

HOUSE PACKS

Polyplumb House Packs are suitable for the majority of properties. However, before specifying you should ensure that your project is compatible by calculating the heat losses and correct manifold position.

Heat losses

Polyplumb House Packs are suitable for the majority of new build domestic properties built to current Building Regulations, as the heat output from these systems is 70 w/m². Use the chart below to check the compatibility of the space to be heated:

Floor Area	Rooms with 1 air change / hour (typically bedrooms)		Rooms with 1.5 air changes / hour (typically living areas)		Rooms with 2 air changes / hour (typically bathrooms & kitchens)	
	One Outside Wall	Two Outside Walls	One Outside Wall	Two Outside Walls	One Outside Wall	Two Outside Walls
m ²	w/m ²	w/m ²	w/m ²	w/m ²	w/m ²	w/m ²
5	49	59	60	70	70	80
10	46	53	57	64	67	74
15	45	51	56	61	66	71
20	44	49	55	60	65	70
25	44	48	54	59	64	69
30	43	47	54	58	64	68

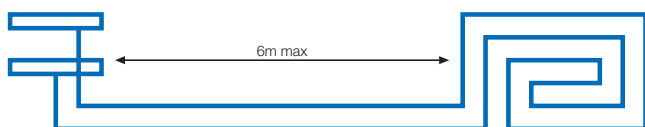
Rooms heated satisfactorily with UFH
 Rooms where additional heating may be required

The heat losses (above) are based on the following:

- Internal design temperature: 21 °C
- External design temperature: -3 °C
- Outside Walls: U = 0.35w/m² °C
- Window area: 20% of Floor area U=2.2w/m² °C
- Ceiling: U = 0.25w/m² °C

Manifold position

Each manifold must be located within 6m of the room entrance (12m total flow and return length). If you require more than one manifold to achieve this you will require one pack per manifold.



Manifold

Please remember:

- 1 pack is required per floor level or manifold
- 1 pack is required per floor type (e.g. solid, floating etc)
- The maximum floor area per pack is 100m²
- The maximum number of circuits per manifold is 12

House Packs Selector Guide

Using the quick selector guide below to determine how many circuits and control zones you will require for your floor area.

Before specifying Polyplumb House Packs you should ensure that your project is compatible by calculating the heat losses and correct manifold position.

		Choice 2 - Number of Circuits											
		Circuits	2	3	4	5	6	7	8	9	10	11	12
Choice 1 - Floor Area	Floor Area m ²												
	30	1	1,4	1,4									
	40	1	1,4	1,4	1,4,6								
	50		1,4	1,4	1,4,6	1,4,6							
	60			4	4,6	4,6,8	4,6,8						
	70				4,6	4,6	4,6,8	4,6,8	4,6,8	4,6,8			
	80					4,6	4,6,8	4,6,8	4,6,8	4,6,8	4,6,8		
	90						4,6,8	4,6,8	4,6,8	4,6,8	4,6,8	4,6,8	
	100							4,6,8	4,6,8	4,6,8	4,6,8	4,6,8	4,6,8

Choice 3 - Number of Control Zones

HOUSE PACK SELECTION

The **123** House Packs are suitable for solid, floating or suspended systems. Please note that all House Packs have a maximum output of 70w/m². Selection criteria for House Packs, once you have assessed compatibility:

1 Floor type and area

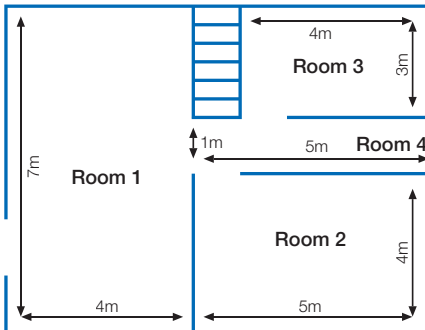
Select the floor type applicable for each area served by a single manifold from the following options:

- Solid floor (Code So)
- Floating floor (Code F)
- Suspended floor (Code D)

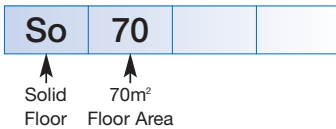
Select the total heated floor area served by the manifold. This area should not include the areas taken by internal walls or stairs.

Example:

Room 1	=	28m ²
Room 2	=	20m ²
Room 3	=	12m ²
Room 4	=	5m ²
Total Floor area	=	65m²



The order code for this floor area with a solid floor would be:

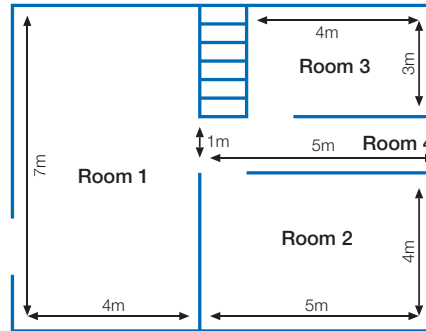


2 Select the number of circuits required

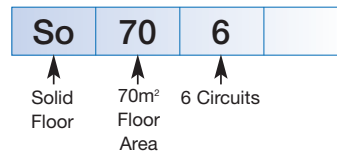
Each circuit cover 15m² so rooms greater than this will require a circuit for every 15m². All solid floor circuits at 200mm centres.

Example:

Room 1	=	28m ²	=	2 circuits
Room 2	=	20m ²	=	2 circuits
Room 3	=	12m ²	=	1 circuits
Room 4	=	5m ²	=	1 circuits
Total circuits required	=			6



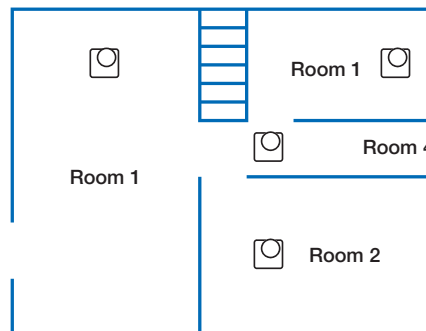
The order code for this floor area with a solid floor would be:



3 Temperature Control Zones

Usually one per room should be sufficient. However, some rooms may be subservient to adjacent rooms: e.g. WC controlled off hall thermostat, or dressing room controlled by bedroom.

Example: The total number of Control Zones is 4.



The order code for this floor area with a solid floor would be:

