The optimal levels of relative humidity in your home fluctuate with the changes in outdoor temperature. An Aprilaire automatic humidifier continually monitors and responds to both outdoor temperatures and indoor relative humidity, delivering optimum levels of humidity throughout your home. You never have to monitor your settings or wait until you feel uncomfortable. The automatic set-it-and-forget-it control keeps your home’s humidity level exactly where you want it.

A whole-home system is installed out of your living space as part of your heating system, providing quiet operation without the need for a drain. Aprilaire automatic humidifiers can be installed in manual mode, while still delivering the accuracy and performance of automatic humidifiers. Automatic control reduces the need for manual monitoring, and gives you the freedom to focus on the things that are important to you.

For the ultimate in quality, performance, reliability and sustainability:

For the very best whole-home comfort.

Ask for Aprilaire, Fresh Ideas for Indoor Air.

Aprilaire Humidifier Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Unit Size (W x H x D)</th>
<th>Capacity</th>
<th>Electrical Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>15-3/8W x 15-3/4H x 10-1/4D 6” dia. round opening</td>
<td>1.3 gpd</td>
<td>11.5 AMP 24V-60Hz</td>
</tr>
<tr>
<td>500</td>
<td>10W x 12-3/4H</td>
<td>5.2 gpd</td>
<td>11.5 AMP 24V-60Hz</td>
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<tr>
<td>700</td>
<td>14-3/4W x 14-5/16H</td>
<td>17 gpd</td>
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Aprilaire offers a full line of comfort accessories that improve indoor air quality throughout your home. Humidifiers, Dehumidifiers, Air Cleaners, Zoned Comfort Control®, Thermostats and Ventilation. For the very best whole-home comfort. Ask for Aprilaire, Fresh Ideas for Indoor Air.

CONTINUOUS AUTOMATIC CONTROL – 24/7

Whole-Home Humidifiers

What you should look for in a humidifier

1. **Continuous Automatic Control** – 24/7
   - The optimum levels of relative humidity in your home fluctuate with the changes in outdoor temperature. An Aprilaire automatic humidifier continually monitors and responds to both outdoor temperatures and indoor relative humidity, delivering optimum levels of humidity throughout your home. You never have to monitor your settings or wait until you feel uncomfortable. The automatic set-it-and-forget-it control keeps your home’s humidity level exactly where you want it.

2. **Whole-Home Capacity**
   - An installed Aprilaire whole-home humidifier adds the right amount of soothing moisture to your entire home. To achieve the same effect with a portable unit, you would need to place one in every room of your house.

3. **Minimal Maintenance, Total Convenience**
   - To maintain the performance of a portable unit, you must continually monitor the tank levels and clean and fill it regularly. A whole-home system is installed out of your living space as part of your heating system, providing quiet operation without the need for a drain.

4. **Reliability**
   - A good humidifier operator so that working parts are not affected by the buildup of mineral deposits. Aprilaire humidifiers are designed so that the working parts are replaced every humidifier season, eliminating the requirement to clean and scrub vital components, increasing performance and reliability.

There’s no need to experience the discomfort, health problems or damage to your home and furnishings caused by air that is too dry. Install an Aprilaire whole-home humidifier with Automatic Digital Control and you’ll never worry about proper humidity levels in your home again.

www.aprilaire.com
The air inside your home is drier than you think.

Your home could be as dry as the Sahara Desert!

Relative humidity (RH) indicates the amount of water vapor, in percent, actually in the air compared to the maximum amount that the air could hold under the same conditions. The lower the percent, the more moisture the air can hold.

As the home heated to 70˚F for 7 days about eight grains of moisture per cubic foot. That is 100% RH. If it is more than 8 grains per cubic foot in the home, this is 50% or less or approximately 25%.

Dry air robs the moisture from your skin, making you feel colder, which means you can feel more uncomfortable. Dry air also dries the framing around doors and windows, resulting in gaps that let cold air in from outside, making your home less energy-efficient.

