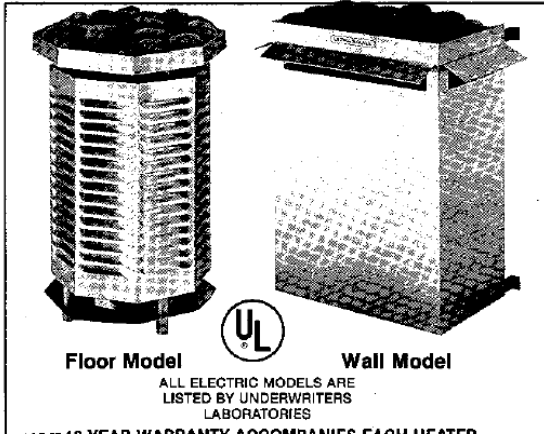
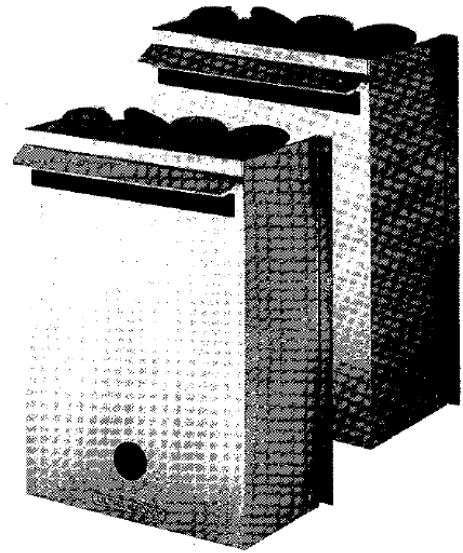


## Scandia/Vico - Sauna Heaters

Heater Model	kW	Max.	Volts	Phase	amps	Physical Size (LxWxH)	Control type
30208	3.0		208	1	14.4	16" x 10-3/4" x 23-1/4"	F (timer/thermostat)
30240-T	3.0		240	1	12.5	16" x 10-3/4" x 23-1/4"	H /thermostat on heater
30208-T	3.0		208	1	14.4	16" x 10-3/4" x 23-1/4"	H/ thermostat on heater
45240	4.5		240	1	18.8	16" x 14" x 28-3/4"	F (timer/thermostat)
45208	4.5		208	1	21.7	16" x 14" x 28-3/4"	F (timer/thermostat)
45240-T	4.5		240	1	18.8	16" x 14" x 28-3/4"	H /thermostat on heater
45208-T	4.5		208	1	21.7	16" x 14" x 28-3/4"	H/ thermostat on heater
60240	6.0		240	1	25	16" x 14" x 28-3/4"	F (timer/thermostat)
60208	6.0		208	1	28.9	16" x 14" x 28-3/4"	F (timer/thermostat)
60240-T	6.0		240	1	25	16" x 14" x 28-3/4"	H /thermostat on heater
60208-T	6.0		208	1	28.9	16" x 14" x 28-3/4"	H/ thermostat on heater
75240	7.5		240	1	31.3	16" x 14" x 28-3/4"	A2/ timer and thermostat
75208	7.5		208	1	36.1	16" x 14" x 28-3/4"	A2/ timer and thermostat
75240-T	7.5		240	1	31.3	16" x 14" x 28-3/4"	B2/thermostat on heater
75208-T	7.5		208	1	36.1	16" x 14" x 28-3/4"	B2/thermostat on heater
90240	9.0		240	1	37.5	16" x 14" x 28-3/4"	A2/ timer and thermostat
90208	9.0		208	1	43.3	16" x 14" x 28-3/4"	A2/ timer and thermostat
90240-T	9.0		240	1	37.5	16" x 14" x 28-3/4"	B2/thermostat on heater
90208-T	9.0		208	1	43.3	16" x 14" x 28-3/4"	B2/thermostat on heater
90240-3	9.0		240	3	37.5	16" x 14" x 28-3/4"	A3/ timer and thermostat
90208-3	9.0		208	3	43.3	16" x 14" x 28-3/4"	A3/ timer and thermostat
12240	12.0		240	1	50	26" x 18" x 29"	E/ optional E24
12208	12.0		208	1	57.7	26" x 18" x 29"	E/ optional E24
12240-3	12.0		240	3	29.00	26" x 18" x 29"	E/ optional E24
12208-3	12.0		208	3	33.40	26" x 18" x 29"	A3/ optional E24
15240	15.0		240	1	62.50	26" x 18" x 29"	E/ optional E24
15208	15.0		208	1	72.20	26" x 18" x 29"	E/ optional E24
15240-3	15.0		240	3	36.20	26" x 18" x 29"	E/ optional E24
15208-3	15.0		208	3	41.70	26" x 18" x 29"	E/ optional E24
18240	18.0		240	1		26" x 18" x 29"	E/ optional E24
18208	18.0		208	1		26" x 18" x 29"	E/ optional E24
18240-3	18.0		240	3		26" x 18" x 29"	E/ optional E24
18208-3	18.0		208	3		26" x 18" x 29"	E/ optional E24
Upgrade to 24-hour time clock (for all models above)							
Heater Model	BTU					Physical Size (LxWxH)	Control type
240 GAS	40 K					18"1/2 x 21" 28"	G/ optional G24
245 GAS	40 K					18"1/2 x 21" 28"	G/ optional G24
280 GAS	80 K					29" x 33" x 40"	G/ optional G24
285 GAS	80 K					29" x 33" x 40"	G/ optional G24
<b>Set of extensions</b>							
240/ 245 models:							
280/285 models:							
Upgrade to 24-hour time clock							

