

SAUNATEC Sauna Service Sheet –

Club Name: Killamarsh sports centre, Stanley Street, Sheffield, S21 1EL

Visit 6-2-2020

Sauna Stove Elements and electrical details 10.5kW Approximate age of Sauna: 20 years.	Checked (please tick) and comments
Check Type of protection i.e. BSEN 60898	<input checked="" type="checkbox"/> BSEN 60898 <input type="checkbox"/> C20
Check condition Isolator and electrical circuits to Unit	<input checked="" type="checkbox"/> Ok <input type="checkbox"/> Possible Problem
Check condition of stove casing Harvia 10.5 kW	<input type="checkbox"/> Ok <input checked="" type="checkbox"/> Possible Problem
Check condition of peridotite rocks	<input type="checkbox"/> Ok <input checked="" type="checkbox"/> Possible Problem
Check the condition of the elements and spade connectors Terminal block	<input type="checkbox"/> Ok <input type="checkbox"/> Possible Problem
Check the loading of each element (in amps)	L1 L2 L3
Test earth Continuity From control box to Heater on old installations	Result In Ohms 0.0 Ω <input type="checkbox"/> Ok <input type="checkbox"/> Problem Action See Report
REMOTE CONTROL BOX and Sensor	
Check Condition and position of Thermostat and Cover	<input type="checkbox"/> Ok <input checked="" type="checkbox"/> Possible Problem
Check thermostat temperature Sensor (in Degrees C)	95 °C Maximum <input type="checkbox"/> Ok <input type="checkbox"/> Replace
Check Hi-Limit Safety Cut Out.	<input type="checkbox"/> Ok <input checked="" type="checkbox"/> Possible Problem
Check condition of casing and mounting of LSG control box	<input type="checkbox"/> Ok <input type="checkbox"/> Remedy
	<input type="checkbox"/> Ok <input checked="" type="checkbox"/> Possible Problem
OK 33 Check condition of the Relays and all other electrical Terminals. Relay PCB for carbon on relay.	<input type="checkbox"/> Ok <input checked="" type="checkbox"/> Possible Problem
OK 33 temperature control	<input type="checkbox"/> Ok <input checked="" type="checkbox"/> Unstable Replace
OK 33 Auto off at 12h	<input type="checkbox"/> Ok <input checked="" type="checkbox"/> Faulty needs Replacing
Check condition of control box cover (where fitted)	<input type="checkbox"/> Ok <input type="checkbox"/> No cover
Sauna Cabin and Benches	
Type of sauna Size Nordic 2500x3000 1900H	
Check cabin for general condition. Description Colour	<input type="checkbox"/> Good Condition <input type="checkbox"/> Fair Condition <input type="checkbox"/> Poor Condition <input checked="" type="checkbox"/> Hazard <input checked="" type="checkbox"/> Possible Danger of Fire
Check condition of benches Description Colour	<input type="checkbox"/> Good Condition <input type="checkbox"/> Fair Condition <input type="checkbox"/> Poor Condition <input checked="" type="checkbox"/> Hazard <input checked="" type="checkbox"/> Danger of Collapse
Check fixing of and bench bearers and supports	<input type="checkbox"/> Good Condition <input checked="" type="checkbox"/> Poor Condition
Check Guard Rail	<input type="checkbox"/> Good Condition <input checked="" type="checkbox"/> Possible Danger
DOOR HINGES Type i.e. patch Pivot Colour	
Check door frame and Magnetic catch	<input type="checkbox"/> Good Condition <input checked="" type="checkbox"/> Poor Condition <input checked="" type="checkbox"/> Needs Replacing
SAUNA LIGHT and Accessories	
Check wall fixing electrical terminals and damage to T&G	<input type="checkbox"/> Good Condition <input checked="" type="checkbox"/> Hazard
Check Glass Lamp Shade and wooden cover	<input type="checkbox"/> Good Condition <input type="checkbox"/> Poor Condition <input type="checkbox"/> Needs Replacing
Check Thermometer and Hydrometer	<input type="checkbox"/> Good Condition <input type="checkbox"/> Poor Condition <input checked="" type="checkbox"/> Needs Replacing
Check Sauna Bucket and Ladle	<input type="checkbox"/> Good Condition <input type="checkbox"/> Poor Condition <input checked="" type="checkbox"/> Not Used
Parts Fitted: NONE	Report and Possible Hazards: See Notes
Engineers name: David Hughes	Club staff name:
Signed:	Signed:



Warning

**Remember check your Sauna Temperature on a Regular Basis
As Over heating can Damage your Sauna and may be
Hazardous to Your Clients. Maximum Temperature 95°C**