Proper humidity is a key factor to staying healthy in winter. By keeping your sinuses and airways moist, you reduce the potential for bacteria and viruses to enter your body. Aprilaire humidifiers are proven most effective at providing optimum levels of humidity.

Preserve Your Home and Furnishings

The addition or reduction of moisture drastically affects the qualities, dimensions, and weights of many materials.

For example, wood, leather, paper, and cloth in general shrink. Paper, plastic, cloth, fabric, glass, and other flexible materials will actually expand the most when humidity levels fall below the optimum range. This can’t be seen, touched, or smelled. It has no color, no sound. However, when controlled properly, offers many proven benefits.

Provide total comfort

Heating your home dries out your skin. This not only makes you feel hotter but also makes you feel cold.

The cold effect is not the only discomfort caused by too dry air. Amazing static electricity is another indicator of low humidity levels. Proper relative humidity (RH) will reduce this discomfort.

Aprilaire whole-home humidifiers provide maximum comfort throughout your entire home—every hour, every day, every season, without the mess and inconvenience of portables.

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The air inside your home is dryer than you think.

If the water loss is rapid, warping and cracking can occur around doors and windows. Walls and ceilings swell as they take up water. Paper, plastic, cloth, fibers, glue, skin and practically everything in the home shrink as they lose water, and swell as they take up water. This constant change and swelling adversely affects the materials change, as constantly as the weather. This is why humidity must be added and controlled.

Air that is too dry can make you more susceptible to catching colds, flu and other infections. Otolaryngology advises getting colds, flu and other infections. Otolaryngology advises getting colds, flu and other infections. A rise in the average temperature or RH is maintained. Therefore, proper inside RH may reduce the chance of portables.

Ask Your Indoor Air Quality Professional to Recommend the Right Choice for Your Home.

Digital Control

Easier to maintain

No freezing concerns

Space to mount on duct

Lowest cost to operate

Low heating system run-time

Benefits of whole-home humidification

- Provides added comfort
- Improves indoor air quality
- Reduces energy costs
- Preserves materials and finishes
- Reduces static electricity and charges
- Increases the effectiveness of your heating system
- Enhances the comfort and health benefits of your home

Aprilaire whole-home humidifiers offer a complete line of innovative products designed to improve the quality of indoor air. Aprilaire whole-home humidifiers help prevent pneumonia, asthma, allergies and other respiratory illnesses and conditions. Aprilaire whole-home humidifiers help keep your home the Green-Build Certified. Providing the National Association of Home Builders.

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The air inside your home is drier than you think.

- Heating your home dries out the air. The resulting dry air absorbs moisture from you and everything inside your home. Even newer, tighter built homes will succumb to the negative effects of air that is too dry.

- When you heat your home, indoor humidity levels fall below the optimum range. This causes you to experience the discomfort of too dry, itchy skin, annoying static electricity, and other upper respiratory ailments.

- Your home needs a humidifier.

- Humidification, the process of adding moisture to the air, is one of the most important aspects of total home comfort, yet it’s a corner of the house least understood. One reason is that humidity is intangible. It can’t be seen, touched, or smelled. It has no color, no sound. However, its presence, when controlled properly, offers many proven benefits.

- The Aprilaire Advantage

- Every home needs a humidifier.

- The American Society of Heating, Refrigeration, and Air Conditioning Engineers recommends a relative humidity between 30% and 50% to reduce the risk of mold and mildew growth, prevent dry skin, and avoid cracking of wood, surfaces, and furniture.

- Aprilaire whole-home humidifiers provide maximum comfort throughout your entire home—every room, every season, for every household member.

- HIGH ENERGY COSTS:
- Dry air robs moisture from your skin, making you feel colder, which means you turn up the heat. Dry air also drains the framing around doors and windows, resulting in gaps that let cold air in from the outside, making your home less efficient.

