Squire stainless indirect water heaters





- Storage capacities of from 300 to 3,000 litres
- Single and twin coil models
- Stainless steel construction
- High capacity stainless steel coils
- Up to 10.0 bar working pressure



Lochinvar Squire stainless indirect water heaters

Indirect water heaters, also known as calorifiers have been used to supply a wide range of hot water demands for many years. Installed in conjunction with heating boilers, such products provide an indirect method of generating hot water for a number of different building types.

Our squire stainless models are particularly suitable for large domestic or small commercial applications and provide a reliable supply of hot water when installed with a suitably sized heating boiler.

Squire stainless indirect water heaters are constructed from stainless steel, are available with storage capacities from 300 to 3,000 litres, and with single or twin coil options.



Squire stainless indirect water heaters

SIT single coil models

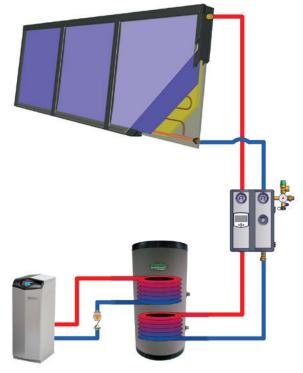
Built on the traditional design of Indirect Water Heaters, these products are typically installed as part of a heating boiler circuit. The high capacity stainless steel coils provide domestic hot water with maximum draw off capacity (first hour) ranging from 537 to 3552 litres, based upon a temperature rise of 50°C; and subject to having sufficient boiler output.

SDT twin coil models

SDT models include two coils and these models are often installed where renewable technologies such as heat pumps or solar thermal are used to provide pre-heated water via the lower coil. The upper coil is connected to the boiler/heating circuit. The use of a renewable technology in this way can reduce energy consumption and carbon emissions, and the traditional boiler can ensure that a reliable supply of domestic hot water is provided.



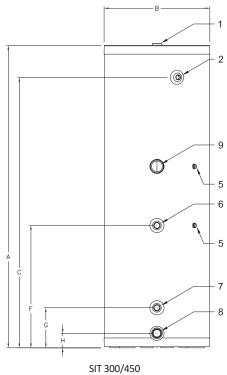
Lochinvar Herald boiler with Squire stainless SIT single coil Indirect water heater



Lochinvar Herald boiler with Squire stainless SDT twin coil indirect water heater

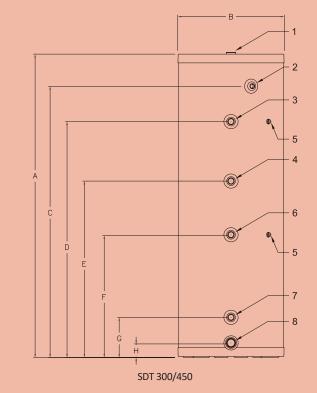
Dimensional drawings Squire stainless models SIT/SDT300 and 450

Model	Storage capacity	Hot outlet	А	В	с	D E		F	G	н
No.	Litres	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIT300	310	1765	1765	609	1568	n/a		711	235	83
SIT450	427	1734	1734	711	1530	n/a		806	235	83
SDT300	299	1765	1765	609	1568	1365	1022	711	235	83
SDT450	416	1734	1734	711	1530	1384	952	806	235	83



SIT 300/45	,
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Legend	Description	Model reference
1	1 1⁄2" BSP hot water outlet	All models
2	3/4" BSP P&T relief valve tapping	All models
3	1" BSP upper coil flow	SDT300, SDT450
4	1" BSP upper coil return	SDT300, SDT450
5	Temperature sensor	SDT300, SDT450
6	1" BSP lower coil flow	All models
7	1" BSP lower coil return	All models
8	11/2" BSP cold inlet / drain	All models
9	2 ¼" immersion boss	SIT300, SIT450





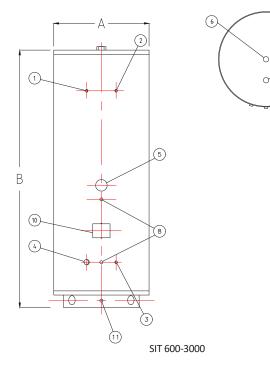
Dimensional drawings Squire stainless models SIT/SDT 600 to 3000

