

RTS[®] HUMIDIFIER

Resistive-to-Steam Humidifier



RX Series:

- *Sustained quality and dependability*
- *Integrated drain water tempering*
- *Operates with all water types*
- *Outdoor and indoor models available*
- *Comprehensive control with Vapor-logic[®] touchscreen controller*

SUSTAINED QUALITY AND DEPENDABILITY



RTS HUMIDIFIER

The RTS humidifier is compatible with all water types and numerous dispersion options, including matching Space Distribution Units.

The RTS® humidifier RX series is an electric humidifier that uses resistive heating elements to boil water into steam. From providing comfort humidity to meeting the strictest clean-room requirements, the RTS humidifier is designed to meet the humidification demands of any building environment.

While reverse osmosis or deionized water will grant you the best accuracy with the RTS humidifier, any type of water can be used. Drain rates are automatically determined by the quality of the incoming water, and integrated drain water tempering is standard on every unit.

Many dispersion options are available for the RTS, including matching Space Distribution Units that can disperse steam with no visible vapor trail (SDU-I-RX).

WHY CHOOSE RTS HUMIDIFIER

Application Flexibility

- Capacity from 6 to 324 lbs/hr (2.7 to 147 kg/h), link up to 8 units for capacity up to 2,592 lbs/hr (1,176 kg/h)
- Incorporates universal water control for use with any water type - tap, softened, or RO/DI
- Integrated drain water tempering automatically cools discharged hot water to 140°F (60 °C)
- Enclosures for virtually any environment. Outdoor or indoor, or factory-HVAC installed.

Precise Control

- 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 allow one-sided access to the tank and electrical connections
- Large clean-out and heater plate allows for easy access when cleaning the tank
- 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

Learn More



COMPREHENSIVE CONTROL WITH VAPOR-LOGIC CONTROLLER

The RTS humidifier with Vapor-logic® control and touchscreen interface sets a new standard 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 kW	Stages Contactors	Current draw (amps)										
	lbs/hr	kg/h			Single-phase						Three-phase				
					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.

The standard Short Circuit Current Rating (SCCR) for the RTS humidifier is 5kA. A 65kA rating is available as an option.



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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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