

Guide Humidification

Enjoy a healthy winter with the ideal indoor climate



Stadler Form[®]
OF SWITZERLAND



12,000 litres of air

Air is the basis of our lives. Every day, we breathe in and out 20,000 times, which corresponds to around 12,000 litres of air - and we need that every day. The quality of this air has a direct effect on our well-being and productivity. Air humidifiers improve indoor air quality by maintaining optimal humidity of the air.

This guide will provide basic information on air humidifiers and will help you to choose the best humidifier to meet your needs.

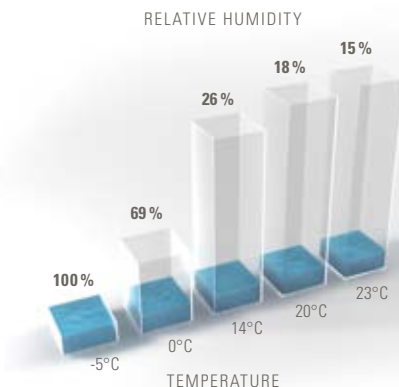
Healthy advantages

ADVANTAGES OF OPTIMALLY TREATED AIR

- **Your nose, eyes and skin will no longer feel dry:** You'll feel more comfortable at home
- **The risk of catching flu is reduced:** The influenza virus survives for less time in rooms with optimum humidity. There will also be less stress on your mucous membranes and less chance of you falling ill
- **You and your family will sleep better:** Dry air is not good for you. Enjoy better and more restful sleep when the humidity is right
- **You will be able to concentrate better:** You will feel less listless and tired and your ability to concentrate improves
- **Dust exposure will be reduced:** Allergy sufferers in particular can take a deep breath, moist air binds dust particles
- **Furniture, wooden floors and paintings will be protected:** Cracks and deformation will be avoided
- **Instruments will not de-tune:** You do not need to frequently retune pianos, guitars and violins

Dry air primarily occurs in winter, when heating is used a great deal and indoor humidity often falls below 30%. Opening the window doesn't help; quite the opposite, the air in the room remains dry. Outdoor air at a temperature of around 0 °C can only hold 4 grams of water per cubic metre. However, at an indoor temperature of around 20 °C, the air can hold 20 grams per cubic metre. Even if the relative humidity outside is 69%, this corresponds to a relative humidity of just 18% inside. This moisture deficit can only be overcome with the aid of an air humidifier.

The ideal air humidity recommended by the medical profession is between 40% and 60% relative humidity.



With ventilation, the amount of water remains the same, but the relative air humidity falls as the temperature rises.



4 methods – 1 target



EVAPORATOR

This technology adopts the natural principal of evaporation. Evaporation mats soak up water. A fan is used to draw dry indoor air through the mats, which transfer their moisture to the air. It is not possible to oversaturate the air.

ULTRASONIC NEBULISER

A membrane that vibrates using ultrasound produces smallest droplets of water which can then be diffused into the room using a fan, where they will evaporate. The visible mist is cold and harmless to children. Ultrasonic nebulisers do not use much electricity and perform very well. Because limescale particles are spread around the room together with the water droplets, an ultrasonic nebuliser must always be used with an anticalc cartridge.

VAPORISER

The water is brought to the boil inside the device until germ-free water steam is created. The steam spreads perfectly throughout the room and increases the humidity very effectively. This germ-free steam is ideal for allergy sufferers. Vaporisers are highly productive, and they should therefore always be controlled by a hygrostat. Because the heating element becomes scaled over time, the device must be descaled regularly.

AIR WASHER

Air washers are a combination of air humidifier and air purifier. Special evaporator discs absorb the water and a fan blows dry indoor air over the rotating wet discs. The moistened air is then diffused throughout the room. The air washer is a high performance humidifier and only uses a small amount of energy. The air washer can also «wash» large to medium particles out of the air.

Note: Which is the right air humidifier for me?
Air humidifier decision-making guide www.stadlerform.ch/finder

Maintenance is important








CLEANING AND HYGIENE

If you actively humidify the air in your room, you must take care of the hygiene of your humidifier. The following should be noted:

- If you do not use the air humidifier, empty the water from the device and the tank
- You should descale the humidifier regularly, depending on the hardness of the water (especially applicable to vaporisers)
- Even if no heavy scaling can be seen, clean the device weekly to avoid the growth of bacteria and germs
- Where possible, use the Ionic Silver Cube™, which inhibits the growth of bacteria and germs in the water
- Replace any accessories regularly (filter cassettes, descaler cartridges, Ionic Silver Cube™)



