About Us

DegreeC engineers airflow and delivers innovative airflow and thermal solutions for mission-critical applications. We manufacture sensors, alarms, embedded controllers and R&D tools for system performance testing, and control solutions that deliver precise air flow where and when it is needed most. For 20 years, industry leaders from a wide variety of markets turn to us for their airflow and thermal management needs - explore the solutions we offer for your industry.

Visualization

The °C Breeze visualization system is used by the Certification industry for critical containment in laboratory, manufacturing, cleanroom, climate and comfort applications. Industrial hygienists, Certifying companies, OSHA accreditors, and Educational institutions around the world come to degreeC for our visualization products.

Airflow & Room Pressure Alarms

The Rooster line of airflow monitors provide airflow safety monitoring, with communication interfaces to products and buildings, and are used in laboratory and manufacturing environments. Chemical fume hood and biosafety cabinet OEM’s around the world leverage degreeC for our controls and sensing expertise.

Air velocity Sensors

Degree Controls’ air velocity sensors are used around the world inside products where airflow is critical to function, safety and efficiency. Setting a new standard for design-in flexibility, all degreeC sensors are available in analog and digital outputs, and with configurable alarm points, averaging functions, and in many mechanical packaging styles.
Important Notes & Warnings

- Keep the unit upright.
- Always remove the battery or unplug the power adapter to your °C Breeze Instrument prior to filling the reservoir.
- Remove the battery or unplug the power adapter when not in use.
- Only use original equipment battery charger and do not overcharge the battery.
- Once charged, remove from charger and store.
- Do not fully discharge the lead acid battery to zero volts as this damages the battery permanently.
- Do not store battery in uncharged state.
- This machine is not water or splash proof, keep the unit dry,
- Never aim the output nozzle directly at people.
- Always drain Fog Fluid from tank before shipping or transporting this unit.
- If your °C Breeze fails to work properly, discontinue use immediately. Drain all Fog Fluid from the tank, remove battery, pack the unit securely (preferably in the original packing material) and contact sales@degreeC.com for an RMA.
- Do not exceed 60 minutes continuous use when using the optional dedicated power supply accessory.
- Never leave the unit running unattended.
- The fog vapor at point of release is hot.
- Never drink Fog Fluid, and rinse skin or eyes when they come in contact with Fog Fluid.
- Use in a well ventilated area and do not cover the vents on the front of the °C Breeze.
- Always aim the °C Breeze fog nozzle away from flammable materials.
- Do not exceed 60 minutes continuous use when using the optional dedicated power supply accessory.
- Always allow your °C Breeze to cool down before attempting to clean or service it.
- Do not exceed 60 minutes continuous use when using the optional dedicated power supply accessory.
- Do not store battery in uncharged state.
- This machine is not water or splash proof, keep the unit dry,
- Never aim the output nozzle directly at people.
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- Use in a well ventilated area and do not cover the vents on the front of the °C Breeze.
- Always aim the output nozzle away at open flames, and keep output nozzle away from flammable materials.
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Dedicated Power Supply Accessory

When desired, the °C Breeze can be powered by an optional power adapter which plugs into a standard electrical outlet. The adapter connects to a dummy battery which plugs into the battery slot on the °C Breeze. This allows for extended operation of the °C Breeze of up to 60 continuous minutes.

Wireless Remote Control Accessory Operation

An optional Wireless Remote Control is available from Degree Controls, Inc. When using the Wireless Remote Control, always ensure the battery is fully charged, or use the dedicated power supply accessory with dummy battery. Always ensure the °C Breeze has sufficient fog fluid. Using a miniature screw driver, set the °C Breeze into Momentary mode before beginning to use the Wireless Remote Control accessory.

- **Preparation:**
  - Connect receiver to °C Breeze as shown above.
- **To start fog generation:**
  - Press the A button on the remote.
- **To stop fog generation:**
  - Press the B button on the remote. Fog will stop within 10 seconds. Remove the receiver from the °C Breeze when not in use.
Unpacking & Inspection
Open the shipping carton, open the °C Breeze case and confirm all components are inside and intact. If any of the equipment is damaged or not working properly, contact sales@degreeC.com immediately.

