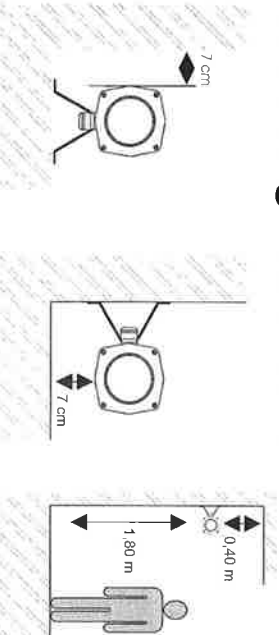


Technical Data

All heaters protection type IP 66/IP 67 according to DIN VDE 0470 Part 1/11.92

Type	Voltage	Wattage
RiRo-u (no switch)	230 V =/~	500 W
RiRo-u (no switch)	230 V =/~ 400 V 3~ 400 V 3 N~	1000 W to 3000 W
RiRo-u (no switch)	400 V 3~ 400 V 3 N~	4000 W
RiRo-s (with switch)	230 V ~	1000 W to 3000 W
RiRo-a (with thermostat)	230 V ~	500 W to 3000 W
RiRo-f (for hazardous rooms)	230 V =/~ 400 V 3~ 400 V 3 N~	600 W to 1200 W
RiRo-fa (for hazardous rooms)	230 V ~	600 W to 1200 W
RiRo-nt und nta (low surface temperature)	230 V ~	500 W to 1000 W
NR, SR, KR Heaters	230 V =/~	150 W to 1200 W

Mounting Instructions



CE certification according to EC-directive 2004/108/EC (EMF) and EC directive 2006/95/EC (Low voltage directive)



VDE Reg.Nr. 4805 ÜG
Protection Mode IP 66/IP 67
VDE Certificate with production control



German GS-certificate confirms compliance with all applicable technical regulatory requirements concerning this product by EU Directives and German law



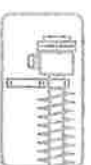
Kema-Certificate for finned tubeheaters RiRo-u, RiRo-a, RiRo-s, RiRo-f and RiRo-nt



CEBEC-Certificate for finned tubeheaters RiRo-u, RiRo-a, RiRo-s and RiRo-f



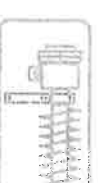
Interseroh Recycling
Membership 80295



SCHULTZE
Finned tubeheaters

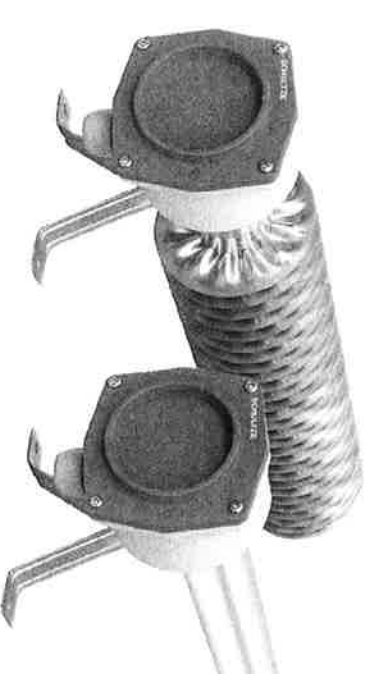
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SCHULTZE
Finned tubeheaters

Mounting and Operating Instructions



SCHULTZE RiRo

Security

Finned tube heaters and tube heaters are stationary heaters for steady fixing. They are products for industry and commerce and not made for domestic purpose with the risk of dangerous situations caused e.g. by unattended children or people being infirm. Finned tube heaters and tube heaters are not suitable for installation and use in bath or shower rooms. They are suitable for rooms and areas without fire load and are mounted in escalators, closed water pump stations and similar fields of application.

Finned tube heaters and tube heaters must not be mounted directly under a wall outlet!
Heaters must not be covered! Do not install them below loosely suspended or inflammable parts that could fall down on the heaters and cover them.