TECHNOLOGY	STRENGTH	IMPORTANT TO KNOW	MAINTENANCE	MODEL STADLER FORM
VAPORIZER Water is boiled	<ul style="list-style-type: none"> - Fast humidification, powerful - Steam is absolutely free of germs and minerals - Hygrostat (desired humidity can be selected – important feature) - Excellent distribution of humidity in the room 	<ul style="list-style-type: none"> - Suitable for 40m² approx. - Not suitable for water from central descaling machines - Aroma (perfume) should not be used 	<ul style="list-style-type: none"> - Must be descaled regularly 	FRED Humidifier 
EVAPORATOR Water is being evaporated (Filter paper)	<ul style="list-style-type: none"> - Very silent - Very low energy consumption - Low maintenance - Aroma (perfume) can be used - Suitable also with central descaling machines - Hygrostat included (desired humidity can be selected) - Night mode (dimnable LED's) 	<ul style="list-style-type: none"> - Suitable for 40m² approx. - Ionic silver cube™ against growth of germ and bacteria 	<ul style="list-style-type: none"> - Change of filter cassettes (every two months) - Replace Ionic silver cube™ every year 	OSKAR Humidifier 
ULTRASONIC HUMIDIFIER Water is being nebulised by ultrasonic element	<ul style="list-style-type: none"> - Very silent - Low energy consumption - Preheating (reduces bacteria and increases output) - Night mode - Hygrostat included (desired humidity can be selected) 	<ul style="list-style-type: none"> - Not suitable for water with high content of calc (more than 21german degrees) - Aroma (perfume) should not be used - Suitable for approx. 65m² 	<ul style="list-style-type: none"> - Filter cartridge must be changed regularly (depending on the water hardness) - Must be descaled regularly 	JACK Humidifier 
ULTRASONIC HUMIDIFIER / AROMA DIFFUSER Water is being nebulised by ultrasonic element	<ul style="list-style-type: none"> - Very silent - Low energy consumption - Specially made for aroma diffusion - Night mode - Infinitely variable output - Hidden control elements 	<ul style="list-style-type: none"> - Not suitable for water with high content of calc (more than 21german degrees) - Suitable for approx. 25m² - Few drops of the essential oil can be given directly into the water - Ionic silver cube™ against growth of germ and bacteria 	<ul style="list-style-type: none"> - Change anticalc cartridge every 2 - 3 months, depending on water hardness - Appliance must be cleaned at regular intervals (special brush included) - Replace Ionic silver cube™ every year 	ANTON Humidifier 
AIRWASHER Water is being evaporated (discs)	<ul style="list-style-type: none"> - Silent - Very high efficiency (high capacity on low energy consumption) - Suitable for every water quality - Night mode - Automatic shut off - Hygrostat included (desired humidity can be selected) - Filters big particles out of air 	<ul style="list-style-type: none"> - Suitable for large rooms with up to approx. 65m² - Ionic silver cube™ against growth of germ and bacteria - Aroma (perfume) can be used (fragrance dispenser) 	<ul style="list-style-type: none"> - Must be cleaned regularly (particles stay in water container) - Automatic cleaning mode for easy and comfortable descaling - Replace Ionic silver cube™ every year 	TOM Humidifier 

Glossary

HUMIDIFIER GLOSSARY

Humidifier Performance: Shows how many grams of water the humidifier can discharge into the air in the room in one hour.

Room Size: Depending on the system and model, a range of room sizes can be humidified. Please see the manufacturer's information. In general, most systems are suitable for rooms up to a maximum of 40 m². It may be necessary to use several devices to achieve the desired humidity level. The height of the room is used to calculate the room size, as well as the area of the room.

Hygrostat: The humidistat can be used to set the desired relative air humidity. The device switches off automatically when the desired humidity is reached; if the humidity falls, the humidifier switches on again.

Germs and Bacteria: Whenever water is left standing, germs and bacteria can develop. This problem is avoided with vaporisers, because the water in the device is boiled off, but for all other systems we recommend the use of the Ionic Silver Cube™ to inhibit growth.

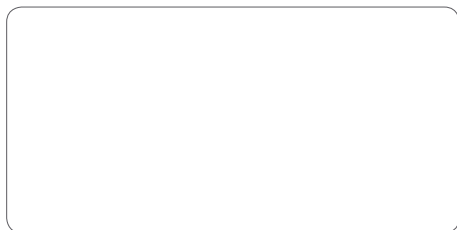
White Dust: «White dust» occurs with ultrasonic nebulisers because these emit limescale particles into the air. The problem can be reduced by using an anticalc filter cartridge.

Water Hardness: The composition of mains water differs greatly on a regional basis. If you have very hard water (more than 25 German degrees), we recommend the use of an evaporator or air washer.



Stadler Form®

Since 1998, Stadler Form has been manufacturing a range of humidifier systems and marketing them around the world. From the very start, Stadler Form has produced not only devices which fulfil their functions convincingly, but which also integrate perfectly into your home thanks to their unusual designs. Further information and details of products from Stadler Form can be found at www.stadlerform.ch



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