



Lochinvar[®]
HIGH EFFICIENCY BOILERS & WATER HEATERS

STAINLESS STEEL WATER HEATER PRODUCT CATALOGUE



STORAGE TYPE



CIRCULATING-TYPE



INDIRECT CALORIFIER TYPE



PACKAGED PLATE HEAT EXCHANGERS





Contents

Page	Section	Page	Section
4	About Lochinvar	24	Customer service & contacts
6	Our products	25	Area sales contacts
		26	Product & application training
		27	CIBSE accredited CPD seminars

6 STAINLESS STEEL WATER HEATERS

8	EcoSable
10	EcoShield
12	EcoForce wall hung
14	EcoKnight
16	TTW
18	SST
20	LOK plate heat exchangers
22	Squire

STAINLESS STEEL WATER HEATERS



EcoSable
p. 8



EcoShield
p. 10



EcoForce wall hung
p. 12



EcoKnight
p. 14



TTW
p. 16



SST
p. 18



LOK
p. 20



Squire
p. 22



Lochinvar World Headquarters, Lebanon, Tennessee, USA

Lochinvar Ltd

About Lochinvar Ltd

It is safe to say that for generations, Lochinvar products have been providing reliable, energy efficient heating and hot water needs for many businesses, organisations and people.

Innovation and development have been the keys to our success over the years. Not only are our current solutions energy-efficient, many have small footprint and multiple installation and control options.

With products designed and manufactured specifically for the needs of our UK and Ireland customers, we are regarded as a key provider of high efficiency heating and hot water solutions for use in commercial and industrial applications. Based at our Banbury, Oxfordshire facility we have a team of knowledgeable staff available to help customers with specific requirements. For details of contacts at Lochinvar Ltd please refer to page 24.

Customer service

Located in Banbury, Oxfordshire, we hold stock of most boiler and water heater products at our facility. Our reputation has been built upon our ability to respond quickly, whether the requirement is for products, spare parts or service.

Expertise

We have a team of knowledgeable and experienced staff, who are keen to assist with a wide range of enquiries. Our area sales managers are supported by office-based teams including customer service, internal sales, product management and technical support.

SELECT direct gas-fired Water heater sizing programme

It is often said that the sizing of water heating equipment is 'not an exact science' and that's a sentiment we would agree with to a certain extent. We have however combined our 40 years of experience in the UK water heater business along with information extracted from various Industry guides to produce our own water heater sizing programme – SELECT.

Originally launched in 2000, the programme is frequently updated and SELECT 2019 is now available to download or to use online

www.select.lochinvar.ltd.uk



Stainless steel water heaters

Introduction

There are many factors to consider when selecting a suitable method of generating hot water for commercial buildings; the quality of supply water is arguably one of the most important.

Water heaters with major components constructed from stainless steel are often preferred in areas where water quality is naturally soft and/or low in electrical conductivity. Whilst corrosion occurs within most water heating systems, the level of corrosion is often accelerated in naturally soft water areas.

Stainless steel has a more natural resistance to corrosion when compared to other materials, and water heaters with stainless steel construction are far less likely to require cathodic protection in the form of anodes.

We provide seven different water heater ranges with storage vessel, heat exchanger or both constructed from stainless steel.

Storage water heaters

Storage-type water heaters include gas-fired premix condensing burner, storage vessel and controls within an insulated jacket.

- EcoSable – providing hot water recovery rates from 620 to 800 litres per hour
*Combined heat exchanger/integral storage vessel constructed from stainless steel.
See pages 8 and 9*
- EcoShield – providing hot water recovery rates from 612 to 2436 litres per hour
*Heat exchanger construction is stainless steel, with integral storage vessel
constructed from enamelled steel.
See pages 10 and 11*



Circulating-type water heaters

Circulating-type water heaters are designed for use with separate storage vessels. They are particularly suitable for medium to large commercial and industrial projects and provide a range of flexible installation options. All models include stainless steel heat exchanger.

- EcoForce – designed for wall hung installation and available with hot water recovery rates from 1312 to 2961 litres per hour.
See pages 12 and 13
- EcoKnight – a range of floor standing water heaters with hot water recovery rates from 709 to 3819 litres per hour.
See pages 14 and 15
- TTW – two models, both floor standing and with hot water recovery rates from 7188 to 9912 litres per hour.
See pages 16 and 17

Note- all hot water recovery rates are based upon a 50°C temperature rise.

Direct storage vessels

Specifically designed for use with our circulating-type water heaters.

- SST – four models with stainless steel storage vessel construction, providing storage capacities from 300 to 1000 litres.

