

H - 3120

Humidifier



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► Product Introduction

Humidifier is a benchmark product in centrifugal humidifiers and a global competitor in soot humidification. Moreover, it is a portable aerosol applicator. We realise that most of the industrial applications require high RH levels to be maintained continuously. Humidifier gives you impressive loads of 'very fine fog' that will add cool humidity to your room. Powered by a specially designed motor with a thermostat, it can deliver uninterrupted humidification consistently.

While designing the product, care has been taken to ensure that it is primarily an 'energy saving unit' and secondarily 'maintenance free'. Even the periodical cleaning that may be required is made simple to ensure that a single person completes the job very quickly. The unit weighs only 9 kgs and it is pre-fitted with a float valve to connect to a direct water line for continuous use. The float valve system also regulates and maintains the water level in the Humidifier. It can deliver the mist effect any place, any time and in any atmospheric condition.

►► Principle

The electric motor rotates the suction pump and the impeller. Centrifugal force causes the water to rise in the suction pump & onto the spinning disks which throw it against the atomizing ring, reducing it to extremely fine water particles of 5 - 10 thousandth of a millimeter. Water particles of this size are not deposited but are immediately transformed into real air humidity. The air required for atomization is drawn in by the fan, which also distributes the mist to the room.



►► Salient Features

- Quality product for quality conscious customers at an unmatched price.
- Energy Efficient (only 55 Watts) as compared to any other Industrial/Commercial spot humidifier available in the market.
- Material of Construction is a combination of High Grade Engg. Plastic and Stainless Steel to absolutely resist corrosion and chemical attack (Very few products carry such high standards)
- Dirt particles do not get accumulated inside the machine due to a special structure covering the suction grid.
- Maintenance is negligible. The humidifier by itself will never require any oiling, greasing, consumables etc. However, to prevent atmospheric conditions from reducing the misty effect, periodical cleaning of water reservoir and filter is recommended and that too can be completed in a short span of time.
- 'Uniform humidity' will always be ensured with H 3120 (accessory) since the system is designed & installed to allow fine fog particle to be carried to each and every corner of the department. Equivalent spot humidifiers are generally installed in the corner of a room and output is propelled in one direction only.
- Its compact design and low weight utilizes very less space and structural changes or modifications are not required for installing the product. Easy to carry by handle from one place to another.

►► Technical Specification

- | | |
|---------------------------|--------------------------------------|
| • Particle Size | 5 ~ 10 Microns. |
| • Power Supply | Single Phase, 220 ~ 240 VAC / 50 Hz. |
| • Operating Temp. | 1 ~ 50 Deg. C. |
| • Humidification Capacity | 6 ~ 8 Ltrs./hr. |
| • Power Input | 55 w. |
| • Water Connection | 0.5 Inch (K 5 Kg/cm ²). |
| • Area Coverage | 600 ~ 800 sq. Fts. |
| • Dimensions | 370 X 370 X 480 Mm. |
| • Weight | 9 Kgs. (dry). |

►► Application

All sections of Textiles Industries, Q.A./Q.C. Laboratories, Research Chambers, Propagation Rooms, Cold Storage Rooms, Nurseries, Greenhouses, Mushroom Cultivation Rooms, Food/Medical Packaging houses, Warehouses, Timber Industries, Tea/Tobacco Industries, Curing Processes, Horticulture etc.

►► Advantages

- Specially designed motor capable of generating 20000 hrs. of non-stop power to ensure uniform & consistent humidification.
- Completely droplet-free particle size.
- Easy to clean + nozzle free system.
- Maintenance-free squirrel cage motor with built-in thermal overload switch for protection.
- No water pressure pumps or air compressors required.
- Powerful and heavy duty Industrial / Commercial applications product.
- No wiring necessary — plugs directly into a standard electrical outlet (230 V/50 Hz).
- If used along with our accessory, the humidification process becomes automatic and no manual presence will be required to monitor and maintain the RH level.
- Silent, portable, sleek design and packed in a ready-to-use condition ensures hassle free installation and the advantage of utilizing the unit almost anywhere.

►► Humidifier with HEATING MECHANISM

The ever-reliable Humidifier is now available in a new avatar - with the Heating Mechanism installed. This is particularly useful in Winters when warm fog is preferred to quickly compensate for the drop in RH levels. Studies reveal that warm fog has a much higher penetration level compared to cold fog. Further, the microns being more drier, warm fog assists in faster humidity generation. These effects are useful in critical applications. Eg: In "Yarn Conditioning", warm fog quickly evaporates in the air and moisture absorption in the yarn is much higher leading to weight gain and weight balance. With warm fog, humidity levels tend to remain high... irrespective of the room conditions.

►► Salient Features

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



►► Opotional Accessories



►► Digital Humidity Control Systems

The most important aspect of humidification is the ability to monitor, control and maintain the desired RH level. This is possible using our indigenous Digital Humidity Controllers. Just set the required RH (%) on the device and it will automatically switch ON the humidifier if the humidity is lower than the setpoint and switch it OFF if it goes above the set point. Thus you are always able to ensure consistent humidity levels inside your room/area. The controller works on a PCB design and a relay system.

►► DIGI-OS-ROT-C-VI Features

- Plug-and-Play device
- Digital display of relative humidity (29% to 100% RH)
- Digital display of temperature (5°C to 80°C)
- Humidity control range (30% to 95%)
- Imported humidity sensor (Accuracy +/- 3 RH F.S.D. @10...90%)
- Standard sensor wire length: 10 mtrs (Can be extended upto 100 mtrs.)
- Differential setting: -2% RH (Eg: If controller is set at 80% RH, humidifier will stop working at 80% and restart at 78%).
- Control device is IP65 rated.
- Other features include keypad lock protection, time delay setting, differential setting, high limit, low limit, machine ON/OFF indication etc.
- Wall mounting /table-top mounting
- Working Cycle: 24 x 7
- Comes with pre-fitted socket to connect the humidifiers plug.

Thus, we have taken into account almost all the functional parameters while designing our control system. It is therefore recognized as a technical pre-requirement for any humidification system, We can customize the control system to meet your requirements. Features can be included / excluded as desired. Please contact our office for your customized requirement.

►► **Oscillating equipment for humidifiers, essential for maintaining UNIFORM humidity level.**

H 3120 is a swivelling equipment, which oscillates the humidifier(s) at max. 120° angle constantly. Generally, static humidifiers (positioned at one place), tend to discharge humid particles in a particular direction, while leaving the surrounding area untapped. The result is that pockets of different RH levels are formed inside.

With H 3120 the humid particles are distributed uniformly inside the closed area and thus each & every corner of the room is treated equally. Efficiency of the humidification system increases by virtue of using this accessory. Available with following features:

►► **Features**

- 1 RPM Constant rotation (60° left & 60° right)
- Plug-and-Play device
- Oscillation ensures greater area coverage than conventional Spot Humidifiers.
- It further ensures 'Uniform / Standard' RH level in the area, which is most essential for humidification. Thus, pockets of varied RH levels are avoided.
- Droplets will not settle down and condense as observed in conventional humidifiers.
- Imported motor, imported bearings and precise component structure ensure reliability and standard.
- Equal distribution of humid particles ensures better penetration in the air and thereby better quality of humidification.
- NIL maintenance and trouble free operation.
- Aesthetic look appeals to various industrial applications and hassle free mechanical function used for the equipment ensures longer life.
- MOC: SS304 and higher

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Our Products & Technologies



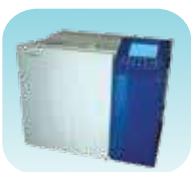
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Total Organic
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TOC
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Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

Regulatory compliances



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