- APRILAIRE WHOLE-HOME HUMIDIFIERS

- Your home can be as dry as the Sahara Desert!

- Relative humidity (RH) indicates the amount of water vapor, in percent, actually in the air compared to the maximum amount that the air could hold under the same conditions. The warmer the air, the more water it can hold.

- As the temperature in your home increases, so does the humidity. For example, on a 100°F day in New York City, the indoor temperature is 80°F. The outdoor temperature is 95°F.

- What happens is that the air in your home is heated. Your furnace works to keep indoor air in the home. During the winter months, it’s very common to have outdoor RH at 10% and air temperature at −10°F. When this air is heated to 70°F, the indoor RH drops to 5%. This is much drier than desert conditions. The only solution is to add wet air vapor to the air–humidity.

- Every home needs a humidifier.

- Aprilaire humidifiers help to keep them properly humidified, it makes your home less drafty by reducing infiltration of outside air, because the cracks between the framing and the supporting structure will be reduced. With lower minimum RH, there is less cracking, reducing infiltration, thus increasing energy conservation.

- High-quality air also helps to reduce the risk of mold and mildew growth, prevent dry skin, and avoid cracking of wood, surfaces, and furniture.

- Use of Aprilaire Whole-Home Humidifiers can help to lower your thermostat.

- Humidified air also shrinks the framing and the supporting structure will be reduced. With lower minimum RH, there is less cracking, reducing infiltration, thus increasing energy conservation.

- savE Money on energy bills

- Studies suggest approximately 75% of a home’s infiltration occurs at the home’s envelope (perimeter walls, windows, and doors). A vastly different study indicates the framing around doors, windows, etc., will have less shrinkage when the proper inside RH is maintained. Therefore, proper whole-home relative humidity will reduce infiltration of outside air, because the cracks between the framing and the supporting structure will be reduced. With lower minimum RH, there is less cracking, reducing infiltration, thus increasing energy conservation.

- AVOID DRY AIR PROBLEMS
- Soften the air to make your home more comfortable in winter.

- Flexible Electrodes

- The Aprilaire Advantage

- Aprilaire offers a complete product family with a full line of humidifiers and dehumidifiers. Each Aprilaire model is designed to be energy efficient and highly effective at delivering the right levels of humidity throughout your home, however, it’s important that the right products is selected to ensure consumer satisfaction.

- For example, wood, leather, paper, and cloth all contain water. As the materials change, as constantly as the weather. This is why humidity must be added and controlled.

- APRILAIRE WHOLE-HOME HUMIDIFIERS

- Aprilaire humidifiers use water to humidify the air. There is no stream, the steam is introduced in the air stream through a dispersion tube.

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Every home needs a humidifier.

The air inside your home is drier than you think.

Heating your home dries out the air. The result: dry, absorbing moisture from your skin, nose, throat, and lungs. Even very humid, tightly built homes will succumb to the negative effects of air that is too dry.

<table>
<thead>
<tr>
<th>Humidity levels</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>20% or lower</td>
<td>Dries out your skin, nose, throat, and lungs.</td>
</tr>
<tr>
<td>30% - 40%</td>
<td>Causes dryness and discomfort.</td>
</tr>
<tr>
<td>40% - 50%</td>
<td>Causes increased susceptibility to cold or flu viruses.</td>
</tr>
<tr>
<td>50% - 60%</td>
<td>Causes dryness and discomfort.</td>
</tr>
<tr>
<td>60% - 70%</td>
<td>Causes dryness and discomfort.</td>
</tr>
<tr>
<td>70% - 80%</td>
<td>Causes dryness and discomfort.</td>
</tr>
<tr>
<td>80% - 90%</td>
<td>Causes dryness and discomfort.</td>
</tr>
<tr>
<td>90% - 100%</td>
<td>Causes dryness and discomfort.</td>
</tr>
</tbody>
</table>

The Humidification Process

1. **HUMIDIFIER**
   - Increases the humidity in the air.

