

UTH-SAUNA MANUAL



FRONT



SIDE



REAR

1. LED DISPLAY

HEATING LED: THIS DISPLAYS WHEN OUTPUT IS ON.

TEMP DISPLAY WINDOW: THE PRESENT TEMP IS DISPLAYED.

(BY PUSHING UP /DOWN S/W, THE SET TEMP VALUE IS DISPLAYED. IF CHANGING THE VALUE, THE SET VALUE IS CHANGED AND THE PRESENT TEMP IS DISPLAY AFTER 3SEC.)

TIME DISPLAY WINDOW: THIS LED DISPLAYS THE TIME TILL MOTION IS COMPLETED AND IS ABLE TO CONTROL WITH ▼ OR ▲ KEY.

BASIC MOTIONS: SWITCH ON / OFF THE POWER WITH POWER KEY AND IF POWER OFF, OTHER KEYS DO NOT OPERATE. TIMER STARTS THE COUNT BY POWER ON AND IF TIMER IS "0", THE POWER IS OFF UNCONDITIONALLY.

(BEFORE 10SEC PRIOR TO CLOSING A RESERVATION, BUZZ SOUNDS FOR 3TIMES)

2. ERROR DISPLAY

IF SENSOR IS SHORT OR SNAPPED, OUTPUT IS BROKEN UNCONDITIONALLY.

EO: IT IS CAUSED BY THE SHORT OF TEMP SENSOR. = **EO** FLICKERS AND OUTPUT OFF (BUZZ SOUNDS)

ES: IT IS CAUSED BY THE SNAPPING OF TEMP SENSOR = **ES** FLICKERS AND OUTPUT OFF (BUZZ SOUNDS)

OHT: IT IS CAUSED BY ERROR IN OVERHEATING SENSOR = **OHT** FLICKERS AND OUTPUT OFF (BUZZ SOUNDS)

* ALL THESE ARE DISPLAYED ON THE TEMP DISPLAY WINDOW.

3. LOCK FUNCTION

IF PUSH UP/DOWN KEYS FOR TIME SET FOR 3SEC SIMULTANEOUSLY, LOCK FUNCTION IS SET WITH BUZZ SOUND.

IN THIS CASE, ANY KEY WILL NOT WORK EXCEPT POWER ON/OFF KEY.

FOR CANCELLING LOCK, DO THE SAME TO METHOD FOR LOCK.

4. FUNCTION MOTIONS

BY PUSHING UP/DOWN BUTTONS FOR SET TEMP FOR 3SEC SIMULTANEOUSLY, "**STN**" – START OF FUNCTIONS – IS DISPLAYED. THEN BY PUSHING UP BUTTON, **SEN-TIN-DPY** IS DISPLAYED. IN CASE A MENU TO BE WISHED SET, PUSH UP/DOWN BUTTONS SIMULTANEOUSLY.

- **SEN**: IT WORKS BY SENSOR (THE RANGE OF TEMP SHOULD BE SET AS THE BELOW RANGE TABLE OF TEMP SET.
- **TIN**:FUNCTION FOR SET THE TIME OF TIMER
PUSH UP/DOWN BUTTON SIMULTANEOUSLY
- ① LTH: RNAGE OF TIME BY USING UP/DOWN BUTTON
IF COMPLETING THE DESIRED TIME SET (01-90MIN), PUSH AGAIN UP/DOWN BUTTONS SIMULTANEOUSLY.
- ② INT=FUNCTION FOR SETTING THE RANGE OF RESERVATION TIME (POSSIBLE TO SET 1-30MIN BY THE UNIT OF 1MIN., 5MIN., 10MIN., ... 30MIN.) IF COMPLETING THE DESIRED TIME SET, PUSH AGAIN UP/DOWN BUTTONS SIMULTANEOUSLY. THEN THE PRESENT TIME IS DISPLAYED AND START TO WORK.
- **DPY**: IF DPY IS DISPLAYED, PUSH AGAIN UP/DOWN BUTTONS SIMULTANEOUSLY. THEN, 1DT IS DISPLAYED AND 1DT-2DT-3DT-4DT IS THE ORDER OF DISPLAY.

5. HOW TO SET TIME

IT IS POSSIBLE TO SET AND CHANEE TIME WITH THE SET VALUE IN **TIN** AS THE ABOVE.

EX) LTH: IF SET 90MIN., INT=10MINS, BY PUSHING UP OR DOWN BUTTON IN THE RIGHT OF TIME WINDOW, THE TIME DISPLAY IS SET BY 10MIN TILL 90MIN. IF UP OVER 90MIN., "ON" IS DISPLAYED (ON=KEEPING THE STATE OF "ON") BY COMPLETED THE DESIRED TIME, FROM THE TIME, THE SET TIME IS COUNTED AND WORKED. BEFORE 10SEC, BUZZ SOUNDS FOR 3TIMES.

