

## Coil heaters 750°C

Coil heaters have a high flexibility and can be freely adapted to, for example, machine nozzles and ducts by spiralizing straight electrical heating profiles and tubes. This heating technique is very common in semiconductor manufacturing and manufacturing of printed circuit boards, in the pharmaceutical industry, plastics industry, casting industry, packaging industry and manufacturing of laboratory equipment.

IHPs coil heaters have a casing of stainless steel or nickel and can deliver a high surface load up to 32W/cm<sup>2</sup>. The heat dissipation can be further increased by casting the coil heater into brass or copper. To give the coil heater extra protection and simplify mounting, we also manufacture housings with tension screws that also act as reflectors.

These electrical heaters can be bought in straight lengths for own adaption and installation.

For precision control of each separate coil heater we can integrate thermocouples type J and K optionally. In the table below we specify the electrical heating profiles and heating tubes that we normally use.



### Profile 190-RH13 □1,3 x 2,3mm

∅	Coiled length	Power at 230V
185mm	250mm	175W
235mm	300mm	200W
285mm	350mm	250W
335mm	400mm	300W
385mm	450mm	350W
485mm	550mm	450W

### Profile 190-RH17 □1,8 x 3,2mm

Total length	Heated length	Power at 230V
260mm	210mm	175W
310mm	260mm	200W
410mm	360mm	250W

460mm	410mm	290W
510mm	460mm	350W
610mm	560mm	400W
710mm	660mm	470W
910mm	860mm	620W
1010mm	960mm	700W

#### Tube 190-RH18 $\varnothing$ 1,8mm

$\varnothing$	Coiled length	Power at 230V
185mm	250mm	175W
235mm	300mm	200W
285mm	350mm	250W
335mm	400mm	300W
385mm	450mm	350W
485mm	550mm	450W

#### Profile 190-RH25 $\square$ 2,5 x 2,5mm

Total length	Heated length	Power at 230V
450mm	380mm	400W
600mm	530mm	600W
700mm	630mm	700W
800mm	730mm	850W
850mm	780mm	1100W
900mm	830mm	1200W

#### Profile 190-RH32 $\square$ 3,2 x 3,2mm

Total length	Heated length	Power at 230V
250mm	200mm	175W
315mm	250mm	200W
345mm	280mm	225W
400mm	335mm	250W
450mm	385mm	290W
525mm	460mm	350W
585mm	525mm	400W
665mm	600mm	470W
750mm	685mm	550W
825mm	760mm	620W
900mm	835mm	700W
1000mm	935mm	850W
1200mm	1135mm	950W
1400mm	1335mm	1100W
1600mm	1535mm	1200W
1800mm	1735mm	1300W
1950mm	1885mm	1400W

**Tube 190-RH33 ø3,4mm**

Total length	Heated length	Power at 230V
250mm	200mm	175W
315mm	250mm	200W
345mm	280mm	225W
400mm	335mm	250W
450mm	385mm	290W
525mm	460mm	350W
585mm	525mm	400W
665mm	600mm	470W
750mm	685mm	550W
825mm	760mm	620W
900mm	835mm	700W
1000mm	935mm	850W
1200mm	1135mm	950W
1400mm	1335mm	1100W
1600mm	1535mm	1200W
1800mm	1735mm	1300W
1950mm	1885mm	1400W

**Tube 190-RH38 ø3,9mm**

Total length	Heated length	Power at 230V
250mm	200mm	175W
315mm	250mm	200W
345mm	280mm	225W
400mm	335mm	250W
450mm	385mm	290W
525mm	460mm	350W
585mm	525mm	400W
665mm	600mm	470W
750mm	685mm	550W
825mm	760mm	620W
900mm	835mm	700W
1000mm	935mm	850W
1200mm	1135mm	950W
1400mm	1335mm	1100W
1600mm	1535mm	1200W
1800mm	1735mm	1300W
1950mm	1885mm	1400W

**Profile 190-RH42 □4,3 x 2,3mm**

Total length	Heated length	Power at 230V
250mm	200mm	175W
315mm	250mm	200W
345mm	280mm	225W

400mm	335mm	250W
450mm	385mm	290W
525mm	460mm	350W
585mm	525mm	400W
750mm	685mm	550W
665mm	600mm	470W
825mm	760mm	620W
900mm	835mm	700W
1000mm	935mm	850W
1200mm	1135mm	950W
1400mm	1335mm	1100W
1600mm	1535mm	1200W
1800mm	1735mm	1300W
1950mm	1885mm	1400W

### Profile 190-RH57 □5 x 7mm

Total length	Heated length	Power at 230V
400mm	335mm	400W
600mm	535mm	600W
800mm	735mm	800W
1000mm	935mm	1100W
1200mm	1135mm	1400W
1400mm	1335mm	1650W
1600mm	1435mm	1800W
1800mm	1735mm	2250W
2000mm	1935mm	2500W

### Technical specification

Surface load up to 32W/cm <sup>2</sup>
Working temperature up to 750°C
Casing in stainless steel or nickel
Usual supply 48V, 110V, 230V and 380V
Insulation material compromised magnesium oxide (MgO)
Power tolerance ±10%
Insulation ≥ 5MΩ at test voltage 500V DC
Leakage current ≤ 0,5mA at test voltage 253V AC
High voltage test 800V AC
Integrated thermocouple type J or type K (optional)
Supply cable 1000mm of PTFA (Nickel-Teflon) as standard