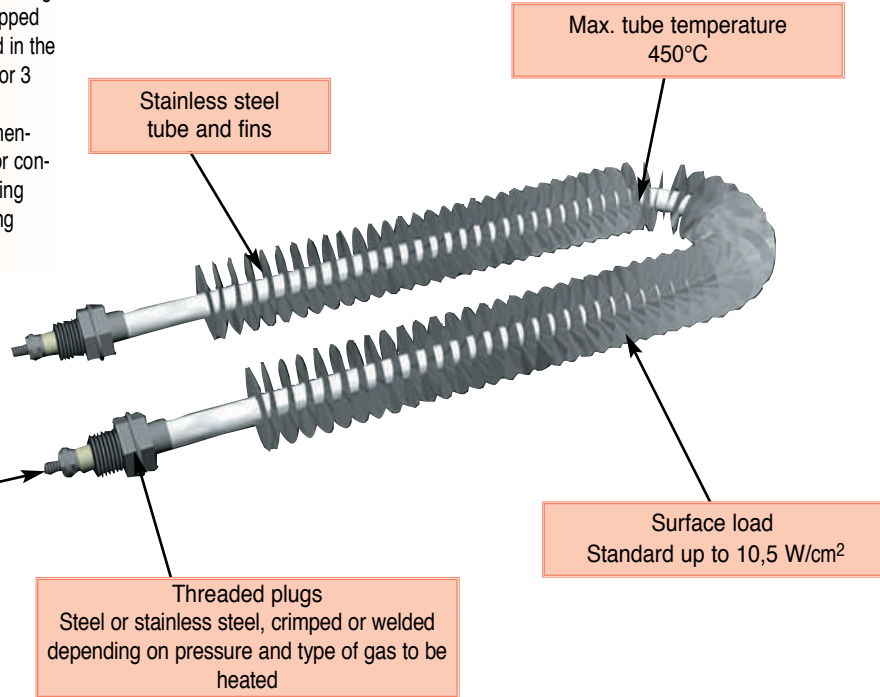
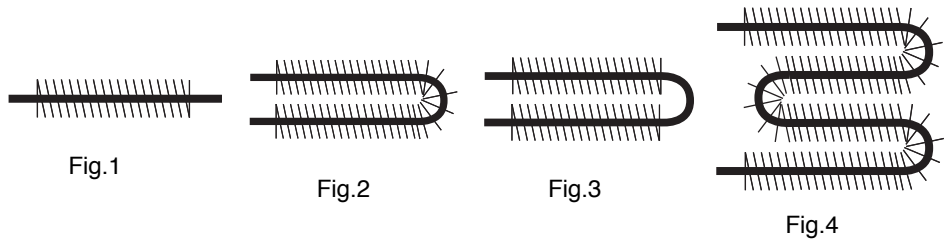


To heat air or gases by natural or forced convection, one possible solution is the finned element.
 Heat transfer from tubular heating elements for heating gaseous media is increased by a metal strip wrapped around the element. Through turbulence created in the medium, finned elements can be loaded up to 2 or 3 times more than unfinned elements.
 With lower surface temperatures and smaller dimensions, finned elements are particularly suitable for convection heating, air heaters, industrial ovens, drying cabinets, paint-drying installations, air-conditioning appliances, etc.



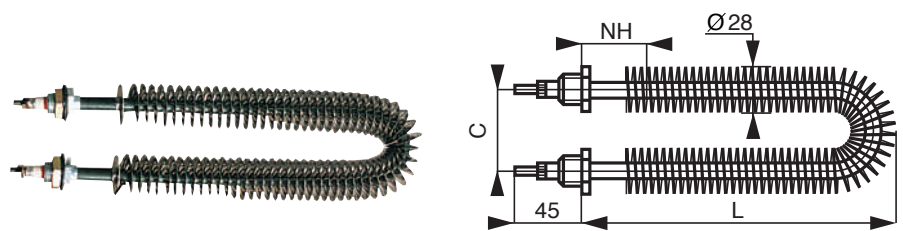
AVAILABLE SHAPES :

- Fig.1 – straight, completely finned
- Fig.2 - U-shaped, completely finned
- Fig.3 - U-form, bent area not finned
- Fig.4 - W-shaped, completely finned



STAINLESS STEEL FINNED ELEMENTS

Temperatures up to 300°C, min. air speed 5 m/s.
 Supply voltage: 230 V single phase.
 Supplied bent, with crimped M 14 x 1,5 x 12 mm threaded plugs.
 AISI 321/Din 1.4541 tube,
 AISI 304L/Din 1.4306 fins,
 crimped M14 x 150 threaded plugs in protected carbon steel (max. pressure : 100 mm WC) + sealing rings, M6 threaded terminals in protected carbon steel, TM seals (max. connection temperature : 200 °C).