# Ultra Sauna Electric Heaters



Floor Model

Wall Model

ALL ELECTRIC MODELS ARE LISTED BY UNDERWRITERS LABORATORIES

10 YEAR WARRANTY ACCOMPANIES EACH HEATER

When there is a cluster of elements in the heater, the velocity of air movement is much less. Each element radiates heat waves against the other, forcing them to operate at much higher temperatures than the convection type described above.

The heaters are constructed of heavy gauge 300 series stainless steel throughout to prevent rust, corrosion, or burn-through from moisture and high temperatures. They are designed to enable you to spray as much water on the imported high density rocks as necessary to obtain the desired amount of steam. Excess water cannot run through the rocks to the heating elements and necessitate costly replacements. Traditionally, the Finnish people have thrown water on the hot rocks; among American users this is also the most popular way to use the SAUNA. However, a few people prefer hot dry air, thus the ULTRA SAUNA unit is designed for dual purpose use.

After years of research Vico Products Mfg. Co., Inc. found it necessary to design a complete line of convection air flow Sauna Heaters to avoid the necessity of relying on a fan to keep air moving over the heating elements, to insure their longer life. This is accomplished by creating a channel using stainless steel on each side of each heating element. By restricting the air space the cold mass of air forces the warm air out at a high velocity, thus you are assured of a trouble-free, quiet operating unit by natural forces.

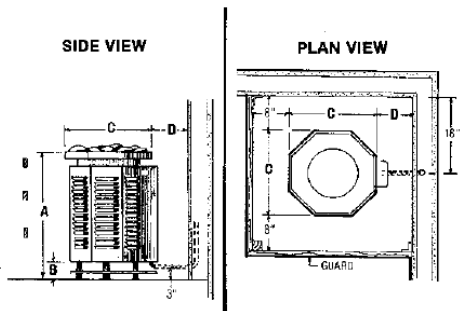
FLOOR MODEL	WATTS	VOLTS	AMPS	SIZE	A	B	C	D
390	9000	240	37.5	18 1/2" x 28"	28"	4"	18"	8"
395	9000	208	43.3	18 1/2" x 28"	28"	4"	18"	8"

The two ULTRA SAUNA floor models are 9000 watts only. One at 240, the other at 208 volts. This model has a larger rock container than the wall model.