See pages 18 and 19



Indirect water heaters

Lochinvar is a company that is best known for its range of direct gas-fired water heaters but we also provide a range of indirect water heating solutions.

In addition to storage-type Indirect water heaters (also known as calorifiers) we also have a range of packaged plate heat exchangers; both of these options require a separate, primary heat source, which is usually a suitably sized heating boiler installation.

- LOK packaged plate heat exchanger – plates are constructed from stainless steel and the range can provide hot water outputs from 864 to 9504 litres per hour.

They can also be installed with SST direct storage vessels to cater for heavy peak hot water demand.

See pages 20 and 21

- Squire stainless – a range of calorifier-type water heaters with storage capacities ranging from 300 to 3000 litres.

See pages 22 and 23



EcoSable stainless steel storage-type gas-fired water heaters

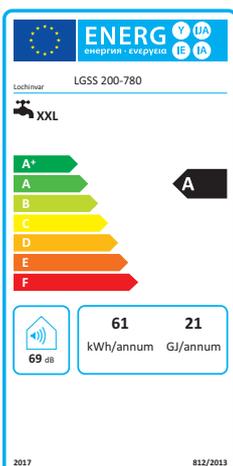


Features

- Recovery rates from 600 to 787 litres/hour
- Stainless steel storage vessel
- Efficiencies of up to 92%
- Up to 8 bar working pressure
- Small footprint
- 5-year storage vessel warranty

Ancillary items - optional

- Unvented system kits
- Condensate neutralisation kits
- Range of flue options



Technical specification

Water heater model		LGSS200-600GCE	LGSS200-780GCE
Nominal input (net)	kW	34.0	44.0
Nominal input (gross)	kW	37.8	48.9
Gas flow rate (natural gas)	m ³ /hr	3.6	4.7
Nominal output	kW	34.9	45.1
Efficiency data - building regulations			
Seasonal efficiency (gross CV)	%	92.3	92.2
Maintenance consumption value	kW/24Hr	2.06	2.06
Efficiency data - ErP and energy label			
Ecodesign energy label rating		A	A
Water heater efficiency	%	93	91
NO_x emissions			
NO _x @0%O ₂ according to EU regulation 812/2013	mg/kWh	53	53
General data			
Recovery rate @ 44°C	l/hr	710	910
Recovery rate @ 50°C	l/hr	620	800
Recovery rate @ 55°C	l/hr	570	730
Dimensions (height)	mm	1655	1655
Dimensions (width)	mm	660	660
Dimensions (diameter)	mm	560	560
Storage capacity	litres	186	186
Weight (empty)	kg	79	79
Weight (full)	kg	261	261
Hot outlet connection (inches)	NPT	1"	1"
Cold feed connection (inches)	NPT	1"	1"
Gas connection (inches)	NPT	3/4"	3/4"
Flue connection (concentric)	mm	80/125	80/125
Flue connection (twin-pipe)	mm	80	80
Electrical requirements		230V /1Ph /50hz	
Power consumption (peak)	W	160	230
Sound power level	LWA(db)	63	69
Nominal flue gas temperature	°C	65	75
Max outlet temperature	°C	85	85
Maximum working pressure	bar	8	8

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

EcoShield storage-type gas-fired water heaters

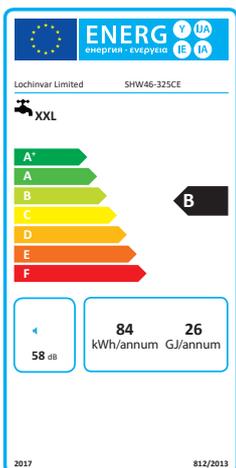


Features

- Hot water recovery rates from 612 to 2436 l/hr at 50°C temperature rise
- Fully modulating pre-mix burner
- Stainless steel heat exchanger
- Efficiencies of up to 96.45%
- Low NO_x emissions ≤40mg/kWh
- 5-year storage vessel and heat exchanger warranty
- 10 bar working pressure

Ancillary items - optional

- Unvented system kits
- Concentric and twin pipe flue assemblies
- Conventional flue adaptor
- Correx non-sacrificial anode system (factory fitted)
- Condensate neutralisation kit
- Con-X-us app-based control



Con-X-us is an app-based ancillary which enables users to monitor EcoShield water heater operation from literally anywhere in the world! Settings can also be remotely adjusted and alerts can be configured for service reminders and system lockout alarms.