2. **WATER**
   - Provides the necessary moisture.

3. **ELECTRODES**
   - Create vapor when heated.

4. **STEAM UNIT**
   - Delivers steam to the air.

5. **THERMOMETER**
   - Monitors the temperature of the steam.

6. **HUMIDIFIER PAN**
   - Holds the water for humidification.

7. **DUCT**
   - Distributes the humidified air throughout the home.

8. **FILTER**
   - Removes impurities from the water.

9. **DIGITAL CONTROL PANEL**
   - Controls the humidifier's operation.

10. **PIPING**
    - Connects the various components.

11. **WALL HANGING**
    - Provides a convenient mounting option.

12. **WATER VALVE**
    - Controls the water flow.

13. **WATER TANK**
    - Stores the water for humidification.

14. **BOILER**
    - Heats the water to create steam.

15. **HEATING SYSTEM**
    - distributes the humidified air throughout the home.

16. **VENTILATION SYSTEM**
    - Pulls fresh air into the home.

17. **EXHAUST SYSTEM**
    - Removes stale air from the home.

18. **AIR DUCT**
    - Distributes the humidified air throughout the home.

19. **CONVECTION HEATERS**
    - Heat the indoor air.

20. **FORCED AIR HEATERS**
    - Heat the indoor air.

21. **HEAT PUMPS**
    - Heat the indoor air.

22. **WATER HEATERS**
    - Heat the indoor air.

23. **GAS HEATERS**
    - Heat the indoor air.

24. **ELECTRIC HEATERS**
    - Heat the indoor air.

25. **BASEBOARDS**
    - Heat the indoor air.

26. **FLOOR HEATERS**
    - Heat the indoor air.

27. **CONCRETE FLOORS**
    - Heat the indoor air.

28. **TILES**
    - Heat the indoor air.

29. **CONSIDERATIONS**
    - Choose the right humidifier for your home.

- **HUMIDIFIER**
  - Select a humidifier that meets your needs.

- **WATER**
  - Use purified water for best results.

- **ELECTRODES**
  - Ensure proper electrode placement.

- **STEAM UNIT**
  - Ensure the steam unit is functioning correctly.

- **THERMOMETER**
  - Monitor the temperature of the steam.

- **HUMIDIFIER PAN**
  - Ensure the pan is clean and free of debris.

- **DUCT**
  - Ensure the duct is free of obstructions.

- **FILTER**
  - Replace the filter as needed.

- **DIGITAL CONTROL PANEL**
  - Adjust settings as needed.

- **WATER VALVE**
  - Check the valve for leaks.

- **WATER TANK**
  - Ensure the tank is properly filled.

- **BOILER**
  - Ensure the boiler is functioning correctly.

- **HEATING SYSTEM**
  - Ensure the heating system is functioning correctly.

- **VENTILATION SYSTEM**
  - Ensure the ventilation system is functioning correctly.

- **EXHAUST SYSTEM**
  - Ensure the exhaust system is functioning correctly.

- **AIR DUCT**
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- **CONVECTION HEATERS**
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- **BASEBOARDS**
  - Ensure the baseboards are functioning correctly.

- **FLOOR HEATERS**
  - Ensure the floor heaters are functioning correctly.

- **CONCRETE FLOORS**
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- **THERMOMETER**
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- **HUMIDIFIER PAN**
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- **FILTER**
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- **DIGITAL CONTROL PANEL**
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**What you should look for in a humidifier**

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   The optimum levels of relative humidity in your home fluctuate with the changes in outdoor temperature. An Aprilaire automatic humidifier continually monitors and responds to both outdoor temperature and indoor relative humidity, delivering optimum levels of humidity throughout your home. You need to monitor your settings or wait until you feel uncomfortable. The automatic set-in and forget it control keeps your home’s humidity level steady where you want it.

