

PRODUCT INFORMATION

ISSUE 1 – NOVEMBER 2020

Product Range: MHP

Modular Heating Panels enable quick and simple installation of underfloor heating into suspended floors in both new build and renovation projects.

The pre-configured insulated panels have all the systems components already integrated and are supplied in various sized panels, which are simply fitted and connected together on site. The span of the pre-installed joists in each room will determine which MHP panel size should be selected.

The span is defined as the free space from wall to wall that needs to remain uninterrupted by trimmers or other services.

Product Information

Modular Heating Panels offer a unique configuration of polybutylene pipe, topped with a reflective aluminium layer, which together increases heat output and evenly spreads heat across the panel.

The panels also feature integrated fixing points that are clearly marked on the underside, enabling the panel to be fixed from below.



- 1 Ceiling
- 2 Supporting joists
- 3 MHP panel including pipe, insulation and foil diffuser
- 4 Timber or chipboard floor deck

Product Code	Length x width (mm)	Pack Quantity
MHP33013	330mm x 1300mm	5
MHP38013	380mm x 1300mm	5
MHP33020	330mm x 2000mm	5
MHP49013	490mm x 1300mm	5
MHP49020	490mm x 2000mm	5

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Key Design Information

Typical Heat Output at 50°C Mean Water Temperature	76W/m2 (max 0.5 TOG)
Recommended Design Flow Temperature	50°C
Maximum Circuit Length	N/A
Maximum Coverage per Circuit	20m² approx. coverage required 70W/m² at 80% floor covering 50W/m² at 60% floor covering
Dimensions	30mm (depth)

Heat output						
Maximum floor area for flow and return 20m²						
Room at 20°C	Flow temp. (°C)	40	45	50	55	60
	Floor temp. (°C)	25.0	25.8	26.6	28.9	30.8
Heat output per panel	MHP 49020 (W)	63	75	86	120	147
	MHP 49013 (W)	42	50	58	80	99
	MHP 38020 (W)	49	58	67	93	114
	MHP 38013 (W)	33	39	45	62	77
	MHP 49020 (W)	42	50	58	80	98
	MHP 38013 (W)	29	34	39	53	66
	Approximate coverage required:					
For 70W/m² room = 80% coverage						
For 50W/m² room = 60% coverage						
Connect up to 3 panels in series						
Maximum coverage per circuit 20m²						

Arrangement

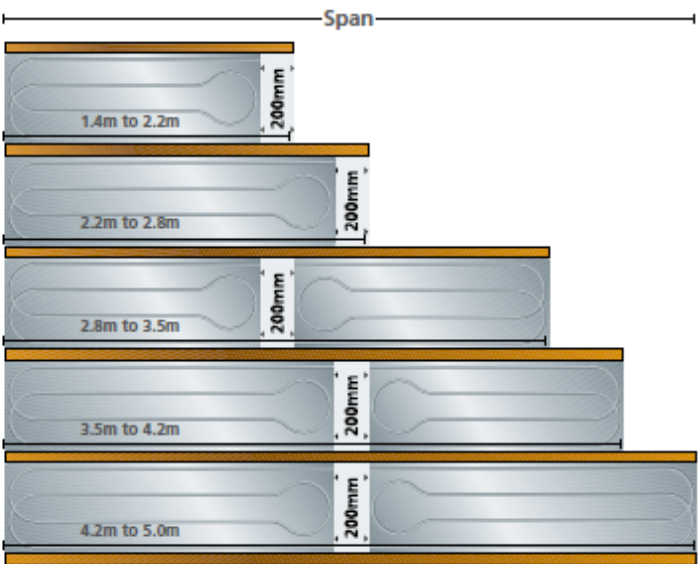
1 x 1.3m Panel

1 x 2.0m Panel

2 x 1.3m Panels

1 x 1.3m Panel + 1 x 2.0m Panel

2 x 2.0m Panels



Product Installation Information

- It is essential that a suitable layer of thermal insulation be installed directly beneath MHP underfloor heating systems so as to minimise any downward heat loss. It is recommended that the thermal resistance of this insulation layer should not be less than 0.75m2K/W as specified in BS EN1264-4. The insulation should fit tightly between the joists directly below the MHP panel.
- Polypipe 15mm ultra-flexible underfloor heating pipework is installed in circuits, and the flow & return tails from the MHP panels are simply connected using Polypipe's PolyPlumb fittings.
- The underfloor pipework is then connected to the manifold and then pressure tested to 6 bar. It is also highly recommended once the system is pressure tested to add an appropriate percentage of antifreeze/inhibitor.
- As soon as practical after the installation is completed, the structural floor should be installed to prevent any damage occurring.