

# COMFORTSTEAM™ CFS Series

## Self-Generating Electronic Steam Humidifier



### PRODUCT DATA SHEET



The wall-mounted CFS Series offers a self-contained compact package.

#### Features:

- **Technology:** A commercial and industrial proven electronically controlled humidifier based on electrode steam generation within a plastic steam cylinder
- **Mounting:** Easy to mount via two lag bolts (included)
- **Steam Output:** Includes stainless steel duct distributor tube
- **Water Inlet:** Located on the bottom of the unit via 1/4" compression fitting
- **Drain Connection:** Located on the bottom of the unit and connects to a 1" drain line (included)
- **Basic Control:** Connects to external humidistat provided as part of this entire humidification system
- **Airflow Detection:** Includes connection to an external air-proving switch
- **System Fault Monitoring:** Via single LED
- **Water Hardness:** 3 to 36 grains per gallon; water filtration not necessary
- **Water Conductivity:** 125-1250 micro-Siemens per centimeter ( $\mu\text{S}/\text{cm}$ )
- **Supply Water:** 20 psi minimum and 100 psi maximum
- **Steam Cylinder Life:** Normal residential applications typically require one steam cylinder charge per year depending on water quality and run time

#### Introduction:

TRION®'s COMFORTSTEAM™ CFS20 & 22 Self-Generating Electronic Steam Humidifiers combine the purity of electrode-based steam humidification with the automation of electronic monitoring and control to provide a complete, easy-to-implement solution for your high capacity residential applications. This same design was proven in commercial and industrial applications and now has been cost-reduced, offering the same professional level of performance to residential markets.

The CFS units ship with everything needed for installation and operation including: generator chassis assembly, humidistat, fan proving switch, stainless steel duct distributor, and a steam hose. All that is needed is: AC power, the water supply line, a drain line, and a place in which to connect the steam hose output. With the simplicity of the integrated electronic control, all the user needs to do is turn on the power.

All unit monitoring is accomplished with internal microprocessor and fault conditions that are indicated through a single LED that is either off, on, slow blink, or fast blink to signal different faults.

With the "No-Cleaning-Required" humidification system, all that's required is replacement of the easy access, inexpensive, internal steam cylinder.

The CFS20 at 115VAC can deliver 11.5 gallons per day of steam output. Supporting higher capacity requirements, the CFS22 powered at 230VAC delivers double the output to 23 gallons per day. Both the CFS20 & CFS22 are ETL listed.

#### Applications:

- Residential
- Humidors
- Resort Homes & Condos
- Light Commercial
- Large Homes
- Small Offices
- Computer & Server Rooms
- Clinics/Medical Offices

#### Warranty:

- 24 Months from Install; 30 Months from Shipment (Excludes Replaceable Steam Cylinder)

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**Specifications and Electrical Connections:**

Model	CFS20	CFS22
<b>Maximum Humidification Capacity</b>	4 lbs/hr or 11.5 gpd or 1.8 kg/hr	8 lbs/hr or 23 gpd or 3.6 kg/hr
<b>Supply Voltage</b>	115VAC Single Phase 50/60 Hz	230VAC Single Phase 50/60 Hz
<b>Supply Amperage</b>	11.5 Amps (Recommend connection to a dedicated 15A circuit)	
<b>Power Consumption</b>	1.33kw at 115VAC	2.66kw at 230VAC
<b>Humidistat</b>	Includes external humidistat	
<b>High Limit Humidistat</b>	Not included but unit connection is available	
<b>Air Proving Switch</b>	Includes external air proving switch	
<b>Weight</b>	29 lbs (13.2 kg) shipped; 27 lbs (12.2 kg) in operation	
<b>Cabinet Dimensions (Approx.)</b>	18" H x 11" W x 9" D (457 H x 279 W x 229 D mm)	



Front View



Front View, Face Removed

Indoor Air Quality Since 1947.

ISO 9001:2008 Certified.

Industry Memberships:



Proudly Designed,  
Engineered, and  
Manufactured in the USA.\*



\*Manufactured with domestic  
and foreign components.

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