Options

- Window and interior light. Window sizes are 12” x 12” and 18” x 18” clear viewing area.
- Access Ports. Sizes are 2”, 3”, 4”, and 6”. One 3” access port in the left wall is provided with each chamber.
- Casters, four swivel type.
- Shelf pilasters and wire-type stainless steel shelves.
- LN2 boost cooling with vent for extra or back-up cooling.
- GN2 gas purge with pressure regulator, gauge, flow measuring and regulating valved rotameter, and vent.
- Desiccant Drier purge with dual tower 10 cfm desiccant drier, pressure regulator, gauge, flow measuring and regulating valved rotameter and vent.
- Two refrigeration gauges mounted in the refrigeration package available with or without isolation valves.

Inventoryation

Controls are mounted on the side or top 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, chart printing, circular recorder.
- Strip chart recorder.
- See Bemco Instrument Bulletin for further descriptions.

Description:

Take a giant step forward with a narrow range Bemco mechanically refrigerated FNR Series High and Low Temperature chamber.

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

Choose Bemco, the chamber that others only copy.

We have 8, 16, 27 and 64 cubic foot standard models, many available on our quick-ship program, and custom units to fit almost any requirement.
FNR Temperature Chamber

Conditioning
Chamber air is recirculated by a high volume, stainless steel axial fan discharging through a hinged rear mounted guard and diffuser baffle to create a uniform environment around your test objects.

The fan is driven by a vertically mounted motor with dual ball bearing races, connected by a large diameter extended stainless steel shaft. Fast-response open type heaters behind a radiation baffle raise chamber temperature as required.

Cooling
A proportionally controlled single compressor refrigeration system utilizing a modern environmentally friendly refrigerant cools the workspace. The system includes automatic hot gas bypass and suction cooling unloading.

All systems have thermal and current sensors on the compressor, charging valves, and a sight glass as well as numerous safety and reliability protection systems for dependable operation.

Construction
FNR Series chambers include a 304 Series stainless steel welded liner with high temperature fiberglass insulation. No asbestos is used in chamber construction. Outer cases are fabricated from cold rolled steel finished in Bemco Blue. Chamber doors feature Bemco's plug door to minimize problems with expansion and contraction on the door face and dual gaskets to greatly reduce thermal losses near the door face. An over-center Bemco cam-type latch seals the door.

Controls
Each Bemco FNR chamber is furnished with a 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 FNR chamber is sensed by a precision thermocouple. An RS232 and RS485 interface are standard. Heaters are interlocked with a separate heavy duty power contactor and a factory preset high temperature safety control.

Environmental & Space Simulation Systems

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

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

Bemco Inc.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Interior Height</th>
<th>Interior Width</th>
<th>Interior Depth</th>
<th>Exterior Height</th>
<th>Exterior Width</th>
<th>Exterior Depth</th>
<th>Weight Pounds</th>
<th>Live Load Watts, -55 C</th>
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<td>24”</td>
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<td>30”</td>
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<td>57”</td>
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<td>48”</td>
<td>88” (1)</td>
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<td>77”</td>
<td>2000</td>
<td>2900</td>
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</tbody>
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(1) Add approximately 10” to height near the rear of the workspace for motors. (2) FNR64 - water cooled condensing.