Technical specification

Water heater model		SHW35-245CE	SHW46-325CE	SHW61-325CE	SHW86-410CE	SHW116-410CE	SHW146-410CE
Nominal input (net)	kW	33.3	39.6	55.4	75.2	105.3	132.0
Nominal input (gross)	kW	36.6	44.0	61.5	83.5	116.9	146.5
Gas flow rate (natural gas)	m ³ /hr	3.50	4.20	5.70	8.00	11.10	14.00
Nominal output	kW	35.2	41.2	58.7	79.7	110.6	141.2
Efficiency data - building regulations							
Seasonal efficiency (gross CV)	%	96.2	93.6	95.8	96.0	94.6	96.4
Maintenance consumption value	MJ/M	302	302	302	302	302	302
Efficiency data - ErP and energy label							
Ecodesign energy label rating		B	B	B	n/a	n/a	n/a
Water heater efficiency	%	76	73	81	79	78	79
NO_x emissions							
NO _x @0%O ₂ according to EU regulation 812/2013	mg/kWh	26	33	27	33	40	38
General data							
Recovery rate @ 44°C	l/hr	695	806	1153	1567	2164	2768
Recovery rate @ 50°C	l/hr	612	709	1014	1379	1904	2436
Recovery rate @ 56°C	l/hr	546	633	905	1231	1700	2175
Dimensions (height)	mm	1530	1920	1920	1920	1920	1920
Dimensions (diameter)	mm	715	715	715	865	865	930
Storage capacity	litres	248	331	332	420	423	424
Weight (empty)	kg	136	281	290	379	388	406
Weight (full)	kg	384	614	625	825	838	860
Hot outlet connection (inches)	BSP	1½"	1½"	1½"	2"	2"	2"
Cold feed connection (inches)	BSP	1½"	1½"	1½"	2"	2"	2"
Gas connection (inches)	BSP	½"	½"	½"	¾"	1"	1"
Flue connection (concentric)	mm	80/125	80/125	80/125	100/150	100/150	100/150
Flue connection (twin-pipe)	mm	80	80	80	100	100	100
Electrical requirements		230V /1Ph/ 50hz					
Power consumption (peak)	W	361	431	459	646	932	961
Sound power level	LWA(db)	56	58	60	62	64	66
Maximum flue gas temperature	°C	120	120	120	120	120	120
Max outlet temperature	°C	80	80	80	80	80	80
Maximum working pressure	bar	10	10	10	10	10	10

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

EcoForce wall hung circulating-type gas-fired water heaters



Features

- Recovery rates from 1312 to 2961 litres/hour
- Efficiencies up to 95.5%
- Fully modulating pre-mix burner
- Stainless steel heat exchanger
- High working pressure – up to 8 bar
- Low NO_x emissions ≤46mg/kWh
- Wall-hung space-saving design

Ancillary items - required

- Matched primary circulation pump
- Direct storage vessels

Ancillary items - optional

- Unvented/boosted water system kits
- Condensate neutralisation kit
- Range of flue options
- RCW remote controller
- Storage vessel sensor

Technical specification

Water heater model		EF80	EF100	EF120	EF150	EF180
Nominal input (net) min-max	kW	14.6 - 74.3	17.2 - 92.2	26.0 - 111	34.0 - 138	45.0 - 166
Nominal input (gross) min-max	kW	16.2 - 82.5	19.1 - 102	28.9 - 123	37.8 - 153	50.0 - 184
Gas flow rate (natural gas)	m ³ /hr	7.9	9.8	11.8	14.6	17.6
Nominal output min-max	kW	14.0 - 76.3	16.5 - 94.7	24.7 - 114.1	32.6 - 141.7	43.3 - 172.2
Efficiency data - building regulations						
Heat generator seasonal efficiency (gross CV)	%	95.0	95.5	95.4	95.3	95.3
Efficiency data - ErP and energy label						
Ecodesign energy label rating		n/a	n/a	n/a	n/a	n/a
Seasonal space heating energy efficiency	%	86	86.3	85.9	89	88.6
NO_x emissions						
NO _x emission (according to EN15502)@0% O ₂	mg/kWh	46	40	45	41	44
NO _x class according to EN15502		6				
General data						
Recovery rate @ 44°C	l/hr	1491	1851	2230	2770	3365
Recovery rate @ 50°C	l/hr	1312	1629	1963	2438	2961
Recovery rate @ 56°C	l/hr	1172	1455	1752	2176	2644
Dimensions (height)	mm	842	842	842	898	898
Dimensions (width)	mm	476	476	476	476	476
Dimensions (depth)	mm	486	486	486	677	677
Water content	litres	5	6.5	8.3	10.4	12.9
Weight (empty)	kg	68	73	78	87	96
Weight (full)	kg	73	79.5	86.3	97.4	108.9
Flow connection (inches)	BSP	1½	2	2	2	2
Return connection (inches)	BSP	1½	2	2	2	2
Gas connection (inches)	BSP	R ¾	R ¾	R ¾	R 1	R 1
Flue connection (concentric)	mm	80/125	100/150	100/150	100/150	100/150
Flue connection (twin-pipe)	mm	80-80	100-100	100-100	130-130	130-130
Electrical requirements		230V /1Ph/ 50hz				
Power consumption	W	136	142	151	214	229
Sound power level	LWA(db)	67	65	62	66	69
Nominal flue gas temperature	°C	85	85	85	85	85
Max outlet temperature	°C	75	75	75	75	75
Working pressure minimum	bar	1	1	1	1	1
Working pressure maximum	bar	8	8	8	8	8

