Control Series Operation Instructions

"Digi VII"

Control Models Digi VII 60 min or Digi VII 24 hr (UL# 1601-15, and 1601-15-1)

Read all instructions carefully before operation. Please leave all instructions and warranty with the owner. The 1601-15-1 control model can be set to stay on longer than 60 minutes. This is for commercial use only where an attendant is present.

WARNING
Prolonged exposure to elevated temperatures is capable of inducing hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches several degrees above the normal body temperature of 98.6°F. The symptoms of hyperthermia include an increase in the normal temperature of the body, dizziness, lethargy, drowsiness, and fainting. The effects of the hyperthermia include failure to perceive heat, failure to recognize the need to exit the room, unawareness of impending hazard, fetal damage in pregnant women, physical inability to exit the room and unconsciousness.

WARNING
The use of alcohol, drugs, or medication is capable of greatly increasing the risk of fatal hyperthermia.

SECTION 1: GENERAL INFORMATION

These controls are UL approved for permanent installations and electrical connections. Refer to the "Installation and Operations Instructions" for complete information about the heater installation.

WARNING

Do not take a sauna if using alcohol, drugs or medications.

Pregnant women or persons with poor health should consult their physician before using any sauna.

Caution fire hazard: Do not use the sauna room for drying clothes, bathing suits, etc. Do not hang towels above heater or place any object other than the rocks supplied on the heater. If any darkening of the wall around the heater is noticed discontinue sauna use immediately.

Inspect sauna regularly for required maintenance to heater, control and benches. Replace wood surfaces which show any signs of deterioration.

The heater gets extremely hot during operation and should not be touched or burns may result.

Minors should be adequately supervised whenever near a hot or warming sauna.

Control Series Operation Instructions

SECTION 2: OPERATION

Control Overview

Alarms The Digi VII control is equipped with an alarm that indicates a faulty thermostat sensor and or thermostat wire. The control will display "T1 cable break". During the alarm the control will turn power off to the heater and the control display will remain on. Rectify the fault situation by replacing the sensor or cable and press the On/Off button on control to clear alarm. If problem persists refer to **Section 5.**

Digi VII is also equipped with an alarm for high temperature. The alarm setpoint is determined in the Main Menu area of programming. If the control alarms for high temperature, follow the directions on the control to reset the alarm. The sauna should not be used again until the cause of the high temperature alarm has been determined and corrected.

Optional Equipment: There may be an audio and visual alarm connected to the contactor box to attract attention to the situation. The equipment should be mounted outside the sauna but within hearing range.

Locking Key Pad The control keypad can be locked. With the control in the Off mode, **press** the **up arrow key,** then **down arrow key** and then **fan key**. "Locked" will be displayed. This will make all keys inactive until the control is unlocked.

To unlock the control repeat the same sequence.

Control Setup:

This setup has 7 **different menus.**

To escape from this **Setup Menus**, press the **On/Off** button or the device will **automatically exit** the menu in approx. **4 seconds.**

To enter the **Setup Menu** press **PROG/OK** button and hold down for approx. **3 seconds** until the following
appears in the display:

MENU 1
TIME:12:00

Setting the Clock: Press the up arrow and hold down: The minutes and hours will begin to change. When the hour reads the correct time, release the up arrow key and enter minutes by repeatedly pressing the arrow key for each minute. Press **PROG/OK** to save the time in memory.

Next will display:

MENU 2
DAY: MONDAY

Using the arrow keys, select the correct day of the week. Press **PROG/OK**: to save the setting.

WARNING

Fire sprinkler systems used inside any sauna room should be properly rated for sauna room temperatures.

Do not pour chlorinated pool or spa water on heater. Excessive water use on heater may cause damage and void warranty.

Do not install a shower in the sauna room.

