

SANICA

FIJI

24 - 28 KW HERMETIC CONVENTIONAL BOILER INSTALLATION AND USER MANUAL



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1-INTRODUCTION

First of all, thank you for choosing SANICA brand. SANICA conventional combi boilers are designed for efficient, safe and comfortable central heating and domestic hot water needs.

SANICA FIJI 24kW - 28kW hermetic conventional combi boilers are designed and produced to serve according to the need for hot tap water and heating, using natural gas fuel. The devices are suitable for use with natural gas fuel. There are necessary information for safe and efficient use of combi boilers in the Installation and User Manual. In this booklet; technical information, installation and connection information of the device, information about maintenance and possible malfunctions and explanations are included. Please do not use your device before reading this booklet and keep it in case it is necessary.

2- WARRANTY AND SERVICE

- a. The assembly and connections of the boiler must be done in accordance with the conditions specified by TSE and authorized gas organizations, as specified in the manual.
- b. Make sure that the flue connection is not opened to a closed environment and that it is not connected with any device other than the special chimney used for connecting more than one device, and that the chimney head is not blocked.
- c. It should be ensured that the boiler will be used with a suitable gas.
- d. It should be ensured that the connected piping and pipes are cleaned before installation. Otherwise, malfunctions caused by dirt and particles in the installation are out of the scope of warranty.
- e. The first start-up of the combi must be done by the authorized service. Make sure that the electricity, water and gas connections of the device are made completely.
- f. The outer surface of the device should be cleaned with a damp cloth without using any chemicals or detergents.
- g. In order to use the device efficiently for many years, have an annual maintenance done by the authorized service regularly every year.

CAUTION: This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children must be supervised to ensure that they do not play with the appliance. Cleaning and user maintenance should not be made by children without supervision.

CAUTION: This device; is not suitable for use by persons (including children) with reduced physical, sensory and mental capabilities, or ignorant and inexperienced persons, without being informed and supervised by responsible persons. Make sure that children do not play with the device.

3-EXCLUSION OF WARRANTY

The warranty given by SANICA does not cover the malfunctions arising from the abnormal use of the device and the following situations:

- a. Malfunctions in devices not first started by SANICA authorized services.
- b. Malfunctions arising from the assembly and use of the device contrary to the conditions stated in the user manual.
- c. Malfunctions caused by incorrect type selection,
- d. Damages and failures caused by intervention to the device other than the authorized service.
- e. Physical damages occurring after the delivery of the device.
- f. Damage caused by fire and lightning.
- g. Malfunctions caused by low or high voltage or not grounding.
- h. Malfunctions arising from not having the described periodic maintenance works delivered by our authorized services on time.
- l. Malfunctions caused by other accessories and products used with the device.
- j. Damages caused by frost.
- k. Falsification of the registration label and warranty certificate.
- l. Malfunctions caused by operation of the device outside the water conditions specified in the user manual.

The above mentioned malfunctions and damages are out of warranty and are handled for a fee.

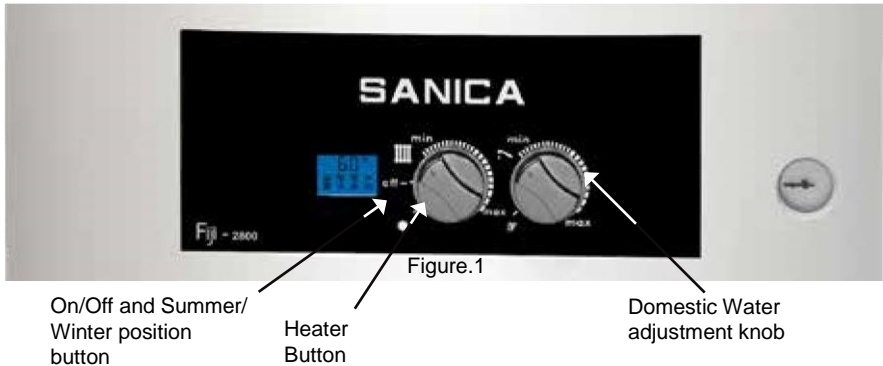
4-STARTING THE BOILER

Make sure that the electricity, water and gas connections of the device have been made and the necessary supply energies are turned on. a. Open the energy connection.

