

## Advantages of Water Heater in **FOGMAX** Humidifiers

Dear Sir/Madam,

Please note the following points regarding heating mechanism in FOGMAX humidifiers;

1. A water heater (heating mechanism) immersed in FOGMAX humidifier serves as a more effective way of yarn conditioning. The water heater ensures that the fog gets warm and as compared to cold fog, this is a more appropriate method for conditioning.
2. Warm fog generates steam type effect but cannot retrofit steam type of conditioning which is the purest form of humidity. However, generation of steam is very costly both in terms of initial cost as well as running & maintenance cost.
3. **Penetration power of warm fog in the yarn is much higher compared to cold fog. Thus added value is achieved from conditioning.**
4. Micron size in warm fog is considerably drier and denser. The particle size is approx. 1 ~ 2 microns.
5. Being lighter, warm fog remains suspended in the air for a longer period of time as against cold fog which tends to settle faster. This justifies the penetration scope of warm fog (in point 3)
6. **Using water heater in FOGMAX humidifier, output is much higher (approx. 9 ~ 10 Ltrs./Hr.) compared to output without using water heater (6 Ltrs./Hr.)**
7. Conditioning is more effective at higher temperatures. Hence using warm fog, especially during winters – will assist the conditioning process more. If air-heaters are also used, the process will be even better.
8. **Humidity levels are achieved much faster with warm fog and always tend to remain high.**
9. World over, steam injecting humidifiers are popularly used for all levels of conditioning i.e. pre-conditioning, post conditioning etc.
10. As compared to pure steam which requires an air-tight chamber and is also costly to introduce and thereafter maintain, immersion heaters used with FOGMAX Humidifiers work more effectively to create warm fog. It costs much less than the cost of producing steam, can be used in normal room conditions with very less ventilation and is also easy to maintain. Requires very negligible maintenance as compared to steam boilers or steam injection.
11. For added benefits, warm fog can be extended to the Packing Department as well to ensure that the moisture content achieved in yarn conditioning remains intact.
12. To use water heater in FOGMAX Humidifier the water quality has to be soft and filtered (recommended: RO or DM only). This enables the system to run at its optimum thus generating highest value and also preventing unnecessary power loads. More importantly, conditioning is best when water quality is excellent.

Please note that fitting water heaters to FOGMAX Humidifiers is a precise and specialised job. It needs to be undertaken at our premises/works address in Mumbai itself - under our full supervision. Thorough testing is done before dispatch. The heater is fitted to the "Reservoir Pan" (Part No.: 3037) and hence, for clients already using our **FOGMAX** humidifier, kindly detach the part no. 3037 and dispatch it to our premises.

The above points are self-explanatory. In case of any doubts/queries, please do not hesitate to clarify.

**FEATURES of Humidifier with HEATRON HM04:**

- a) "Digital Water Temperature" Indicator with Water Temperature controller.
- b) Just set your desired water temperature and it will be maintained automatically.
- c) Standard 2 KV **Heating Coil** - ISI mark with Power Cord and connector.
- d) Independent switch to ON/OFF the Heater and generate warm mist/cool mist respectively, as required by user.
- e) Attached '**Vertical Level Sensor – SS304**' to automatically turn OFF the Heating Coil in the absence of water supply.
- f) Attached '**Vertical Thermostat**' to prevent over-heating by automatically turning OFF the Heating Coil.
- g) Output upto 10 Ltrs./Hr. @ 4 ~ 6 microns only.
- h) For added safety, new "Thermostat" and "Level Sensor" indicators to indicate any faults with the sensors (available only in model HM-04)
- i) LED indicator of Level Sensor fault.
- j) New SS Support for Vertical Level Sensor



**NEW LEVEL SENSOR – SS304**  
(Only in HEATRON HM-04)



**RESERVOIR of Humidifier supplied with HM-04**  
(Only in HEATRON HM-04)