



# Електролюкс Electrolux

## Elektrichni greaci Electric heaters Product range overview Pregled na proizvodi



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Made in Electrolux-Macedonia



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# Product range overview

<p>1.1 G1½ screw-in heating element</p> <p>Model C/RK/3/G1½</p> 	<p>Application Direct water heating.</p> <p>Design</p> <p>3 nickel plated copper tube elements, 35 mm unheated, G1½ brass nipple, bright-galvanized steel hood, IP 30 protection system.</p> <p>* See last page</p>	<p>Model C/RK/3/G1½ with 3 tube elements</p> <table border="1"> <thead> <tr> <th>Imm. length mm approx.</th> <th>Power Watt approx.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>175</td><td>2000</td><td>0101 0071</td></tr> <tr><td>230</td><td>3000</td><td>0101 0081</td></tr> <tr><td>330</td><td>4500</td><td>0101 0091</td></tr> <tr><td>405</td><td>6000</td><td>0101 0101</td></tr> <tr><td>520</td><td>7500</td><td>0101 0111</td></tr> <tr><td>620</td><td>9000</td><td>0101 0121</td></tr> <tr><td>770</td><td>12000</td><td>0101 0131</td></tr> </tbody> </table>			Imm. length mm approx.	Power Watt approx.	Order No.	175	2000	0101 0071	230	3000	0101 0081	330	4500	0101 0091	405	6000	0101 0101	520	7500	0101 0111	620	9000	0101 0121	770	12000	0101 0131																
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<p>1.2 G1½ screw-in heating element with thermostat, internally regulated</p> <p>Model C/Th/RK/3/G1½</p> 	<p>Application Direct water heating.</p> <p>Design</p> <p>3 nickel plated copper tube elements, 35 mm unheated, G1½ brass nipple, thermostat 0 to 120°C, differential gap 3 K, switching power 16 A to 400 Volt, 1 pin, bright-galvanized steel hood, IP 30 protection system.</p> <p>* See last page</p>	<table border="1"> <thead> <tr> <th>Imm. length mm approx.</th> <th>Power Watt approx.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>175</td><td>2000</td><td>0102 0011</td></tr> <tr><td>230</td><td>3000</td><td>0102 0021</td></tr> <tr><td>330</td><td>4500</td><td>0102 0031</td></tr> <tr><td>405</td><td>6000</td><td>0102 0041</td></tr> <tr><td>520</td><td>7500</td><td>0102 0051</td></tr> <tr><td>620</td><td>9000</td><td>0102 0061</td></tr> <tr><td>770</td><td>12000</td><td>0102 0071</td></tr> </tbody> </table>			Imm. length mm approx.	Power Watt approx.	Order No.	175	2000	0102 0011	230	3000	0102 0021	330	4500	0102 0031	405	6000	0102 0041	520	7500	0102 0051	620	9000	0102 0061	770	12000	0102 0071																
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<p>1.4 G1½ screw-in heating element with run-dry protection</p> <p>Model C/RK/TRO/3/G1½</p> 	<p>Application Direct water heating.</p> <p>Design</p> <p>3 nickel plated copper tube elements, 45 mm unheated, G1½ brass nipple, bright-galvanized steel hood, IP 30 protection system, run-dry protection, operating temperature 165°C (-30 K).</p> <p>* See last page</p>	<table border="1"> <thead> <tr> <th>Imm. length mm approx.</th> <th>Power Watt approx.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>190</td><td>2000</td><td>0104 0011</td></tr> <tr><td>245</td><td>3000</td><td>0104 0021</td></tr> <tr><td>345</td><td>4500</td><td>0104 0031</td></tr> <tr><td>420</td><td>6000</td><td>0104 0041</td></tr> <tr><td>535</td><td>7500</td><td>0104 0051</td></tr> <tr><td>635</td><td>9000</td><td>0104 0061</td></tr> <tr><td>785</td><td>12000</td><td>0104 0071</td></tr> </tbody> </table>			Imm. length mm approx.	Power Watt approx.	Order No.	190	2000	0104 0011	245	3000	0104 0021	345	4500	0104 0031	420	6000	0104 0041	535	7500	0104 0051	635	9000	0104 0061	785	12000	0104 0071																
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# Product range overview







<p>1.9 G1½ screw-in heating element</p> <p>Model C/RE/3/G1½</p> 	<p>Application For heating: Fluids that do not attack steel. Hydraulic fluids or similar, heat transfer oil, quenching oil, fluids of similar viscosity to water.</p> <p>unit load 1.5 W/cm<sup>2</sup> 2.3 W/cm<sup>2</sup> 4.5 und 6.5 W/cm<sup>2</sup></p> <p>Design 3 steel-jacket tube elements, 35 mm unheated, G1½ brass nipple, bright-galvanized steel hood, IP 30 protection system.</p> <p>* See last page</p>	<table border="1"> <thead> <tr> <th>Imm. length mm approx.</th> <th>Power Watt approx.</th> <th>Order No.</th> <th>Power Watt approx.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr> <td colspan="2"></td> <td colspan="3">Surface loading</td> </tr> <tr> <td colspan="2">1.5 W/cm<sup>2</sup></td> <td colspan="3">2.3 W/cm<sup>2</sup></td> </tr> <tr> <td>455</td> <td>1000</td> <td>0109 0011</td> <td>1500</td> <td>0109 0121</td> </tr> <tr> <td>680</td> <td>1500</td> <td>0109 0021</td> <td>2250</td> <td>0109 0131</td> </tr> <tr> <td>880</td> <td>2000</td> <td>0109 0031</td> <td>3000</td> <td>0109 0141</td> </tr> <tr> <td>1100</td> <td>2500</td> <td>0109 0041</td> <td></td> <td></td> </tr> <tr> <td colspan="2">4.5 W/cm<sup>2</sup></td> <td colspan="3">6.5 W/cm<sup>2</sup></td> </tr> <tr> <td>455</td> <td>3000</td> <td>0109 0221</td> <td>4500</td> <td>0109 0321</td> </tr> <tr> <td>680</td> <td>4500</td> <td>0109 0231</td> <td>6000</td> <td>0109 0331</td> </tr> <tr> <td>880</td> <td>6000</td> <td>0109 0241</td> <td>9000</td> <td>0109 0351</td> </tr> <tr> <td>1100</td> <td>7500</td> <td>0109 0251</td> <td></td> <td></td> </tr> </tbody> </table>	Imm. length mm approx.	Power Watt approx.	Order No.	Power Watt approx.	Order No.			Surface loading			1.5 W/cm <sup>2</sup>		2.3 W/cm <sup>2</sup>			455	1000	0109 0011	1500	0109 0121	680	1500	0109 0021	2250	0109 0131	880	2000	0109 0031	3000	0109 0141	1100	2500	0109 0041			4.5 W/cm <sup>2</sup>		6.5 W/cm <sup>2</sup>			455	3000	0109 0221	4500	0109 0321	680	4500	0109 0231	6000	0109 0331	880	6000	0109 0241	9000	0109 0351	1100	7500	0109 0251							
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<p>1.11 G1¼, G1½, G2 screw-in heating element with thermostat, externally regulated</p> <p>Model C/Th/a/RE/3/G1¼, C/Th/a/RE/3/G1½, C/Th/a/RE/3/G2</p> 	<p>Application Controlled heating of: Fluids that do not attack steel. Hydraulic fluids or similar, heat transfer oil, quenching oil.</p> <p>unit load 1.5 W/cm<sup>2</sup> 2.3 W/cm<sup>2</sup></p> <p>Design 3 steel-jacket tube elements, 35 mm unheated, G1¼, G1½ or G2 brass nipple, thermostat 30 to 110°C, steel hood, varnished, IP 30 protection system.</p> <p>* See last page</p>	<table border="1"> <thead> <tr> <th>Imm. length mm approx.</th> <th>Power Watt approx.</th> <th>Order No. Thread G1¼</th> <th>Order No. Thread G1½</th> <th>Order No. Thread G2</th> </tr> </thead> <tbody> <tr> <td colspan="2"></td> <td colspan="3">Surface loading 1.5 W/cm<sup>2</sup></td> </tr> <tr> <td>455</td> <td>1000</td> <td>0111 1011</td> <td>0111 0011</td> <td>0111 2011</td> </tr> <tr> <td>680</td> <td>1500</td> <td>0111 1021</td> <td>0111 0021</td> <td>0111 2021</td> </tr> <tr> <td>880</td> <td>2000</td> <td>0111 1031</td> <td>0111 0031</td> <td>0111 2031</td> </tr> <tr> <td>1100</td> <td>2500</td> <td>0111 1041</td> <td>0111 0041</td> <td>0111 2041</td> </tr> <tr> <td colspan="2"></td> <td colspan="3">Surface loading 2.3 W/cm<sup>2</sup></td> </tr> <tr> <td>240</td> <td>750</td> <td>0111 1111</td> <td>0111 0111</td> <td>0111 2111</td> </tr> <tr> <td>455</td> <td>1500</td> <td>0111 1121</td> <td>0111 0121</td> <td>0111 2121</td> </tr> <tr> <td>680</td> <td>2250</td> <td>0111 1131</td> <td>0111 0131</td> <td>0111 2131</td> </tr> <tr> <td>880</td> <td>3000</td> <td>0111 1141</td> <td>0111 0141</td> <td>0111 2141</td> </tr> </tbody> </table>	Imm. length mm approx.	Power Watt approx.	Order No. Thread G1¼	Order No. Thread G1½	Order No. Thread G2			Surface loading 1.5 W/cm <sup>2</sup>			455	1000	0111 1011	0111 0011	0111 2011	680	1500	0111 1021	0111 0021	0111 2021	880	2000	0111 1031	0111 0031	0111 2031	1100	2500	0111 1041	0111 0041	0111 2041			Surface loading 2.3 W/cm <sup>2</sup>			240	750	0111 1111	0111 0111	0111 2111	455	1500	0111 1121	0111 0121	0111 2121	680	2250	0111 1131	0111 0131	0111 2131	880	3000	0111 1141	0111 0141	0111 2141										