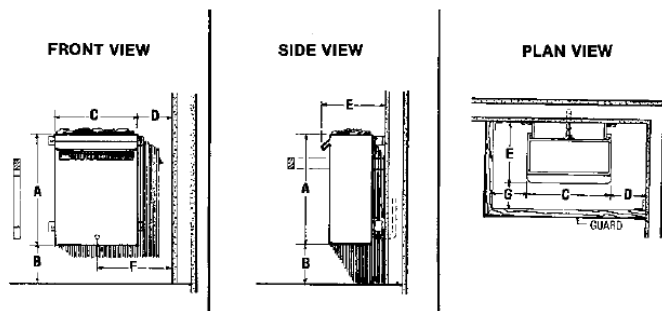
WALL MODELS	SIZE	A	B	C	D	E	F	G
18120	10 3/4" x 16" x 23 1/4"	23 1/4"	10"	16"	5"	10 3/4"	13"	5"
3000 SERIES	10 3/4" x 16" x 23 1/4"	23 1/4"	10"	16"	5"	10 3/4"	13"	5"
4500 SERIES	14" x 16" x 28 3/4"	28 3/4"	10"	16"	5"	14"	13"	5"
7500 SERIES	14" x 16" x 28 3/4"	28 3/4"	10"	16"	5"	14"	13"	5"
9000 SERIES	14" x 16" x 28 3/4"	28 3/4"	10"	16"	5"	14"	13"	5"
12000 SERIES	18" x 26" x 29"	29"	10"	26"	9"	18"	22"	9"
15000 SERIES	18" x 26" x 29"	29"	10"	26"	9"	18"	22"	9"
18000 SERIES	18" x 26" x 29"	29"	10"	26"	9"	18"	22"	9"

All wiring to heater in sauna room must be rated for at least 90°C (194°F). Heater must be specified distance from corner wall. (See drawings.)

## FLOOR MODELS



## WALL INSTALLATION MODELS



# Ultra Sauna Gas Heaters

The heart of the SAUNA is its heater. The ULTRA SAUNA by Vico Products Mfg. co., Inc. is the ultimate in this field.

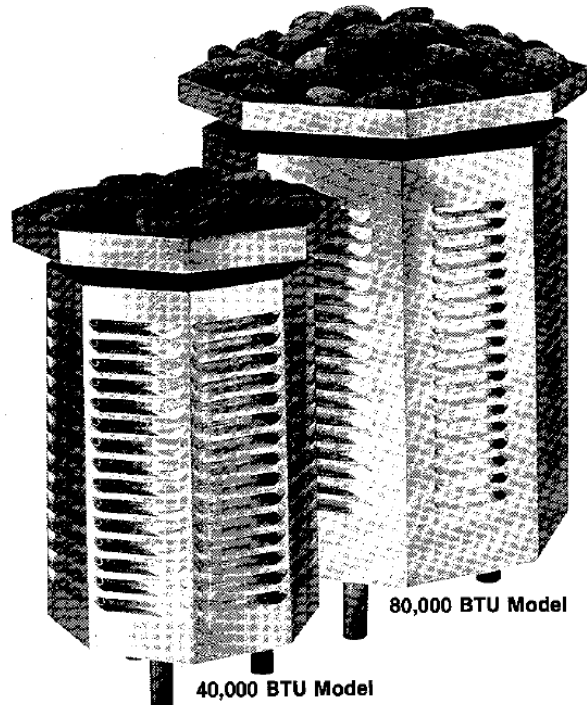
The Ultra Sauna gas fired heaters are designed for rooms with little ventilation. They are sealed combustion heaters with no gas or flue connections made inside the sauna; therefore the possibility of oxygen depletion or flue products leaking into the sauna are eliminated. No flue is necessary when venting through an outside wall; a stainless steel flue cap is furnished. The combustion chamber is made of heavy gauge, type 321 stainless steel which is designed specifically for high temperatures; it withstands prolonged, intense heat. (Other typical uses of 321 stainless steel are: jet afterburners, exhaust manifolds, fire wall and stack liners.)

All parts of the Ultra Sauna gas fired heaters are constructed of 300 series stainless steel to prevent rust or corrosion from the moisture and high temperatures to which they are exposed. The heaters are designed to allow as much water on the imported high density rocks as necessary to obtain the desired amount of steam. Water cannot run through to the burner or floor because the rocks are placed in the cone shaped top of the sealed combustion chamber.

The ULTRA SAUNA 40,000 BTU gas fired heater has the approximate BTU output rating of a 9,000 watt electric heater. The ULTRA SAUNA gas fired heaters have received private laboratory and International Conference of Building Officials approvals. The 80,000 BTU, Model 280-285 heater, has the same basic design as the 40,000 BTU only larger to accommodate 450 pounds of rocks.

