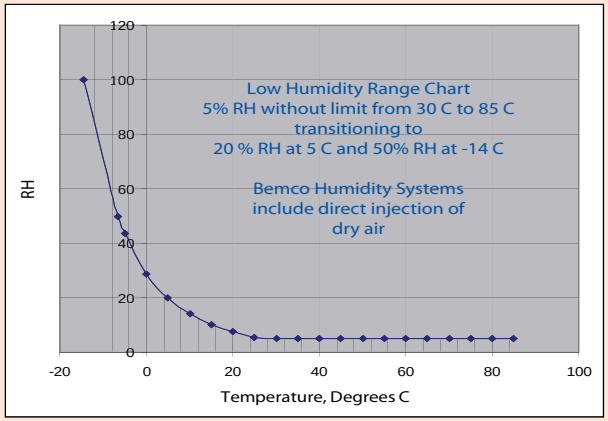
Options

All Standard "FB1.5V" options such as ports, windows, shelves, GN2 purge, LN2 boost, and casters (please request an FB1.5V bulletin) plus:

- A window wiper with an external operating handle.
- A 5-gallon water reservoir with an internal pump, low level sensor, low level alarm and isolation valve to allow system operation without a source of pressurized water. This system requires occasional manual filling.
- A single cartridge, point of use, demineralization system that produces up to 4-liters / minute of water. Includes a water purity indicator.
- Dual cartridge point of use demineralization system with digital water purity monitor.

Prior to selecting a water demineralization system we recommend that you contact a local water conditioning company for a survey of your laboratory's available water supply.



The FW1.5 Series allows you to test your products at low humidity over almost the entire operating range.

Instrumentation

Controls are mounted on the side to prevent dripping from damaging the instruments. Available instruments include:

- Microprocessor-based, FM Approved high over-temperature safety control.
- Set of two, one high and one low microprocessor-based, FM Approved temperature safety controls.
- Remote control over an Ethernet Link.
- 12-inch, two pen, chart printing, circular recorder.
- Strip chart recorder.
- See Bemco Instrument Bulletin for further descriptions.

Bemco Inc.
Focused on Excellence

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805-583-4970
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Description:

Take a giant step forward with a compact Humidity chamber based on the copied but never equaled Bemco FB1.5V, floor standing line of Temperature Chambers.

With a standard desiccant drier and a direct humidity sensor you can reliably test at both high and low humidities.

Why settle for the appearance of testing when you can have a system that actually works?

Choose Bemco, the chamber that others only copy.

Environmental Test and Space Simulation Systems

Contact Us For a Free Quotation or Additional Information

(N) -28 C to 177 C (-20 F to 350 F)
or
(W) -73 C to 177 C (-100 F to 350 F)

5% to 95% RH
5 C to 85 C (41 F to 185 F)

Direct Dry Air Injection!

FW1.5

Bemco Inc.
Focused on Excellence

FW1.5 Humidity Chamber

Bemco FW1.5V-73/177C Back and Top View

Cooling and heating rates are based on the Bemco FB1.5V Series of Temperature Chambers. FB1.5VN (Narrow Range) and FB1.5V (Standard Range) cooling and heating systems are offered. Please request an FB1.5VN or and FB1.5V bulletin to review the available options.

+ or - 1 C (+ or 1.8 F) guaranteed control, + or - 0.15 C (+ or - 0.25 F) typical. + or - 5% RH guaranteed, + or - 1% RH typical. Humidity 5% RH to 95% RH, see chart. 95% RH at 85 C (185 F) maximum.

All electrical wiring meets the United States National Electric Code. U.L. and CSA approved components are used where possible.

Conditioning

Chamber air is recirculated by the same high volume, stainless steel axial fan system located behind a removable rear mounted diffuser baffle included on the Bemco FB1.5V Chambers.

Both single stage and cascade (one refrigeration system cools another to achieve very low temperatures) are available.

Cooling system performance and features match the Bemco FB1.5V and FB1.5VN Compact Temperature Chambers. Consult their bulletin to review the specifications.

Humidity

Chamber humidity is increased by a Bemco mass transfer vapor generator with a sight glass, low water sensor, and automatic drain freeze protection. It can be shutoff and drained when very low humidity control is desired.

Chamber humidity is decreased by the direct injection of -73 C (-100 F) dew point dry air produced by a dual bed regenerative compressed air drier furnished with an isolation valve, an inlet particulate and coalescing filter and an outlet filter regulator.

Construction

FW1.5V Series chambers include the same high quality features offered with the Bemco FB1.5V Chambers plus:

A sloped roof insert to minimize potential water dripping on test objects in accordance with MIL-STD-810 and MIL-STD-202. This feature reduces overall height (shown in the table below) by 1 inch.

A trapped drain line to remove condensed water from the workspace.

A door drip trough to catch condensed water.

Controls

Each Bemco FW1.5 chamber is furnished with a two channel microprocessor based programmable 1/4-DIN solid state 256-step ramping controller which includes a 4-line LCD interface display and a large red LED display.

Temperature inside the FW1.5 chamber is sensed by a precision thermocouple.

Humidity is sensed by a direct reading electronic humidity sensor accurate to + or - 2% RH over the dew point temperature range of -20 C to 85 C (-4 F to 185 F).

Model Number	Interior Height	Interior Width	Interior Depth	Exterior Height	Exterior Width	Exterior Depth	Weight Pounds	Live Load Watts, -55 C
FW1.5	15.5″	14″	12.5″	55.5″	29.5″	29″	1000	450
Air cooled condensing is standard and casters are standard.								

Environmental & Space Simulation Systems

Excellence

Bemco Inc.

Request a Free Quotation or Analysis of your Testing needs. Our experienced engineers are ready to help you.

We Deliver

Bemco chambers really simulate the environments expected. We take your specifications and requirements literally. Our equipment does what we promise and you specify. We are truly focused on Excellence.

Combined Environments

Temperature, Humidity, Altitude, Vibration, Vacuum, Rain, Sunshine, Salt Spray, Sand and Dust, and Gasses. Space Simulation Systems, Walk-in Chambers, Drive-in Rooms, PAO Fluid Chillers, and Air Servos.