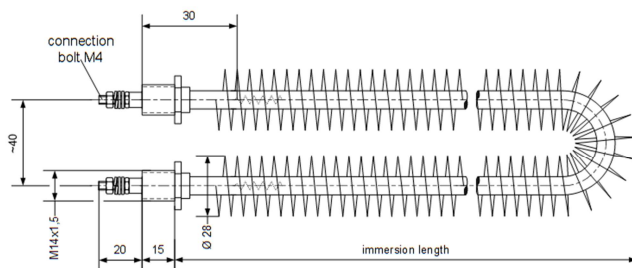


9.11 Finned-tube heating element Ø 28

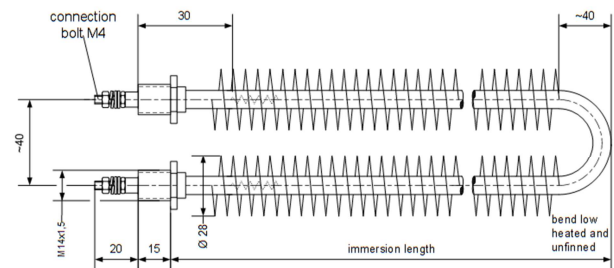


Application	Finned-tube heating elements Ø 28 mm for heating up air and anti-frost protection of: air heaters, shrink-film ovens, convection ovens, convection and defrosting heaters.
Design	High-power tubular heating element Ø 8.4 mm, jacket with fins Ø 28 mm heating element, fins and nipple M 14 x 1,5 made of steel (max. surface temperature 400°C), or heating element, fins and nipple M 14 x 1,5 made of stainless-steel (max. surface temperature 550°C)
Special design	Other dimensions (unbend up to 3000 mm), voltages and powers on request. For complete air heaters, see catalogue page 13.1.

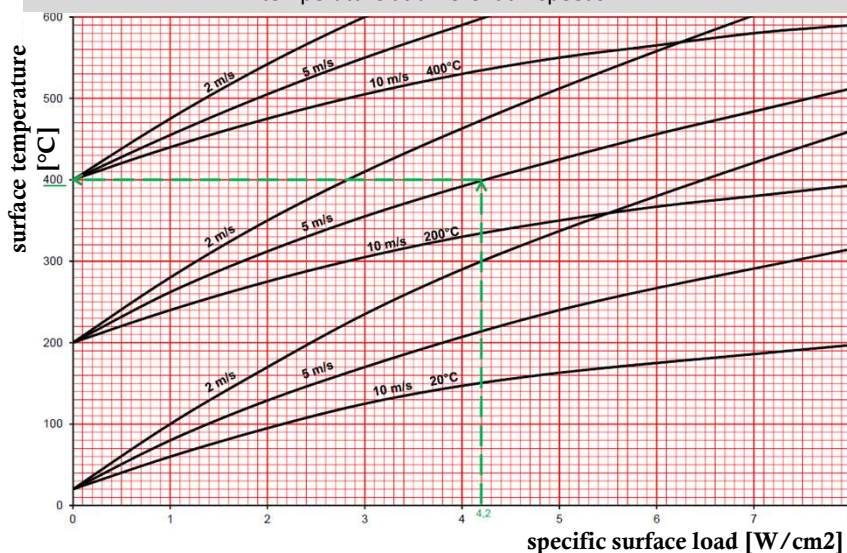
design A



design B



Design	Determination of the surface temperature of the tube jacket depending on the surface load and air temperature at different air speeds.
---------------	--



For example:
air speed 5 m/s,
air temperature 200 °C
surface temperature 400°C



9.12 Finned-tube heating element Ø 28

Design A (bend with fins)

Design B (bend without fins)

Power [Watt]	Surface load [W/cm ²]	Immersion length [mm]	Article-no.	Immersion length [mm]	Article-no.
Steel jacket (surface temperature max. 400°C)					
250	2.3	250	0912 1011		
500	4.5	250	0912 1021		
500	3.2	335	0912 1031		
1000	6.4	335	0912 1041		
700	3.8	390	0912 1051		
1000	5.4	390	0912 1061		
335	1.5	460	0912 1071	450	0912 2071
500	2.3	460	0912 1081	450	0912 2081
1000	4.5	460	0912 1091	450	0912 2091
1500	6.8	460	0912 1101	450	0912 2101
2000	6.7	610	0912 1111	600	0912 2111
500	1.5	685	0912 1121	675	0912 2121
750	2.2	685	0912 1131	675	0912 2131
1000	2.9	685	0912 1141	675	0912 2141
1500	4.4	685	0912 1151	675	0912 2151
2000	5.9	685	0912 1161	675	0912 2161
1500	4.0	740	0912 1171	730	0912 2171
660	1.5	885	0912 1191	875	0912 2191
1000	2.3	885	0912 1201	875	0912 2201
2000	4.5	885	0912 1211	875	0912 2211
3000	6.7	885	0912 1221	875	0912 2221
1000	2.0	990	0912 1231	980	0912 2231
2000	4.0	990	0912 1241	980	0912 2241
3000	6.0	990	0912 1251	980	0912 2251
833	1.5	1105	0912 1261	1095	0912 2261
2500	4.5	1105	0912 1271	1095	0912 2271

Stainless-steel jacket (surface temperature max. 550°C)

250	2.3	250	0912 3011		
500	4.5	250	0912 3021		
500	3.2	335	0912 3031		
1000	6.4	335	0912 3041		
700	3.8	390	0912 3051		
1000	5.4	390	0912 3061		
335	1.5	460	0912 3071	450	0912 4071
500	2.3	460	0912 3081	450	0912 4081
1000	4.5	460	0912 3091	450	0912 4091
1500	6.8	460	0912 3101	450	0912 4101
2000	6.7	610	0912 3111	600	0912 4111
500	1.5	685	0912 3121	675	0912 4121
750	2.2	685	0912 3131	675	0912 4131
1000	2.9	685	0912 3141	675	0912 4141
1500	4.4	685	0912 3151	675	0912 4151
2000	5.9	685	0912 3161	675	0912 4161
1500	4.0	740	0912 3171	730	0912 4171
660	1.5	885	0912 3191	875	0912 4191
1000	2.3	885	0912 3201	875	0912 4201
2000	4.5	885	0912 3211	875	0912 4211
3000	6.7	885	0912 3221	875	0912 4221
1000	2.0	990	0912 3231	980	0912 4231
2000	4.0	990	0912 3241	980	0912 4241
3000	6.0	990	0912 3251	980	0912 4251
833	1.5	1105	0912 3261	1095	0912 4261
2500	4.5	1105	0912 3271	1095	0912 4271