.
2. The duct heater must be connected to the mains supply with a fixed installed round cable. The heater must be equipped with a cable grommet or cable fitting designed for the cable, which ensures that the electrical protection class of the heater is retained. The standard design is IP43.
3. It must not be possible to switch on the power to the element unless the fan has started earlier or starts simultaneously.
4. It must not be possible to switch off the power to the fan unless the power to the element has been switched off earlier or is switched off simultaneously.
5. An all phase breaker with a contact gap of at least 3 mm must be included in the fixed installation.
6. The installation must be carried out by an authorised electrical fitter
7. The duct heaters are designed in accordance with the following standards: EN 60335-1 / EN 60335-2-30.
8. The heaters are CE-marked and EMC-marked
9. The duct heater is equipped with two overheating cut-outs (one with manual reset) designed to prevent overheating when the airflow is too low or in the event of a fault in the system

FITTING

10. The heater is designed for insertion into standard spiral ducting and is fixed to the ducting with screws.
11. The air must flow through the heater in the direction of the arrow (located on the side of the heater close to the connection box).
12. The heater can be fitted in either horizontal or vertical ducting. The heater may only be fitted in ducts that are made of incombustible and heat-and-cold resistant material. The electrical connection cabinet can be freely placed facing upwards or sideways to a maximum angle of 90°. Fitting with the box facing downwards is NOT allowed.



13. The access opening in the heater must be equipped with a fixed mesh or an intake air device which makes it impossible to touch the element inside.
14. A warning sign must be attached close to the air outlet, stating that the air outlet must not be covered.
15. The distance from (to) the heater to (from) a duct bend, valve, filter, etc., should correspond to at least twice the duct diameter, otherwise there is a risk that the airflow through the heater is uneven which can cause activation of the overheating cut-out



16. The heaters may be insulated in accordance with valid regulations for ventilation ducting. However, the insulation material must be incombustible. The cover of the heater must be free from insulation so that the type plate is visible and the cover can be removed.
17. The parts of the ventilation system where heaters are installed must be kept accessible to allow replacement and service

18. The distance from the heater's metal casing to any wood or other combustible material must NOT be less than 30 cm.
19. The air flow through the heater must have a speed of at least 1.5 m/s.
20. **The maximum output temperature allowed is 50°C.**

MAINTENANCE

21. No maintenance is required except a periodic functional test.

OVER HEATING

When the overheating cut-out with manual reset has been activated, the following should be observed:

1. The heater must not be interfered with in any way, such as removal of the cover, except by an authorised electrical fitter
2. Turn off the mains power
3. Investigate carefully the reason for activation of the cut-out
4. When the fault has been eliminated, the cut-out can be reset