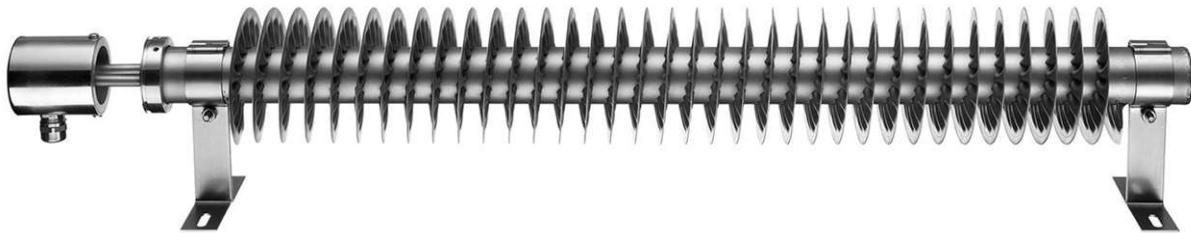
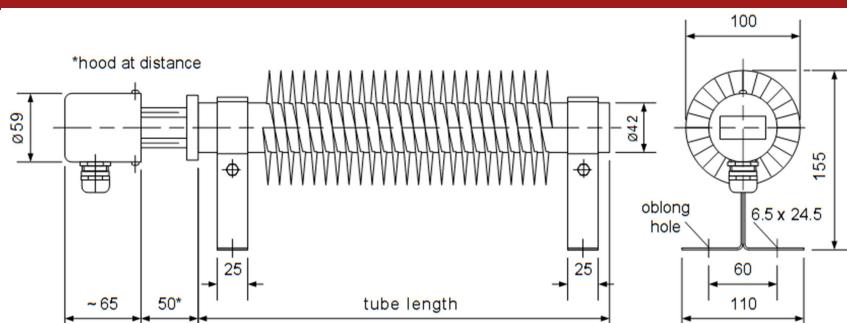


## 6.1 Finned-tube heating element



Photograph shows design with hood at distance

<b>Application</b>	Finned-tube heating elements for heating and anti-frost protection of: assembly pits, crane driver cabs, payment booths, toilets, greenhouses, workshops, workplaces, cellars, water supply installations, switchgears and more.
<b>Design</b>	Stainless-steel finned-tube with 2 footrests 1 or 3 tubular heating elements Ø 8,4 mm made of stainless-steel bright-galvanized steel hood, protection system IP65 With higher power (e.g. tube length 1000 mm, power 2000 W), hood at distance of 50 mm. if tube length = power (e.g. 1000 mm, 1000 W) no gap between hood and tube.
<b>Temperature</b>	Finned-tube temperature on surface approx. 160°C (tube length = power, e.g. 1000 mm, 1000 W). With higher power (e.g. tube length 1000 mm, 2000 W) approx. 260°C on surface. <b>Temperature control with room temperature controller catalogue page 6.9</b>
<b>Installation</b>	Horizontally on floors or walls. Do not place any objects on the finned-tube heating elements. Vertically only with lower power (tube length = power) and with steel hood to bottom. Be careful with cladding (heat build-up). Protection cage as touch-protection available (see next page).



tube length [mm]	Power [Watt]	Voltage	Finned-tube heating element Article-no.	Exchangeable heating element Article-no.
500	500	230 V~	0601 2011	0601 2011
500	1000*	230 V~	0601 2021	0601 2021
750	750	230 V~	0601 2051	0601 2051
750	1500*	230 V~	0601 2051	0601 2051
1000	1000	230 V~	0601 2071	0601 2071
1000	2000*	230 V~	0601 2081	0601 2081
1000	2000*	230/400 V 3~	0601 2101	0601 2101
1500	1500	230 V~	0601 2111	0601 2111
1500	3000*	230 V~	0601 2121	0601 2121
1500	3000	230/400 V 3~	0601 2141	0601 2141
2000	2000	230 V~	0601 2151	0601 2151
2000	2000	230/400 V 3~	0601 2161	0601 2161
2000	4000*	230/400 V 3~	0601 2181	0601 2181
3000	3000*	230/400 V 3~	0601 2201	0601 2201
3000	6000*	230/400 V 3~	0601 2211	0601 2211

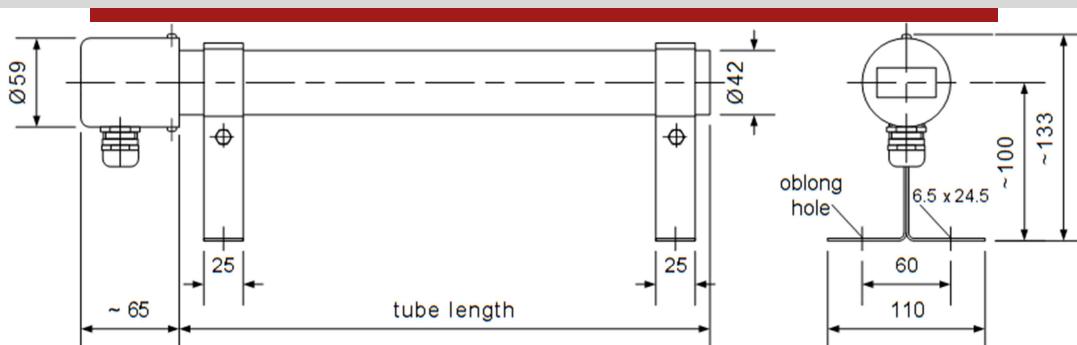
\*hood at a distance of 50 mm

## 6.1 Protective cage

<b>Protective cage</b>	Protection cage as touch-protection. Protective cage made of a perforated stainless-steel plate. Width 180 mm, height 195 mm.		
Length [mm]	Protective-cage Article-no.	for finned-tube length [mm]	
520	0602 9151	500	
770	0602 9161	750	
1020	0602 9171	1000	
1520	0602 9181	1500	
2020	0602 9191	2000	

## 6.2 Tube heating element Ø 42

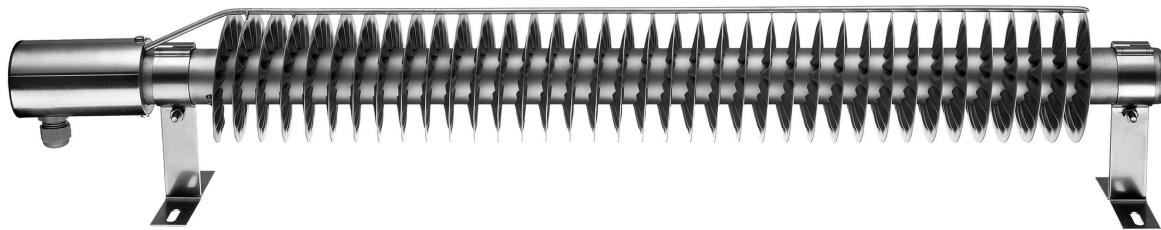
<b>Application</b>	like finned-tube heating element page 6.1
<b>Design</b>	<p>Stainless-steel tube Ø 42,4 mm, without finned surface, 2 footrests            1 or 3 tubular heating elements Ø 8,4 mm made of stainless-steel            bright-galvanized steel hood, protection system IP65            With higher power (e.g. tube length 1000 mm, power 2000 W), hood at a distance of 50 mm.            if tube length = power (e.g. 1000 mm, 1000 W) no gap between hood and tube.</p>
<b>Temperature</b>	<p>At a room temperature of 20°C, the surface temperature of the tube is approx. 430°C.  <b>Temperature control with room temperature controller catalogue page 6.9</b></p>
<b>Installation</b>	<p>Horizontally on floors or walls. Do not place any objects on the finned-tube heating elements.            Be careful with cladding (heat build-up).            Vertically only with lower power (tube length = power) and with steel hood to bottom.            Protection cage as touch-protection available (see top of page).</p>



tube length [mm]	Power [Watt]	Voltage	Weight [kg]	Tube heating element Article-no.
500	500	230 V~	2.5	0602 0011
750	750	230 V~	3.5	0602 0021
1000	1000	230 V~	4.5	0602 0031
1500	1500	230 V~	6.5	0602 0041
2000	2000	230 V~	8.5	0602 0051
3000	3000	230 V~	12.5	0602 0061



## 6.3 Finned-tube heating element with limiter

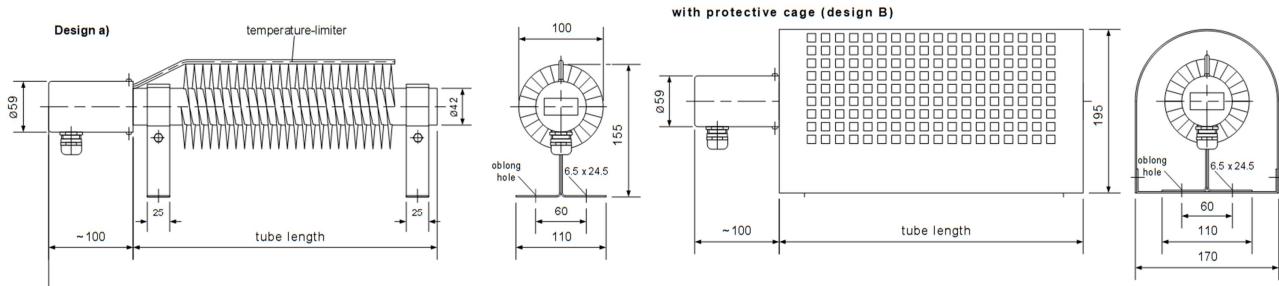


**Application** Finned-tube heating elements for heating and anti-frost protection of:  
assembly pits, crane driver cabs, payment booths, toilets, greenhouses, workshops, workplaces, cellars,  
water supply installations, switchgears and more.  
**With temperature-limiter to exclude fire hazard and increased safety**

