

RTS[®] HUMIDIFIER

Resistive-to-Steam Humidifier



RX Series:

- *Sustained quality and dependability*
- *Integrated drain water tempering*
- *Universal water control for use with any water type*
- *Easy installation and maintenance*
- *Outdoor and indoor models for application flexibility*
- *Comprehensive control with Vapor-logic[®] touchscreen controller*

SUSTAINED QUALITY AND DEPENDABILITY



RTS HUMIDIFIER

RTS humidifiers use heat caused by electrical resistance in submerged heating elements to boil fill water into steam. The RTS humidifier is compatible with all water types and numerous dispersion options, including matching Space Distribution Units.

Learn More



RESISTIVE-TO-STEAM HUMIDIFICATION

The RTS® humidifier is a compact, elegant, cabinet-style unit compatible with all water types (tap, softened, deionized, 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 (SDU-IRX), making the RTS humidifier ideal for use in finished spaces.

WHY CHOOSE RESISTIVE-TO-STEAM HUMIDIFICATION

Flexible

- DriSteem's RTS humidifier incorporates universal water control for use with any water type - tap, softened, or RO/DI
- Capacity from 6 to 324 lbs/hr (2.7 to 147 kg/h), link up to 8 units for capacity up to 2592 lbs/hr (1176 kg/h)
- Integrated drain water tempering automatically cools discharged hot water to 140°F (60 °C)
- Disperses steam through ductwork with dispersion tubes or panels, or directly into a room with a Space Distribution Unit (SDU).
- Enclosures for virtually any environment. Outdoor or indoor, or factory-HVAC installed.

Accurate

- Standard solid-state relay (SSR) operation on every unit
- Control to $\pm 1\%$ RH
- Optional mini-drain operation mode allows for 24/7 continuous steam output

Easy to maintain

- Removable front covers with quarter-turn latches allow easy one-sided access to the tank and electrical connections
- Large clean-out and heater plate allows for easy access when cleaning the tank
- DriSteem's smart drain technology adjusts drain intervals automatically based on water quality. Draining removes precipitated minerals from the tank.
- User-adjustable water skimmer skims off floating minerals
- End-of-season auto-drain minimizes microbial growth
- Tank bottom is dual sloped with a side exit drain port located at the bottom of the slopes to ensure complete draining of tank

COMPREHENSIVE CONTROL WITH VAPOR-LOGIC CONTROLLER

The RTS humidifier with the Vapor-logic® touchscreen controller sets new standards for control in electric steam humidification:

- Interoperability allows communication with building automation systems via Modbus® or BACnet® or with optional LonTalk® protocols.
- Safety presets initiate fill and drain cycles and keep the humidifier cool and safe if sensed conditions, though unlikely, could be hazardous.
- Web-enabled control allows you to set up, view, and adjust humidifier functions via Ethernet, either directly or remotely through a network.



