

Spa Luxury In Your Own Home

Insignia Steam Generators

Steam Generator Sizing Guide & Calculations



Commercial Steam Generator Sizing

Please follow the steps below and use the look-up table to establish the correct size of the Insignia Steam Generator required for your steam room.

Step 1.

Calculate your room size by multiplying the length x width x height, in feet, to establish your cubic footage.

Step 2.

Adjust the cubic feet size from step 1 to take into account the materials being used in your steam room.

- For natural stone or marble multiply the cubic footage from step 1 by 2.0
- For ceramic, porcelain, or glass blocks and tiles multiply the cubic footage from step 1 by 1.35
- If using any other material for your steam room, please consult the manufacturer for their recommendations in a steam room environment

Step 3.

To take into consideration any exterior walls.

- For no exterior wall, make no additional calculation at this stage
- For 1 exterior wall multiply the adjusted figure from step 2 by 1.1
- For 2 exterior walls multiply the adjusted figure from step 2 by 1.2
- For 3 or more exterior walls please contact Insignia direct for guidance

Step 4.

Make a final adjustment based on your ceiling height.

- For ceilings up to 8 feet, make no additional calculation at this stage
 - For ceilings between 8 feet and 9 feet multiply the adjusted figure from step 3 by 1.15
 - For ceilings between 9 feet and 10 feet multiply the adjusted figure from step 3 by 1.3
 - For ceilings above 10 feet please contact Insignia direct for guidance
- You will now have your adjusted steam room cubic capacity to establish the correct Insignia Steam Generator for you

Example:

The following example calculations are based on a steam room measuring 5 feet long x 6 feet wide x 8 feet high. The walls are marble and there is 1 exterior wall:

- Step 1. Cubic footage: $5 \times 6 \times 8 = 240$ cubic feet
- Step 2. Materials adjustment: $240 \text{ cubic feet} \times \text{marble } 2.0 = 480$ cubic feet
- Step 3. Exterior wall adjustment: $480 \text{ cubic feet} \times \text{one exterior wall } 1.2 = 528$ cubic feet
- Step 4. Ceiling adjustment: Ceiling height is 8 feet so no additional adjustment is required
- Adjusted cubic footage for this steam room = 528

Finally, using your completed adjusted cubic footage figure as guidance, use the look-up table included to establish the best Insignia Steam Generator for your steam room:

Adjusted Cubic Foot Range	Steam Generator Size	Steam Generator Product
Up to 125 cubic feet	3Kw Steam Generator	3kW HomeFit System
125 - 250 cubic feet	6kW Steam Generator	6kW Steam Generator
250 - 325 cubic feet	7.5kW Steam Generator	Signature 7.5kW Steam Generator
325 - 400 cubic feet	9kW Steam Generator	9kW Steam Generator
400 - 475 cubic feet	10.5kW Steam Generator	Signature 10.5kW Steam Generator
475 - 575 cubic feet	12kW Steam Generator	Signature 12kW Steam Generator
575 - 700 cubic feet	15kW Steam Generator	Signature 15kW Steam Generator
700 - 825 cubic feet	18kW Steam Generator	Signature 18kW Steam Generator

Important Notes:

- If your steam room has a skylight or outside window, please select the next largest size generator to compensate
- Any skylights or outside windows must be double-pane and sealed from the inside
- Generator voltage must match existing local utilities - 240 volt or 380 volt for 3 phase connections
- For optimal performance, ceiling height should not exceed 8 feet (10 feet max)

Should your final calculation fall outside the data provided on the table, please call Insigna direct on 01908 317 512 for advice on your requirements.