# HT Humidifier

The HT humidifier is a compact, cabinet-style unit compatible with all water types (tap, softened, demonized, reverse osmosis) and numerous dispersion options. Installation is a snap - just attach the frame to a supporting structure and connect electrical and water services. Available matching Space Distribution Units disperse steam with no visible vapor trail, making Humidi-tech ideal for use in finished spaces.

### HT characteristics

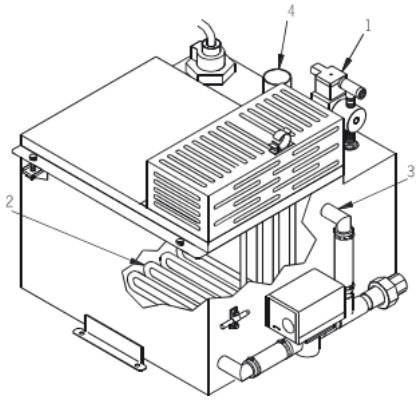
- Its capacity is between 2.7 -46 kg/h. By connecting 16 devices together, it can reach a capacity of 736 kg / h.
- HT humidifiers humidify into the duct humidifier with the steam distribution pipe or panel.
- It can be controlled on/off or proportionally.
- Control accuracy 3% RH
- The water level and safe operating limits can be monitored automatically from the monitor.
- Detachable cover. It provides ease of control and maintenance.
- At the end of the season, the growth of microbes is minimized with automatic drainage.
- It allows communication with building automation systems via Modbus with vapor-logic4 control or optionally BACnet or LonTalk.
- The use of soft water reduces the need for maintenance.
- Minerals on the surface of the water can be easily cleaned.
- Thanks to automatic drainage and washing, precipitated minerals are removed

### Capacities and Electrical Information

| Model | Maximum Electric Power (kW) | One Phase 230V | | 3 Phase 230V | | Transport Weight (kg) | Operating Weight (kg) | Code |
|---|---|---|---|---|---|---|---|---|
| | | Steam Capacity (kg/h) | Current (A) | Steam Capacity (kg/h) | Current (A) | | | |
| HT 2 | 2 | 2,5 | 8 | 2,7 | | 37 | 44 | **40122002** |
| HT 4 | 4 | 5 | 16 | 5,4 | 8,7* | 37 | 44 | **40122004** |
| HT 6 | 6 | 7,5 | 24 | 8,2 | 13,0* | 41 | 56 | **40122006** |
| HT 8 | 8 | 10 | 31,9 | 10,9 | 17,3* | 41 | 56 | **40122008** |
| HT 10 | 10 | 12,5 | 39,9 | 13,6 | 15,2* | 43 | 64 | **40122010** |
| HT 12 | 12 | 15 | 47,9 | 16,3 | 17,3 | 43 | 64 | **40122012** |
| HT 14 | 14 | | | 17,5 | 20,2 | 43 | 64 | **40122014** |
| HT 16 | 16 | | | 21,8 | 23,1 | 43 | 64 | **40122016** |
| HT 21 | 21 | | | 28,6 | 30,3 | 44 | 70 | **40122021** |
| HT 25 | 25 | | | 34 | 36,1 | 44 | 70 | **40122025** |
| HT 30 | 30 | | | 40,9 | 43,3 | 47 | 72 | **40122030** |
| HT 34 | 34 | | | 46,2 | 49,1 | 47 | 72 | **40122034** |