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<p>1.12 G2 screw-in heating element with thermostat</p> <p>Model C/RE/Th/0/2/G2</p> 	<p>Application Controlled heating of: Fluids that do not attack steel. Hydraulic fluids or lube oil, flowing heat carriers and M and S heating oil.</p> <p>unit load 1 W/cm<sup>2</sup> 4 W/cm<sup>2</sup></p> <p>Design 2 steel-jacket tube elements, 40 mm unheated, G2 steel nipple, thermostat 0 to +120°C, differential gap 3 K, bright-galvanized steel hood, IP 65 protection system.</p> <p>* See last page</p>	<table border="1"> <thead> <tr> <th>Imm. length mm approx.</th> <th>Power Watt approx.</th> <th>Order No.</th> <th>Power Watt approx.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr> <td colspan="2"></td> <td colspan="3">Surface loading</td> </tr> <tr> <td colspan="2">1 W/cm<sup>2</sup></td> <td colspan="3">4 W/cm<sup>2</sup></td> </tr> <tr> <td>290</td> <td>700</td> <td>0112 0011</td> <td>2800</td> <td>0112 0111</td> </tr> <tr> <td>390</td> <td>1000</td> <td>0112 0021</td> <td>4000</td> <td>0112 0121</td> </tr> <tr> <td>460</td> <td>1250</td> <td>0112 0031</td> <td>5000</td> <td>0112 0131</td> </tr> <tr> <td>530</td> <td>1500</td> <td>0112 0041</td> <td>6000</td> <td>0112 0141</td> </tr> </tbody> </table>	Imm. length mm approx.	Power Watt approx.	Order No.	Power Watt approx.	Order No.			Surface loading			1 W/cm <sup>2</sup>		4 W/cm <sup>2</sup>			290	700	0112 0011	2800	0112 0111	390	1000	0112 0021	4000	0112 0121	460	1250	0112 0031	5000	0112 0131	530	1500	0112 0041	6000	0112 0141																														
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<p>1.13 G1½ screw-in heating element</p> <p>Model C/RR/3/G1½, unregulated C/Th/RR/3/G1½ with thermostat, internally regulated C/Th/a/RR/3/G1½ with thermostat, externally regulated</p> 	<p>Application Heating thin oils, aqueous solutions and fluids that do not attack stainless steel mat.-no. 1.4541. Heating air up to 120°C. For air temperatures over 120°C, please ask for information.</p> <p>Design Order no. 01130... 3 stainless steel tube elements mat.-no. 1.4541, 35 mm unheated, G1½ brass nipple, bright-galvanized steel hood, IP 30 protection system; differences in Order No. 01131... for hood type, see 1.10, thermostat 0 to +120°C, 1 pin, differences in Order No. 01132... for hood type, see 1.11, thermostat 30 to 110°C, 3 pin.</p> <p>* See last page</p>	<table border="1"> <thead> <tr> <th>Imm. length mm approx.</th> <th>Power Watt approx.</th> <th>Order No. C/RR/3/G1½</th> <th>Order No. C/Th/RR/3/G1½</th> <th>Order No. C/Th/a/RR/3/G1½</th> </tr> </thead> <tbody> <tr> <td colspan="2"></td> <td colspan="3">Surface loading 2 W/cm<sup>2</sup></td> </tr> <tr> <td>455</td> <td>1350</td> <td>0113 0011</td> <td>0113 1011</td> <td>0113 2011</td> </tr> <tr> <td>680</td> <td>2000</td> <td>0113 0021</td> <td>0113 1021</td> <td>0113 2021</td> </tr> <tr> <td>880</td> <td>2700</td> <td>0113 0031</td> <td>0113 1031</td> <td>0113 2031</td> </tr> <tr> <td>1100</td> <td>3500</td> <td>0113 0041</td> <td>0113 1041</td> <td>0113 2041</td> </tr> <tr> <td colspan="2"></td> <td colspan="3">Electrical connection to 230/400 V three-phase current</td> </tr> <tr> <td colspan="2"></td> <td colspan="3">Surface loading 6 W/cm<sup>2</sup></td> </tr> <tr> <td>455</td> <td>4000</td> <td>0113 0111</td> <td>0113 1111</td> <td>0113 2111</td> </tr> <tr> <td>680</td> <td>6000</td> <td>0113 0121</td> <td>0113 1121</td> <td>0113 2121</td> </tr> <tr> <td>880</td> <td>8000</td> <td>0113 0131</td> <td>0113 1131</td> <td>0113 2131</td> </tr> <tr> <td>1100</td> <td>10500</td> <td>0113 0141</td> <td>0113 1141</td> <td>0113 2141</td> </tr> <tr> <td colspan="2"></td> <td colspan="3">Electrical connection to 3 x 400 V three-phase current</td> </tr> </tbody> </table>	Imm. length mm approx.	Power Watt approx.	Order No. C/RR/3/G1½	Order No. C/Th/RR/3/G1½	Order No. C/Th/a/RR/3/G1½			Surface loading 2 W/cm <sup>2</sup>			455	1350	0113 0011	0113 1011	0113 2011	680	2000	0113 0021	0113 1021	0113 2021	880	2700	0113 0031	0113 1031	0113 2031	1100	3500	0113 0041	0113 1041	0113 2041			Electrical connection to 230/400 V three-phase current					Surface loading 6 W/cm <sup>2</sup>			455	4000	0113 0111	0113 1111	0113 2111	680	6000	0113 0121	0113 1121	0113 2121	880	8000	0113 0131	0113 1131	0113 2131	1100	10500	0113 0141	0113 1141	0113 2141			Electrical connection to 3 x 400 V three-phase current		
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<p>1.14 G1½ screw-in heating element</p> <p>With thermostat and limiter Model C/Th/a/STB/RR/3/G1½</p> <p>With thermostat and run-dry protection Model C/Th/a/TRO/RR/3/G1½</p> 	<p>Application Heating chlorine-free water, weak acids and caustic solutions, unit load 2 W/cm<sup>2</sup></p> <p>Design 3 stainless steel tube elements mat.-no. 1.4571, welded in, 35 mm unheated, G1½ stainless steel nipple, mat.-no. 1.4571, plastic case, off-white, IP 65 protection system; Order No. 01140... thermostat +30 to 110°C and 115°C limiter; Order No. 01141... thermostat +30 to +110°C, run-dry protection 165°C.</p> <p>* See last page</p>	<table border="1"> <thead> <tr> <th>Imm. length mm approx.</th> <th>Power Watt approx.</th> <th>Order No.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr> <td colspan="2"></td> <td colspan="2">Surface loading 2 W/cm<sup>2</sup></td> </tr> <tr> <td>455</td> <td>1350</td> <td>0114 0011</td> <td>0114 1011</td> </tr> <tr> <td>680</td> <td>2000</td> <td>0114 0021</td> <td>0114 1021</td> </tr> <tr> <td>880</td> <td>2700</td> <td>0114 0031</td> <td>0114 1031</td> </tr> <tr> <td>1100</td> <td>3500</td> <td>0114 0041</td> <td>0114 1041</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">Electrical connection to 230/400 V three-phase current</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">Surface loading 6 W/cm<sup>2</sup></td> </tr> <tr> <td>455</td> <td>4000</td> <td>0114 0111</td> <td>0114 1111</td> </tr> <tr> <td>680</td> <td>6000</td> <td>0114 0121</td> <td>0114 1121</td> </tr> <tr> <td>880</td> <td>8000</td> <td>0114 0131</td> <td>0114 1131</td> </tr> <tr> <td>1100</td> <td>10500</td> <td>0114 0141</td> <td>0114 1141</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">Electrical connection to 3 x 400 V three-phase current</td> </tr> </tbody> </table>	Imm. length mm approx.	Power Watt approx.	Order No.	Order No.			Surface loading 2 W/cm <sup>2</sup>		455	1350	0114 0011	0114 1011	680	2000	0114 0021	0114 1021	880	2700	0114 0031	0114 1031	1100	3500	0114 0041	0114 1041			Electrical connection to 230/400 V three-phase current				Surface loading 6 W/cm <sup>2</sup>		455	4000	0114 0111	0114 1111	680	6000	0114 0121	0114 1121	880	8000	0114 0131	0114 1131	1100	10500	0114 0141	0114 1141			Electrical connection to 3 x 400 V three-phase current														
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Desing Electrolux Macedonia  
[www.electroluxdesignlab.mk](http://www.electroluxdesignlab.mk)