RANGE TABLE OF TEMP SET

CLASSIFICATION	DISPLAY	BASIC SET	SCOPE OF SET	EXPLANATION OF MOTIONS
FUNCTION CLASS.	STN	2DT	SEN,TIN, DPY	SEN-SENSOR METHOD, TIN-TIMER SET, DPY -DISPLAY METHOD (2DT)
AIR COOLING/HEATING	H-C	HH	HH,CC	HH-HEATING DISPLAY , CC-AIR COOLING DISPLAY
MIN. TEMP SET	T-L	05℃	05℃~120℃	SET THE LOWEST TEMP VALUE IN THE TEMP ZONE
MAX. TEMP SET	T-H	120℃	05℃~120℃	SET THE HIGHEST TEMP VALUE IN THE TEMP ZONE
TEMP DEVIATION SET	DIF	0℃	0℃--5℃	ON/OFF IN THE DEVIATION OF SET AND PRESENT TEMP
OUTPUT DELAY TIME	DLY	20SEC	1SEC--60SEC	IN CASE OUTPUT IS ON, OUTPUT DELAYS AS MUCH AS THE TIME
OVERHEATIG CHANGE FUNCTION	OHT	120℃	UNDER MAX. TEMP -- 120℃	IN CASE OF EXCEEDING SET VALUE, OUTPUT IS BROKEN. (OHT FLICKERS)
BASIC RESISTANCE VALUE	RES	00	-50-- 50	BASIC RESISTANCE VALUE FOR IMPROVING THE ACCURACY OF TEMP ZONE

MODEL: UTH-SAUNA SPEC

CLASSIFICATION	ITEM		SPECIFICATIONS
POWER UNIT	RATED INPUT VOLTAGE		85VAC~265VAC (UNIVERSAL VALTAGE)
	OUTPUT VOLTAGE		85VAC~265VAC(UNIVERSAL VALTAGE)
	DRIVE METHOD		ELECTRONIC
	MAX. OUTPUT		6KW
	LOAD	NO. OF CIRCUIT	1CIRCUIT
		MAX. CAPACITY	WITHIN 27A (RESISTANCE LOAD)
OUTPUT VOLTAGE		85VAC~265VAC (SAME TO INPUT VOLTAGE)	
ACCURACY	TEMP. ACCURACY	±1℃ : CONDITON OF CHANING 1℃ PER 30SEC. (DELAY OPTION:20 SEC.)	
MOTIONS	POWER INPUT DISPLAY		NUMERICAL DISPLAY
	OUTPUTDISPLAY		RED LAMP DISPLAY
	TEMP. ZONE		SELECT WITHIN ZONE OF -20℃~180℃
	OUTPUT DELAY		1~60SEC
SENSOR	KIND		NTC : NEGATIVE TEMPERATURE COEFFICIENT EPOXY MOLDING
	ACCURACY (%)		1%
	25℃ RATED RESISTANCE		5000OHM, BETA CONSTANT = 4000 ⁰ K
	QUANTITY		SENSOR 1 : FOR SENSING TEMP. SENSOR 2 : FOR CHECKING OVERHEATING (OPTION)
FUNCTION (PERFORMANCE)	SAFE DEVICE	SNAP OF SENSOR CABLE,SHORT	IF SHORT IN SENSOR CABLE, CHANGE TO TIMER OPERATION AUTOMATICALLY. IN SNAP IN SENSOR CABLE, OUTPUT IS BROKEN AUTOMATICALLY WITH ES(ERROR SHORT) DISPLAY * TIME RESERVATION: WITH TIMER. IF TIME IS OFF, CONROLLER IS OFF AUTOMATICALLY AND RETURN MANUALLY.
		OVERHEATING PREVENTION SENSOR (OPTION)	IF RAISING TEMP TILL SETTED OVERHEATING TEMP, POWER IS BROKEN AUTOMATICALLY AND OHT(OVERHEAT) IS DISPLAYED.
		RESISTANCE FOR FUSE	100OHM (FOR PROTECTING CIRCUIT IN THE THERMOSTAT)
OTHERS	OUTER CASE		NONFLAMMABLE
	WEIGHT		270G
	CASE (MM)		115(W)*115(H)*45(D)
	USE TEMP.	AIR TEMP.	0℃ ~ 40℃
		AIR HUMIDITY	UNDER 85%