

Capillary tube mat G10

Technical data:

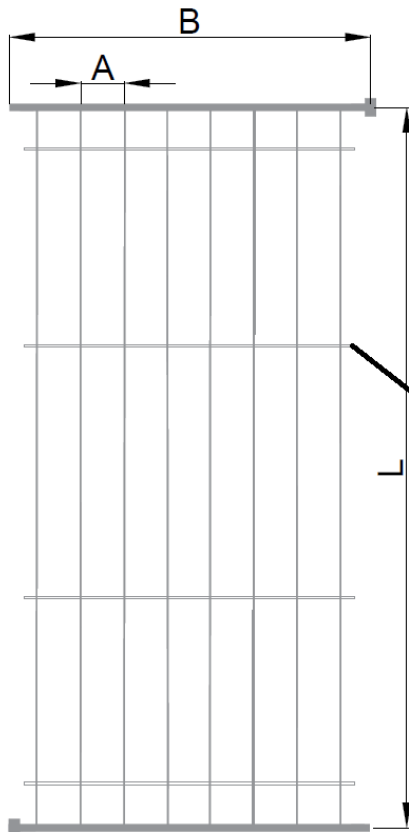
Material:	PP-R (Polypropylene Random Copolymer)
∅ Main pipe:	20 x 2 mm
∅ Capillary pipe:	3.4 x 0.55 mm
Distance between capillaries:	10 mm
Length:	600 – 6000 mm (with steps 10 mm)
Width:	150 – 1000 mm (with steps 20 mm)
Water capacity in capillaries:	0.37 l/m²
Weight of capillary mat with water:	740 g/m² (without main pipes)
Color:	green, light grey, neutral white
Maximum temperature in the system:	+ 70 ° C
Optimal input temperature for heating:	+ 28-32 ° C
Optimal input temperature for cooling:	+ 16-18 ° C
Optimal pressure in the system:	2-3 bar
Test pressure in factory:	20 bar
Cooling capacity:	74.4 W/m²

(with ΔT_{10K} and KNAUF Thermoboard Plus 10 mm)

(with ΔT_{10K} - the difference between the required room temperature and the mean water temperature in the system; ΔT_{2K} - the difference between input and output water temperature in the system)

Final finish material and the application of G10 mats:

- **under** KNAUF plasterboard GK 12.5mm ($\lambda = 0.21 \text{ W/mK}$) for ceiling, wall installation (KNAUF Thermoboard ($\lambda = 0.30 \text{ W/mK}$) or Thermoboard Plus ($\lambda = 0.45 \text{ W/mK}$) is recommended for higher heating/cooling capacity
- **inside** metal ceiling cassettes or panels



A- distance between capillaries - 10 mm;
B - main pipes PP-R d20 x 2 mm, PN10;
L - length of capillary mat.

connecting fastener for capillaries