For garages and hazardous rooms you are only allowed to use finned tube heaters **RiRo-f** or **RiRo-fa** with a surface temperature of 115 °C. Schultze finned tube heaters **RiRo-u**, **RiRo-s** and **RiRo-a** reach a surface temperature of 240 °C. The surface temperature of tube heaters type **NR** is 140°C and with type **SR** and **KR** it is 200°C.

RiRo-s with stepswitch



RiRo-a, -fa and -nta with built-in thermostat



Step I = 1/3 heating power

Step II = 2/3 heating power

Step III = full heating power

● = frostfree

☺ = +5°C to +30°C

Installation

Please read the following instructions carefully to avoid any risk. **Heaters must not be covered!**

Finned tube heaters **RiRo-u**, **-a**, **-s**, **-f** and **-nt** are suitable for horizontal installation

- at a height avoiding accidental contact of persons with hot surfaces: the minimum distance between floor to lower edge of heater is 1,80 m, minimum distance heater to ceiling is 0,40 m
- on the floor or on the walls of rooms or areas that are inaccessible to the public, for industrial purposes only
- the minimum distance between heater and floor or wall is 7 cm (cf. sketch)

The heaters are equipped with feet that are quickly mounted: hook in the upper ends and put them onto the free parts of tube on either side of the heater. Fix the feet with the included screws. Adjust the heater with the signs being well readable. Distance between the drill holes for fixing is now 110+/- 3 mm.

Do not mount finned tube heaters and tube heaters under parts that might fall down and thus cover the heater. Fire risk if heaters are covered!

Electrical connection

Untie the 4 screws at the cover so you can take it off. With finned tube heaters with a switch or thermostat take off the cover as a whole!

Then you turn in the screwed joint. Introduce the wire into the screwed joint and tighten the thrust screw.

Heaters up to 3000 W require a cable diameter of 1,5 mm.

With more than 3000 W a diameter of 2,5 mm is necessary.

The electrical connection is carried out according to the wiring diagram on the following pages. Please observe the position of the earth wire, if necessary. Do not forget the electrical protection supply! With stationary installation of heaters provide for complete separation from mains with minimum distance of contacts 3 mm, e.g. a fuse.

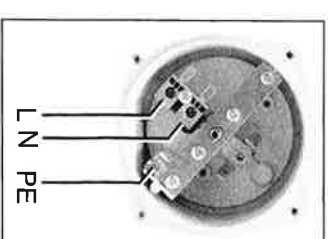
Start-up

Finned tube heaters **RiRo-u** without a switch, **RiRo-f**, **RiRo-nt** and tube heaters **NR**, **SR**, **KR** are in operation if the net voltage is given free. With the finned tube heaters **RiRo-s** with step switch you regulate the heating power according to your needs by turning the switch to the appropriate position. With the finned tube heaters **RiRo-a**, **RiRo-fa** and **RiRo-nta** with built-in thermostat you pre-choose the temperature by turning the switch.

Mind: Due to production processes a slight vapour might occur when turning the heater on for the first time.

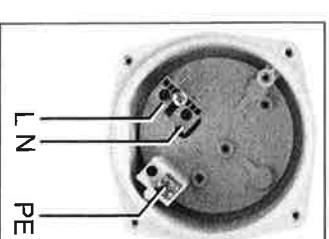
230 V ~

RiRo-s 1000 - s 3000 with stepswitch,
RiRo-a 500 - a 3000
RiRo-fa 600 - fa 1200
RiRo-nta 500 - nta 1000 with thermostat



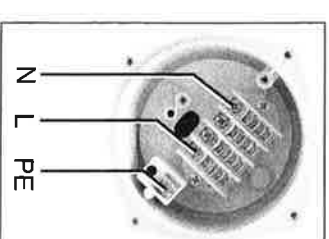
230V =/~

RiRo-u 500,
RiRo-nt 500,
NR, SR, KR



230V =/~

RiRo-u 1000 - u 3000 without stepswitch,
RiRo-f 600 - f 1200,
RiRo-nt 800 - nt 1000



400 V 3 (N) ~

RiRo-u 1000 - u 4000 without stepswitch,
RiRo-f 600 - f 1200