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



EcoKnight circulating-type gas-fired water heaters



Features

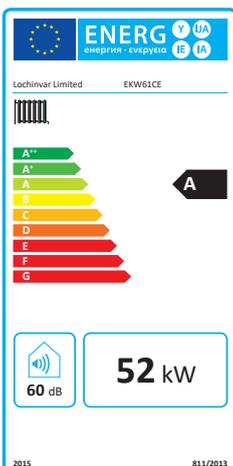
- Recovery rates from 709 to 3819 litres/hour
- Efficiencies up to 96.4%
- Fully modulating pre-mix burner
- Stainless steel heat exchanger
- High working pressure- up to 11 bar
- Low NO_x emissions ≤40mg/kWh
- Integral Controls

Ancillary items - required

- Matched primary circulation pump
- Direct storage vessels

Ancillary items - optional

- Unvented system kits
- Condensate neutralisation kit
- Range of flue options
- BMS Interface Module



Technical specification

Water heater model		EKW 46CE	EKW 61CE	EKW 86CE	EKW 116CE	EKW 146CE	EKW 176CE	EKW 206CE	EKW 236CE
Nominal input (net)	kW	39.6	55.4	75.2	105.3	132.0	158.4	184.9	211.3
Nominal input (gross)	kW	44.0	61.5	83.5	116.9	146.5	175.8	205.2	244.2
Gas flow rate (natural gas)	m ³ /hr	4.2	5.9	8.0	11.1	14.0	16.8	19.6	22.3
Nominal output	kW	41.2	58.7	79.7	110.6	141.2	162.1	187.4	227.2
Efficiency data - building regulations									
Heat generator seasonal efficiency (gross CV)	%	93.6	95.4	95.4	94.6	96.4	92.2	91.3	93.0
Efficiency data - ErP and energy label									
Ecodesign energy label rating		A	A	n/a	n/a	n/a	n/a	n/a	n/a
Seasonal space heating energy efficiency	%	95	94	94	93	94	95	95	95
NO_x emissions									
NO _x Emissions (according to EN15502)@0% O ₂	mg/kWh	33.0	27.3	33.1	40.0	38.0	37.0	34.0	32.5
NO _x class according to EN15502		6							
General data									
Recovery rate @ 44°C	l/hr	806	1153	1567	2164	2768	3302	3865	4338
Recovery rate @ 50°C	l/hr	709	1014	1379	1904	2436	2905	3401	3819
Recovery rate @ 56°C	l/hr	633	906	1231	1700	2175	2595	3037	3409
Dimensions (height)	mm	840	840	1080	1080	1080	1080	1080	1080
Dimensions (width)	mm	395	395	395	395	395	395	395	395
Dimensions (depth)	mm	459	567	503	688	798	925	1024	1153
Water content	litres	4.9	6.4	9.1	12.9	15.9	15.9	18.9	21.6
Weight (empty)	kg	75	79	102	129	138	154	168	184
Weight (full)	kg	80	85	111	142	154	170	187	206
Flow connection (inches)	BSP	1¼"	1¼"	2"	2"	2"	2"	2"	2"
Return connection (inches)	BSP	1¼"	1¼"	2"	2"	2"	2"	2"	2"
Gas connection (inches)	BSP	½"	½"	¾"	1"	1"	1"	1"	1"
Flue connection (concentric)	mm	80/125	80/125	100/150	100/150	n/a	n/a	n/a	n/a
Flue connection (twin-pipe)	mm	80/80	80/80	100/100	100/100	150/150	150/150	150/150	150/150
Electrical requirements		230V/1ph/50Hz							
Power consumption	W	120	144	180	180	204	322	322	322
Sound power level	LWA(dB)	58	60	62	64	66	69	69	69
Nominal flue gas temperature	°C	120	120	120	120	120	120	120	120
Max outlet temperature	°C	88	88	88	88	88	88	88	88
Working pressure minimum	bar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Working pressure maximum	bar	11	11	11	11	11	11	11	11