- b. Turn the gas valve to open.
- c. Turn the switch to the operating position by turning the Summer or Winter mode according to your wishes. The open button is also the Summer / Winter position button. **(Figure.1) WARNING: In summer mode, the device will not be activated as long as the domestic water is not turned on.**

d. Adjust the temperature adjustment knobs to the desired temperature and ensure the reflection of the device.



WARNING: When the device is started for the first time, until the air in the gas pipe is expelled, the device may fail several times with ignition errors. In this case turn the on / off switch to off position and wait for 3 seconds to turn your device on again. (Figure 1)







5-DAILY USAGE OF THE BOILER


Summer / Winter usage mode selection; When there is no need to use the heater heating feature of the device, the device can be switched to summer mode to operate only the domestic water heating. To make this setting, you need to the On / Off switch to position.

WARNING: When the device is off, the blockage safety of the pump is a active , the frost protection is not active.

a - When the device is used in summer mode and domestic water circuit, there is () mark on the screen. For domestic water adjustment, adjust the () button in the direction of the thickness of the lines and adjust the desired temperature by looking on the screen. Pump blockage protection and frost protection are active in the summer position.

b - When the device is switched to winter mode, there are () and () signs on the screen. For this choice; The () mode setting button should be between the min and max texts.

c - For the adjustment of the radiator temperature, adjust the desired temperature according to the temperature value on the screen by turning the () button in the direction from min to max.

d - For domestic water adjustment, adjust the () button in the direction of the thickness of the lines and adjust the desired temperature by looking on the screen.

e - Pump blockage protection and frost protection are active in the winter position.

WARNING: When the device starts to operate (when the burner ignites) sign is displayed on the screen during the burning period.

6-FILLING BOILER WITH WATER

Water supply is made from the filling valve shown in Figure 3 located at the bottom of the device. While the device is cold, the water level should be filled in a range of 1 - 1.5 bars on the manometer located on the front of the device (Figure 2). When the water pressure of the device drops to a critical level, the device automatically stops.

WARNING: In order to fill the device with water, it must be switched to heating (winter) mode. When the device is in domestic water (summer) mode, water filling operation cannot be done.



Figure 2

Manometre

Filling
Valve



Figurel 3

7-TURNING OFF THE BOILER

In order to turn off device you need to turn the button to the off position. When the device is turned off, the pump blocking safety is active, the frost protection is not active and there is an electric current in the device. In order to cut off the electric current, electricity must be cut off from the main fuse.

WARNING: The electrical connection and gas connection of the device must not be disconnected for the frost protection to be active. The conditions in clause 4 should be observed. When the water in the device falls below 5 degrees, it is activated and heats up to 30 degrees.

8- BOILER MAINTENANCE

In order to use your device smoothly and efficiently for a long time, have it annually examined by the authorized service at the beginning of the season.

Never clean the outer surface of your device with detergent or chemicals.

Check your installment before connecting the device and make sure that there are no foreign particles in the installation.

The useful life of the combi boilers determined and announced by the Ministry of Science, Industry and Technology is 15 years. Within this period, the manufacturers undertake to keep the spare parts of the device as per the relevant law.

9-INSTALLATION INSTRUCTIONS

Boiler packaging content; boiler support styrofoam, assembly hanger equipment, user manual, warranty certificate and service booklet.

The places where the device will be mounted should be selected by checking the conditions determined by TSE and authorized gas organizations. Mounting hanging equipment must be securely mounted on the wall to carry the weight of the boiler. The device must be mounted on the hanging equipment to be level.

It is recommended to leave a gap of 50 cm from the top, 15 cm from the sides and 40 cm from the bottom where the boiler will be mounted. For water connections, a filter and a ball valve must be installed at the inlets of the combi. (Figure 5) The

mains inlet should not be over the 8 bar pressure limit. In cases with higher network pressure, a pressure reducer must be installed. The suitability of the gas installation and the device should be checked.

Warning: The safety valve connection must be given to the installation drainage line.