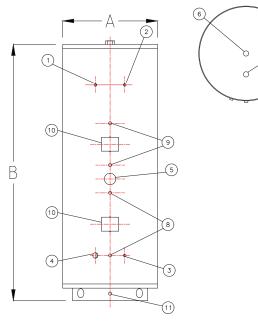
Model	Volume	Coil size	Dimension				
			А	В			
SIT600	575	54	740	1978			
SIT900	840	81	1080	1600			
SIT1100	1125	108	1080	2100			
SIT1400	1380	108	1180	2074			
SIT1900	1875	162	1380	2038			
SIT2500	2500	162	1380	2595			
SIT3000	3000	162	1380	3040			

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Model	Volume	Lower coil	Upper coil	Dimension			
		size kW	size kW	А	В		
SDT600	575	27	27	740	1978		
SDT900	840	27	40	1080	1595		
SDT1100	1125	54	40,5	1080	2100		
SDT1400	1380	54	54	1180	2120		
SDT1900	1875	81	67	1380	2050		
SDT2500	2500	81	81	1380	2600		
SDT3000	3000	81	67	1380	3040		

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SDT 600-3000

Legend	Unit	Size	Description - SIT models
1	BSP	1⁄2"	Sensor pocket
2	BSP	1⁄2"	Spare
3	BSP	1/2"	Sensor pocket
4	BSP	2"	Inlet
5	BSP	2¼"	Immersion heater boss
6	BSP	2"	Outlet
7	BSP	3⁄4''	T&P valve
8	BSP	1"	Coil connection
9	n/a	n/a	n/a
10		n/a	Dual thermostat
11	BSP	1"	Drain

Legend	Unit	Size	Description - SDT models
1	BSP	1⁄2"	Sensor pocket
2	BSP	1⁄2"	Spare
3	BSP	1/2"	Sensor pocket
4	BSP	2"	Inlet
5	BSP	2¼"	Immersion heater boss
6	BSP	2"	Outlet
7	BSP	3⁄4"	T&P valve
8	BSP	1"	Coil connection
9	BSP	1"	Coil connection
10		n/a	Dual thermostat
11	BSP	1"	Plugged drain

Technical specification Squire stainless twin coil models

Water heater model		SDT 600	SDT 900	SDT 1100	SDT 1400	SDT 1900	SDT 2500	SDT 3000	
Storage capacity	litres	575	840	1125	1380	1875	2500	3000	
Efficiency data - building regulations									
Heat loss	kWh/24hr	2,88	3,29	3,60	3,84	4,13	4,56	4,87	
Efficiency data - ErP and energy label									
Ecodesign energy label rating		n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Standing loss	W	120	137	150	160	172	190	203	
General Data									
Dimensions (height)	mm	1978	1595	2100	2120	2050	2600	3040	
Dimensions (width)	mm	740	1080	1080	1180	1380	1380	1380	
Hot outlet connection (inches)	BSP	2	2	2	2	2	2	2	
Cold feed connection (inches)	BSP	2	2	2	2	2	2	2	
Flow/return connection (inches)	BSP	1	1	1	1	1	1	1	
Weight (empty)	kg	114	162	195	241	291	370	427	
Weight (full)	kg	689	1002	1320	1621	2166	2870	3427	
Minimum working pressure	bar	0,5	0,5	0,5	0,5	0,5	0,5	0,5	
Maximum working pressure	bar	6	6	6	6	6	6	6	
Electrical requirements		230V /1Ph/ 50hz*							
Coil and performance data									
Coil output (80/60 °C) bottom/top	kW	27/27	27/40	54/40	54/54	81/67	81/81	81/67	
Coil surface area bottom/top	m²	1.0/1.0	1.0/1.5	2/1.5	2.0/2.0	3.0/2.5	3.0/3.0	3.0/2.5	
Flow rate (80/60 °C) bottom/top	l/sec	0.33/0.33	0.33/0.495	0.45/0.495	0.45/0.45	0.4/0.43	0.4/0.4	0.4/0.43	
Pressure loss bottom/top	kPa	12.2/12.2	12.2/14.3	30.0/14.3	30.0/30.0	30.0/30.0	30.0/30.0	30.0/30.0	
Maximum coil temperature	°C	100	100	100	100	100	100	100	
Maximum coil pressure	bar	6	6	6	6	6	6	6	
Max. draw off capacity (1 st hour) at 50°C temperature rise (top coil only)	l/hr	924	1360	1588	2033	2652	3393	3552	
Heat up time at 50°C temperature rise (top coil only)	min	50	37	59	53	49	65	104	
Max. draw off capacity (1 st hour) At 50°C temperature rise (both coils)	l/hr	1220	1985	1389	1824	4046	4786	4969	
Heat up time at 50°C temperature rise (both coils)	min	19	16	37	44	44	54	42	

