

COMMERCIAL GRADE HUMIDIFIER

# ULTRASONIC HUMIDIFIER

IDEAL FOR PORTABLE HUMIDIFICATION



#HGC700608

#HGC700612

#HGC701606

# **Ideal-Air™ Pro Series Ultra Sonic Humidifier**

The Ideal-Air™ Pro Series Ultra Sonic Humidifier is designed with ultra-sonic transducers to supply ultra-fine water particles.

This is to help form a more balanced humidity field over your plant's entire canopy. Ideal-Air™ Pro Series Ultra Sonic Humidifier plates are made from cold-rolled steel and a stainless steel box with a standard water inlet with overflow safety switch, reservoir drain outlet, sediment filter, LED display and humidity control (30%–90%).

This unit is designed to produce up to 150 pints per day of ultra-fine mist. We recommend all Ultra Sonic Humidifiers be ducted, using 4 in PVC or 4 in DWV plastic pipe works best. Units should not be run without ducting or the top of the unit may be covered in water and shut off.

Please don't fill the unit through the discharge piping outlets. Doing this will overflow the tank and prevent the unit from creating humidity. The unit should only be filled through the provided hose and float valve to ensure proper water level and correct operation.

150 Pint unit operates at 115 V, 60 Hz and 2.7 Amps.

300 Pint unit operates at 115 V, 60 Hz and 7.8 Amps.

600 Pint unit operates at 115 V, 60 Hz and 10.3 Amps.

# SYSTEM FUNCTION

**HUMIDITY CONTROL:** When the humidity reaches the set point, the machine will stop automatically. It will automatically start the machine when the humidity in your space rises above the set point. The humidity range is 30-90%; The machine will stop +5% of set humidity and restart below -5% of set humidity.

**WATER INLET:** When the water level in the water tank decreases, the float switch will activate and the water tank will refill automatically and stop filling when the water level rises to the maximum height.

**LOW WATER LEVEL WARNING:** When the system detects the water level is lower than the warning level, the machine will stop automatically. The system will warn if water is not refilled in 10 minutes.

**FAN DELAY PROTECTION:** When the humidifier is turned off the fan will continue to run for another 30 seconds to drain all the residual water and cool the unit.

# TECHNICAL PARAMETERS

| Model  | Power Supply | Power (Watts) | Spray Capacity (pints per hour) | Control Manner | Spray Outlet Diameter (inches) | Size (inches)     | N.W. (lbs) |
|--------|--------------|---------------|---------------------------------|----------------|--------------------------------|-------------------|------------|
| 701606 | 110V/60Hz    | 300W          | 6.25                            | Auto           | 4.33 Single Outlet             | 23.62x13.78x18.19 | 44.11      |
| 701608 | 110V/60Hz    | 600W          | 12.5                            | Auto           | 4.33 Double Outlet             | 24.80x18.11x22.13 | 66.14      |
| 701612 | 110V/60Hz    | 600W          | 25                              | Auto           | 4.33 Double Outlet             | 24.80x18.11x22.13 | 66.14      |

# ERROR CODES

| Code | Meaning                 |
|------|-------------------------|
| E1   | Water level is too low  |
| E2   | Humidity sensor failure |

# TROUBLESHOOTING TIPS

| Problem  | Possible Causes                          | Troubleshooting                                      |
|--|--|--|
| Indicator off                                      | No power                                 | Check the circuit and recover power supply           |
|  | Fuse is burnt                            | Replace fuse of same specification                   |
|  | Power switch is off                      | Start power switch                                   |
| The supply tank gets no water                      | No water supply from the pipe            | Check water supply valve                             |
|  | Water inlet solenoid valve is damaged    | Replace solenoid valve                               |
|  | Main control board is damaged            | Replace main control board                           |
|  | Inlet water pressure is not enough       | Inlet water pressure shall be 5 kg                   |
| Automization indicator is on but there is no spray | Voltage is 5% less than required voltage | Check the voltage                                    |
| Water flows from the case                          | Foreign matter in the solenoid valve     | Dismantle the solenoid valve to clear foreign matter |
| Less spray or no spray                             | Scale in the water box                   | Clear the water box                                  |
|  | Voltage is too low                       | Keep normal voltage                                  |
|  | No water in the water tank               | Add water to the water tank                          |

# MAINTENANCE

## MAINTENANCE OF THE WATER TANK

Water should be changed regularly once every 7 days. The automatic computer flushing system helps to minimize dirt and residue remain in the water tank.

### CLEAN THE WATER TANK

The water tank should be cleaned regularly once every 30 days. Please remove the electrical plug from the wall socket before changing the water tank to prevent electric shock.

#### METHOD TO CLEAN:

1. Remove all water from the water tank, using the water outlet (see Fig. 4 on page 4)
2. Open the top cover and remove the tank cover. Use a soft cloth or brush to clean out any impurities and/or scale on the piezo ceramic and in the water tank. Wash out with clean water.
3. Water should not be spilled on the external components and wires to prevent short circuit.
4. Do not use detergent to clean any components of atomizer.
5. Re-install the cover.

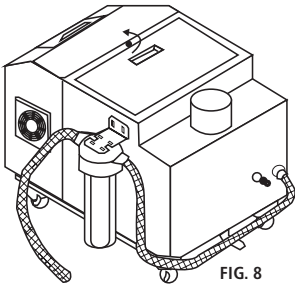


FIG. 8

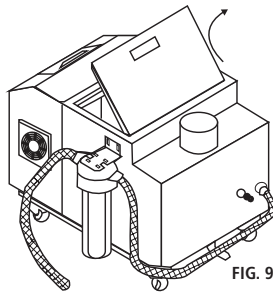


FIG. 9

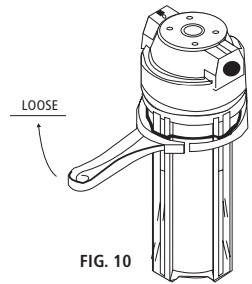


FIG. 10

### CLEAN THE FILTER

The filter should be cleaned regularly at least once a month:

1. Unscrew the cover of the filter.
2. Clear the dirt on filter element.
3. Re-install the cover.

# AFTER-SALE SERVICE

- The warranty period is one year for the general machine.
- Filter and filter element are consumable materials, not covered by warranty. If the filter needs to be replaced contact Ideal-Air™ and we'll either direct you to the appropriate store for purchase or sell you the proper filter.
- If the machine is not used for more than 48 hours, power supply must be cut off, drain off all the water in the water tank to avoid the water become contaminated and affect the normal use of the equipment.