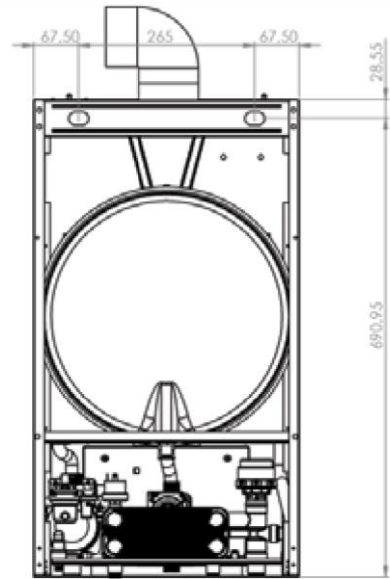
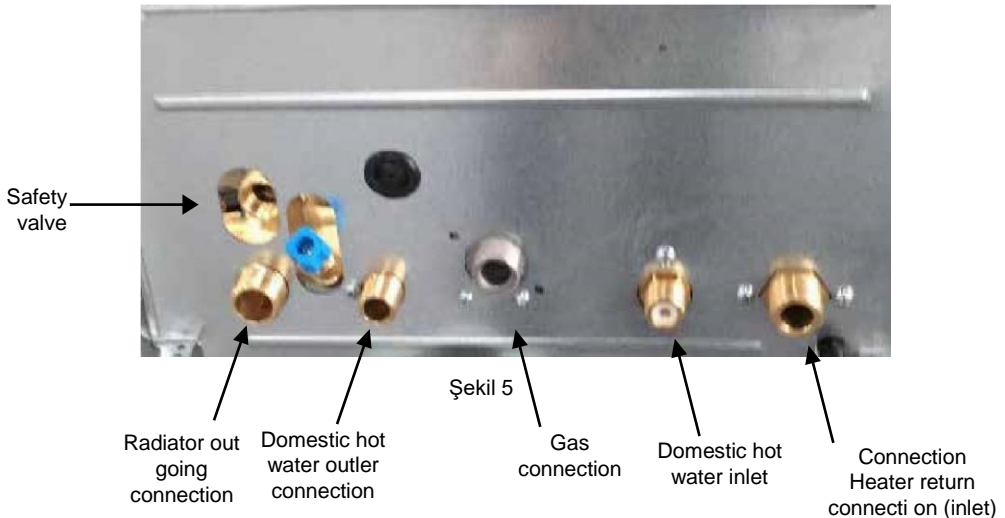


Figure 4



10. BOILER DIMENSIONS

Combi boiler dimensions are as in Figure 6.

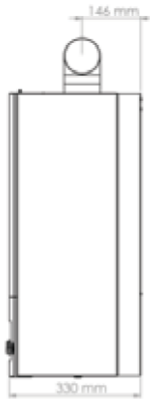


Figure 6 a
(Side)



Figure 6 b
(Front)

11-FLUE CONNECTION

The accessories provided by the manufacturer must be used in the device. Attention should be paid to the condition of the flue connection in the selection of the place where the device will be mounted. For the flue connection, the conditions determined by TSE and authorized gas organizations must be complied with.

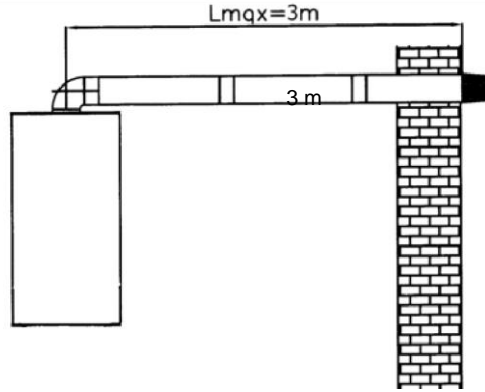
Chimney connection cannot be applied to the following places;

- a. In the stairwells of the buildings.
- b. Building corridors.
- c. To the wells
- D. On the chimney wall.
- e. To the balconies.
- f. elevator shafts.

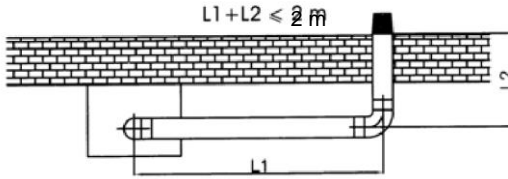
The following points should be taken into consideration in the flue connection:

- a. In cases where the chimney is removed from the roof, care should be taken to keep the chimney inlet 1.5 m from the top of the roof and coatings.
- b. It should be at least 0.3 high from the ground and in a wireframe where there is a risk of impact.
- c. When the chimney is taken out of the wall, it must be at least 18 mm outside the wall.