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

TTW

circulating-type gas-fired water heaters



Features

- Recovery rates from 7188 to 9912 litres/hour
- Efficiencies up to 95.9%
- Fully modulating pre-mix burner
- Stainless steel heat exchanger
- Twin burner
- Working pressure up to 8.0 bar
- Low NO_x emissions (class 6) <44mg/kWh

Ancillary items - required

- Matched primary circulation pump
- Direct storage vessels

Ancillary items - optional

- Unvented/boosted water system kits
- Condensate neutralisation kit
- Range of flue options
- RCW remote controller
- Storage vessel sensor

Technical specification

Water heater model		TTW410	TTW580
Nominal input (net) min-max	kW	50 - 400	68 - 550
Nominal input (gross) min-max	kW	55.4 - 444.0	75.5 - 611.0
Gas flow rate (natural gas) min-max	m ³ /hr	5.3 - 42.3	7.2 - 58.2
Nominal output min-max	kW	48.3 - 418.0	66.1 - 576.0
Efficiency data - building regulations			
Seasonal efficiency (gross CV)	%	95.4	95.9
Efficiency data - ErP and energy label			
Ecodesign energy label rating		n/a	n/a
Water heater efficiency	%	87.7	85.0
NO_x emissions			
NO _x emissions (weighted)@0% O ₂	mg/kWh	44	41
General data			
Recovery rate @ 44°C	l/hr	8168	11263
Recovery rate @ 50°C	l/hr	7188	9912
Recovery rate @ 56°C	l/hr	6418	8850
Dimensions (height)	mm	1638	1638
Dimensions (width)	mm	736	736
Dimensions (diameter)	mm	1095	1095
Storage capacity	litres	30	43
Weight (empty)	kg	400	450
Weight (full)	kg	430	493
Hot outlet connection (inches)	BSP	2½	2½
Gas connection (inches)	BSP	2	2
Electrical requirements		230V/1Ph/50Hz	
Power consumption	W	752	752
Sound power level	LWA(db)	74	78
Max outlet temperature	°C	70	70
Maximum working pressure	bar	8	8

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

SST

stainless steel direct storage vessels

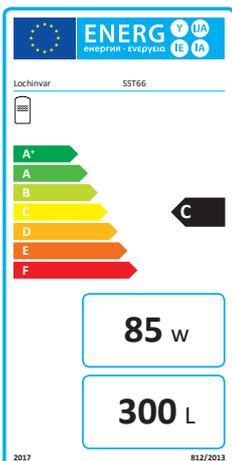


Features

- Storage capacities from 300 to 1000 litres
- Stainless steel construction
- Low standing losses
- 5-year storage vessel warranty
- For use with circulating-type water heaters and package plate heat exchangers

Ancillary items - optional

- Unvented system kits
- Additional connections (factory-fitted)



Technical specification

Model		SST66	SST110	SST165	SST220
Storage capacity	litres	300	500	700	1000
Efficiency data - building regulations					
Heat loss	Kw/24 hr	2.0	2.8	3.0	3.4
Efficiency data - ErP					
Ecodesign energy label rating		C	C	n/a	n/a
Standing loss	W	85	116	123	143
General data					
Dimensions (height)	mm	1170	1750	2320	1907
Dimensions (width)	mm	750	750	750	1080
Hot outlet connection (inches)	BSP	2	2	2½	2½
Flow/return connection (inches)	BSP	1½	1½	1½	1½
Weight (empty)	kg	55	95	140	175
Weight (full)	kg	355	595	840	1175
Maximum working temperature	°C	100	100	100	100
Minimum working pressure	bar	0.5	0.5	0.5	0.5
Maximum working pressure	bar	6.0	6.0	6.0	6.0

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



LOK packaged plate heat exchangers



Features

- Hot water outputs from 864 to 9504 l/hr at a 50°C temperature rise
- Plates constructed from 316l stainless steel
- Compact footprint
- Single and twin pump models
- Working pressure up to 10bar – DHW and LTHW

Ancillary items - optional

- Insulation jackets
- Direct storage vessels
- Primary pumps for use with direct storage vessels
- BMS connection
- Internal pasteurisation cycle