## GAS HEATER SPECIFICATIONS

- Heater has to be a 40,000 BTU (80,000 BTU) sealed combustion type, with no gas or flue connections made inside the sauna.
- The combustion chamber to be made of 18 gauge (16 gauge) type 321 stainless steel. All other parts of heater must be a 300 series stainless steel.
- Sauna heater must be a dual purpose unit to allow the alternate use of rock steam and dry heat; container holding rocks must be cone shaped and leakproof.
- Through the wall venting system must be furnished with heater.
- Heater must be supplied with all controls necessary to operate unit; a remote bulb thermostat, and time switch to shut off heat automatically.
- Heater must have a built-in thermal cutout to protect against overheating.
- Heater must have an International Conference of Building Officials approval.



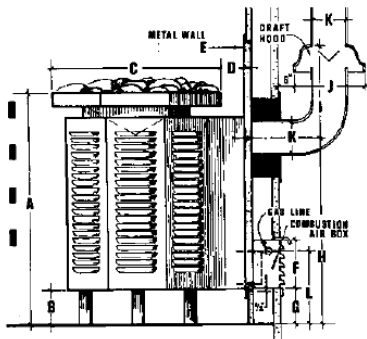
## GAS HEATERS ARE SUPPLIED WITH:

- Through-the-wall vent; consists of insulated metal back-up wall and stainless flashing inside sauna. Attached and fitting in 2 x 4 stud wall are buckets for flue and the housing for combustion air and burner assembly.
- Gas burner assembly with 100% safety shut-off gas valve and pilot generator.
- Flue cap or elbow and drafthood
- 25ft. of millivolt wire
- Pilot lighter rod
- Recessed control box and cover contains thermostat and a 60 min. timer. A 24 hour time clock can be substituted.
- Thermostat and 60 min. timer-use control "F" thermostat and 24 hour time clock-use control "C" or "D."
- Stainless steel thermostat bulb cover
- Rocks
- Door plaque giving instructions for use of sauna.

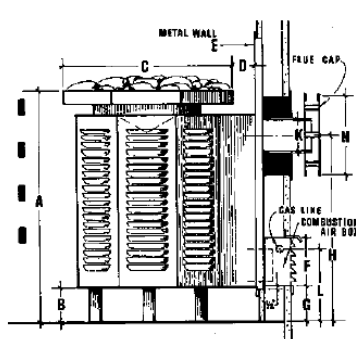
All ULTRA SAUNA gas fired heaters have received private laboratory and International Conference of Building Officials approval.

MODEL	HEATER	MAX. RM. SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
240 245	40,000	8 x 11 x 7	28"	4"	18½"	2½"	21" x 33"	8¼" x 13¼"	3½"	24½"	14"	7"	4"	10¼"	7"	9"	8"
280 285	80,000	12 x 20 x 7	40"	6"	29"	4"	33" x 45"	8¼" x 16¼"	5½"	32"	20"	12"	6"	12¼"	11"	12"	12"

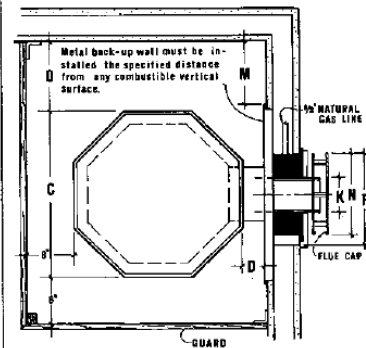
INSIDE WALL INSTALLATION



OUTSIDE WALL INSTALLATION  
(No flue necessary)