- d. Horizontally connected flue connections should be mounted downward with a slope of 1%.
- e. If the device is installed in attics, the chimney should be at least 40 cm above the roof. In these cases, it should be insulated with fire resistant material.
- f. The maximum chimney length of the device is 3 m. Maximum chimney length is short-ened by 1 m for each 90 ° elbow and 0.5 m for each 45 ° pole.
- g. In vertical chimney applications, roof tightness must be fully ensured. Possible malfunc-tions that may occur in the device in cases where the sealing is not ensured are excluded from the scope of warranty.



Şekil 7



Şekil 8

$$L_1 + L_2 + L_3 \leq 2m$$

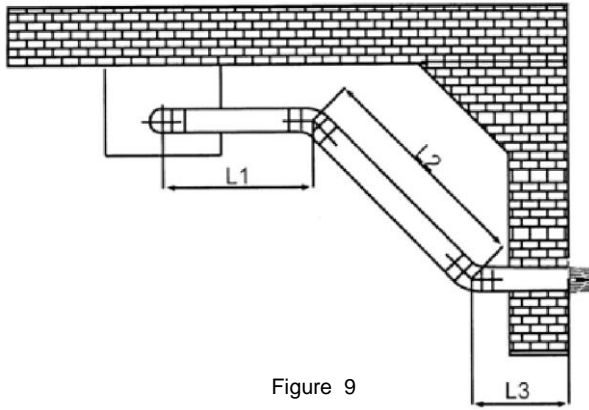
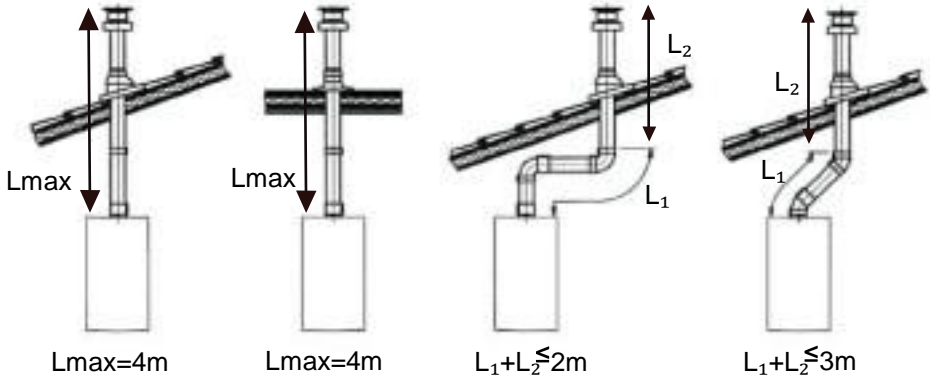


Figure 9



Şekil 10

WARNING: A fan throttle washer that comes out of the package should be used for horizontal and vertical extension flue connections.

PRODUCT	CHIMNEY SIZE(m)	WASHER (mm)
FIJI 24 KW	3	Ø45
	2	Ø43
	1	Ø41
FIJI 28 KW	3	Ø48
	2	Ø46
	1	Ø44

12. ELECTRICAL CONNECTION

The device must be connected to the energy source with grounding line.

The device must be connected to a 220 ~ 230 V monophas grounded electrical line with a 2 A. V-Automat fuse.

13. CIRCUIT SCHEME AND ROOM THERMOSTAT

For the room thermostat connection, the short circuit connection shown in Figure 12 is removed on the card and the room thermostat connection cables are installed instead. Simple type and digital type room thermostats can be connected with this connection. Please contact the authorized service for room thermostat connections that operate all functions of the device including domestic water.