2. **WHOLE-HOME CAPACITY**
   An Aprilaire whole-home humidifier adds the right amount of soothing moisture to your entire home. To achieve the same effect with a portable unit, you would need to place one in every room of your house. To maintain the performance of a portable unit, you must continually monitor the tank levels and clean and fill them regularly. The Aprilaire whole-home humidifier can be installed out of your living space as part of your heating system, providing quiet operation without the messy tank. For your convenience, simple, easy maintenance is designed into every Aprilaire humidifier.

3. **MINIMAL MAINTENANCE, TOTAL CONVENIENCE**
   A whole-home system is installed out of your living space as part of your heating system, providing quiet operation without the need for a drain. For your convenience, simple, easy maintenance is designed into every Aprilaire humidifier.

4. **Sustainability**
   A good humidifier operates so that working parts are not affected by the build-up of mineral deposits. Aprilaire humidifiers are designed so that the working parts are replaced every humidifier season, eliminating the requirement to clean and scrub vital components, increasing performance and reliability.

   There’s no need to experience the discomfort, health problems or damage to your home and furnishings caused by air that is too dry. Install an Aprilaire whole-home humidifier with Automatic Digital Control and you’ll never worry about proper humidity levels in your home again.

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<th>Electrical Data</th>
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<tbody>
<tr>
<td>4000</td>
<td>15-29/32W x 18H x 10-11/32D</td>
<td>A. 15-3/8W x 15-3/4H x 10-1/4D 6&quot; dia. round opening</td>
<td>2.6 gpm</td>
<td>11.5 AMP</td>
</tr>
<tr>
<td>3000</td>
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<td>A. Unit Size</td>
<td>12.7 gpm</td>
<td>11.5 AMP</td>
</tr>
<tr>
<td>2500</td>
<td>10-1/2W x 12H</td>
<td>B. 9-1/2W x 9-1/2H</td>
<td>10.6 gpm</td>
<td>11.5 AMP</td>
</tr>
<tr>
<td>2000</td>
<td>10W x 12-3/4H</td>
<td>B. 10W x 12-3/4H</td>
<td>8.5 gpm</td>
<td>11.5 AMP</td>
</tr>
<tr>
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<td>B. 10W x 12-3/4H</td>
<td>0.1 gpm</td>
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**Humidifier Sizing Chart (8’ ceilings)**

<table>
<thead>
<tr>
<th>Room Type</th>
<th>Humidity needed (GPD per AHRI)</th>
<th>Guideline F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bedroom</td>
<td>12 gpd</td>
<td>14 gpd</td>
</tr>
<tr>
<td>Bath</td>
<td>14 gpd</td>
<td>18 gpd</td>
</tr>
<tr>
<td>Bedroom</td>
<td>17 gpd</td>
<td>15 gpd</td>
</tr>
<tr>
<td>Living Room</td>
<td>18 gpd</td>
<td>15 gpd</td>
</tr>
<tr>
<td>Dining Room</td>
<td>18 gpd</td>
<td>15 gpd</td>
</tr>
<tr>
<td>Office</td>
<td>18 gpd</td>
<td>15 gpd</td>
</tr>
<tr>
<td>Library</td>
<td>18 gpd</td>
<td>15 gpd</td>
</tr>
</tbody>
</table>

---

Aprilaire offers a full line of comfort humidifiers that improve indoor air quality throughout your home. Humidifiers, Dehumidifiers, Air Cleaners, Zoned Comfort Control™, Thermostats and Ventilation. For the ultimate in quality, performance, reliability and sustainability: Ask for Aprilaire, Fresh Ideas for Indoor Air.
What you should look for in a humidifier

**1 CONTINUOUS AUTOMATIC CONTROL – A+?**
The optimum levels of relative humidity in your home fluctuate with the changes in outdoor temperatures. An Aprilaire automatic humidifier continually monitors and responds to both outdoor temperatures and indoor relative humidity, delivering optimum levels of humidity throughout your home. You never have to monitor your settings or wait until you feel uncomfortable. The automatic set-in and -forget it control keeps your home’s humidity level exactly where you want it.