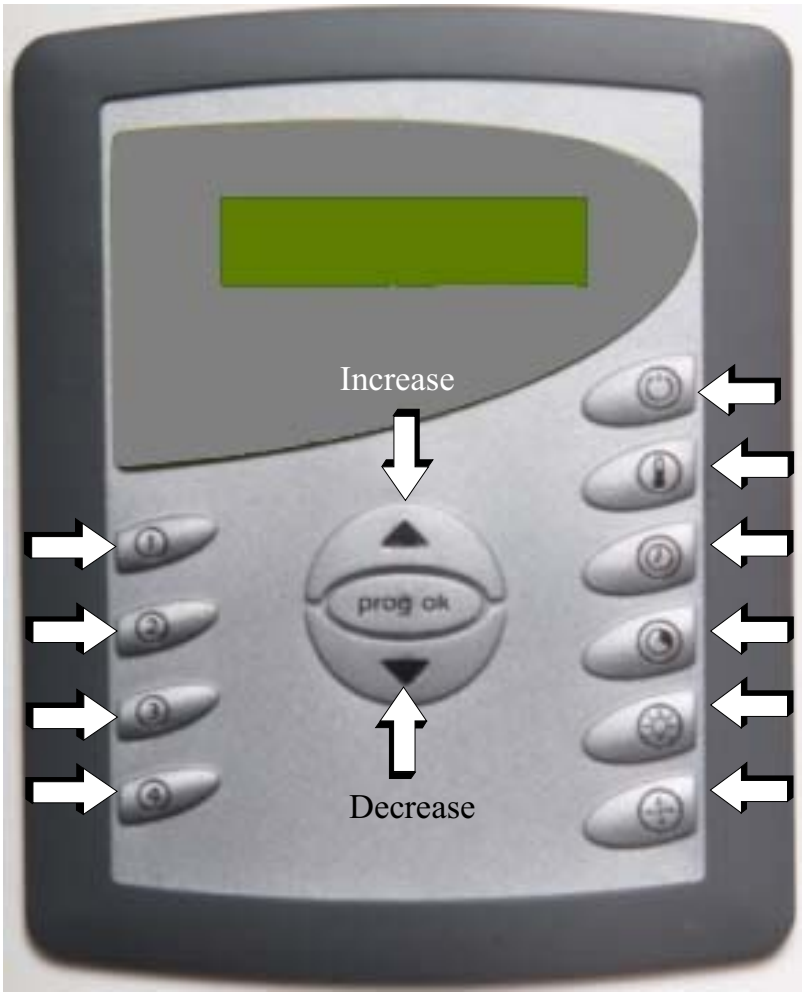
Electric Shock Hazard - High voltage exists within this equipment. There are no user serviceable parts in this equipment. All installation and service to this equipment should be performed by qualified licensed personnel in accordance with local and national codes.

Do not construct sauna room so as to restrict air flow through the bottom of the heater.

Packing the rocks too tightly may cause the heater high limit switch to trip.

Control Series Operation Instructions

SECTION 2: OPERATION, CONTINUED



The Digi VII (UL# 1601-15-1) control model can be set to stay on longer than 60 minutes. This is for commercial use only where an attendant is present.

SECTION 2: OPERATION, CONTINUED

Next will display:

MENU 3
LANGUAGE: ENGLISH

Setting Language: Press the up or down arrow key repeatedly until the language you desire appears in the display. Press **PROG/OK** to save the Language in memory.

Next will display:

MENU 4
OFFSET: T1 0C

Using the arrow key calibration value (0 +/-10C).

(Menu software is in Celcuis only, normal operation will be in selected units in Menu 6.)

Example: After reading the temperature on the thermometer in the sauna, you may have noticed that the temperature reading on the sauna thermometer is 8F lower than the display on the control. Set Offset T1 to +4C to get the displayed temperature to match the thermometer. **(This offset does not change the actual temperature, this is just for indication only.)** Press **PROG/OK**: to save the calibration value.

Next will display:

MENU 5
CLOCK: 24 h

Using the arrow keys, select a 12 or 24-hour clock. If a 12-hour clock is selected, AM or PM will appear in the display after the time. Press **PROG/OK**: to save the setting.

Next will display:

MENU 6
TEMPERATURE: C

Using the arrow keys, select the desired temperature scale. (Celsius or Fahrenheit) Press **PROG/OK**: to save the setting.

Next will display:

MENU 7
ALARM: 100

Using the arrow keys, select the desired alarm temperature setpoint. Press **PROG/OK**: to save the setting.

WARNING

Do not locate benches over heater. Minimum clearance of ceiling above heater 45".

For minimum clearance from heater to wooden surfaces refer to Diagram 1 for distances. The mounting brackets supplied provide the proper clearance from the heater to the wall.

Use only copper wire of the size and type indicated in the Heater Specification Chart and the temperature rating indicated on the heater junction box.

All heaters and controls must be grounded per NEC to prevent electrical shock in case of unit failure.

Electrical outlets or receptacle must not be installed in a sauna room.

A guardrail or fence is required around the heater to prevent burns from accidental contact.

SECTION 2: OPERATION, CONTINUED

Programming the Daily Programs:

The control is in the Off mode:

Press **ON/OFF** and a greeting appears in the display, the backlight comes on, and the following will appear in the display **MON 5:30 PM** Current day of the week and time.

Press **PROG/OK** button and the display will show View Daily Program.

Next press **PROG/OK** and the following will appear in the display: The first number indicates start time, the length of sauna duration, and the last number is the desired temperature.

5:30 PM MON 5:30 PM is the start time and **MON** is the day

01:00 156F 01:00 is the length of sauna and **50C** is the set temperature. The maximum operational time is 60 minutes or 23 hours depending on the control type.

Changing Start Time

To change the start time press the **Delayed Start Time** button and the hours and minutes (hh:mm) will appear in the display. **Start Time: 1:00 PM** The start time can now be set using the arrow keys. When the desired time has been selected, press **PROG/OK** to return to previous screen. To bypass the day so no heat cycle is used, press the Delayed Start Time button again and the display will read **Start Time: - -**

Changing Sauna Length of Operation

To change the sauna length time press the **Sauna Heat Time** button and the hours and minutes (hh:mm) will appear in the display. **On Time 1:00** The time can now be set using the arrow keys. When the desired time has been selected, press **PROG/OK** to return to previous screen.