NH = Non-heating length
 V = 230 V 1P

P/N.-	Power +5 -10% (W/cm ²)	Load (mm)	L (mm)	NH (mm)	Weight (kg)
6094-51	1000 W	9,5	280	70	0,45
6094-52	2000 W	8,5	530	70	0,65
6094-53	3000 W	8,5	780	90	0,9
6094-54	4000 W	9,5	920	90	1,1
6094-55	5000 W	9,0	1180	90	1,2
6094-56	6000 W	10,5	1230	90	1,3

c = 70

P/N.-	Power +5 -10% (W/cm ²)	Load (mm)	L (mm)	NH (mm)	Weight (kg)
6094-01	400 W	4	240	50	0,3
6094-02	1000 W	4	490	50	0,58
6094-03	1500 W	4	740	50	0,8
6094-04	2000 W	4	990	50	1,1
6094-05	2500 W	4	1240	50	1,3
6094-06	3000 W	4	1490	50	1,5
6094-10	650 W	6	240	50	0,3
6094-11	1400 W	6	490	50	0,58
6094-12	2250 W	6	740	50	0,8

c = 40

P/N.-	Power +5 -10% (W/cm ²)	Load (mm)	NH (mm)	L (mm)	Weight (kg)
6094-13	3000 W	6	990	50	1,1
6094-14	3750 W	6	1240	50	1,3
6094-15	4500 W	6	1490	50	1,5
6094-20	850 W	8	240	50	0,3
6094-21	2000 W	8	490	50	0,58
6094-22	3000 W	8	740	50	0,8
6094-23	4000 W	8	990	50	1,1
6094-24	5000 W	8	1240	50	1,3
6094-25	6000 W	8	1490	50	1,5

c = 40



To heat air or gases by natural or forced convection, one possible solution is the finned element. The required power, operating temperature, and flow speed of the gas to be heated will guide you in choosing your specific item.

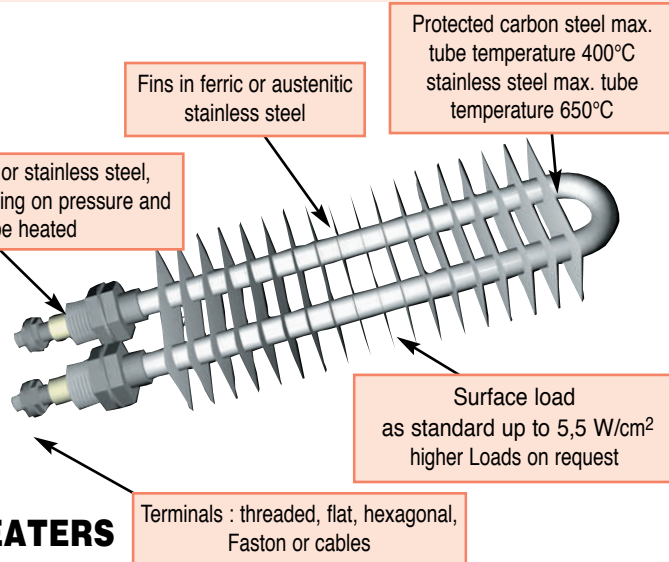
VULCANIC finned elements are based on sheathed heating elements to which fins are attached. These square-finned elements are available in U-shaped form.

Application :

Natural convection	
Ambient air temp. maxi	Load maxi.
80°C	5W/Cm ²
140°C	4W/Cm ²
200°C	2,7W/Cm ²

Forced convection for ambient air at 200°C Maxi

Low flow	Load maxi.
2m/s 3m/s	4W/Cm ² 5W/Cm ²



STAINLESS STEEL 25 x 50 FINNED STRIP HEATERS

AISI 321/Din 1.4541 tube, 25x50 fins in stainless steel Z8 C-17 (ferric), crimped M14 x 150 threaded plugs in protected steel (max. pressure : 100 mm WC + sealing rings, M6 threaded terminals in protected carbon steel, TM seals (max. temperature at terminals : 200 °C).