Survey Notes



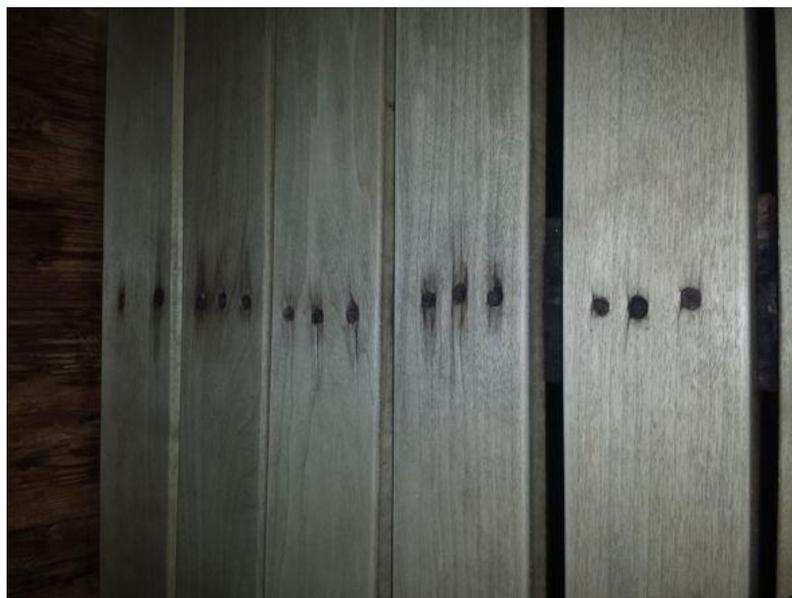
Internal lining Damaged and scorched



Heat proof lining Damaged Heater in poor condition.



Spruce lining shrunk and damaged.



Benches beyond repair poor finish with exposed Rusty steel screws.



Your Sauna is now 20 years old. Commercial saunas will deteriorate over time depending on usage. Average commercial sauna will be heated for 14 hrs a day this will eventually damage the internal lining and the structural frame. At 10 years then refurbishment would be an option however at 20 years the sauna is a Fire Hazard and will be best to remove and replace with new.

The Electrical supply and isolator appear to be OK and can be used for replacement control unit if new installation is fitted.

The Old OK33 PS3 Sauna controller is not suitable for new installation and will need to be replaced.

The Door has done well to survive. The pivot hinges are damaged and now obsolete. The door will be best replaced with full width disabled access door, door opening 870mm clear low iron glass 8mm with self-closing hinges.

Lighting 230v Obsolete. Replace with high temperature LED low voltage lighting.

Replacement Sauna will be the best option. I suggest that the new sauna is slightly smaller at 2.5 mt x 2.5 mt x 2 mt high, this will cost less to run and be more suited to your needs. Optional energy saving technology can be incorporated into the new Design. If the Emotec D digital controller is used then Eco setting can be selected so the sauna will reduce heat to stand by temperature in low bather demand and can be busted for a set period for sauna bathers outside peak bathing times. The display control can be fitted at reception desk and Staff can monitor Sauna bathing times and boost control.

SBM-ECO

The "power save" mode is now a standard new feature in all Emotec / EmoStyle / EmoTouch 3 controls (old models can be updated on site). For maximum convenience you can additionally use a remote push-button to start / stop this function. Otherwise they need to use the display panel which is probably not so convenient.

This remote button includes a small separate "grey box" with some electronics and plugs in using RJ12 cable into the control unit. The button is an elegant metal housing button with illuminated ring (glows green if active) – a very nice one! Robust and durable.

How it works:

If activated (button push or through the display) the ECO mode will reduce the temperature to a lower level (reduction is dynamic and depends on set-point, e.g. from 90-85°C it goes to some 58-63°C). It will then run low until the operator pushes the button again (or de-activates through display panel).

If desired you can set automatic return to set-point within 10 – 240 minutes, then if they do nothing it will come back to full temperature after such pre-set time.

Important Notice

Incident: Is this your Sauna Door. Open all-night? And the sauna accidentally switched on all night - staff forgot to switch the sauna off the result is often a Fire.

Time Limiter Faulty, Maximum 12 hrs time limiter will back up your staff if they forget then the time limiter will do the job.

Always Check Sauna is switched off at night, Check the sauna for debris i.e. Paper cups towels etc. on or near the Hidden heater Grill, and check before leaving the building. Recommend the door is closed at night so if the sauna is accidentally on the control systems can limit the temperature as designed.

Morning switch on Check the sauna for debris i.e. Paper cups towels etc. on or near the Hidden heater Grill make sure the sauna is safe to use.

SAUNA FIRES

Introduction

From time to time investigators from Burgoynes have been called upon to investigate the causes of fires that have occurred within sauna cubicles. Such fires, occurring as they do in sauna compartments that are timber-lined, are prone to develop rapidly and often cause substantial damage. Where such cubicles are located in leisure complexes or hotels the fires can lead to substantial economic loss. Several guidance documents have been produced^{1,2,3,4} relating to the installation and operation of saunas and an European Standard (BS-EN 60335-2-53) exists to provide manufacturers and installers with guidance relating to the design and construction of such equipment.



As part of the investigation into the cause of one particular fire, Burgoynes and one of our leading competitors commissioned tests at EXOVA (formerly Warrington Fire Research) on a mock-up of a working sauna cubicle fitted with an exposed heater. The cabin was fitted with thermocouples in order to measure the temperatures achieved under a variety of

¹ Risk Control document RC50 'Fire Safety In The Construction And Use Of Saunas', published by the Fire Protection Authority.

² 'Sauna Fire Safety', ref No 2014 (v1) - part of the Hardfacts series published by Aviva Risk Services.

³ 'SPATA Standards Volume 3', Published by the Swimming Pool and Allied Trades Association Ltd.

⁴ 'ISRM Operators Guide To Sauna Room Services', published by The Institute of Sport and Recreation Management.