**2 WHOLE-HOME CAPACITY**
An installed Aprilaire whole home humidifier suits the right amount of absorbing moisture in your entire home. To achieve the same effect with a portable unit, you would need to place one in every room of your house.

**3 MINIMAL MAINTENANCE, TOTAL CONVENIENCE**
To maintain the performance of a portable unit, you must continually monitor the tank levels and clean and fill them regularly. Bypass units are designed so the working parts are replaced every humidifier season, eliminating the requirement to clean and scrub vital components, increasing performance and reliability.

**4 RELIABILITY**
A good humidifier operates so that working parts are not affected by the build-up of mineral deposits. Aprilaire humidifiers are designed so the working parts are replaced every humidifier season, eliminating the requirement to clean and scrub vital components, increasing performance and reliability.

There is no need to experience the discomfort, health problems or damage to your home and furnishings caused by air that is too dry. Install an Aprilaire whole-home humidifier with Automatic Digital Control and you’ll never worry about proper humidity levels in your home again.

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**Aprilaire Humidifier Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Unit Size</th>
<th>Electrical Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>800M</td>
<td>15-5/8W x 13H x 10-1/4D</td>
<td>120V-60Hz, 11.5 AMP</td>
</tr>
<tr>
<td>700M</td>
<td>9-1/2W x 9-1/2H</td>
<td>240V-60Hz, 11.5 AMP</td>
</tr>
<tr>
<td>600M</td>
<td>10W x 12-3/4H</td>
<td>240V-60Hz, 11.5 AMP</td>
</tr>
<tr>
<td>400M</td>
<td>10W x 12-3/4H</td>
<td>120V-60Hz, 11.5 AMP</td>
</tr>
</tbody>
</table>

---

**Humidifier Sizing Chart (8’ ceilings)**

<table>
<thead>
<tr>
<th>Humidity</th>
<th>120V-60Hz</th>
<th>240V-60Hz</th>
<th>208V-60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>25%</td>
<td>4.0 gpd</td>
<td>8.0 gpd</td>
<td>6.4 gpd</td>
</tr>
<tr>
<td>30%</td>
<td>6.4 gpd</td>
<td>12.8 gpd</td>
<td>10.6 gpd</td>
</tr>
<tr>
<td>35%</td>
<td>9.0 gpd</td>
<td>18.0 gpd</td>
<td>14.3 gpd</td>
</tr>
<tr>
<td>40%</td>
<td>11.5 gpd</td>
<td>22.5 gpd</td>
<td>17.8 gpd</td>
</tr>
<tr>
<td>45%</td>
<td>14.0 gpd</td>
<td>26.0 gpd</td>
<td>21.2 gpd</td>
</tr>
<tr>
<td>50%</td>
<td>16.5 gpd</td>
<td>30.0 gpd</td>
<td>24V-60Hz</td>
</tr>
<tr>
<td>55%</td>
<td>19.0 gpd</td>
<td>34.0 gpd</td>
<td>24V-60Hz</td>
</tr>
<tr>
<td>60%</td>
<td>21.5 gpd</td>
<td>38.0 gpd</td>
<td>24V-60Hz</td>
</tr>
</tbody>
</table>

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*AHRI = Air Conditioning, Heating, and Refrigeration Institute GPD = Gallons Per Day

**Whole-Home Humidifiers**

**Cure indoor dryness and get the very best whole-home comfort.**

Aprilaire offers a full line of comfort accessories that improve indoor air quality throughout your home. Humidifiers, Dehumidifiers, Air Cleaners, Zoned Comfort Control™, Thermostats and Ventilation. For the ultimate in quality, performance, reliability and sustainability.

**Ask for Aprilaire, Fresh Ideas for Indoor Air.**

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