P/N.	Power +5 -10%	Voltage 1P	A (mm)	Load (W/cm ²)	Weight (kg)
6004-01	250 W	127 V	170	4	0,225
6004-00	250 W	230 V	170	4	0,225
6004-11	500 W	127 V	320	4	0,400
6004-10	500 W	230 V	320	4	0,400
6004-13	500 W	230 V	395	2,7	0,500
6004-90	500 W	230 V	226	5	0,290
6004-12	500 W	400 V	320	4	0,400
6004-73	670 W	230 V	470	2,7	0,560

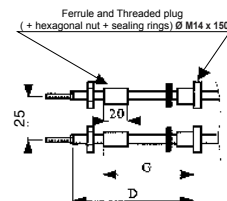
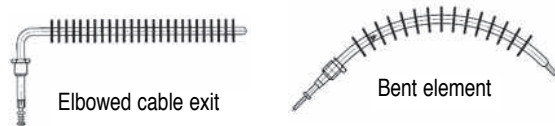
P/N.	Power +5 -10%	Voltage 1P	A (mm)	Load (W/cm ²)	Weight (kg)
6004-20	750 W	230 V	420	4	0,510
6004-91	750 W	230 V	326	5	0,405
6004-30	1000 W	230 V	520	4	0,610
6004-33	1000 W	230 V	760	2,7	0,850
6004-92	1000 W	230 V	426	5	0,515
6004-32	1000 W	400 V	520	4	0,610
6004-40	1500 W	230 V	770	4	0,900

P/N.	Power +5 -10%	Voltage 1P	A (mm)	Load (W/cm ²)	Weight (kg)
6004-43	1500 W	230 V	1045	2,7	1,300
6004-42	1500 W	400 V	770	4	0,900
6004-50	2000 W	230 V	1020	4	1,200
6004-93	2000 W	230 V	816	5	0,950
6004-52	2000 W	400 V	1020	4	1,200
6004-60	3000 W	230 V	1520	4	1,900
6004-62	3000 W	400 V	1520	4	1,900

OTHER MANUFACTURING OPTIONS WITH SHORT DELIVERY TIMES : power, voltage, length of element (Dimension A), tube material (AISI 316L/Din 1.4404), fin material (stainless steel AISI 304L/Din 1.4306), threaded plug material (stainless steel) and their means of fastening to the tube (brazed for 50 bar max. pressure), seals (HT "high temperature" or WP+ "waterproof") and terminals (cables, flat terminals, hexagonal terminals, Faston terminals or threaded stainless steel terminals).

Type 6114 : same as 6004 but with ferrules

OTHER POSSIBLE SHAPES

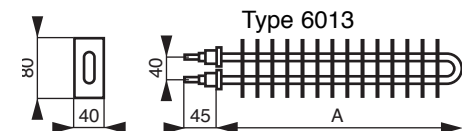


STAINLESS STEEL 40 X 80 FINNED STRIP HEATERS

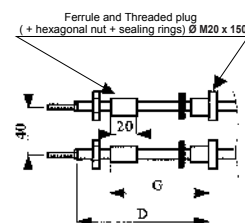
AISI 321/Din 1.4541 tube, 40x80 fins in AISI 430 stainless steel, crimped M20 x 150 threaded plugs in protected steel (max. pressure :100 mm WC) + sealing rings, M6 threaded terminals in protected carbon steel, TM seals (max. temperature at terminals : 200 °C).

P/N.	Power +5 -10%	Voltage 1P	A (mm)	Load (W/cm ²)	Weight (kg)
6013-00	1250 W	230 V	320	4,5	1,15
6013-03	1500 W	230 V	320	5	1,15
6013-20	2000 W	230 V	470	4,5	1,65

P/N.	Power +5 -10%	Voltage 1P	A (mm)	Load (W/cm ²)	Weight (kg)
6013-30	2500 W	230 V	620	4,5	2,40
6013-50	4000 W	230 V	920	4,5	3,20
6013-90	6000 W	230 V	1270	4,5	4,70



Type 6123 : same as 6013 but with ferrules

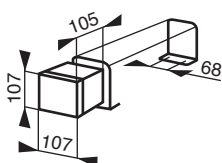


OTHER MANUFACTURING OPTIONS WITH SHORT DELIVERY TIMES : power, voltage, length of element (Dimension A), tube material (AISI 316L/Din 1.4404), fin material (stainless steel AISI 304L/Din 1.4306), threaded plug material (stainless steel) and their means of fastening to the tube (brazed for 50 bar max. pressure), seals (HT "high temperature" or WP+ "waterproof") and terminals (cables, flat terminals, hexagonal terminals, Faston terminals or threaded stainless steel terminals).

ACCESSORIES

For Finned strip heaters 25 x 50

- IP 55 IK5 polyamid connection box equipped with sealing gland ISO 20 - Max using temperature: 120 °C - **P/N. 6004-99** (Weight 0.4 kg).
- Pair of protected steel brackets for horizontal use **P/N. : 6004-81** . (Weight 0.22 kg).



For Finned strip heaters 40 x 80

- IP 55 IK5 polyamid connection box equipped with sealing gland ISO 20 BIS - Max using temperature: 120 °C **P/N 6013-99** (Weight 0.4 kg).
- Pair of protected steel brackets for horizontal use **P/N 6002-81** (Weight 0.22 kg).

