



## Thermaflow TSL Range Technical Information

model	TSL9 / 210U	TSL9 / 250U	TSL9 / 330U	TSL12 / 210U	TSL12 / 250U	TSL12 / 330U
Height (mm)	1670	1920	1970	1670	1920	1970
Width (mm)	540	540	580	540	540	580
Depth (mm)	680	680	740	680	680	740
Capacity (L)	210	250	330	210	250	330
Max system capacity (L) @ 10°C	310	360	470	310	360	470
Lift weight (kg)	55	60	70	55	60	70
Total weight (kg)	65	72	80	65	72	80
Weight when full (kg)	265	310	400	265	310	400
Output heating <sup>1</sup> (kW)	10	11	13	13	14	16
DHW flow rate @ 40°C Δt (L/min)	20	20	20	20	20	20
DHW available for use (L)	250	300	390	260	310	400
<sup>1</sup> Energy output available with store fully energised and power on to boiler						
<b>APPLICATION</b>	<b>Flat 1/2 Bed 1 Bath / 1 Shower</b>	<b>House 1/2 Bed 1 Bath / 1 Shower</b>	<b>House 2/3 Bed 1 Bath / 1 Shower</b>	<b>Flat 2/3 Bed 1 Bath / 1 Shower</b>	<b>House 2/3 Bed 1 Bath / 1 Shower</b>	<b>House 3/4 Bed 1 Bath / 1 Shower</b>
Heat up 75° Δt (mins)	162.5	192.5	255	130	154	204
Re-heat 70% (mins)	113.75	134.75	178.5	91	108	143
Min water supply pressure (bar)	0.8 (80KPA)	0.8 (80KPA)	0.8 (80KPA)	0.8 (80KPA)	0.8 (80KPA)	0.8 (80KPA)
Max cold supply pressure	4 (400KPA)	4 (400KPA)	4 (400KPA)	4 (400KPA)	4 (400KPA)	4 (400KPA)
Max system pressure - Primary (bar)	3 (300KPA)	3 (300KPA)	3 (300KPA)	3 (300KPA)	3 (300KPA)	3 (300KPA)
Max heating system content (excluding store volume) - Primary (L)	110	130	150	110	130	150
Expansion vessel charge pressure Primary (bar)	1.5 (150KPA)	1.5 (150KPA)	1.5 (150KPA)	1.5 (150KPA)	1.5 (150KPA)	1.5 (150KPA)
Expansion vessel charge pressure - Secondary (bar)	1 (350KPA)	1 (350KPA)	1 (350KPA)	1 (350KPA)	1 (350KPA)	1 (350KPA)
Safety Valve - Preset (bar)	3 (300KPA)	3 (300KPA)	3 (300KPA)	3 (300KPA)	3 (300KPA)	3 (300KPA)
Connections	Compression	Compression	Compression	Compression	Compression	Compression
CH - Flow & Return (mm)	22	22	22	22	22	22
Domestic cold inlet (mm)	22	22	22	22	22	22
Domestic hot outlet (mm)	22	22	22	22	22	22
Safety release valve (mm)	15	15	15	15	15	15
<b>ELECTRICAL SUPPLY OFF-PEAK</b>						
Boiler power rating (kW)	9	9	9	12	12	12
Rated voltage - Single Phase~ (V)	~240	~240	~240	~240	~240	~240
Rated current (A)	40	40	40	52	52	52
<b>ELECTRICAL SUPPLY 24HR DOMESTIC</b>						
Total power consumption of controls (W)	95w	95w	95w	95w	95w	95w
Rated voltage - Single Phase~ (V)	~240	~240	~240	~240	~240	~240
Rated current (A)	3	3	3	3	3	3
<b>ENERGY EFFICIENCY RATING - 99.4%</b>						

**THERMAflow** is a trading name of **Thermal Innovations (UK) Ltd.**

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