**Design**

- a) Stainless-steel finned-tube with 2 footrests  
230 V tubular heating elements Ø 8,4 mm made of stainless-steel  
bright-galvanized steel hood, protection system IP65  
with limiter to reduce the housing temperature to max. 170°C
- b) additionally with protective cage.  
Maximum excess temperature 85 K (acc. to DIN EN 60335-2-30)  
At a free convection the max. housing temperature is approx. 100°C

**Installation** Horizontally on floors or walls. Do not place any objects on the finned-tube heating elements.  
Be careful with cladding (heat build-up).  
Protection cage as touch-protection available (see next page).  
**Temperature control with room temperature controller catalogue page 6.9**

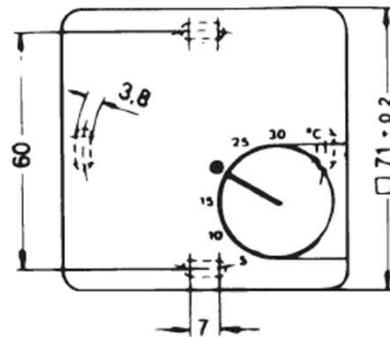
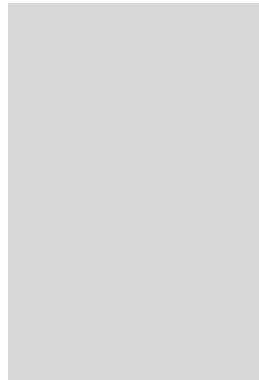
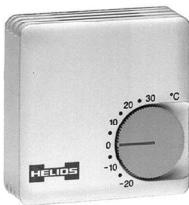


tube length [mm]	Power [Watt]	Voltage	Design a) without protective cage Article-no.	Design b) with protective cage Article-no.
500	500	230 V~	0603 0511	0603 0611
750	750	230 V~	0601 0521	0601 0621
1000	1000	230 V~	0603 0531	0603 0631
1500	1500	230 V~	0603 0541	0603 0641

**Finned-tube heating element with reduced surface temperature**  
with temperature-limiter to reduce the housing temperature to max. 110°C

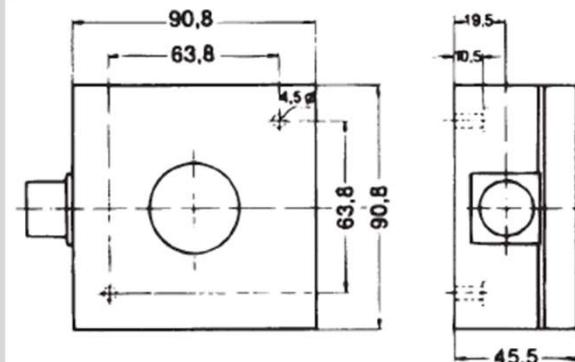
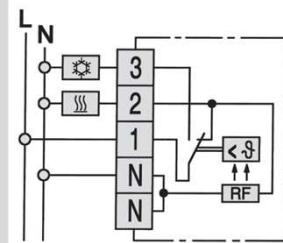
1500	1000	0603 0311	0603 0321
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## 6.9 Room temperature controller



**Room temperature controller IP 30, exterior adjustment**

<b>Application</b>	Room temperature controllers IP 30 are suitable for automatically maintaining constant air temperatures in connection with Helios room heating elements. The controller is suitable for wall mounting in dry rooms.
<b>Design</b>	Bimetal with single-pole double-throw switch built into a plastic housing.
<b>Electrical connection</b>	Up to 2 000 W at 230 V single-phase current, room temperature controller switches directly. Over 2 000 W, contactor necessary
<b>Technical data</b>	<p>Protection type: IP 30          Switching element: single-pole switch          Switching gap: 0.5 K          Switching current: 10 A max.          Voltage: 230 V ~ max.          Temperature range: -20°C to +30°C          Article-no.: 0609 0111</p>



**Room temperature controller IP 54, interior adjustment**

<b>Application</b>	Room temperature controllers IP 54 are suitable for automatically maintaining constant air temperatures in connection with Helios room heating elements. The controller is suitable for wall mounting in wet rooms.
<b>Design</b>	Internal NTC temperature sensor with relay contact (change-over, voltage free)
<b>Electrical connection</b>	Up to 2 000 W at 230 V single-phase current, room temperature controller switches directly. Over 2 000 W, contactor necessary
<b>Technical data</b>	<p>Protection type: IP 54          Switching element: single-pole switch          Switching gap: 0.5 K          Switching current: 10 A max.          Voltage: 230 V ~ max.          Temperature range: +5°C to +35°C          Article-no.: 0609 0121</p>