# Product range overview

<p>5.1 Bath immersion heater</p>  	<p>Tested and certified to VDE standard</p> <p><b>Application</b> Helios bath heaters are particularly suitable for the direct heating of: water, caustic solutions, acids, disinfectants, oils and other fluids, which can support a unit load of 2.5W/cm<sup>2</sup>.</p> <p><b>Design</b> Helios bath heaters consist of an exchangeable 230 V element, exchangeable protective tube and IP 65 hood with power cable.</p> <p>The jacket tube material depends on the type of fluid to be heated.</p> <p><b>Technical advantages:</b></p> <p>If glass or porcelain tubes break, the heating element can still be used.</p> <p>The power cable can be arranged axially or radially by rotating the cap.</p> <p>* See last page</p>	<table border="1"> <thead> <tr> <th>Tube length mm</th> <th>Min. depth mm</th> <th>Power Watt appr.</th> <th>Thermostat without Order No.</th> <th>Thermostat with Order No.</th> </tr> </thead> <tbody> <tr> <td colspan="5">Special hard porcelain, Ø 46.5 mm</td> </tr> <tr> <td>300</td> <td>250</td> <td>500</td> <td>0501 0011</td> <td>0502 0011</td> </tr> <tr> <td>450</td> <td>350</td> <td>1000</td> <td>0501 0031</td> <td>0502 0031</td> </tr> <tr> <td>600</td> <td>450</td> <td>1500</td> <td>0501 0051</td> <td>0502 0051</td> </tr> <tr> <td>800</td> <td>600</td> <td>2500</td> <td>0501 0071</td> <td>0502 0071</td> </tr> <tr> <td>1000</td> <td>800</td> <td>3000</td> <td>0501 0081</td> <td>0502 0081</td> </tr> <tr> <td colspan="5">Engineering glass, Ø 46 mm</td> </tr> <tr> <td>300</td> <td>250</td> <td>500</td> <td>0501 1011</td> <td>0502 1011</td> </tr> <tr> <td>450</td> <td>350</td> <td>1000</td> <td>0501 1031</td> <td>0502 1031</td> </tr> <tr> <td>600</td> <td>450</td> <td>1500</td> <td>0501 1051</td> <td>0502 1051</td> </tr> <tr> <td>800</td> <td>600</td> <td>2500</td> <td>0501 1071</td> <td>0502 1071</td> </tr> <tr> <td>1000</td> <td>800</td> <td>3000</td> <td>0501 1081</td> <td>0502 1081</td> </tr> <tr> <td colspan="5">Teflon (PTFE), Ø 46 mm</td> </tr> <tr> <td>300</td> <td>250</td> <td>500</td> <td>0501 3011</td> <td>0502 3011</td> </tr> <tr> <td>450</td> <td>350</td> <td>750</td> <td>0501 3021</td> <td>0502 3021</td> </tr> <tr> <td>600</td> <td>450</td> <td>1000</td> <td>0501 3031</td> <td>0502 3031</td> </tr> <tr> <td>800</td> <td>600</td> <td>1400</td> <td>0501 3041</td> <td>0502 3041</td> </tr> <tr> <td>1000</td> <td>800</td> <td>1900</td> <td>0501 3051</td> <td>0502 3051</td> </tr> <tr> <td colspan="5">Titanium, Ø 40 mm</td> </tr> <tr> <td>300</td> <td>250</td> <td>500</td> <td>0501 4011</td> <td>0502 4011</td> </tr> <tr> <td>450</td> <td>350</td> <td>1000</td> <td>0501 4031</td> <td>0502 4031</td> </tr> <tr> <td>600</td> <td>450</td> <td>1500</td> <td>0501 4051</td> <td>0502 4051</td> </tr> <tr> <td>800</td> <td>600</td> <td>2500</td> <td>0501 4071</td> <td>0502 4071</td> </tr> <tr> <td>1000</td> <td>800</td> <td>3000</td> <td>0501 4081</td> <td>0502 4081</td> </tr> <tr> <td colspan="5">Steel, Ø 42 mm</td> </tr> <tr> <td>300</td> <td>250</td> <td>500</td> <td>0501 5011</td> <td>0502 5011</td> </tr> <tr> <td>450</td> <td>350</td> <td>1000</td> <td>0501 5031</td> <td>0502 5031</td> </tr> <tr> <td>600</td> <td>450</td> <td>1500</td> <td>0501 5051</td> <td>0502 5051</td> </tr> <tr> <td>800</td> <td>600</td> <td>2500</td> <td>0501 5071</td> <td>0502 5071</td> </tr> <tr> <td>1000</td> <td>800</td> <td>3000</td> <td>0501 5081</td> <td>0502 5081</td> </tr> <tr> <td colspan="5">Stainless steel mat.-no. 1.4571, Ø 42.4 x 1.6 mm</td> </tr> <tr> <td>300</td> <td>250</td> <td>500</td> <td>0501 6011</td> <td>0502 6011</td> </tr> <tr> <td>450</td> <td>350</td> <td>1000</td> <td>0501 6031</td> <td>0502 6031</td> </tr> <tr> <td>600</td> <td>450</td> <td>1500</td> <td>0501 6051</td> <td>0502 6051</td> </tr> <tr> <td>800</td> <td>600</td> <td>2500</td> <td>0501 6071</td> <td>0502 6071</td> </tr> <tr> <td>1000</td> <td>800</td> <td>3000</td> <td>0501 6081</td> <td>0502 6081</td> </tr> <tr> <td colspan="5">Stainless steel mat.-no. 1.4539, Ø 42.4 x 1.5 mm</td> </tr> <tr> <td colspan="5">Quartz, Ø 46.5 mm please ask for information</td> </tr> </tbody> </table>	Tube length mm	Min. depth mm	Power Watt appr.	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<p>5.2 Bath immersion heater with thermostat</p> 	<p><b>Application</b> Helios bath heaters are particularly suitable for the controlled heating of: water, caustic solutions, acids, disinfectants, oils and other fluids, which can support a unit load of 2.5W/cm<sup>2</sup>.</p> <p><b>Design</b> Helios bath heaters with thermostat consist of a 230 V heating element, the appropriate protective tube, thermostat 0 to +120°C with polypropylene protective tube and the terminal box with power cable. All parts are exchangeable.</p> <p>* See last page</p>	<table border="1"> <thead> <tr> <th>Tube length mm</th> <th>Min. depth mm</th> <th>Power Watt appr.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr> <td colspan="4">Steel, Ø 42 mm</td> </tr> <tr> <td>300</td> <td>250</td> <td>500</td> <td>0501 5011</td> </tr> <tr> <td>450</td> <td>350</td> <td>1000</td> <td>0501 5031</td> </tr> <tr> <td>600</td> <td>450</td> <td>1500</td> <td>0501 5051</td> </tr> <tr> <td>800</td> <td>600</td> <td>2500</td> <td>0501 5071</td> </tr> <tr> <td>1000</td> <td>800</td> <td>3000</td> <td>0501 5081</td> </tr> <tr> <td colspan="4">Stainless steel mat.-no. 1.4571, Ø 42.4 x 1.6 mm</td> </tr> <tr> <td>300</td> <td>250</td> <td>500</td> <td>0501 6011</td> </tr> <tr> <td>450</td> <td>350</td> <td>1000</td> <td>0501 6031</td> </tr> <tr> <td>600</td> <td>450</td> <td>1500</td> <td>0501 6051</td> </tr> <tr> <td>800</td> <td>600</td> <td>2500</td> <td>0501 6071</td> </tr> <tr> <td>1000</td> <td>800</td> <td>3000</td> <td>0501 6081</td> </tr> <tr> <td colspan="4">Stainless steel mat.-no. 1.4539, Ø 42.4 x 1.5 mm</td> </tr> <tr> <td colspan="4">Quartz, Ø 46.5 mm please ask for information</td> </tr> </tbody> </table>	Tube length mm	Min. depth mm	Power Watt appr.	Order No.	Steel, Ø 42 mm				300	250	500	0501 5011	450	350	1000	0501 5031	600	450	1500	0501 5051	800	600	2500	0501 5071	1000	800	3000	0501 5081	Stainless steel mat.-no. 1.4571, Ø 42.4 x 1.6 mm				300	250	500	0501 6011	450	350	1000	0501 6031	600	450	1500	0501 6051	800	600	2500	0501 6071	1000	800	3000	0501 6081	Stainless steel mat.-no. 1.4539, Ø 42.4 x 1.5 mm				Quartz, Ø 46.5 mm please ask for information																																																																																																																																										
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<p>5.3 Z-shaped heating element</p> 	<p><b>Application</b> Hung heating element. For heating fluids in large tanks and flat tubs.</p> <p><b>Design</b> horizontal heated shank A, vertical unheated shank B, horizontal unheated shank, 200 mm long. Brass screw cap, IP 65 protection system, protective jacket tube of steel, stainless steel and titanium. The jacket tube material depends on the type of fluid to be heated.</p> <p>* See last page</p>	<table border="1"> <thead> <tr> <th>Power Watt approx.</th> <th>Shank A mm approx.</th> <th>Shank B mm approx.</th> <th>Order No. Steel</th> <th>Order No. Stainless steel</th> </tr> </thead> <tbody> <tr> <td>1000</td> <td>400</td> <td>300</td> <td>0503 0011</td> <td>0503 1011</td> </tr> <tr> <td>1300</td> <td>500</td> <td>400</td> <td>0503 0021</td> <td>0503 1021</td> </tr> <tr> <td>1700</td> <td>600</td> <td>400</td> <td>0503 0031</td> <td>0503 1031</td> </tr> <tr> <td>2100</td> <td>750</td> <td>500</td> <td>0503 0041</td> <td>0503 1041</td> </tr> <tr> <td>2500</td> <td>850</td> <td>500</td> <td>0503 0051</td> <td>0503 1051</td> </tr> <tr> <td>3000</td> <td>950</td> <td>600</td> <td>0503 0061</td> <td>0503 1061</td> </tr> <tr> <td>3500</td> <td>1050</td> <td>600</td> <td>0503 0071</td> <td>0503 1071</td> </tr> <tr> <td>4000</td> <td>1200</td> <td>800</td> <td>0503 0081</td> <td>0503 1081</td> </tr> <tr> <td>5000</td> <td>1500</td> <td>800</td> <td>0503 0091</td> <td>0503 1091</td> </tr> <tr> <td>6000</td> <td>1800</td> <td>1000</td> <td>0503 0101</td> <td>0503 1101</td> </tr> </tbody> </table> <p>Titanium, Ø 40 mm, with plastic screw cap – please ask for information.</p>	Power Watt approx.	Shank A mm approx.	Shank B mm approx.	Order No. Steel	Order No. Stainless steel	1000	400	300	0503 0011	0503 1011	1300	500	400	0503 0021	0503 1021	1700	600	400	0503 0031	0503 1031	2100	750	500	0503 0041	0503 1041	2500	850	500	0503 0051	0503 1051	3000	950	600	0503 0061	0503 1061	3500	1050	600	0503 0071	0503 1071	4000	1200	800	0503 0081	0503 1081	5000	1500	800	0503 0091	0503 1091	6000	1800	1000	0503 0101	0503 1101																																																																																																																																												
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<p>5.4 Large immersion boiler element Also available in 6 - 15 kW three-phase current.</p> 	<p>1 - 5 kW power for AC supply</p> <p><b>Application</b> Heating water and other non-aggressive fluids, which can support a unit load of 8 W/cm<sup>2</sup>.</p> <p><b>Design</b> Tube elements, Ø 8.4 mm, stainless steel, plastic screw cap as handle, IP 65 protection system, power cable 3 x 1.5 mm<sup>2</sup>, with protection contact plug (not included from No. 0504 0051), and adjustable retaining clamp (not in No. 0504 0011).</p> <p>* See last page</p>	<table border="1"> <thead> <tr> <th>Imm. depth mm approx.</th> <th>Min. imm. depth mm approx.</th> <th>Voltage Volt - approx.</th> <th>Power kW approx.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr> <td>210</td> <td>60</td> <td>230</td> <td>1</td> <td>0504 0011</td> </tr> <tr> <td>300</td> <td>80</td> <td>230</td> <td>2</td> <td>0504 0021</td> </tr> <tr> <td>650</td> <td>80</td> <td>230</td> <td>2</td> <td>0504 0031</td> </tr> <tr> <td>650</td> <td>130</td> <td>230</td> <td>3</td> <td>0504 0041</td> </tr> <tr> <td>650</td> <td>130</td> <td>400</td> <td>4</td> <td>0504 0051</td> </tr> <tr> <td>650</td> <td>180</td> <td>400</td> <td>5</td> <td>0504 0061</td> </tr> </tbody> </table> <p>Large immersion boiler elements with thermostat on request.</p>	Imm. depth mm approx.	Min. imm. depth mm approx.	Voltage Volt - approx.	Power kW approx.	Order No.	210	60	230	1	0504 0011	300	80	230	2	0504 0021	650	80	230	2	0504 0031	650	130	230	3	0504 0041	650	130	400	4	0504 0051	650	180	400	5	0504 0061																																																																																																																																																																
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<p>5.5 Drum heater</p> 	<p><b>Application</b> Heating fluids that do not attack steel or stainless steel. High-viscosity oils, grease, etc. that support a unit load of 1 W/cm<sup>2</sup>, or low-viscosity oils and fluids that support a unit load of 4 W/cm<sup>2</sup>.</p> <p><b>Design</b> 2 tube elements, Ø 8.4 mm, steel or stainless steel, mat.-no. 1.4571, plastic hood, IP 65 protection system. Also available with thermostat + 30 to + 110°C, differential gap 5 K, Ø 110 mm sheet metal hood, IP 30 protection system, with handle.</p> <p>* See last page</p>	<table border="1"> <thead> <tr> <th>Imm. depth mm approx.</th> <th>Min. imm. depth mm approx.</th> <th>Power kW approx.</th> <th>without Thermostat Order No.</th> <th>with Thermostat Order No.</th> </tr> </thead> <tbody> <tr> <td colspan="5">Steel jacket, 1 W/cm<sup>2</sup></td> </tr> <tr> <td>530</td> <td>250</td> <td>0.7</td> <td>0506 0011</td> <td>0506 0411</td> </tr> <tr> <td>810</td> <td>380</td> <td>1.0</td> <td>0506 0021</td> <td>0506 0421</td> </tr> <tr> <td colspan="5">Stainless steel jacket, 4 W/cm<sup>2</sup></td> </tr> <tr> <td>530</td> <td>250</td> <td>2.8</td> <td>0506 0311</td> <td>0506 0711</td> </tr> <tr> <td>810</td> <td>380</td> <td>4.0</td> <td>0506 0321</td> <td>0506 0721</td> </tr> </tbody> </table> <p>Heating element also available with 1 W/cm<sup>2</sup> surface loading, with 1/4 power rating.</p>	Imm. depth mm approx.	Min. imm. depth mm approx.	Power kW approx.	without Thermostat Order No.	with Thermostat Order No.	Steel jacket, 1 W/cm <sup>2</sup>					530	250	0.7	0506 0011	0506 0411	810	380	1.0	0506 0021	0506 0421	Stainless steel jacket, 4 W/cm <sup>2</sup>					530	250	2.8	0506 0311	0506 0711	810	380	4.0	0506 0321	0506 0721																																																																																																																																																																
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Desing Electrolux Macedonia  
[www.electroluxdesignlab.mk](http://www.electroluxdesignlab.mk)