Changing Sauna Temperature

Press the **TEMPERATURE** button and the temperature value will appear in the display current temperature setting:**156F** The temperature can now be set using the arrow keys. When the desired temperature has been selected, press **PROG/OK** and the display will return to the previous screen. If all the information is correct press **PROG/OK.**

Saving Each Day

The display will read **Copy the data to the next day? No.** If the previous day's data should not be copied to the next day choose No. If the next day should be the same as the previous day, press the arrow keys to display Yes. When the desired answer has been selected, press **PROG/OK** to return to previous screen.

Repeating Program Weekly

Repeat programing each day of the week the same way through Sunday. After Sunday has been approved the display will read **Program Repeat Weekly? No.** If the program should not repeat every week continuously, choose No. If the program should run every week, press the arrow keys to display Yes. When the desired setting has been selected, press **PROG/OK.**

Testing Alarm *(optional equipment)*

The display will read **Test Alarm?** If the alarm equipment is not connected select No by pressing the arrow keys and press **PROG/OK.** If the equipment is connected and it needs to be tested, select Yes by pressing the arrow keysand press **PROG/OK.** The audio and visual alarm should activate if connected. Press **PROG/OK** to deactivate.

SECTION 2: OPERATION, CONTINUED

Activating the Program
The control will display **Activate Program?** If the delay program should not be activated, choose No. Press **PROG/OK**, the display with read the current day and time. The control is now waiting to be activated to run by delay program or the user memory buttons.

If the delay program is ready to begin, press the arrow keys to select Yes. When the desired setting have been selected, press **PROG/OK.** The display will read current day and time on the first line and the next programmed day and time will alternately flash on the second line.

Daily Operations of Memory (User buttons):
Press **ON/OFF** and the greeting appears in the display and the backlight comes on.

Press the appropriate button to start operation of the **Light** and **Fan** ; press again to shut off. The corresponding symbols will appear in the display.

Press **Memory Button 1 - 4**: The system will turn on and operate according to the button's preset time and temperature until program has expired. The control will then turn off.

Control Setup for Control Model Digi VII 24 hr (UL # 1601-15-1):

Control Model Digi VII 24 hour is for commercial applications with an attendant on duty. This control allows the sauna to heat for a maximum of 23 hours. Refer to 1601-15 control operation for programming. Clock will mean hours and minutes.

Control Series Operation Instructions

SECTION 3: HOW TO TAKE A SAUNA

• When taking a sauna, allow time to relax completely.
• Remove clothing and jewelry...if required, wear a towel loosely.
• After 10 minutes or when perspiration begins, leave sauna and relax in dressing area...follow with a cool shower.
• Cooling time should equal time spent in sauna. Enter sauna room again and stay 5 or 10 minutes.
• Repeat the cycle 2 or 3 times; end with a brisk shower...rinse in cool water.
• Dress when completely dry and perspiration has stopped.
• Some sauna bathers enjoy the soothing effect of steam by splashing water on the heated sauna rocks. Use only one dipper full (approx. ½ cup) at a time and take care to keep clear of the steam as it rises off the rocks.
• Do not smoke, exercise or drink alcoholic beverages in the sauna room.
• Do not pour chlorinated pool or spa water on the heater or corrosion damage may result.

SECTION 4: MAINTENANCE

The sauna, like a bathroom, should be kept clean and odor free.

Towels or mats should always be used on benches and floor as perspiration otherwise penetrates the soft wood.

Air out the sauna often by keeping the door and vents open when the sauna is not in use. Saunas that are in daily use should be washed down at least once a week to keep them clean and the air fresh. Duckboard should be removed from the sauna, the sauna floor mopped and dried in a conventional manner, and the duckboard thoroughly scrubbed and dried before returning to the sauna room. The sauna heater should be wiped down occasionally with a damp cloth to remove lint and dust. The rocks should be removed once a year for cleaning and small or crumbled rocks replaced.

To clean and remove perspiration stains, use soap or detergent in warm water, best applied with a scrub brush. Badly soiled surfaces may require sanding. Sand paper wrapped around a wooden block works well.

Benches and supporting structure must be inspected annually for potential deterioration due to age, dry rot or abuse. Any boards with signs of deterioration should be replaced immediately to avoid possible injury.

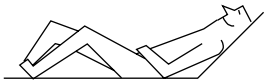
SECTION 5: TROUBLESHOOTING

For troubleshooting or service questions call 1-888-780-4427 and ask to speak with Technical Support. Prior to calling please have the Model & Type # available. You may also email us at *techsupport@saunatec.com*

Shower

Sauna (10 - 15 min.)

Shower or swim



Rest (10 - 15 min.)

Relax with juice or water

Like it?
Do it again and
feel great.