Technical specification

Model		LOK8/ LOKT8 50	LOK8/ LOKT8 100	LOK8/ LOKT8 150	LOK8/ LOKT8 200	LOK8/ LOKT8 250	LOK8/ LOKT8 300	LOK8/ LOKT8 350	LOK8/ LOKT8 400	LOK14/ LOKT14 450	LOK14/ LOKT14 500	LOK14/ LOKT14 550	
Heat transfer duty	kW	50	100	150	200	250	300	350	400	450	500	550	
Thermal efficiency	%	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	
primary side													
Inlet temperature	°C	82	82	82	82	82	82	82	82	82	82	82	
Outlet temperature	°C	Varies Depending On Demand (between 40 and 50 At Full Demand)											
Fluid flow rate	litre/sec	0.38	0.76	1.14	1.32	1.47	2.00	2.20	2.36	3.33	3.58	3.83	
Connection size and type	Inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	DN40 PN6 Flange			
Max working temperature	°C	99	99	99	99	99	99	99	99	99	99	99	
Maximum working pressure	bar	10	10	10	10	10	10	10	10	6	6	6	
Secondary side													
Inlet temperature	°C	Variable Depending On Demand (10 At Full Demand)											
Outlet temperature	°C	65	65	65	65	65	65	65	65	65	65	65	
Fluid flow rate	litre/sec	0.22	0.44	0.66	0.88	1.09	1.31	1.53	1.75	1.97	2.19	2.41	
Connection size and type	Inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	2"	2"	2"	
Max working temperature	°C	85	85	85	85	85	85	85	85	85	85	85	
Maximum working pressure	bar	10	10	10	10	10	10	10	10	6	6	6	
General data													
Recovery rate @ 50°C	l/hr	864	1728	2628	3492	4320	5184	6048	6948	7812	8676	9504	
Recovery rate @ 55°C	l/hr	792	1584	2376	3168	3924	4716	5508	6300	7092	7884	8640	
Dimensions (height)	mm	1445									1541		
Dimensions (width)	mm	643									643		
Dimensions (depth)	mm	1023									964		
Empty weight LOK	kg	110	113	116	119	122	124	127	127	189	191	194	
Empty weight LOKT	kg	128	131	135	137	140	142	145	145	210	212	214	
Electrical requirements	230V /1Ph/ 50hz												

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

Squire stainless calorifier-type indirect water heaters

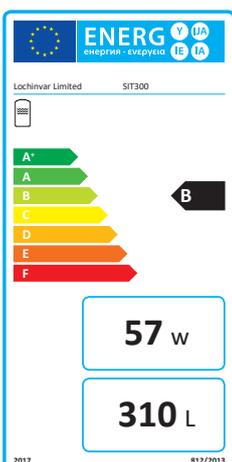


Features

- Storage capacities from 299 to 3,000 litres
- Single and twin coil models
- Stainless steel construction
- High capacity stainless steel coils
- Up to 10.0 bar working pressure

Ancillary items - optional

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



Technical specification – SIT single coil models

Water heater model		SIT300	SIT450	SIT600	SIT900	SIT1100	SIT1400	SIT1900	SIT2500	SIT3000
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		B	B	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*									
Water heater model		SIT300	SIT450	SIT600	SIT900	SIT1100	SIT1400	SIT1900	SIT2500	SIT3000
Coil and performance data										
Coil output (80/60°C)	kW	34	56	54	81	108	108	162	162	162
Coil surface area	m²	1.25	2.05	2	3	4	4	6	6	6
Flow rate (80/60°C)	l/sec	0.41	0.68	0.66	0.99	1.32	1.32	1.98	1.98	1.98
Pressure loss	kPa	6.4	14	27.4	33.2	21.1	21.1	21.1	21.1	21.1
Maximum coil temperature	°C	110	110	110	110	110	110	110	110	110
Maximum coil pressure	bar	10	10	6	6	6	6	6	6	6
Max draw off capacity (1st hour) at 50°C temperature rise	l/hr	828	1289	1389	2065	2758	2962	4286	4786	5186
Heat up time at 50°C temperature rise	min	32	27	37	36	36	45	40	54	65