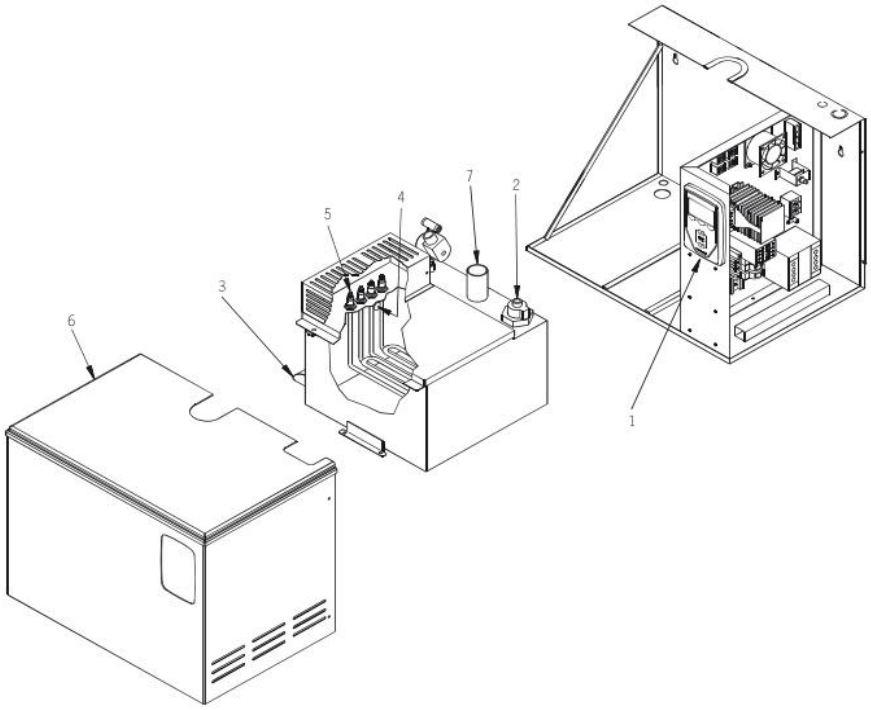
*The highest value due to current fluctuations is shown for cable cross-sections.

All humidifiers operate at 50/60Hz
SDU-E option is available. An additional weight of 5.5 kg should be considered when the SDU unit is added, and 4 kg for the SDU-1




**HT principle of operation**

1. When the system is activated for the first time, the filling valve opens, and the evaporation chamber fills with water to the operating level.
2. When there is a need for moisture, the heaters work to bring the water to a boil. The operation of the supply valves opens and closes according to the need of the water level.
3. During water refilling, some of the surface water expels minerals from the water surface that cause sediment. When using the DI/RO system (water system cleaned using non-ionized water or reverse osmosis), it is not necessary to expel minerals from the surface, as the water does not contain sediment.
4. The steam produced in the steam trap is dissipated into the air through a steam hose or diffuser.




**HT Companents**

1. Vapor-Logic 4 Controller: Vapor-logic4 controls all humidifier functions and can connect to a building automation system via Modbus or optional BACnet MS/TP or LonTalk

2. Water Level Control: Tap or softened water systems control water levels electronically using a three-rod probe. DI/RO water systems control water levels using a float valve and low-water cutoff switch.

3. Drain: Duration and frequency of draining are user adjustable. To avoid possible stagnant water and microbial growth, the humidifier automatically drains if there is no call for humidity after a user defined time (72-hour default).

4. Water skimmer/overflow port: In tap/softened water systems, the water skimmer reduces surface minerals in the evaporating chamber. Skimming occurs each time the humidifier fills. The skim time duration is user adjustable. DI/RO water systems do not require skimming. In DI/RO systems, the skimmer port functions as an overflow port.

5. Heating Element: Low-watt-density Incoloy-sheathed heating elements ensure operation for many seasons. Constant expansion and contraction of heating elements shed mineral scale. In the unlikely event of heater failure, heating elements can be removed easily.

6. Removable cover: A removable cover allows easy access to the evaporating chamber, electrical connections, and drain

7. Steam outlet: Steam generated in the humidifier rises through the steam outlet and travels to the dispersion assembly through vapor hose or piping

8. Temperature sensor (not shown): Mounted on the evaporating chamber, this sensor enables Over-temperature protection, freeze protection, Preheating, allowing rapid response to a call for humidity