PLAN VIEW



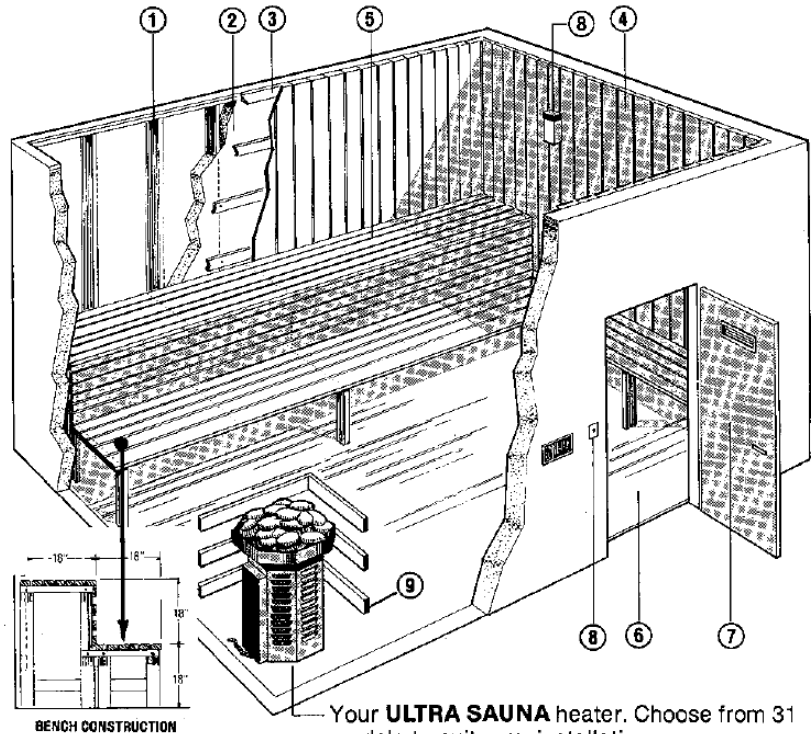
10 YEAR WARRANTY ACCOMPANIES EACH HEATER



## Ultra Sauna controls

 <p><b>A.</b> Contactors, thermostat &amp; 90 min. timer. For: 7500 &amp; 9000 watt heaters.</p>	 <p><b>B.</b> Contactors &amp; 60 min. timer. For: 7500 &amp; 9000 watt wall mounted heaters.</p>
 <p><b>C.</b> Thermostat &amp; 24 hr. time clock (behind cover). For: 3000, 4500, 6000 &amp; gas fired heaters.</p>	 <p><b>D.</b> Thermostat &amp; 24 hr. clock For: 3000 thru 6000 watts &amp; gas fired. Knob for thermostat showing.</p>
 <p><b>A2</b> Contactors, thermostat &amp; 60 min. timer. For: 12,000, 15,000 &amp; 18,000 watt heaters.</p>	 <p><b>F.</b> Thermostat &amp; 60 min. timer.</p>
 <p><b>H.</b> 60 minute timer.</p>	 <p><b>C2.</b> Contactors, &amp; 24 hr. time clock. (All behind cover) For: 7000, 9000, 12,000, 15,000, &amp; 18,000 watt heaters.</p>
 <p><b>K2.</b> Contactors, 24 hr. time clock &amp; 60 minute timer.</p>	 <p><b>E2.</b> Contactors, thermostat &amp; 24 hr. time clock. For: 7000, 9000, 12,000, 15,000, &amp; 18,000 watt heaters. Thermostat knob showing.</p>

## General Guidelines for Room Construction



Your **ULTRA SAUNA** heater. Choose from 31 models to suit your installation.

- 1. FRAMING** Framing your sauna room with straight dry 2"x4" structural lumber or metal studs as required to satisfy local fire codes. Studs 16" on centers to fit fiberglass insulation. Ceiling should be 7'0" high. Strip with 2"x4"s horizontally if walls are brick or cement block, not over 24" centers to fit 23" fiberglass.
- 2. INSULATION** Insulate ceiling and walls with 3½" fiberglass batts, aluminum foil one side. Staple tabs to face of studs.
- 3. STRIPPING** After walls are insulated, nail 5—1"x4"s horizontally on each wall. Then blind nail or staple T & G boards vertically.
- 4. WOOD LINING** Walls, ceiling and door in sauna room lined with T & G kiln dried clear heart or 'A' grade redwood, red cedar, spruce, etc. Nail through the tongue only, using staples or galvanized finishing nails. Any exposed nail heads should be set at least ¼". Solid wood floors are not recommended because of moisture and cleaning problems.
- 5. BENCHES** Use tier type. Top tier 18" or 24" wide—36" off floor. Bottom tier 18" wide—18" off floor. Made of 2"x3" with ½" spacing secured to 2"x3" understrip with ¼"x3½" lag bolts. Legs to be 2"x3" upright with 2"x3" angle braces. Legs not to exceed 5' apart. All parts to be secured by ¼" lag screws.
- 6. DUCKBOARDS** Walk area covered with 1"x3" with ½" spacing secured with #8 flathead wood screws to 1"x3" back strip.
- 7. DOOR** The door must open out for safety. Recommended door size 2'x6'x1½"; solid core with 1—8"x4" vent located 6" from top of door. All cut-outs in door should be sealed. A window may be installed in door. Door closer to be #48 snigger located at top of door. Wood door handle inside and dummy knob outside to match other hardware. Do not use door knob with latch.
- 8. LIGHT** Must be vaportight. Wire must be rated for at least 90°C. Light switch should face outside.
- 9. GUARD** Must be specified distance away from heater as shown in plan view diagrams on pages 2 and 3 of this brochure. Guard rails for floor models are made of 1" x 3" wood slats spaced 5" apart with 2" x 2" corner post. Top rail to be approximately 30" above floor.