Technical specification – SDT Twin coil models

Water heater model		SDT300	SDT450	SDT600	SDT900	SDT1100	SDT1400	SDT1900	SDT2500	SDT3000
Storage capacity	litres	299	416	575	840	1125	1380	1875	2500	3000
Efficiency data - building regulations										
Heat loss	kWh/24hr	0.60	0.83	2.88	3.29	3.60	3.84	4.13	4.56	4.87
Efficiency data - ErP and energy label										
Ecodesign energy label rating		B	B	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	1595	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	1	1	1
Weight (empty)	kg	85	101	114	162	195	241	291	370	427
Weight (full)	kg	384	517	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*									
Coil and performance data										
Coil output (80/60°C) - lower / upper	kW	34/23	56/40	27/27	27/40	54/40	54/54	81/67	81/81	81/67
Coil surface area - lower / upper	m²	1.25/0.85	2.05/1.50	1.0/1.0	1.0/1.5	2.0/1.5	2.0/2.0	3.0/2.5	3.0/3.0	3.0/2.5
Flow rate (80/60°C) - lower / upper	l/sec	0.41/0.28	0.68/0.5	0.33/0.33	0.33/0.495	0.66/0.495	0.66/0.66	0.99/0.825	0.99/0.99	0.99/0.825
Pressure loss - lower / upper	kPa	6.4/1.55	14/7.12	12.2/12.2	12.2/14.3	19.7/14.3	19.7/19.7	28.1/23.4	28.1/28.1	28.1/23.4
Maximum coil temperature	°C	110	110	100	100	100	100	100	100	100
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 (top coil only)	l/hr	537	901	924	1360	1588	2033	2652	3393	3552
Heat up time at 50°C temperature rise (top coil only)	min	23	18	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	2517	2962	4046	4786	4969
Heat up time at 50°C temperature rise (both coils)	min	19	16	37	44	42	45	44	54	42

*For use of 230v thermostats only
Energy Label, product fiche and ErP data table are available at www.lochinvar.ltd.uk

Customer service & contacts



CUSTOMER SUPPORT

We aim to provide our customers with the best possible service at all stages ; and our knowledgeable and experienced staff are keen to assist. For further information please contact the most appropriate department, from the following details:

AREA SALES

See page 87

CUSTOMER SERVICE

info@lochinvar.ltd.uk

- Product and ancillary item order status / deliveries
- Spare parts enquiries and sales
- Spare parts deliveries

FINANCE

accounts@lochinvar.ltd.uk

- All enquires relating to accounts

INTERNAL SALES

info@lochinvar.ltd.uk

- General product information and enquires
- Quotation requests

TECHNICAL SUPPORT

technicalsupport@lochinvar.ltd.uk

- After-sales service
- Pre-sales technical information

CONTACT

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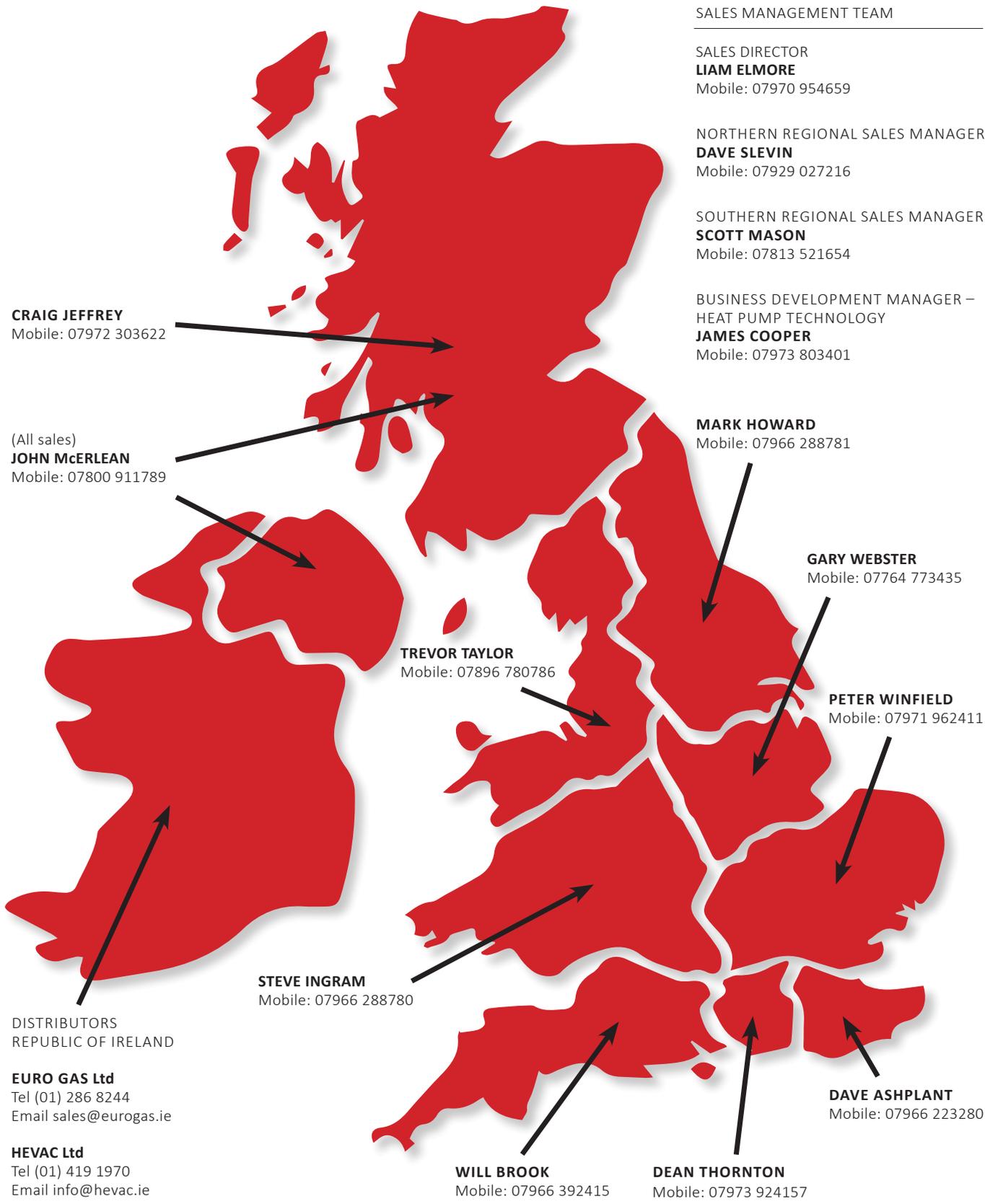
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Email: info@lochinvar.ltd.uk

