NOVATRON SCIENTIFIC
A Trescal company



Portable Humidifier



- For museums, heritage properties and private collections
- Low maintenance

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Defensor Humidifiers



The Novatron range of high quality portable humidifiers are designed with efficient and durable operation in mind for managing large volume areas for museums, art galleries, heritage properties, store rooms and archives.

For conservation of fine art it is essential to maintain air relative humidity to stable conditions of within 40-60% rh, with a maximum variation of +/-10% over a 24 hour period. These are the standards set by the industry and most accredited museums & art galleries need to demonstrate that they are working to achieve this.

Normally the indoor relative humidity falls to below 40% during the colder months of October through to May when the heating comes on. To compensate for this, Novatron supply precision portable humidifiers for local control and for back-up of air conditioning systems in museums, art galleries and archives.

Due to the unique evaporative design, resistance to scaling or clogging is a major advantage of the PH15 and it is intended for use within a 900m^3 sized room.

- Fully portable
- Easy filling
- Ergonomic design
- Water sterillisation
- Quiet operation
- Intelligent controls
- Lockable buttons
- Electronic sensors
- Onsite service
- Full support
- Commissioning
- Spares stocked



The Defensor humidifiers employ the evaporator principle, which humidifies air sparingly with minimum energy consumption and is particularly suitable for use in museums, galleries and living rooms, as well as office premises, walk-in humidors or other rooms in which a pleasant room atmosphere is desired. The PH range humidifies efficiently to meet requirements while simultaneously purifying the air in dusty and bad odour environments.

Low maintenance requirements, simple handling, inexpensive investment and low operational costs are the main benefits of this humidifier. The PH humidifiers also ensure an extraordinary level of user comfort, absolute reliability and safety, thanks to the use of the latest technology.



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Features of the Novatron PH15 Defensor Humidifier

Easy and convenient handling

The PH range of humidifiers are easy to use and require practically no maintenance. The 20 litre trolley water tank enables a convenient replenishment, especially beneficial if the water supply is not close to the application. For direct connection to the water supply the model ***PH15A*** is available.

Hygienic and dust-free humidification

Depending on the season and humidity demand, the filters can be changed optionally in the winter for humidification and optionally in the summer for air purification.

The Quattro filter system filters the smallest dust particles (pollen) and odours, thus ensuring that air remains clean and fresh.

Often the challenge can be dealing with the amount of VOCs (Volatile Organic Compounds) within the air that are generated by the chemicals and fluids used during art restoration and cleaning. These can be drawn into the humidifier and cause build up bacterial growth which needs to be cleaned regularly during maintenance visits.

Economical operation

With the aid of the integrated advanced electronics the humidifying capacity can be automatically controlled.

Humidity is measured by the integrated sensor. An external wireless humidity sensor is optionally available. Up to four PH15s can be controlled with a single sensor. Data transfer is based on radio technology and makes cable laying unnecessary. In the program mode the PH15 can be easily configured to adjust the humidification time. As protection from unauthorised users there is a key lock setting that can be activated.



- Energy-saving operation with the automatic mode
- Easy and convenient handling
- Air-purifying with the Quattro filter system
- Direct connection to water supply (PH15A)
- Low running noise, only 48dB(A) (Stage 1)
- Turnkey unit, no installation outlay
- Silver ionisation for hygienic humidification (optional)

" I would like to take this opportunity to thank you all for the wonderful service that you have provided this year."

JACK HARPER, ENGINEER
HISTORIC ROYAL PALACE





Applications

Museums

Galleries

Palaces

Private Collections

Heritage Properties

Art Conservation Studios

On-site service and full technical support

Novatron Scientific have a team of specialist engineers who perform regular site service visits for preventative maintenance & repairs. We are fully Safe Contractor accredited to assure good working practices and great care is taken, essential when working amongst valuable works of art.

All spares and consumables are stocked to facilitate the bes possible use of all humidifiers during their life-cycle.

Experts in the museum and heritage sector

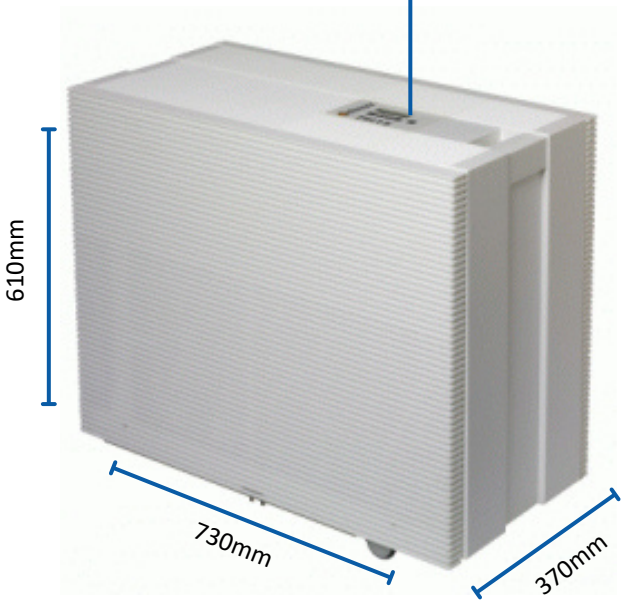
We have been supplying this sector for over 20 years.
We are proud to be members of the following associations:

- Museums and Heritage Advisor
- Museums Association
- Ecclesiastical and Heritage World

Features

The Defensor PH humidifiers are easy to use models that require very little maintenance on a day-to-day basis. They have been designed with convenience in mind and have an optional auto fill feature. The PH humidifiers also ensure high output with minimal noise and low energy consumption, absolute reliability and safety, thanks to the use of the latest technology.

- Single to use and maintain
- High performance
- Quiet operation
- Low energy consumption
- Robust and excellent longevity



Digital display and control
Easy to use digital controller, control panel lock and water tank indicator.

Humidifies and purifies the air

Filters viruses and pollen



Evaporator mat
The evaporative technology provides low energy operation without the high running costs of electric steam humidifiers.





Water tank
Large tank with wheels and handle, easy to remove and re-fill using tap water. Alternatively can be connected directly to a water supply.

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Specifications

Features

Electronic water level detector	✓
Electronic overflow detector	✓
Silver ionizer water sterilization	Optional
Plumbed-in water fill option (A)	Optional
Optional control via radio hygrostat	Optional
Ultra quiet operation	✓
Room capacities of up to:	900m^3

Technical Data

Fan speeds:	**1**	**2**	**3**	**4**
Humidification capacity [l/h]: at 25°C and 20% rH at 23°C and 45%rH	 0.8 0.6	 1.1 0.8	 1.5 1.0	 1.7 1.3
Air circulation rate [m3/h]	155	195	280	340
For rooms up to a max. of [m^3]	430	600	730	900
Sound pressure level [dBA]	32	38	45	50
Mains voltage	220 to 240VAc / 50 to 60Hz or 90 to 100VAc / 50 to 60 Hz			
Power consumption max.:	72 watt max.			
Weight (empty)	25kg			
Water tank capacity	20 litres			
Certificates	VDE, CE, GS, GOST			