# Product range overview







<p>5.8 PTFE space-saving bath heater</p>  <p>A</p> <p>B</p>	<p><b>Application</b> Heating aggressive fluids, caustic solutions, acids, disinfectants, electrolytes, etc.</p> <p><b>Design</b> Proven high-power 230 V tube elements, with PTFE coating, temperature-resistant up to about 260°C PTFE spacer, Makrolon connection box, IP 54 protection system, cable guide with strain-relief clamp, PVC power cable, 2 m length, moulded plug with protection contact (3-pin CEE plug available on request), plastic-coated retaining bracket.</p>	<table border="1"> <thead> <tr> <th>Illustration</th> <th>Imm. depth mm approx.</th> <th>Min. imm. depth mm approx.</th> <th>Width mm approx.</th> <th>Power Watt approx.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>A</td><td>560</td><td>320</td><td>270</td><td>1000</td><td>0508 0011</td></tr> <tr><td>A</td><td>830</td><td>460</td><td>450</td><td>2000</td><td>0508 0021</td></tr> <tr><td>A</td><td>1010</td><td>430</td><td>450</td><td>2000</td><td>0508 0031</td></tr> <tr><td>A</td><td>1240</td><td>870</td><td>200</td><td>2000</td><td>0508 0041</td></tr> <tr><td>A</td><td>1430</td><td>870</td><td>200</td><td>2000</td><td>0508 0051</td></tr> <tr><td>B</td><td>560</td><td>320</td><td>270</td><td>1000</td><td>0508 0111</td></tr> <tr><td>B</td><td>830</td><td>460</td><td>450</td><td>2000</td><td>0508 0121</td></tr> <tr><td>B</td><td>1010</td><td>430</td><td>450</td><td>2000</td><td>0508 0131</td></tr> <tr><td>B</td><td>1240</td><td>870</td><td>200</td><td>2000</td><td>0508 0141</td></tr> <tr><td>B</td><td>1430</td><td>870</td><td>200</td><td>2000</td><td>0508 0151</td></tr> </tbody> </table>	Illustration	Imm. depth mm approx.	Min. imm. depth mm approx.	Width mm approx.	Power Watt approx.	Order No.	A	560	320	270	1000	0508 0011	A	830	460	450	2000	0508 0021	A	1010	430	450	2000	0508 0031	A	1240	870	200	2000	0508 0041	A	1430	870	200	2000	0508 0051	B	560	320	270	1000	0508 0111	B	830	460	450	2000	0508 0121	B	1010	430	450	2000	0508 0131	B	1240	870	200	2000	0508 0141	B	1430	870	200	2000	0508 0151
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<p>5.9 PTFE space-saving bath heater <b>with thermostat, externally regulated</b></p>  <p>B</p>	<p><b>Application</b> Heating aggressive fluids, caustic solutions, acids, disinfectants, electrolytes, etc.</p> <p><b>Design</b> Proven high-power 230 V tube elements, with PTFE coating, temperature-resistant up to about 260°C PTFE spacer, Makrolon connection box, IP 54 protection system, cable guide with strain-relief clamp, PVC power cable, 2 m length, moulded plug with protection contact (3-pin CEE plug available on request), plastic-coated retaining bracket. Thermostat controlled range 0 to +120°C.</p>	<table border="1"> <thead> <tr> <th>Illustration</th> <th>Imm. depth mm approx.</th> <th>Min. imm. depth mm approx.</th> <th>Width mm approx.</th> <th>Power Watt approx.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>A</td><td>560</td><td>320</td><td>270</td><td>1000</td><td>0509 0011</td></tr> <tr><td>A</td><td>830</td><td>460</td><td>450</td><td>2000</td><td>0509 0021</td></tr> <tr><td>A</td><td>1010</td><td>430</td><td>450</td><td>2000</td><td>0509 0031</td></tr> <tr><td>A</td><td>1240</td><td>870</td><td>200</td><td>2000</td><td>0509 0041</td></tr> <tr><td>A</td><td>1430</td><td>870</td><td>200</td><td>2000</td><td>0509 0051</td></tr> <tr><td>B</td><td>560</td><td>320</td><td>270</td><td>1000</td><td>0509 0111</td></tr> <tr><td>B</td><td>830</td><td>460</td><td>450</td><td>2000</td><td>0509 0121</td></tr> <tr><td>B</td><td>1010</td><td>430</td><td>450</td><td>2000</td><td>0509 0131</td></tr> <tr><td>B</td><td>1240</td><td>870</td><td>200</td><td>2000</td><td>0509 0141</td></tr> <tr><td>B</td><td>1430</td><td>870</td><td>200</td><td>2000</td><td>0509 0151</td></tr> </tbody> </table>	Illustration	Imm. depth mm approx.	Min. imm. depth mm approx.	Width mm approx.	Power Watt approx.	Order No.	A	560	320	270	1000	0509 0011	A	830	460	450	2000	0509 0021	A	1010	430	450	2000	0509 0031	A	1240	870	200	2000	0509 0041	A	1430	870	200	2000	0509 0051	B	560	320	270	1000	0509 0111	B	830	460	450	2000	0509 0121	B	1010	430	450	2000	0509 0131	B	1240	870	200	2000	0509 0141	B	1430	870	200	2000	0509 0151
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<p>6.1 Finned-tube heating element</p> 	<p><b>Application</b> Heating and anti-frost protection for: assembly pits, crane driver cabs, payment booths, toilets, greenhouses, workshops, workplaces, cellars, transformer stations, building construction trucks, water supply installations, switchgears.</p> <p><b>Design</b> Stainless steel finned tube, with 2 supports, 1 or 3 stainless steel Ø 8.4 mm elements, bright-galvanized steel hood, IP 65 protection system, Pg 11 screw-in cable connection with strain-relief clamp.</p>	<table border="1"> <thead> <tr> <th>Tube length mm approx.</th> <th>Power Watt approx.</th> <th>Stainless steel Order No.</th> </tr> </thead> <tbody> <tr><td>500</td><td>500</td><td>0601 2011</td></tr> <tr><td>500</td><td>1000</td><td>0601 2021</td></tr> <tr><td>750</td><td>750</td><td>0601 2041</td></tr> <tr><td>750</td><td>1500</td><td>0601 2051</td></tr> <tr><td>1000</td><td>1000</td><td>0601 2071</td></tr> <tr><td>1000</td><td>2000</td><td>0601 2081</td></tr> <tr><td>1500</td><td>1500</td><td>0601 2111</td></tr> <tr><td>1500</td><td>3000</td><td>0601 2121</td></tr> <tr><td>2000</td><td>2000</td><td>0601 2151</td></tr> <tr><td>2000</td><td>4000</td><td>0601 2181</td></tr> <tr><td>3000</td><td>6000</td><td>0601 2211</td></tr> </tbody> </table> <p>• Hood is separated (60 mm gap)</p>	Tube length mm approx.	Power Watt approx.	Stainless steel Order No.	500	500	0601 2011	500	1000	0601 2021	750	750	0601 2041	750	1500	0601 2051	1000	1000	0601 2071	1000	2000	0601 2081	1500	1500	0601 2111	1500	3000	0601 2121	2000	2000	0601 2151	2000	4000	0601 2181	3000	6000	0601 2211																														
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<p>6.3 Finned-tube heating element <b>with thermostat or with limiter</b></p>  <p><b>Also available with protective cage.</b></p>	<p><b>Application</b> Heating and anti-frost protection for: assembly pits, crane driver cabs, payment booths, toilets, greenhouses, workshops, workplaces, cellars, transformer stations, building construction trucks, etc.</p> <p><b>Design</b> Stainless steel finned tube, with 2 supports, stainless steel Ø 8.4 mm heating elements, 230 V, thermostat or limiter, bright-galvanized steel hood, IP 65 protection system, Pg 11 screw-in cable connection with strain-relief clamp.</p>	<table border="1"> <thead> <tr> <th>Length mm approx. with thermostat</th> <th>Power Watt approx.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>500</td><td>1000</td><td>0603 0411</td></tr> <tr><td>750</td><td>1500</td><td>0603 0421</td></tr> <tr><td>1000</td><td>2000</td><td>0603 0431</td></tr> <tr><td>1500</td><td>3000</td><td>0603 0441</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Length mm approx. with limiter</th> <th>Power Watt approx.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>500</td><td>500</td><td>0603 0511</td></tr> <tr><td>750</td><td>750</td><td>0603 0521</td></tr> <tr><td>1000</td><td>1000</td><td>0603 0531</td></tr> <tr><td>1500</td><td>1500</td><td>0603 0541</td></tr> <tr><td>2000</td><td>2000</td><td>0603 0551</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Length mm approx. for garages</th> <th>Power Watt approx.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>1500</td><td>1000</td><td>0603 0311</td></tr> </tbody> </table>	Length mm approx. with thermostat	Power Watt approx.	Order No.	500	1000	0603 0411	750	1500	0603 0421	1000	2000	0603 0431	1500	3000	0603 0441	Length mm approx. with limiter	Power Watt approx.	Order No.	500	500	0603 0511	750	750	0603 0521	1000	1000	0603 0531	1500	1500	0603 0541	2000	2000	0603 0551	Length mm approx. for garages	Power Watt approx.	Order No.	1500	1000	0603 0311																											
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<p>6.5 Switchgear cabinet heaters</p>  <p>A</p> <p>B</p> <p>C</p> <p>D</p>	<p><b>Application</b> Maintaining switchgear cabinets at the correct temperature to prevent condensation.</p> <p><b>Design</b> Illustration A Brass tube, Ø 18 mm, exchangeable element, IP 30. Illustration B Light alloy profile, exchangeable cartridge and flexible lead connections. Illustration C G<sup>3</sup>/<sub>4</sub> screw-in heating element, Ø 18 mm brass jacket tube, IP 65. Illustration D Galvanized finned tube, Ø 38 mm, IP 65.</p>	<table border="1"> <thead> <tr> <th>Dimensions Illustration</th> <th>Dimensions mm approx.</th> <th>Power Watt approx.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>A</td><td>500</td><td>85</td><td>0605 0111</td></tr> <tr><td>A</td><td>500</td><td>190</td><td>0605 0121</td></tr> <tr><td>B</td><td>52 x 52 x 75</td><td>60</td><td>0605 0211</td></tr> <tr><td>B</td><td>52 x 52 x 75</td><td>100</td><td>0605 0221</td></tr> <tr><td>C</td><td>200</td><td>30</td><td>0606 0311</td></tr> <tr><td>C</td><td>200</td><td>60</td><td>0606 0321</td></tr> <tr><td>C</td><td>500</td><td>85</td><td>0606 0331</td></tr> <tr><td>C</td><td>500</td><td>200</td><td>0606 0341</td></tr> <tr><td>D</td><td>280</td><td>100</td><td>0606 0411</td></tr> </tbody> </table>	Dimensions Illustration	Dimensions mm approx.	Power Watt approx.	Order No.	A	500	85	0605 0111	A	500	190	0605 0121	B	52 x 52 x 75	60	0605 0211	B	52 x 52 x 75	100	0605 0221	C	200	30	0606 0311	C	200	60	0606 0321	C	500	85	0606 0331	C	500	200	0606 0341	D	280	100	0606 0411																										
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<p>6.7 Heater fan</p> 	<p><b>Application</b> HELIOS heater fans are suitable for either transportable or stationary applications, and can be used for heating both dry and humid spaces.</p> <p><b>Design</b> 370 x 320 x 300 mm casing (3-9 kW), 460 x 390 x 360 mm casing (15-21 kW); electric heater, 4-position switch, temperature controller, temperature limiter, 1.5 m power cable. Electrical connection: 3.000 W at 230 V AC; 6.000 W to 21.000 W at 230/400 V three-phase current.</p>	<table border="1"> <thead> <tr> <th>Power Watt</th> <th>Air volume m<sup>3</sup>/h</th> <th>Temperature increase K</th> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>1500/3000</td><td>300/460</td><td>14/19</td><td>0607 0011</td></tr> <tr><td>3000/6000</td><td>400/600</td><td>21/28</td><td>0607 0021</td></tr> <tr><td>4600/9000</td><td>600/800</td><td>25/32</td><td>0607 0071</td></tr> <tr><td>7500/15000</td><td>800/1400</td><td>26/30</td><td>0607 0041</td></tr> <tr><td>10500/21000</td><td>800/1400</td><td>37/42</td><td>0607 0051</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>0607 9001</td></tr> <tr><td>0607 9002</td></tr> </tbody> </table>	Power Watt	Air volume m <sup>3</sup> /h	Temperature increase K	Order No.	1500/3000	300/460	14/19	0607 0011	3000/6000	400/600	21/28	0607 0021	4600/9000	600/800	25/32	0607 0071	7500/15000	800/1400	26/30	0607 0041	10500/21000	800/1400	37/42	0607 0051	Order No.	0607 9001	0607 9002																																							
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Desing Electrolux Macedonia  
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# Product range overview