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BUSINESS DEVELOPMENT MANAGER –
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JAMES COOPER
Mobile: 07973 803401

DISTRIBUTORS
REPUBLIC OF IRELAND

EURO GAS Ltd
Tel (01) 286 8244
Email sales@eurogas.ie

HEVAC Ltd
Tel (01) 419 1970
Email info@hevac.ie

Product & application training

We have a purpose-built product training room at our Banbury facility, which includes a wide range of boiler and water heater products, most of which are operational.

Training courses are held monthly and typically focus upon our popular ranges of gas-fired condensing boilers and direct gas-fired water heaters. The training day includes both theoretical and practical sessions and includes the following topics:

- **Product application and installation**
- **Commissioning**
- **Maintenance**
- **Trouble-shooting**

We can also provide tailored training courses on more specific product types or product ranges.

For further information please visit our webpage here www.lochinvar.ltd.uk/training/product-training



CIBSE accredited CPD seminars



Continuing Professional Development is of particular importance to a wide range of industry professionals and particularly those involved in the selection and design of commercial heating and hot water systems. CIBSE, as a leading Professional Engineering institution, includes a CPD requirement for their members.

Lochinvar has been providing CPD Seminars for many years on various subjects relating to heating and hot water systems for commercial and industrial applications. Our current seminars include the following:

- **Heat pumps for commercial heating and hot water applications**

An overview of how this technology can help towards achieving a low carbon future. The seminar reviews specific applications including heating only, hot water only or heating and hot water, and also includes monovalent and bivalent systems.

- **Integrating renewable technologies with high efficiency boilers and water heaters**

The seminar covers solar thermal, air source and gas absorption heat pump technologies, and how they can integrate with high efficiency gas-fired boilers and water heaters.

- **Sizing and selection of direct gas-fired water heaters**

Selecting equipment for hot water generation depends upon many project-related factors. This seminar covers the range of criteria required and demonstrates sizing via purpose-designed software.

- **Boiler controls**

For many years, manufacturers have been producing boilers that can achieve efficiencies in the high 90's. System design and control are key factors in ensuring that such performance levels are achieved operationally and the subject of boiler/heating system controls is the focus of this seminar.

Seminars are usually conducted at the offices of building Service Engineers and Contractors, and a CPD certificate is issued to each attendee.

For further information or to register interest please complete our online enquiry form www.lochinvar.ltd.uk/training/cpd-seminars

Heat Pumps for Commercial Heating and Hot Water applications



Time :
Date :
Venue :



*delivered by Scott Mason
Regional Sales Manager
Lochinvar Ltd*

Attendees will receive CPD certificate by email



Lochinvar Ltd reserves the right to change specifications without prior notice

CATALOGUE | Stainless steel | 20_003 | November 2020



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