

## SUGGESTIONS FOR STEAM ROOM DESIGN AND STEAM GENERATOR SELECTION ROOM DESIGN (CR SERIES):

1. Avoid using construction materials which may corrode or decay.
2. All inside surfaces must be completely sealed. All openings where shower head, faucets and steam heads enter the steam room should be sealed with a mildew resistant silicone.
3. Ceiling and seats may be slightly sloped to allow condensate to runoff.
4. Provide a floor drain to allow condensed and other water to drain.
5. Ceiling height should be limited to a maximum of 8 ft., preferably 7 ft. The ceiling slope should have a rise of 150 mm per 1000 mm run.
6. The steam room must be totally enclosed. When closed, the door must be sealed across the top and down both sides, but there should be a gap of approximately 3/4 to 1 inch at the bottom of the door.
7. Ceiling vents are not recommended. If vents and ducts are used they must be of non-ferrous material and be equipped with a damper.
8. Insulation should be a maximum R12. Too much insulation, especially in the ceiling, may cause the room to heat too quickly and not allow the steam to condense properly.
9. The steam generator must be in an area where it will be accessible, dry and where it will not freeze. The copper steam line(s) should always slope to either the generator or the steam head(s) so as not to form any trap where condensate can accumulate.
10. Skylights and exterior windows are not recommended as they are heat loss sources. If they are used they must be double pane and be able to withstand the heat of the steam room.

### STEAM GENERATOR SELECTION:

To select the proper size of steam generator, add the cubic footage of the shower with the appropriate adjustment to determine the calculated cubic footage:

1. Length X Width X Height = CUBIC FOOTAGE. Do not deduct for seating.
2. Add appropriate adjustment to account for heat loss through materials:

|  |                     |      |
|--|---------------------|------|
| Acrylic or Fibreglass .....                      | No adjustment       |      |
| Ceramic tile, Cultured marble.... (1/4") .....   | +                   | 30%  |
| Ceramic tile .....                               | (3/8" or thicker) + | 100% |
| Glass or glass block wall .....                  | +                   | 15%  |
| Natural stone or 1/2" thick material .....       | +                   | 100% |
| Steam lines over 25 ft. (insulate heavily) ..... | +                   | 25%  |
| Cast iron tub .....                              | +                   | 25%  |
| Exterior walls subject to freezing .....         | +                   | 30%  |

*Example:*

*A steam room is 6' width x 8' long x 7.5' high with 1/4" ceramic tile.  
6'x8'x7.5' = 360 cubic feet  
+ 30 % (for 1/4" ceramic tiles) = 468 cubic feet*

*For a room this size, we would recommend our model CR-12 for rooms up to 545 calculated cubic feet.*

3. Select the generator that corresponds to your calculated cubic footage:

|                                   |                    |                    |                    |                    |
|-----------------------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Model Number</b>               | <b>CR-9</b>        | <b>CR-11</b>       | <b>CR-12</b>       | <b>CR-14</b>       |
| <b>Maximum calculated cu. ft.</b> | <b>375 cu. ft.</b> | <b>460 cu. ft.</b> | <b>545 cu. ft.</b> | <b>630 cu. ft.</b> |

4. Line voltage must be specified when ordering. Single family dwellings usually have 240 Volts AC while condominiums usually have 208 Volts AC. **Note: Use Copper Wire Only.**

### DISCLAIMER

The above information represents suggestions only. Each steam room is unique. RELAX-A-MIST manufactures steam generators only and therefore cannot warrant information given regarding steam room materials or construction techniques. Final selection of the steam room temperature setting and the duration of stay, is at the discretion of the operators or owners.