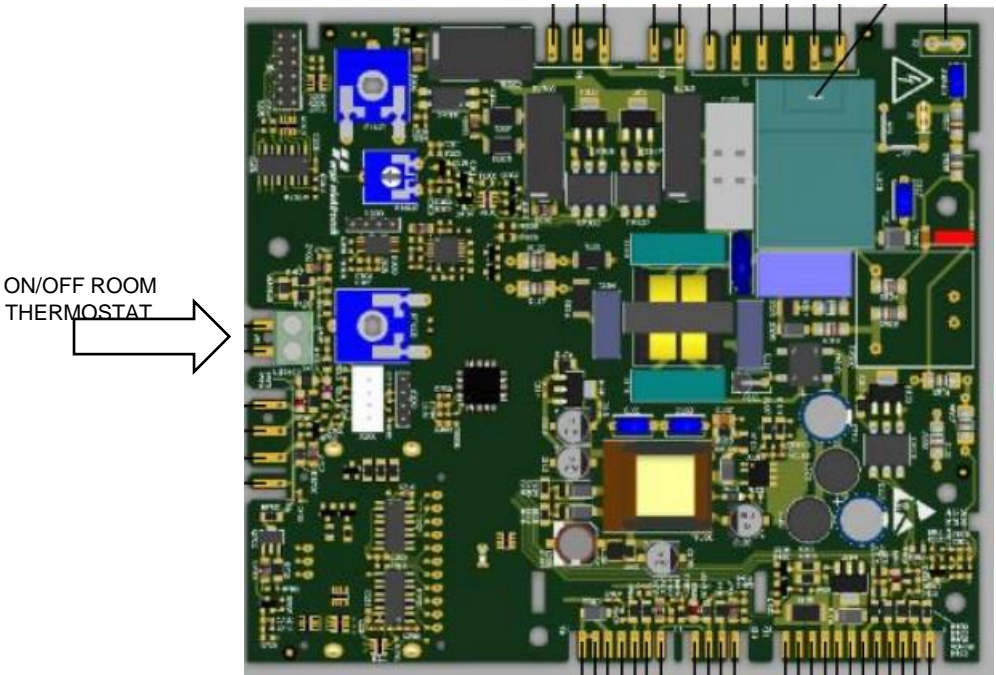


Figure 12

Please contact the authorized service for room thermostat connections that operate all functions of the device including domestic water.

14. MALFUNCTION CODES

The device indicates some malfunctions and warnings to the user on the LCD screen. (Figure 13) In this case, if the fault warning cannot be resolved by performing the specified action, the failure related to the device should be resolved by calling the nearest authorized service.

MALFUNCTION	CODE	WARNING LED	TO DO
NO FLAME WARNING	E01	RED	TURN THE DEVICE OFF/ON
SAFETY THERMOSTAT WARNING	E02	RED	TURN THE DEVICE OFF/ON
AIR PRESSURE SWITCH WARNING	E03	RED	TURN THE DEVICE OFF/ON
LOW WATER PRESSURE WARNING	E04	RED	CHECK WATER PRESSURE
DOMESTIC WATER SENSOR WARNING	E06	YELLOW	TURN THE DEVICE OFF/ON
HEATING WATER SENSOR WARNING	E07	YELLOW	TURN THE DEVICE OFF/ON
PARASITE FLAME	E11	YELLOW	TURN THE DEVICE OFF/ON

Figure 13

15. TECHNICAL FEATURES

SANICA FIJI HERMETIC COMBI TECHNICAL FEATURES

CONVENTIONAL COMBI MODELS		FIJI 24	FIJI 28
Heating Circuit Heat Power Max	kW	24	27,5
Heating Circuit Heat Load Max	kW	25,9	29,5
Heating Circuit Heat Power Min	kW	9,3	11,1
Heating Circuit Max Pressure	bar	3	3
Minimum Water Pressure	bar	0,5	0,5
Expansion Tank Capacity	Litre	7	7
Expansion Tank Pre-Pressure	bar	1	1
Min. Usage Water Flow	l/dk	3	3
Max Use Water Flow ($\Delta T = 30^{\circ} C$)	l/dk	11	13
Minimum Working Pressure	bar	0,3	0,3
Burner Pressure at Max Heat Load	mbar	11	11
Burner Pressure at Min Heat Load	mbar	1,7	1,7
Max Chimney Length	m	3	3
Gas type		G20	G20
Heating Circuit Setting temperature	$^{\circ}C$	30-80	30-80
Domestic Water Circuit Setting temp.	$^{\circ}C$	35-60	35-60
Natural gas supply pressure	mbar	20	20
Supply voltage	V	230	230
Frequency	Hz	50	50
Electric charge	w	140	140
Height	mm	717	717
Width	mm	400	400
Depth	mm	330	330
Net weight	kg	28	33
Electrical protection class		IP X4D	IP X4D

Figure 14

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