Your °C Breeze instrument contains:
• Carrying case with keys
• °C Breeze Instrument
• Extension tube
• 12V rechargeable battery
• Battery charger and international plugs
• 500 ml bottle of °C Breeze Fog Fluid
• °C Breeze user manual
• °C Breeze Quick Start Guide

Initial Setup
• Remove reservoir cap and fill the unit with °C Breeze Fog Fluid.
• Replace reservoir cap and do not overtighten.
• Charge the battery for 8 hours by plugging the adapter onto the battery and into a grounded electrical outlet.
• The green LED on the charger should illuminate during charging. Subsequent charge time is 2-3 hours.
• Align the battery’s electrical terminals with the receiving terminals inside the °C Breeze, and slide inside, making sure the battery clip latches in place.
• The charge will last approximately 10-15 minutes depending on fog quantity selected.

Operation
The °C Breeze operates with or without the extension tube and requires almost no warm-up time. The user can set the unit’s two side-mounted toggle switches in order to adjust to an operational preference.

Momentary vs Latching Mode:
This toggle switch setting determines how the push button will operate. In Momentary Mode (→), the fog flow will start when the button is pressed, and stop when the button is released. In Latching Mode (←), the fog will flow when the button is pressed and released, and will keep running until the button is pressed a second time. Move the switch as indicated by the label on the °C Breeze.

High vs Low Flow Mode:
This toggle switch sets the fog fluid consumption rate, in order to maximize battery life between charges. In Low Flow Mode (←), the consumption rate is reduced by approximately 50%, and the runtime is extended 30%. In High Flow mode, the unit outputs the maximum fog volume possible.

Begin by pressing the button on the handle, and the green LED will turn on. Fog will be produced within 1 second. When fog is turned off, the green LED will flash for approximately 7 seconds while the unit shuts down.

Battery
When the LED turns Red the battery needs to be charged. The °C Breeze will still be able to produce fog for short period of time after the red LED begins flashing. It is important to then remove and charge the battery; especially should the °C Breeze be stored. To remove the battery, push the battery retaining clip upwards, and pull out the battery out of the back of the °C Breeze.

Fog Dispersion
The machine can be operated at an angle that ensures the fog fluid in the bottle is drawn into the machine. In practice this means that, provided the reservoir is full, the unit can be used to generate fog ±45° from the horizontal plane. Before using the machine, make sure that the filler cap is tight, but not over tightened.

Fog Dispersion Accessories
Three additional nozzle assemblies are available for the fog visualization professional, design to enhance the delivery in a variety of ways.

FlowBulb, PN 51300AS003:
Designed to absorb the fog momentum, and reduce the volume dramatically. This is useful in settings with very slow flow profiles, where the momentum of the fog as it exits the °C Breeze must be eliminated, and the volume of fog needs to be minimized for proper visualization.

MiniFlow, PN 51300AS004:
Designed to direct the fog through a very small orifice, which is useful in leakage testing and wind profiling.

PlanarFlow, PN: 51300AS005:
Designed to cast a planar fog flow, useful for broadcasting the fog across a door or window frame, or for testing ante rooms, clean rooms and face areas of critical containment cabinets.

Always clean the extension tube after use, and do not be concerned about condensation inside the nozzle during operation. If you experience low output, pump noise or no output at all, remove the battery immediately. Check fluid level and recharge the battery. When the liquid tank is full and the battery is charged, plug the battery in and press the button on the handle to test again.

If the machine is still not working and you are unable to determine the cause of the problem, do not open the case. There are no user serviceable parts inside. Contact sales@degreeC.com for support.

Order from left to right:
FlowBulb, PN 51300AS003; MiniFlow, PN 51300AS004; PlanarFlow, PN: 51300AS005;