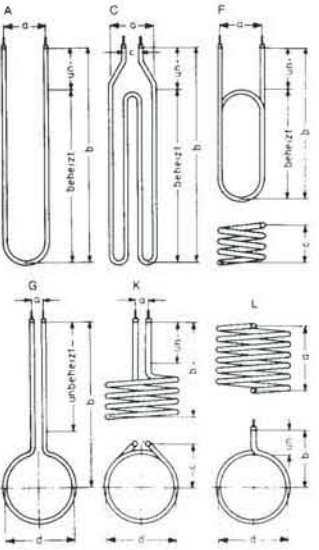
<p>7.2 Ceramic heating element Ø 26</p> <p>Also in Ø 15.5</p> 	<p>Application For heating: unit load high-viscosity oil, hydraulic fluid, 1.6 W/cm<sup>2</sup> fluids of similar viscosity to water. 2.7 W/cm<sup>2</sup></p> <p>Design Ceramic element support Ø 26 mm, serrated, M4 terminal studs, IP 00 protection system, <b>horizontal</b> installation.</p>	<table border="1"> <thead> <tr> <th>Imm. length mm approx.</th> <th>Power Watt approx. (1.6 W/cm<sup>2</sup>)</th> <th>Order No.</th> <th>Power Watt approx. (2.7 W/cm<sup>2</sup>)</th> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>150</td><td>200</td><td>0702 0011</td><td>350</td><td>0702 1011</td></tr> <tr><td>250</td><td>350</td><td>0702 0031</td><td>550</td><td>0702 1031</td></tr> <tr><td>350</td><td>450</td><td>0702 0051</td><td>750</td><td>0702 1051</td></tr> <tr><td>500</td><td>650</td><td>0702 0071</td><td>1100</td><td>0702 1071</td></tr> <tr><td>700</td><td>900</td><td>0702 0091</td><td>1550</td><td>0702 1091</td></tr> <tr><td>900</td><td>1200</td><td>0702 0111</td><td>2000</td><td>0702 1111</td></tr> <tr><td>1100</td><td>1450</td><td>0702 0131</td><td>2400</td><td>0702 1131</td></tr> <tr><td>1300</td><td>1700</td><td>0702 0151</td><td>2850</td><td>0702 1151</td></tr> </tbody> </table> <p>* See last page</p>	Imm. length mm approx.	Power Watt approx. (1.6 W/cm <sup>2</sup> )	Order No.	Power Watt approx. (2.7 W/cm <sup>2</sup> )	Order No.	150	200	0702 0011	350	0702 1011	250	350	0702 0031	550	0702 1031	350	450	0702 0051	750	0702 1051	500	650	0702 0071	1100	0702 1071	700	900	0702 0091	1550	0702 1091	900	1200	0702 0111	2000	0702 1111	1100	1450	0702 0131	2400	0702 1131	1300	1700	0702 0151	2850	0702 1151
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<p>7.3 Ceramic heating element Ø 37</p> 	<p>Application For heating: unit load high-viscosity oil, hydraulic fluid, 1.7 W/cm<sup>2</sup> fluids of similar viscosity to water. 2.8 W/cm<sup>2</sup></p> <p>Design Ceramic element support Ø 37, serrated, M5 terminal studs, IP 00 protection system, <b>horizontal</b> installation.</p> <p>Also available in Ø 31 mm.</p>	<table border="1"> <thead> <tr> <th>Imm. length mm approx.</th> <th>Power Watt approx. (1.7 W/cm<sup>2</sup>)</th> <th>Order No.</th> <th>Power Watt approx. (2.8 W/cm<sup>2</sup>)</th> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>200</td><td>400</td><td>0703 0011</td><td>650</td><td>0703 1011</td></tr> <tr><td>400</td><td>800</td><td>0703 0031</td><td>1300</td><td>0703 1031</td></tr> <tr><td>600</td><td>1200</td><td>0703 0051</td><td>2000</td><td>0703 1051</td></tr> <tr><td>800</td><td>1600</td><td>0703 0071</td><td>2650</td><td>0703 1071</td></tr> <tr><td>1000</td><td>2000</td><td>0703 0091</td><td>3300</td><td>0703 1091</td></tr> <tr><td>1200</td><td>2400</td><td>0703 0111</td><td>4000</td><td>0703 1111</td></tr> <tr><td>1600</td><td>3200</td><td>0703 0131</td><td>5300</td><td>0703 1131</td></tr> <tr><td>2000</td><td>4000</td><td>0703 0151</td><td>6600</td><td>0703 1151</td></tr> </tbody> </table> <p>* See last page</p>	Imm. length mm approx.	Power Watt approx. (1.7 W/cm <sup>2</sup> )	Order No.	Power Watt approx. (2.8 W/cm <sup>2</sup> )	Order No.	200	400	0703 0011	650	0703 1011	400	800	0703 0031	1300	0703 1031	600	1200	0703 0051	2000	0703 1051	800	1600	0703 0071	2650	0703 1071	1000	2000	0703 0091	3300	0703 1091	1200	2400	0703 0111	4000	0703 1111	1600	3200	0703 0131	5300	0703 1131	2000	4000	0703 0151	6600	0703 1151
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<p>7.4 Ceramic heating element Ø 47</p> 	<p>Application For heating: unit load high-viscosity oil, hydraulic fluid, 1.7 W/cm<sup>2</sup> fluids of similar viscosity to water. 2.8 W/cm<sup>2</sup></p> <p>Design Ceramic element support Ø 47, serrated, M5 terminal studs, IP 00 protection system, <b>horizontal</b> installation.</p> <p>Also available in Ø 40, 45, 57 and 70 mm.</p>	<table border="1"> <thead> <tr> <th>Imm. length mm approx.</th> <th>Power Watt approx. (1.7 W/cm<sup>2</sup>)</th> <th>Order No.</th> <th>Power Watt approx. (2.8 W/cm<sup>2</sup>)</th> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>200</td><td>500</td><td>0704 0011</td><td>800</td><td>0704 1011</td></tr> <tr><td>400</td><td>1000</td><td>0704 0031</td><td>1650</td><td>0704 1031</td></tr> <tr><td>600</td><td>1450</td><td>0704 0051</td><td>2450</td><td>0704 1051</td></tr> <tr><td>800</td><td>1950</td><td>0704 0071</td><td>3250</td><td>0704 1071</td></tr> <tr><td>1000</td><td>2450</td><td>0704 0091</td><td>4100</td><td>0704 1091</td></tr> <tr><td>1200</td><td>2950</td><td>0704 0111</td><td>4900</td><td>0704 1111</td></tr> <tr><td>1600</td><td>3900</td><td>0704 0131</td><td>6550</td><td>0704 1131</td></tr> <tr><td>2000</td><td>4900</td><td>0704 0151</td><td>8150</td><td>0704 1151</td></tr> </tbody> </table> <p>* See last page</p>	Imm. length mm approx.	Power Watt approx. (1.7 W/cm <sup>2</sup> )	Order No.	Power Watt approx. (2.8 W/cm <sup>2</sup> )	Order No.	200	500	0704 0011	800	0704 1011	400	1000	0704 0031	1650	0704 1031	600	1450	0704 0051	2450	0704 1051	800	1950	0704 0071	3250	0704 1071	1000	2450	0704 0091	4100	0704 1091	1200	2950	0704 0111	4900	0704 1111	1600	3900	0704 0131	6550	0704 1131	2000	4900	0704 0151	8150	0704 1151
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<p>7.5 Ceramic heating element Ø 37</p> 	<p>Application For heating: unit load high-viscosity oil, hydraulic fluid, 1.7 W/cm<sup>2</sup> fluids of similar viscosity to water. 2.8 W/cm<sup>2</sup></p> <p>Design Ceramic element support Ø 37 mm, with helical groove, M5 terminal studs, IP 00 protection system, <b>vertical</b> and horizontal installation.</p>	<table border="1"> <thead> <tr> <th>Imm. length mm approx.</th> <th>Power Watt approx. (1.7 W/cm<sup>2</sup>)</th> <th>Order No.</th> <th>Power Watt approx. (2.8 W/cm<sup>2</sup>)</th> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>200</td><td>400</td><td>0705 0011</td><td>650</td><td>0705 1011</td></tr> <tr><td>400</td><td>800</td><td>0705 0031</td><td>1300</td><td>0705 1031</td></tr> <tr><td>600</td><td>1200</td><td>0705 0051</td><td>2000</td><td>0705 1051</td></tr> <tr><td>800</td><td>1600</td><td>0705 0071</td><td>2650</td><td>0705 1071</td></tr> <tr><td>1000</td><td>2000</td><td>0705 0091</td><td>3300</td><td>0705 1091</td></tr> <tr><td>1200</td><td>2400</td><td>0705 0111</td><td>4000</td><td>0705 1111</td></tr> <tr><td>1600</td><td>3200</td><td>0705 0131</td><td>5300</td><td>0705 1131</td></tr> <tr><td>2000</td><td>4000</td><td>0705 0151</td><td>6600</td><td>0705 1151</td></tr> </tbody> </table> <p>* See last page</p>	Imm. length mm approx.	Power Watt approx. (1.7 W/cm <sup>2</sup> )	Order No.	Power Watt approx. (2.8 W/cm <sup>2</sup> )	Order No.	200	400	0705 0011	650	0705 1011	400	800	0705 0031	1300	0705 1031	600	1200	0705 0051	2000	0705 1051	800	1600	0705 0071	2650	0705 1071	1000	2000	0705 0091	3300	0705 1091	1200	2400	0705 0111	4000	0705 1111	1600	3200	0705 0131	5300	0705 1131	2000	4000	0705 0151	6600	0705 1151
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<p>7.6 Ceramic heating element Ø 47</p> 	<p>Application For heating: unit load high-viscosity oil, hydraulic fluid, 1.7 W/cm<sup>2</sup> fluids of similar viscosity to water. 2.8 W/cm<sup>2</sup></p> <p>Design Ceramic element support Ø 47, with helical groove, M5 terminal studs, IP 00 protection system, <b>vertical</b> and horizontal installation.</p>	<table border="1"> <thead> <tr> <th>Imm. length mm approx.</th> <th>Power Watt approx. (1.7 W/cm<sup>2</sup>)</th> <th>Order No.</th> <th>Power Watt approx. (2.8 W/cm<sup>2</sup>)</th> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>200</td><td>500</td><td>0706 0011</td><td>800</td><td>0706 1011</td></tr> <tr><td>400</td><td>1000</td><td>0706 0031</td><td>1650</td><td>0706 1031</td></tr> <tr><td>600</td><td>1450</td><td>0706 0051</td><td>2450</td><td>0706 1051</td></tr> <tr><td>800</td><td>1950</td><td>0706 0071</td><td>3250</td><td>0706 1071</td></tr> <tr><td>1000</td><td>2450</td><td>0706 0091</td><td>4100</td><td>0706 1091</td></tr> <tr><td>1200</td><td>2950</td><td>0706 0111</td><td>4900</td><td>0706 1111</td></tr> <tr><td>1600</td><td>3900</td><td>0706 0131</td><td>6550</td><td>0706 1131</td></tr> <tr><td>2000</td><td>4900</td><td>0706 0151</td><td>8150</td><td>0706 1151</td></tr> </tbody> </table> <p>* See last page</p>	Imm. length mm approx.	Power Watt approx. (1.7 W/cm <sup>2</sup> )	Order No.	Power Watt approx. (2.8 W/cm <sup>2</sup> )	Order No.	200	500	0706 0011	800	0706 1011	400	1000	0706 0031	1650	0706 1031	600	1450	0706 0051	2450	0706 1051	800	1950	0706 0071	3250	0706 1071	1000	2450	0706 0091	4100	0706 1091	1200	2950	0706 0111	4900	0706 1111	1600	3900	0706 0131	6550	0706 1131	2000	4900	0706 0151	8150	0706 1151
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<p>8.1 Heating plate</p> 	<p>Application For heating containers with fluids, tools, etc.</p> <p>Design 5 mm steel plate with tube elements, 230 V, varnished sheet steel casing and thermostat 50 to 300°C.</p> <p>For other sizes, please ask for information.</p> <p>Also available with electronic temperature control and digital temperature display.</p>	<table border="1"> <thead> <tr> <th>Plate length mm</th> <th>Plate width mm</th> <th>Power Watt approx.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>250</td><td>250</td><td>600</td><td>0801 0011</td></tr> <tr><td>400</td><td>250</td><td>1000</td><td>0801 0021</td></tr> <tr><td>500</td><td>300</td><td>1500</td><td>0801 0031</td></tr> <tr><td>600</td><td>360</td><td>2400</td><td>0801 0041</td></tr> </tbody> </table>	Plate length mm	Plate width mm	Power Watt approx.	Order No.	250	250	600	0801 0011	400	250	1000	0801 0021	500	300	1500	0801 0031	600	360	2400	0801 0041																									
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# Product range overview