*For use of 230v thermostats only

Energy label, product fiche and ErP data table are available at www.lochinvar.ltd.uk

Ancillary options

- Unvented system kits
- De-stratification pump sets
- High limit thermostat
- Immersion heater elements

For further information on the Squire stainless indirect water heater, including ICM & user instructions and our full warranty terms and conditions, please visit our website: www.lochinvar.ltd.uk

Technical specification Squire stainless single coil models

Water heater model	SIT 300	SIT 450	SIT 600	SIT 900	SIT 1100	SIT 1400	SIT 1900	SIT 2500	SIT 3000	
Storage capacity	litres	310	427	575	840	1125	1380	1875	2500	3000
Efficiency data - building regulations										
Heat loss	kWh/24hr	0.62	0.85	2.88	3.36	3.38	4.14	3.75	5.00	6.00
Efficiency data - ErP and energy label										
Ecodesign energy label rating		В	В	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Standing loss W		57.4	67.7	120	137	150	160	172	190	203
General data										
Dimensions (height)	mm	1765	1734	1978	1600	2100	2120	2050	2600	3040
Dimensions (width)	mm	609	711	740	1080	1080	1180	1380	1380	1380
Hot outlet connection (inches)	BSP	1½	1½	2	2	2	2	2	2	2
Cold feed connection (inches)	BSP	1½	1½	2	2	2	2	2	2	2
Flow/return connection (inches)	BSP	1	1	1	1	1	1	1½	1½	1½
Weight (empty)	kg	80	96.5	114	162	195	241	291	370	427
Weight (full)	kg	390	523.5	689	1002	1320	1621	2166	2870	3427
Minimum working pressure	bar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Maximum working pressure bar		10.0	10.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Electrical requirements		230V /1Ph/ 50hz*								

*For use of 230v thermostats only

Water heater model	SIT 300	SIT 450	SIT 600	SIT 900	SIT 1100	SIT 1400	SIT 1900	SIT 2500	SIT 3000	REGISTRA Environmental Assur ISO 140	
Coil and performance data											
Coil output (80/60 °C)	kW	34	56	54	81	108	108	162	162	162	REGISTRAI
Coil surface area	m ²	1.25	2.05	2	3	4	4	6	6	6	150 900
Flow rate (80/60 °C)	l/sec	0.41	0.68	0.45	0.40	0.35	0.35	1.45	1.45	1.45	Gal
Pressure loss	kPa	6.4	14	30	30	30	30	30	30	30	(iph
Maximum coil temperature	°C	110	110	110	110	110	110	110	110	110	Industrial Assoc
Maximum coil pressure	bar	10	10	6	6	6	6	6	6	6	
Max. draw off capacity (1 st hour) at 50°C temperature rise	l/hr	828	1289	1389	2065	2758	2962	4286	4786	5186	STATES OF STATES
Heat up time at 50°C temperature rise	min	32	27	37	36	36	45	40	54	65	PATRO

Energy label, product fiche and ErP data table are available at www.lochinvar.ltd.uk

Ancillary options

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- High limit thermostat
- Immersion heater elements



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