

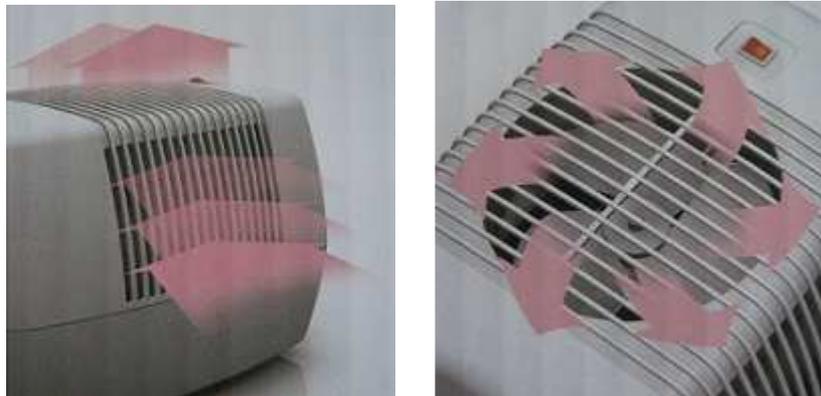


Our ref. 11316-3

Directions for use to the « Hoppalrd » bactericidal (antibacterial) humidifier

Description of a « standard », so called « CONSUMER » humidifier

Horizontal air aspiration by means of typical side suction on one side, or both sides, of the device and return through a fan, vertically (upwards).



The room air aspired that way is canalized through, hydrophilic, by capillarity (usually by means of network water) humidified honeycomb cassettes, which are located on the lower part of the device (tank).

The material which allows the exchange between water and air is in permanent contact with the bactericidal humidifying water, in such a way that the humidified air undergoes a reduction of the bacterial count in proportion to the moisturizing time.

The system is bactericidal when running and bacteriostatic when standing still.

The « Hoppalrd » humidifier has a submersible (watertight) minipump, with an average of 10 litres/hour flow rate when loaded, 4.5 watts electrical power, by 220/230 volt and 50 Hertz (same like the fan).

The minipump is connected by means of a flexible hose to a 20cm³, rough capacity of catalytic, bactericidal charge (content of 17 cm³) suction strainer.



Catalytic cartridge



Complete cartridge

The humidification water, contained in the tank on the lower part of the device, does permanently circulate in the submerged bactericidal cartridge, in order to enrich in situ the water with bactericidal compounds which are able to oxidize proteins, DNA and the cell membranes (attacking the constitutive lipids – lipid peroxidation), and operate the air disinfection by means of such bactericidal aerosols.

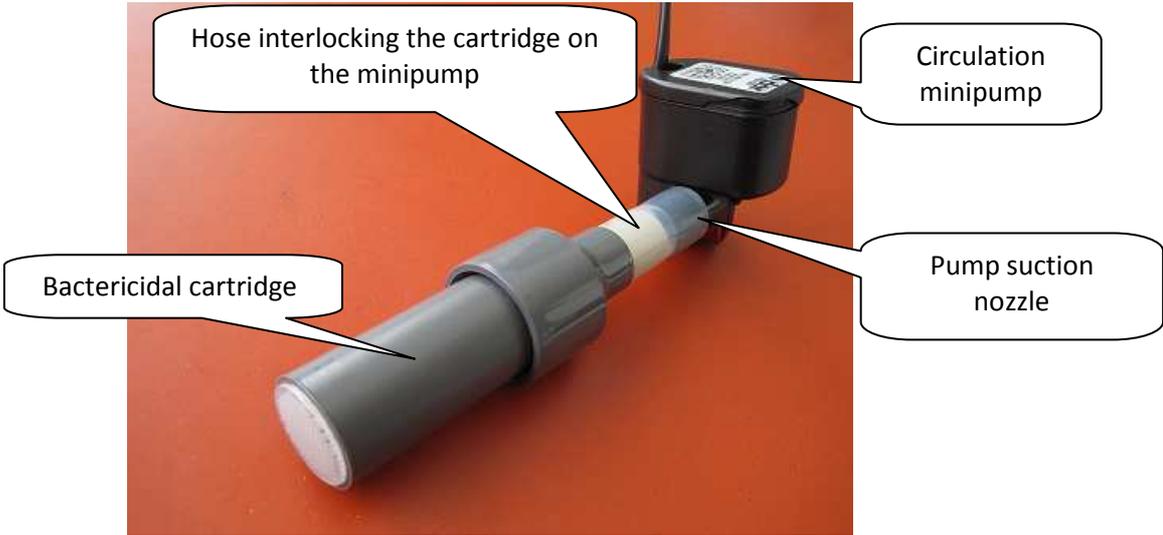
The humidifier's tank tap water average charge is of 5.5 to 6 litres.