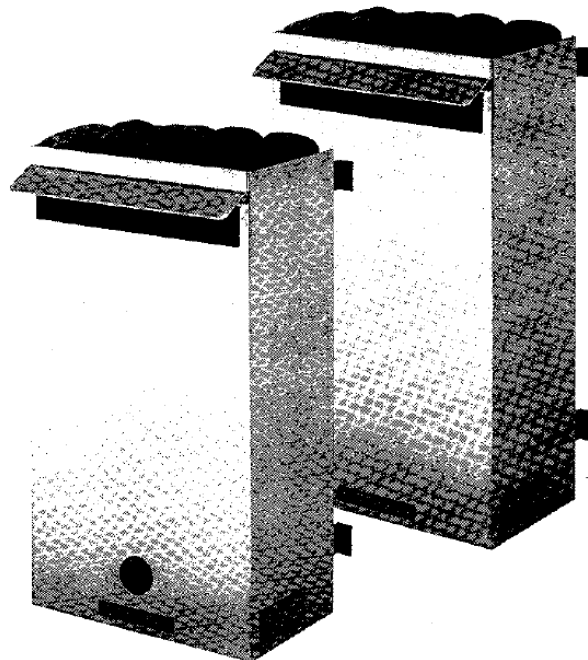
Wall models constructed with 2" x 3's L shaped with 2" x 3" angle brace.

**VICO**

The twenty-five ULTRA SAUNA wall mounted models range from 1800 to 18,000 watts; they come in one of three physical sizes, and are the most compact in design. The larger sizes are available in single or three phase. All sizes can be obtained in either 240 or 208 volts. See chart below. Models 18120 through 90208-3 can have thermostat remote or installed in heater. Larger models have only remote thermostats.

The maximum room size for each model heater is based on a heat-up time from 60° to 180° in 45 minutes.

If a 12 to 15 minute heat-up time is desired, specify the next larger size heater.



### ELECTRIC HEATER SPECIFICATIONS

- Heater must be convection air flow type not radiant or fan driven
- Heating elements to have 25 watts per square inch or less
- Heater to be constructed of heavy gauge, 300 series stainless steel throughout
- Sauna heater must be a dual purpose unit to allow the alternate use of rock steam and dry heat; container holding rocks must be leakproof allowing no water to run through to the heating elements
- Heater must have a manual reset high limit to protect against overheating
- All controls necessary to operate the unit must be supplied with heater; a heavy duty contactor, a remote bulb thermostat, and a time switch to shut off heat automatically
- Heater must be listed by Underwriter's Laboratories.

Choose your Ultra Sauna electric heater from one of 27 models listed in this chart.

