

Domestic Heating Design Guide - Worksheet C – Water Content of System

Stage 1 - Job information

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Stage 2 - Heat generator

Heat generator	Manufacturer and model		Rated heat output (W)		Water content (litres)
	2x1		2x2		
	2x1		2x2		
Heat generator 1					
Heat generator 2					

Stage 3 - Hot water cylinder

Hot water cylinder	Manufacturer and model		Storage capacity (litres)		Water content of heat exchanger (litres)
	3x1		3x2		
	3x1		3x2		
Hot water cylinder 1					
Hot water cylinder 2					

Stage 4 - Pipework - see section 5.9.1.4

	Diameter (mm)		Length (m)		Water content per metre (litres)		=	Water content (litres)
	8		4x2	×	0.036		=	4x4
	10		4x2	×	0.055		=	4x4
	15		4x2	×	0.145		=	4x4
	22		4x2	×	0.32		=	4x4
	28		4x2	×	0.539		=	4x4
	Other	4x1		4x2	×	4x3	=	4x4
Other	4x1		4x2	×	4x3	=	4x4	
Other	4x1		4x2	×	4x3	=	4x4	

Stage 5 - Heat emitters

Heat emitter	Room		Location in room		Water content (litres)
	5x1		5x2		
	5x1		5x2		
Heat emitter 1					
Heat emitter 2					
Heat emitter 3					
Heat emitter 4					
Heat emitter 5					
Heat emitter 6					
Heat emitter 7					
Heat emitter 8					
Heat emitter 9					
Heat emitter 10					

Stage 6 - Expansion vessel - see section 5.9.1.4

Total system water content (litres) (sum of column B)	System static pressure at expansion vessel (bar)	Safety valve setting (bar)	Minimum required volume (litres)	Manufacturer listed		
				Part number	Pre-charge (bar)	Volume (litres)
				604	605	606
600	601	602	603			