<p>8.3 High-power cartridge heater</p> 	<p>Application For heating tools, shapes and machine parts.</p> <p>Design Heating element, embedded in highly-compressed insulation, nickel wire, insulated, 250 mm length, stainless steel jacket tube. Available diameters 6.5, 8, 10, 12.5, 16 and 20 mm; please ask for information.</p>	<table border="1"> <thead> <tr> <th>Ø mm</th> <th>Length mm</th> <th>Power Watt</th> <th>Order No.</th> <th>Power Watt</th> <th>Order No.</th> </tr> </thead> <tbody> <tr><td>12.5</td><td>40</td><td>160</td><td>0803 0611</td><td>315</td><td>0803 0711</td></tr> <tr><td>12.5</td><td>50</td><td>160</td><td>0803 0621</td><td>315</td><td>0803 0721</td></tr> <tr><td>12.5</td><td>60</td><td>200</td><td>0803 0631</td><td>400</td><td>0803 0731</td></tr> <tr><td>12.5</td><td>80</td><td>250</td><td>0803 0641</td><td>500</td><td>0803 0741</td></tr> <tr><td>12.5</td><td>100</td><td>250</td><td>0803 0651</td><td>500</td><td>0803 0751</td></tr> <tr><td>12.5</td><td>130</td><td>400</td><td>0803 0661</td><td>630</td><td>0803 0761</td></tr> <tr><td>12.5</td><td>160</td><td>500</td><td>0803 0671</td><td>800</td><td>0803 0771</td></tr> <tr><td>12.5</td><td>200</td><td>630</td><td>0803 0681</td><td>900</td><td>0803 0781</td></tr> </tbody> </table>	Ø mm	Length mm	Power Watt	Order No.	Power Watt	Order No.	12.5	40	160	0803 0611	315	0803 0711	12.5	50	160	0803 0621	315	0803 0721	12.5	60	200	0803 0631	400	0803 0731	12.5	80	250	0803 0641	500	0803 0741	12.5	100	250	0803 0651	500	0803 0751	12.5	130	400	0803 0661	630	0803 0761	12.5	160	500	0803 0671	800	0803 0771	12.5	200	630	0803 0681	900	0803 0781																																																																																																																																																																																																																																										
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<p>8.4 Flat heating element</p> 	<p>Application Heating containers and tools to 200°C max.</p> <p>Design Heating element insulated with micanite plates, set in metal sheet, with 200 mm insulated nickel wires.</p> <p>For other sizes, please ask for information.</p>	<table border="1"> <thead> <tr> <th>Length mm approx.</th> <th>Power Watt approx.</th> <th>Order No.</th> <th>Power Watt approx.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr> <td colspan="2">Width 20 mm approx.</td> <td colspan="3">Width 30 mm approx.</td> </tr> <tr> <td>100</td> <td>70</td> <td>0804 0011</td> <td>100</td> <td>0804 1011</td> </tr> <tr> <td>500</td> <td>500</td> <td>0804 0151</td> <td>600</td> <td>0804 1151</td> </tr> <tr> <td colspan="2">Width 40 mm approx.</td> <td colspan="3">Width 50 mm approx.</td> </tr> <tr> <td>100</td> <td>140</td> <td>0804 2011</td> <td>170</td> <td>0804 3011</td> </tr> <tr> <td>500</td> <td>800</td> <td>0804 2151</td> <td>1000</td> <td>0804 3151</td> </tr> <tr> <td colspan="2">Width 60 mm approx.</td> <td colspan="3">Width 70 mm approx.</td> </tr> <tr> <td>100</td> <td>200</td> <td>0804 4011</td> <td>250</td> <td>0804 5011</td> </tr> <tr> <td>500</td> <td>1250</td> <td>0804 4151</td> <td>1500</td> <td>0804 5151</td> </tr> </tbody> </table>	Length mm approx.	Power Watt approx.	Order No.	Power Watt approx.	Order No.	Width 20 mm approx.		Width 30 mm approx.			100	70	0804 0011	100	0804 1011	500	500	0804 0151	600	0804 1151	Width 40 mm approx.		Width 50 mm approx.			100	140	0804 2011	170	0804 3011	500	800	0804 2151	1000	0804 3151	Width 60 mm approx.		Width 70 mm approx.			100	200	0804 4011	250	0804 5011	500	1250	0804 4151	1500	0804 5151																																																																																																																																																																																																																																														
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<p>9.1 - 9.10 High-power tubular heating element Ø 8.4 Tube length up to 7.000 mm</p>  	<p>Application Heating water, oil and other fluids, fixed bodies by integrating, clamping or casting in, air and gases.</p> <p>Design Heating element with M4 stainless steel terminal studs, embedded in highly compressed insulating material, protected by bendable metal tube of copper, steel, various stainless steels and titanium.</p> <p>Mounting and integration with screw-nipples.</p> <table border="1"> <thead> <tr> <th>Thread</th> <th>Length mm</th> <th>Collar mm</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td colspan="4"><b>For 1 tube end</b></td> </tr> <tr><td>M 14 x 1,5</td><td>10</td><td>SW19</td><td>1.4305</td></tr> <tr><td>M 14 x 1,5</td><td>15</td><td>SW19</td><td>Br; St37, 1.4571</td></tr> <tr><td>M 14 x 1,5</td><td>25</td><td>SW19</td><td>Br; St37, 1.4571</td></tr> <tr><td>M 14 x 1,5</td><td>40</td><td>SW19</td><td>Br; St37, 1.4571</td></tr> <tr><td>G 1/2</td><td>10</td><td>SW30</td><td>Brass</td></tr> <tr><td>G 1/2</td><td>25</td><td>SW30</td><td>Brass</td></tr> <tr> <td colspan="4"><b>For 2 tube ends</b></td> </tr> <tr><td>M 26 x 1,5</td><td>11</td><td>Ø 32</td><td>Brass</td></tr> <tr><td>M 26 x 1,5</td><td>21</td><td>Ø 32</td><td>Brass</td></tr> <tr><td>M 26 x 2</td><td>15</td><td>Ø 32</td><td>1.4571</td></tr> <tr><td>M 26 x 2</td><td>23</td><td>Ø 32</td><td>1.4571</td></tr> <tr><td>G 3/4</td><td>25</td><td>SW32</td><td>Brass</td></tr> <tr><td>G 1</td><td>18</td><td>Ø 40</td><td>Brass</td></tr> <tr> <td colspan="4"><b>For 4 tube ends</b></td> </tr> <tr><td>G 1</td><td>18</td><td>Ø 40</td><td>Brass</td></tr> </tbody> </table> <p>Accessories Screw cap, IP 65 protection system, with IT-gasket</p> <table border="1"> <thead> <tr> <th>Thread</th> <th>Length mm</th> <th>Ø mm</th> <th>Material</th> </tr> </thead> <tbody> <tr><td>M 14 x 1,5</td><td>73</td><td>20</td><td>Brass</td></tr> <tr><td>M 26 x 1,5</td><td>50</td><td>29</td><td>Brass</td></tr> <tr><td>M 26 x 1,5</td><td>50</td><td>29</td><td>Plastic</td></tr> <tr><td>G 3/4</td><td>50</td><td>29</td><td>Brass</td></tr> <tr><td>G 3/4</td><td>50</td><td>29</td><td>Plastic</td></tr> <tr><td>G 1</td><td>60</td><td>36</td><td>Brass</td></tr> <tr><td>G 1</td><td>60</td><td>36</td><td>Plastic</td></tr> </tbody> </table> <p>* See last page</p>	Thread	Length mm	Collar mm	Material	<b>For 1 tube end</b>				M 14 x 1,5	10	SW19	1.4305	M 14 x 1,5	15	SW19	Br; St37, 1.4571	M 14 x 1,5	25	SW19	Br; St37, 1.4571	M 14 x 1,5	40	SW19	Br; St37, 1.4571	G 1/2	10	SW30	Brass	G 1/2	25	SW30	Brass	<b>For 2 tube ends</b>				M 26 x 1,5	11	Ø 32	Brass	M 26 x 1,5	21	Ø 32	Brass	M 26 x 2	15	Ø 32	1.4571	M 26 x 2	23	Ø 32	1.4571	G 3/4	25	SW32	Brass	G 1	18	Ø 40	Brass	<b>For 4 tube ends</b>				G 1	18	Ø 40	Brass	Thread	Length mm	Ø mm	Material	M 14 x 1,5	73	20	Brass	M 26 x 1,5	50	29	Brass	M 26 x 1,5	50	29	Plastic	G 3/4	50	29	Brass	G 3/4	50	29	Plastic	G 1	60	36	Brass	G 1	60	36	Plastic	<table border="1"> <thead> <tr> <th>Tube length mm</th> <th>Power Watt approx.</th> <th>Loading W/cm<sup>2</sup></th> <th>Order No. 230 V</th> </tr> </thead> <tbody> <tr> <td colspan="4"><b>Copper jacket</b></td> </tr> <tr><td>320</td><td>500</td><td>8,6</td><td>0910 0011</td></tr> <tr><td>370</td><td>665</td><td>9,3</td><td>0910 0031</td></tr> <tr><td>490</td><td>1000</td><td>9,7</td><td>0910 0041</td></tr> <tr><td>550</td><td>1000</td><td>8,4</td><td>0910 0061</td></tr> <tr><td>690</td><td>1500</td><td>9,6</td><td>0910 0071</td></tr> <tr><td>750</td><td>1000</td><td>5,8</td><td>0910 0081</td></tr> <tr><td>800</td><td>1000</td><td>5,4</td><td>0910 0091</td></tr> <tr><td>800</td><td>1500</td><td>8,1</td><td>0910 0101</td></tr> <tr><td>840</td><td>2000</td><td>10,2</td><td>0910 0111</td></tr> <tr><td>950</td><td>1000</td><td>4,5</td><td>0910 0121</td></tr> <tr><td>1000</td><td>1320</td><td>5,6</td><td>0910 0131</td></tr> <tr><td>1000</td><td>2000</td><td>8,4</td><td>0910 0141</td></tr> <tr><td>1070</td><td>2500</td><td>9,8</td><td>0910 0151</td></tr> <tr><td>1120</td><td>1500</td><td>5,6</td><td>0910 0161</td></tr> <tr><td>1270</td><td>3000</td><td>9,7</td><td>0910 0171</td></tr> <tr><td>1320</td><td>2000</td><td>6,2</td><td>0910 0181</td></tr> <tr><td>1320</td><td>2500</td><td>7,8</td><td>0910 0191</td></tr> <tr><td>1500</td><td>3000</td><td>8,1</td><td>0910 0201</td></tr> <tr><td>1540</td><td>4000</td><td>10,2</td><td>0910 0211</td></tr> <tr> <td colspan="4"><b>Steel jacket</b></td> </tr> <tr><td>510</td><td>250</td><td>2,3</td><td>0910 1011</td></tr> <tr><td>510</td><td>500</td><td>4,5</td><td>0910 1021</td></tr> <tr><td>690</td><td>1000</td><td>6,4</td><td>0910 1041</td></tr> <tr><td>800</td><td>700</td><td>3,8</td><td>0910 1051</td></tr> <tr><td>800</td><td>1000</td><td>5,4</td><td>0910 1061</td></tr> <tr><td>940</td><td>335</td><td>1,5</td><td>0910 1071</td></tr> <tr><td>940</td><td>500</td><td>2,3</td><td>0910 1081</td></tr> <tr><td>940</td><td>1000</td><td>4,5</td><td>0910 1091</td></tr> <tr><td>940</td><td>1500</td><td>6,8</td><td>0910 1101</td></tr> <tr><td>1240</td><td>2000</td><td>6,7</td><td>0910 1111</td></tr> <tr><td>1390</td><td>500</td><td>1,5</td><td>0910 1121</td></tr> <tr><td>1390</td><td>750</td><td>2,2</td><td>0910 1131</td></tr> <tr><td>1390</td><td>1000</td><td>2,9</td><td>0910 1141</td></tr> <tr><td>1390</td><td>1500</td><td>4,4</td><td>0910 1151</td></tr> <tr><td>1390</td><td>2000</td><td>5,9</td><td>0910 1161</td></tr> <tr><td>1500</td><td>1500</td><td>4,0</td><td>0910 1171</td></tr> <tr><td>1790</td><td>660</td><td>1,5</td><td>0910 1191</td></tr> <tr><td>1790</td><td>1000</td><td>2,3</td><td>0910 1201</td></tr> <tr><td>1790</td><td>2000</td><td>4,5</td><td>0910 1211</td></tr> <tr><td>2000</td><td>3000</td><td>6,7</td><td>0910 1221</td></tr> <tr><td>2000</td><td>1000</td><td>2,0</td><td>0910 1231</td></tr> <tr><td>2000</td><td>2000</td><td>4,0</td><td>0910 1241</td></tr> <tr><td>2000</td><td>3000</td><td>6,0</td><td>0910 1251</td></tr> <tr><td>2230</td><td>833</td><td>1,5</td><td>0910 1261</td></tr> <tr><td>2230</td><td>2500</td><td>4,5</td><td>0910 1271</td></tr> </tbody> </table>	Tube length mm	Power Watt approx.	Loading W/cm <sup>2</sup>	Order No. 230 V	<b>Copper jacket</b>				320	500	8,6	0910 0011	370	665	9,3	0910 0031	490	1000	9,7	0910 0041	550	1000	8,4	0910 0061	690	1500	9,6	0910 0071	750	1000	5,8	0910 0081	800	1000	5,4	0910 0091	800	1500	8,1	0910 0101	840	2000	10,2	0910 0111	950	1000	4,5	0910 0121	1000	1320	5,6	0910 0131	1000	2000	8,4	0910 0141	1070	2500	9,8	0910 0151	1120	1500	5,6	0910 0161	1270	3000	9,7	0910 0171	1320	2000	6,2	0910 0181	1320	2500	7,8	0910 0191	1500	3000	8,1	0910 0201	1540	4000	10,2	0910 0211	<b>Steel jacket</b>				510	250	2,3	0910 1011	510	500	4,5	0910 1021	690	1000	6,4	0910 1041	800	700	3,8	0910 1051	800	1000	5,4	0910 1061	940	335	1,5	0910 1071	940	500	2,3	0910 1081	940	1000	4,5	0910 1091	940	1500	6,8	0910 1101	1240	2000	6,7	0910 1111	1390	500	1,5	0910 1121	1390	750	2,2	0910 1131	1390	1000	2,9	0910 1141	1390	1500	4,4	0910 1151	1390	2000	5,9	0910 1161	1500	1500	4,0	0910 1171	1790	660	1,5	0910 1191	1790	1000	2,3	0910 1201	1790	2000	4,5	0910 1211	2000	3000	6,7	0910 1221	2000	1000	2,0	0910 1231	2000	2000	4,0	0910 1241	2000	3000	6,0	0910 1251	2230	833	1,5	0910 1261	2230	2500	4,5	0910 1271
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Desing Electrolux Macedonia  
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# Product range overview

<p>9.11 Finned-tube heating element Ø 28</p> 	<p><b>Application</b> Heating the air or gases in air heaters, shrink-film ovens, convection ovens, convection and defrosting heaters.</p> <p><b>Design</b> High-power tube element, jacket tube with Ø 28 mm fins, steel or stainless steel, M 14 x 1.5 x 15 mm steel or stainless steel nipple.</p> <p>For other dimensions, please ask for information.</p> <p>Finned-tube heating elements are available up to a straight length of 3.000 mm.</p>	<table border="1"> <thead> <tr> <th rowspan="2">Power Watt approx.</th> <th rowspan="2">Installed Length mm approx.</th> <th colspan="2">Bend with fins</th> <th colspan="2">Bend without fins</th> </tr> <tr> <th>Order No.</th> <th>Installed Length mm approx.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr> <td colspan="6"><b>Steel jacket (400°C max.)</b></td> </tr> <tr> <td>1000</td> <td>335</td> <td>0912 1041</td> <td>325</td> <td>0912 2041</td> <td></td> </tr> <tr> <td>1500</td> <td>460</td> <td>0912 1101</td> <td>450</td> <td>0912 2101</td> <td></td> </tr> <tr> <td>2000</td> <td>685</td> <td>0912 1161</td> <td>675</td> <td>0912 2161</td> <td></td> </tr> <tr> <td>3000</td> <td>885</td> <td>0912 1221</td> <td>875</td> <td>0912 2221</td> <td></td> </tr> <tr> <td colspan="6"><b>Stainless steel jacket (550°C max.)</b></td> </tr> <tr> <td>1000</td> <td>335</td> <td>0912 3041</td> <td>325</td> <td>0912 4041</td> <td></td> </tr> <tr> <td>1500</td> <td>460</td> <td>0912 3101</td> <td>450</td> <td>0912 4101</td> <td></td> </tr> <tr> <td>2000</td> <td>685</td> <td>0912 3111</td> <td>675</td> <td>0912 4111</td> <td></td> </tr> <tr> <td>3000</td> <td>885</td> <td>0912 3221</td> <td>875</td> <td>0912 4221</td> <td></td> </tr> </tbody> </table>	Power Watt approx.	Installed Length mm approx.	Bend with fins		Bend without fins		Order No.	Installed Length mm approx.	Order No.	<b>Steel jacket (400°C max.)</b>						1000	335	0912 1041	325	0912 2041		1500	460	0912 1101	450	0912 2101		2000	685	0912 1161	675	0912 2161		3000	885	0912 1221	875	0912 2221		<b>Stainless steel jacket (550°C max.)</b>						1000	335	0912 3041	325	0912 4041		1500	460	0912 3101	450	0912 4101		2000	685	0912 3111	675	0912 4111		3000	885	0912 3221	875	0912 4221																
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<p>10.1  -Screw-in heating element -Flanged heating element</p> <p><b>with temperature controller and temperature limiter</b></p> 	<p><b>Application</b> For heating non-flammable fluids, or heating fluids with a flash point <math>\geq 55^{\circ}\text{C}</math> in open containers, where the fluids are not to be heated above flash point, in rooms where there is a risk of explosion.</p> <p><b>Type</b> "Air-tight encapsulation" ignition protection system</p> <p><b>Design</b> Air-tight cast case, IP 54 protection system, G1½ and G2 steel nipple or DIN 2527 steel flange, PN 16, C shape, Ø 8.4 mm tube element with stainless steel jacket, temperature controller and temperature limiter, for temperature classifications T1 to T6.</p> <p>Screw-in elements with G2 thread are also available with G1½ thread.</p> <p>* See last page</p>	<table border="1"> <thead> <tr> <th>Thread</th> <th>Imm. length mm approx.</th> <th>Power kW approx.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr> <td colspan="4"><b>Oil heating 1.5 W/cm<sup>2</sup></b></td> </tr> <tr> <td>G1½</td> <td>510</td> <td>0.75</td> <td>1001 1021</td> </tr> <tr> <td>G1½</td> <td>640</td> <td>1.0</td> <td>1001 1031</td> </tr> <tr> <td>G2</td> <td>640</td> <td>1.5</td> <td>1001 1051</td> </tr> <tr> <td colspan="4"><b>Water heating 6 W/cm<sup>2</sup></b></td> </tr> <tr> <td>G1½</td> <td>250</td> <td>1.5</td> <td>1001 3011</td> </tr> <tr> <td>G1½</td> <td>415</td> <td>2.5</td> <td>1001 3031</td> </tr> <tr> <td>G2</td> <td>360</td> <td>3.0</td> <td>1001 3051</td> </tr> <tr> <td>G2</td> <td>640</td> <td>6.0</td> <td>1001 3071</td> </tr> <tr> <th>Flange DN</th> <th>Imm. length mm approx.</th> <th>Power kW approx.</th> <th>Order No.</th> </tr> <tr> <td colspan="4"><b>Oil heating 1.5 W/cm<sup>2</sup></b></td> </tr> <tr> <td>40</td> <td>620</td> <td>1.0</td> <td>1001 6031</td> </tr> <tr> <td>50</td> <td>620</td> <td>1.5</td> <td>1001 6061</td> </tr> <tr> <td>80</td> <td>930</td> <td>4.5</td> <td>1001 6141</td> </tr> <tr> <td>125</td> <td>930</td> <td>9.0</td> <td>1001 6191</td> </tr> <tr> <td colspan="4"><b>Water heating 6 W/cm<sup>2</sup></b></td> </tr> <tr> <td>40</td> <td>440</td> <td>3.0</td> <td>1001 8041</td> </tr> <tr> <td>60</td> <td>940</td> <td>9.0</td> <td>1001 8111</td> </tr> <tr> <td>80</td> <td>930</td> <td>18.0</td> <td>1001 8161</td> </tr> <tr> <td>125</td> <td>930</td> <td>36.0</td> <td>1001 8201</td> </tr> </tbody> </table>	Thread	Imm. length mm approx.	Power kW approx.	Order No.	<b>Oil heating 1.5 W/cm<sup>2</sup></b>				G1½	510	0.75	1001 1021	G1½	640	1.0	1001 1031	G2	640	1.5	1001 1051	<b>Water heating 6 W/cm<sup>2</sup></b>				G1½	250	1.5	1001 3011	G1½	415	2.5	1001 3031	G2	360	3.0	1001 3051	G2	640	6.0	1001 3071	Flange DN	Imm. length mm approx.	Power kW approx.	Order No.	<b>Oil heating 1.5 W/cm<sup>2</sup></b>				40	620	1.0	1001 6031	50	620	1.5	1001 6061	80	930	4.5	1001 6141	125	930	9.0	1001 6191	<b>Water heating 6 W/cm<sup>2</sup></b>				40	440	3.0	1001 8041	60	940	9.0	1001 8111	80	930	18.0	1001 8161	125	930	36.0	1001 8201
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<p>10.3  -Room heating element</p> 	<p><b>Application</b> Heating the air in workshops where there is a risk of explosion.</p> <p><b>Type</b> "Air-tight encapsulation" ignition protection system</p> <p><b>Design</b> Bundle of either 6 or 12 tube elements, protective cage, air-tight cast case, IP 54 protection system, temperature controller and safety temperature limiter.</p>	<table border="1"> <thead> <tr> <th>Temperature Class</th> <th>Power kW approx.</th> <th>Cage length mm</th> <th>Order No.</th> </tr> </thead> <tbody> <tr> <td>T3</td> <td>0.5</td> <td>900</td> <td>1003 0011</td> </tr> <tr> <td>T3</td> <td>0.75</td> <td>1225</td> <td>1003 0021</td> </tr> <tr> <td>T3</td> <td>1.0</td> <td>1450</td> <td>1003 0031</td> </tr> <tr> <td>T3</td> <td>1.5</td> <td>1225</td> <td>1003 0041</td> </tr> <tr> <td>T3</td> <td>2.0</td> <td>1450</td> <td>1003 0051</td> </tr> <tr> <td>T4</td> <td>0.5</td> <td>1450</td> <td>1003 1011</td> </tr> <tr> <td>T4</td> <td>0.75</td> <td>1225</td> <td>1003 1021</td> </tr> <tr> <td>T4</td> <td>1.0</td> <td>1450</td> <td>1003 1031</td> </tr> </tbody> </table>	Temperature Class	Power kW approx.	Cage length mm	Order No.	T3	0.5	900	1003 0011	T3	0.75	1225	1003 0021	T3	1.0	1450	1003 0031	T3	1.5	1225	1003 0041	T3	2.0	1450	1003 0051	T4	0.5	1450	1003 1011	T4	0.75	1225	1003 1021	T4	1.0	1450	1003 1031																																																
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<p>10.4  -Temperature controller</p> 	<p><b>Application</b> Automatic temperature control for room heaters where there is a risk of explosion.</p> <p><b>Type</b> "Sand encapsulation" and "heightened safety" ignition protection system</p> <p><b>Design</b> Sand encapsulation, IP 54 protection system case, temperature controller, 16 A switching power at 400 V max.</p>	<table border="1"> <thead> <tr> <th>Temperature controller Adjustment range °C</th> <th>Diff. gap K</th> <th>Order No.</th> </tr> </thead> <tbody> <tr> <td>- 20 ... + 60</td> <td>2.5</td> <td>1004 0011</td> </tr> <tr> <td>0 ... + 70</td> <td>2.5</td> <td>1004 0021</td> </tr> <tr> <td>0 ... + 100</td> <td>2.5</td> <td>1004 0031</td> </tr> <tr> <td>0 ... + 150</td> <td>3.8</td> <td>1004 0041</td> </tr> <tr> <td>0 ... + 190</td> <td>5.0</td> <td>1004 0051</td> </tr> <tr> <td>+ 40 ... + 290</td> <td>7.5</td> <td>1004 0061</td> </tr> </tbody> </table>	Temperature controller Adjustment range °C	Diff. gap K	Order No.	- 20 ... + 60	2.5	1004 0011	0 ... + 70	2.5	1004 0021	0 ... + 100	2.5	1004 0031	0 ... + 150	3.8	1004 0041	0 ... + 190	5.0	1004 0051	+ 40 ... + 290	7.5	1004 0061																																																															
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<p>10.5  -Finned-tube heating element</p> 	<p><b>Application</b> Heating the air in workshops where there is a risk of explosion.</p> <p><b>Type</b> "Air-tight encapsulation" ignition protection system</p> <p><b>Design</b> Ceramic element, 230 V, in finned tube, air-tight case, IP 54 protection system, with varnished protective cage. EX stainless steel finned-tube elements are also available.</p>	<table border="1"> <thead> <tr> <th>Temperature Class</th> <th>Power W approx.</th> <th>Overall Length mm</th> <th>Order No.</th> </tr> </thead> <tbody> <tr> <td>T2</td> <td>610</td> <td>740</td> <td>1005 0021</td> </tr> <tr> <td>T2</td> <td>1280</td> <td>1235</td> <td>1005 0041</td> </tr> <tr> <td>T2</td> <td>2000</td> <td>1840</td> <td>1005 0061</td> </tr> <tr> <td>T3</td> <td>360</td> <td>740</td> <td>1005 0091</td> </tr> <tr> <td>T3</td> <td>780</td> <td>1235</td> <td>1005 0111</td> </tr> <tr> <td>T3</td> <td>1145</td> <td>1840</td> <td>1005 0121</td> </tr> <tr> <td>T4</td> <td>200</td> <td>740</td> <td>1005 0131</td> </tr> <tr> <td>T4</td> <td>360</td> <td>1235</td> <td>1005 0141</td> </tr> <tr> <td>T4</td> <td>675</td> <td>1840</td> <td>1005 0161</td> </tr> </tbody> </table>	Temperature Class	Power W approx.	Overall Length mm	Order No.	T2	610	740	1005 0021	T2	1280	1235	1005 0041	T2	2000	1840	1005 0061	T3	360	740	1005 0091	T3	780	1235	1005 0111	T3	1145	1840	1005 0121	T4	200	740	1005 0131	T4	360	1235	1005 0141	T4	675	1840	1005 0161																																												
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# Product range overview