- Humidifier average energy consumption: 12 watt
- Hoppalrd Kit minipump energy consumption: 4.5 watt
- Total energy consumption: 16.5 watt

Warning:

- The minipump must always run totally submerged, the suction nozzle being pointed downwards (see picture hereinafter); the constant submersion of the pump is maintained by means of a level

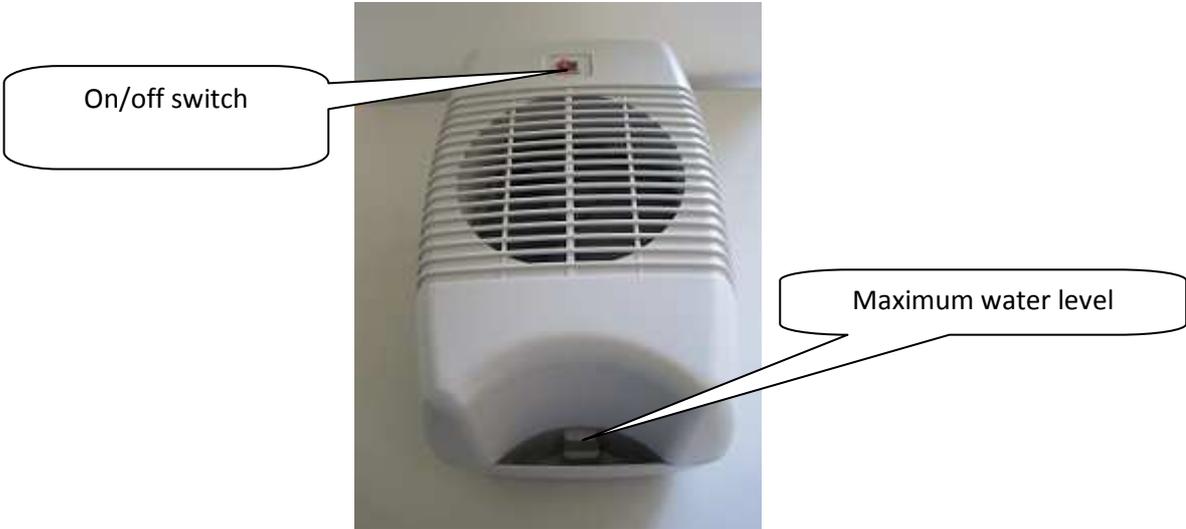
detector which does cut the supply to the humidifier when the quantity of water in the tank is too low.



Switching on the humidifier:

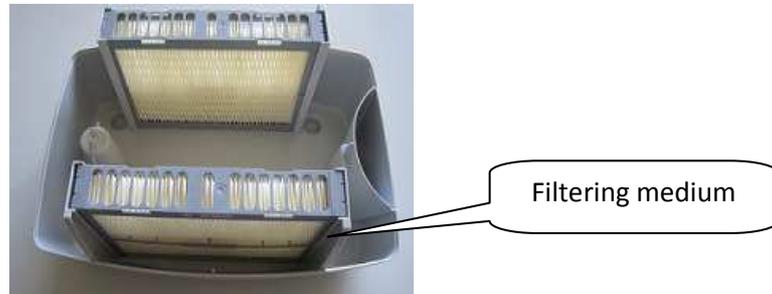


- Fill the tank with water (network water), up to the level as shown on the picture hereinafter;



- Plug the device in a network socket (220/230 volt, 50 Hertz) by means of the device's plug;
- Start the humidifier by means of the switch on top of it; the fan and the pump do start simultaneously.

The tank water does migrate through both the filtering media, consisting of a hydrophilic material which allows it to be humidified - by capillarity - by the network water loaded in such tank.



After running a few minutes, the water contained in the tank does load up with bactericidal reactive oxygen species after passing through the catalytic cartridge, and spreads through the room - in which has been placed the humidifier - driven as micronic micelles, responsible for the destruction of germs.

Air moisturizing capacity: 0.35 litre/hour.

In order to get an optimal working of the catalysis which is generating such Reactive Oxygen Species (responsible for the germ destruction by means of lipid peroxidation), the « CONSUMER » humidifier cartridge has really to be replaced quarterly, and both the filtering media cassettes every six months, provide that they are cleaned up under running tap water, namely in presence of pets close to the working humidifier.

For this purpose, unplug the device from the power network, disconnect the « cartridge + interlocking hose on the minipump » kit, and reconnect a new catalytic charge supplied in a new suction strainer with its interlocking hose on the minipump.

Use the time while the device is unplugged in order to clean completely the water tank - taking into account that particles suspended in the air do deposit at the tank's bottom – and wash the media cassettes as explained previously.

The old, used catalytic charge (i.e. the « cartridge + interlocking hose on the minipump » kit) will be collected by HOPPAL R&D SA in order to destroy it (standard exchange).

Comfort of use: the suitable relative humidity can be selected and set by means of a hygostat which has to be connected between the humidifier's plug and the power network socket (220/230 volt, by 50 Hertz).

The so called «comfort» humidity is of about 50 to 60% (to be selected manually on the hygostat as suitable).

Information

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