Table 3-1:
RTS humidifier capacities, electrical specifications

| RTS model | Maximum steam capacity | | Power | Stages | Current draw (amps) | | | | | | | | | | |
|-----------|------------------------|-------|-------|------------|---------------------|-------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|
| | | | | | Single-phase | | | | | | Three-phase | | | | |
| | lbs/hr | kg/h | kW | Contactors | 120V | 208V | 240V | 277V | 480V | 600V | 208V | 240V | 380V | 480V | 600V |
| RX-6-1 | 6 | 2.7 | 2 | 1 | 16.7 | 9.6 | 8.3 | 21.7 | 4.2 | 3.3 | — | — | — | — | — |
| RX-12-1 | 12 | 5.4 | 4 | 1 | 33.3 | 19.2 | 16.7 | 21.7 | 8.3 | 6.7 | 16.7 | 14.4 | 9.10 | 7.2 | 5.8 |
| RX-18-1 | 18 | 8.2 | 6 | 1 | — | 28.9 | 25 | 21.7 | 12.5 | 10 | 16.7 | 14.4 | 9.10 | 7.2 | 5.8 |
| RX-24-1 | 24 | 10.9 | 8 | 1 | — | 38.5 | 33.3 | 43.3 | 16.7 | 13.3 | 25 | 21.7 | 13.70 | 10.8 | 8.7 |
| RX-30-1 | 30 | 13.6 | 10 | 1 | — | — | 41.7 | 43.3 | 20.8 | 16.7 | 33.3 | 28.9 | 18.20 | 14.4 | 11.6 |
| RX-36-1 | 36 | 16.3 | 12 | 1 | — | — | — | 43.3 | 25 | 20 | 33.3 | 28.9 | 18.20 | 14.4 | 11.6 |
| RX-42-1 | 42 | 19.0 | 14 | 1 | — | — | — | — | 29.2 | 23.3 | 41.6 | 36.1 | 22.80 | 18 | 14.4 |
| RX-48-1 | 48 | 21.8 | 16 | 1 | — | — | — | — | 33.3 | 26.7 | — | 43.3 | 27.40 | 21.7 | 17.3 |
| RX-63-1 | 63 | 28.6 | 21 | 1 | — | — | — | — | 43.8 | 35 | — | — | 34.2 | 27.1 | 21.7 |
| RX-75-1 | 75 | 34.0 | 25 | 1 | — | — | — | — | — | 45 | — | — | 41 | 32.5 | 26 |
| RX-30-2 | 30 | 13.6 | 10 | 2 | — | 57.7 | — | — | — | — | — | — | — | — | — |
| RX-36-2 | 36 | 16.3 | 12 | 2 | — | 57.7 | 50 | — | — | — | — | — | — | — | — |
| RX-48-2 | 48 | 21.8 | 16 | 2 | — | 76.9 | 66.7 | 86.6 | — | — | 50 | — | — | — | — |
| RX-63-2 | 63 | 28.6 | 21 | 2 | — | — | 91.7 | 86.6 | — | — | 66.6 | 57.7 | — | — | — |
| RX-75-2 | 75 | 34.0 | 25 | 2 | — | — | — | — | 54.2 | — | 83.2 | 72.2 | — | — | — |
| RX-90-2 | 90 | 40.8 | 30 | 2 | — | — | — | — | 62.5 | 50 | — | 86.6 | 54.7 | 43.3 | 34.6 |
| RX-102-2 | 102 | 46.3 | 34 | 2 | — | — | — | — | 70.8 | 56.7 | — | 86.6 | 54.7 | 43.3 | 34.6 |
| RX-126-2 | 126 | 57.1 | 42 | 2 | — | — | — | — | 87.5 | 70 | — | — | 68.4 | 54.1 | 43.3 |
| RX-144-2 | 144 | 65.3 | 48 | 2 | — | — | — | — | — | 80 | — | — | 82 | 65 | 52 |
| RX-162-2 | 162 | 73.5 | 54 | 2 | — | — | — | — | — | 90 | — | — | 82 | 65 | 52 |
| RX-63-3 | 63 | 28.6 | 21 | 3 | — | 115.4 | — | — | — | — | — | — | — | — | — |
| RX-75-3 | 75 | 34.0 | 25 | 3 | — | 129.8 | 112.5 | 130 | — | — | — | — | — | — | — |
| RX-90-3 | 90 | 40.8 | 30 | 3 | — | — | 125 | 130 | — | — | 99.9 | — | — | — | — |
| RX-102-3 | 102 | 46.3 | 34 | 3 | — | — | — | 130 | — | — | 99.9 | — | — | — | — |
| RX-126-3 | 126 | 57.1 | 42 | 3 | — | — | — | — | — | — | 124.9 | 108.3 | — | — | — |
| RX-144-3 | 144 | 65.3 | 48 | 3 | — | — | — | — | 100 | — | — | 129.9 | — | — | — |
| RX-162-3 | 162 | 73.5 | 54 | 3 | — | — | — | — | 112.5 | — | — | 129.9 | — | — | — |
| RX-189-3 | 189 | 85.7 | 63 | 3 | — | — | — | — | 137.5 | 110 | — | — | 102.6 | 81.2 | 65 |
| RX-216-3 | 216 | 98.0 | 72 | 3 | — | — | — | — | — | 120 | — | — | 123.1 | 97.4 | 77.9 |
| RX-243-3 | 243 | 110.2 | 81 | 3 | — | — | — | — | — | 135 | — | — | 123.1 | 97.4 | 77.9 |
| RX-102-4 | 102 | 46.3 | 34 | 4 | — | 173.1 | 150 | — | — | — | — | — | — | — | — |
| RX-126-4 | 126 | 57.1 | 42 | 4 | — | — | 183.3 | 173.3 | — | — | — | — | — | — | — |
| RX-144-4 | 144 | 65.3 | 48 | 4 | — | — | — | 173.3 | — | — | 133.2 | — | — | — | — |
| RX-162-4 | 162 | 73.5 | 54 | 4 | — | — | — | — | — | — | 166.5 | — | — | — | — |
| RX-216-4 | 216 | 98.0 | 72 | 4 | — | — | — | — | 150 | — | — | 173.2 | — | — | — |
| RX-264-4 | 264 | 119.7 | 88 | 4 | — | — | — | — | 183.3 | 146.7 | — | — | 164.1 | 129.9 | 103.9 |
| RX-288-4 | 288 | 130.6 | 96 | 4 | — | — | — | — | — | 160 | — | — | 164.1 | 129.9 | 103.9 |
| RX-324-4 | 324 | 146.9 | 108 | 4 | — | — | — | — | — | 180 | — | — | 164.1 | 129.9 | 103.9 |

All RTS humidifier models operate at 50/60 Hz.
For wire sizing, the highest leg draw is shown due to current imbalance.



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Form No. RTS-BRO-EN-2023-1023

Expect quality from the industry leader

Since 1965, DriSteem has been leading the industry with creative and reliable humidification solutions. Our focus on ease of ownership is evident in the construction of DriSteem products. DriSteem leads the industry with a Two-year Limited Warranty and optional extended warranty.

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For the most recent product information visit our website:
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