<p>12.1 Temperature controller Screw-in</p> <p>Can also be suspended.</p> 	<p>Application Maintaining fluids at constant temperature; flexible installation.</p> <p>Design Integrated thermostat, switching power 16 A, 400 V, 1 pin, G1½ sensor with jacket of brass, stainless steel or polypropylene, hood, IP 65 protection system.</p>	<table border="1"> <thead> <tr> <th>Temp. from °C</th> <th>Temp. to °C</th> <th>Imm. length mm</th> <th>Order No.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>Brass</td> <td>Stainless steel</td> </tr> <tr> <td>0</td> <td>120</td> <td>200</td> <td>1201 0061</td> <td>1201 1061</td> </tr> <tr> <td>0</td> <td>120</td> <td>300</td> <td>1201 0071</td> <td>1201 1071</td> </tr> <tr> <td>0</td> <td>120</td> <td>500</td> <td>1201 0081</td> <td>1201 1081</td> </tr> <tr> <td>0</td> <td>120</td> <td>1000</td> <td>1201 0091</td> <td>1201 1091</td> </tr> <tr> <td></td> <td></td> <td></td> <td colspan="2">Polypropylene</td> </tr> <tr> <td>0</td> <td>120</td> <td>200</td> <td>1201 2061</td> <td></td> </tr> <tr> <td>0</td> <td>120</td> <td>300</td> <td>1201 2071</td> <td></td> </tr> <tr> <td>0</td> <td>120</td> <td>500</td> <td>1201 2081</td> <td></td> </tr> <tr> <td>0</td> <td>120</td> <td>1000</td> <td>1201 2091</td> <td></td> </tr> </tbody> </table>	Temp. from °C	Temp. to °C	Imm. length mm	Order No.	Order No.				Brass	Stainless steel	0	120	200	1201 0061	1201 1061	0	120	300	1201 0071	1201 1071	0	120	500	1201 0081	1201 1081	0	120	1000	1201 0091	1201 1091				Polypropylene		0	120	200	1201 2061		0	120	300	1201 2071		0	120	500	1201 2081		0	120	1000	1201 2091	
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<p>13.1 Gas heater</p> 	<p>Application Helios gas heaters are used for heating non-explosive gases, for example air, water vapour, nitrogen etc., up to 700°C max., at up to 0.3 bar pressure. Heater fans (see paragraph 6.7.)</p> <p>Types: a) Flange plate for installing in a rectangular building duct or convection oven b) Air duct for flange-mounting onto a building fan or air duct c) Special shapes at customer request</p> <p>Additional types: d) Air funnel for flange-mounting onto pipes e) Insulating plug above or below the flange, for heat insulation at temperatures up to 200°C f) Cooling zone between the insulating plug and connection case, at temperatures over 200°C g) Connection case in IP 65 (IP 30 Standard)</p> <p>Design: Flange or air duct of galvanized steel or stainless steel. 8.4 mm diameter tube element of steel or stainless steel, mat.-no. 1.4541 or mat.-no. 1.4828, in versions with or without fins. Voltage, power, and switching sections at customer request. Regulation by temperature controller, limiter, PT 100 or thermocouples.</p> <p>To prepare the system, we need the following information:</p> <table border="0"> <tr> <td>type of gas heated :</td> <td>control type :</td> </tr> <tr> <td>gas volume :</td> <td>duct height :</td> </tr> <tr> <td>inlet temperature :</td> <td>duct width :</td> </tr> <tr> <td>outlet temperature :</td> <td>duct length (max.) :</td> </tr> <tr> <td>pressure :</td> <td>material :</td> </tr> <tr> <td>power :</td> <td>protection system :</td> </tr> <tr> <td>voltage :</td> <td>quantity :</td> </tr> <tr> <td>switching sections :</td> <td>special requests :</td> </tr> </table>	type of gas heated :	control type :	gas volume :	duct height :	inlet temperature :	duct width :	outlet temperature :	duct length (max.) :	pressure :	material :	power :	protection system :	voltage :	quantity :	switching sections :	special requests :																																								
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<p>14.1 Continuous-flow heater</p> 	<p>Application: a) demineralised water and ultrapure water for pharmaceuticals, not too aggressive acids, caustic solutions and other fluids that do not attack the stainless steels used by Helios GmbH b) Lubricating, heating, quenching, and hydraulic fluids, vegetable oils, water/glycol mixtures, emulsions, and other fluids that do not attack steel c) Air, nitrogen, and other non-explosive gases up to 150°C max. For special air and gas heaters, see paragraph 13.1</p> <p>Design: Helios continuous-flow heaters consist of 2 components: a) Flow pipe with counter flange, feed and discharge connections, draining, vent and support stand (2 support stands for horizontal installation position). At customer request, the flow pipe can be fitted with a mineral matter retainer. b) Flanged heating element as described in paragraph 4.2.</p> <p>HELIOS continuous-flow heaters are made according to the "AD 2000" information leaflets, without TÜV inspection.</p> <p>To prepare the system, we need the following information:</p> <table border="0"> <tr> <td>type of fluid heated :</td> <td>voltage :</td> </tr> <tr> <td>volume flow rate (m³/h) :</td> <td>control type :</td> </tr> <tr> <td>inlet temperature :</td> <td>installation position: horizontal/vertical :</td> </tr> <tr> <td>outlet temperature :</td> <td>insulation required: yes/no :</td> </tr> <tr> <td>pressure :</td> <td>material :</td> </tr> <tr> <td>power :</td> <td>quantity :</td> </tr> </table>	type of fluid heated :	voltage :	volume flow rate (m³/h) :	control type :	inlet temperature :	installation position: horizontal/vertical :	outlet temperature :	insulation required: yes/no :	pressure :	material :	power :	quantity :																																												
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volume flow rate (m³/h) :	control type :																																																								
inlet temperature :	installation position: horizontal/vertical :																																																								
outlet temperature :	insulation required: yes/no :																																																								
pressure :	material :																																																								
power :	quantity :																																																								
<p><b>Further product range</b></p> <p>Room temperature controller, IP 30 and IP 54 protection system Integrated temperature controller Integrated temperature limiter Air heater, with explosion protection Tank heaters for chemical fluids Gate seal heaters, with flooding protection Roller heaters</p>	<p><b>Consultation</b> We provide:</p> <p>Heat requirement calculation Heat loss calculation Heating element selection Heating element layout Material selection Suggestions for installation Suggestions for control systems Circuit diagrams Operating and maintenance instructions Factory test reports</p>	<p><b>Special adaptations</b></p> <p>* These heating elements are available in other lengths, power ratings, voltages, and materials.</p> <p>If in doubt, please ask your supplier for the maximum permissible unit load of the fluid concerned.</p>																																																							

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