MODEL	WATTS	VOLTS	AMPS	PHASE	SUPPLY WIRES 1 WIRE GROUND	MIN. ROOM SIZE 6'6" HIGH	MAX. ROOM 7' HIGH	CONTROL COVER SEE PAGE 6	CONDUIT FROM CONTROL BOX TO HEATER	CIRCUIT PROTECTION	WIRES FROM CONTROL BOX TO HEATER	SIZE	SHIPPING WEIGHT	
30240 *	3000	240	12.5	1	3#14	12.2 Sq. ft.	4 x 5	F/C/D w/therm. H	1/2	20	3#14	16 x 10 1/4 x 23 1/4	58 lbs.	
30208 *	3000	208	14.4	1	3#14	12.2 Sq. ft.	4 x 5		1/2	20	3#14			
45240 *	4500	240	18.8	1	3#10	12.2 Sq. ft.	5 x 6	F/C/D w/therm. H	3/4	30	3#10	16 x 10 1/4 x 23 1/4	58 lbs.	
45208 *	4500	208	21.7	1	3#10	12.2 Sq. ft.	5 x 6			3/4	30			3#10
60240 *	6000	240	25.0	1	3#10	31.4 Sq. ft.	6 x 7	F/C/D w/therm. H	3/4		3#10	16 x 14 x 28 1/2	80 lbs.	
60208 *	6000	208	28.9	1	3#10	31.4 Sq. ft.	6 x 7			3/4	40			3#10
75240 *	7500	240	31.3	1	3#8	31.4 Sq. ft.	8 x 8	A/C/D w/therm. B/C	1	40	3#8 2#14	16 x 14 x 28 1/2	80 lbs.	
75208 *	7500	208	36.1	1	3#8	31.4 Sq. ft.	8 x 8			1	50			3#8 2#14
90240 *	9000	240	37.5	1	3#8	31.4 Sq. ft.	8 x 11	A/C/D w/therm. B/C	1	50	3#8 2#14	16 x 14 x 28 1/2	80 lbs.	
90240-3 *	9000	240	21.7	3	4#10	31.4 Sq. ft.	8 x 11			1	30			4#10 2#14
90208 *	9000	208	43.3	1	3#6	31.4 Sq. ft.	8 x 11			1	60			3#8 2#14
90208-3 *	9000	208	25.0	3	4#10	31.4 Sq. ft.	8 x 11			1				4#10 2#14
390	9000	240	37.5	1	3#8	30.3 Sq. ft.	8 x 11	A/C/D	1	50	3#8 2#14	18 1/2 x 21 x 28	132 lbs.	
395	9000	208	43.3	1	3#6	30.3 Sq. ft.	8 x 11			1	60			3#8 2#14
12240	12000	240	50.0	1	3#6	51.3 Sq. ft.	10 x 14	E/I/J/K	1	60	7#10 2#14	26 x 18 x 29	132 lbs.	
12240-3	12000	240	29.0	3	4#8	51.3 Sq. ft.	10 x 14			1	40			7#10 2#14
12208	12000	208	57.7	1	3#4	51.3 Sq. ft.	10 x 14			1 1/2	70			7#10 2#14
12208-3	12000	208	33.4	3	4#8	51.3 Sq. ft.	10 x 14			1	50			7#10 2#14
15240	15000	240	62.5	1	3#4	51.3 Sq. ft.	12 x 17	E/I/J/K	1	70	7#10 2#14	26 x 18 x 29	132 lbs.	
15240-3	15000	240	36.2	3	4#8	51.3 Sq. ft.	12 x 17			1	50			7#10 2#14
15208	15000	208	72.2	1	3#2	51.3 Sq. ft.	12 x 17			1 1/2	90			7#10 2#14
15208-3	15000	208	41.7	3	4#6	51.3 Sq. ft.	12 x 17			1	50			7#10 2#14
18240	18000	240	75.0	1	3#2	51.3 Sq. ft.	12 x 20	E/I/J/K	1 1/2	90	7#10 2#14	26 x 18 x 29	132 lbs.	
18240-3	18000	240	43.4	3	4#6	51.3 Sq. ft.	12 x 20			1 1/2	60			7#10 2#14
18208	18000	208	86.6	1	3#2	51.3 Sq. ft.	12 x 20			1 1/2	100			7#10 2#14
18208-3	18000	208	50.0	3	4#6	51.3 Sq. ft.	12 x 20			1 1/2	60			7#10 2#14

\*THERMOSTAT CAN BE INSTALLED ON HEATER - ADD "T" TO THE MODEL NUMBER, AND ADD 1 EXTRA #14 WIRE FROM CONTROLS TO HEATER.

ALL MODELS DUAL PURPOSE rock steam or dry heat

**VICO**  
PRODUCTS MFG. CO. INC.