

Mechanical Refrigeration Chambers

Floor Model Units



FD-400 Series
FD-500 Series
FD-200 Series



ASSOCIATED
ENVIRONMENTAL SYSTEMS

Unit Specifications

Model	Working Volume	Dimensions (H x W x D)	Temperature Range	Temperature Rise Time	Temperature Pull Down Time	Power Required
FD-405	5 Cubic Ft.	Int: 20" x 22" x 20" Ext: 65" x 31" x 44"	-17°C to +177°C 0°F to +350°F	Room Ambient to Upper Limit in Approx. 20 Minutes	Room Ambient to Lower Limit in Approx. 20 Minutes	220V 1 Phase 60 Hz
FD-408	8 Cubic Ft.	Int: 24" x 24" x 24" Ext: 70" x 33" x 48"	-17°C to +177°C 0°F to +350°F	Room Ambient to Upper Limit in Approx. 20 Minutes	Room Ambient to Lower Limit in Approx. 20 Minutes	220V 1 Phase 60 Hz
FD-410	10 Cubic Ft.	Int: 28" x 24" x 27" Ext: 71" x 33" x 52"	-17°C to +177°C 0°F to +350°F	Room Ambient to Upper Limit in Approx. 20 Minutes	Room Ambient to Lower Limit in Approx. 20 Minutes	220V 1 Phase 60 Hz
FD-413	13 Cubic Ft.	Int: 28" x 28" x 28" Ext: 71" x 37" x 52"	-17°C to +177°C 0°F to +350°F	Room Ambient to Upper Limit in Approx. 20 Minutes	Room Ambient to Lower Limit in Approx. 20 Minutes	220V 3 Phase 60 Hz
FD-421	21 Cubic Ft.	Int: 32" x 32" x 32" Ext: 76" x 41" x 52"	-17°C to +177°C 0°F to +350°F	Room Ambient to Upper Limit in Approx. 20 Minutes	Room Ambient to Lower Limit in Approx. 20 Minutes	220V 3 Phase 60 Hz
FD-505	5 Cubic Ft.	Int: 20" x 22" x 20" Ext: 65" x 31" x 44"	-37°C to +177°C -35°F to +350°F	Room Ambient to Upper Limit in Approx. 20 Minutes	Room Ambient to Lower Limit in Approx. 35 Minutes	220V 1 Phase 60 Hz
FD-508	8 Cubic Ft.	Int: 24" x 24" x 24" Ext: 70" x 33" x 48"	-37°C to +177°C -35°F to +350°F	Room Ambient to Upper Limit in Approx. 20 Minutes	Room Ambient to Lower Limit in Approx. 35 Minutes	220V 1 Phase 60 Hz
FD-510	10 Cubic Ft.	Int: 28" x 24" x 27" Ext: 71" x 33" x 52"	-37°C to +177°C -35°F to +350°F	Room Ambient to Upper Limit in Approx. 20 Minutes	Room Ambient to Lower Limit in Approx. 35 Minutes	220V 1 Phase 60 Hz
FD-513	13 Cubic Ft.	Int: 28" x 28" x 28" Ext: 71" x 37" x 52"	-37°C to +177°C -35°F to +350°F	Room Ambient to Upper Limit in Approx. 20 Minutes	Room Ambient to Lower Limit in Approx. 35 Minutes	220V 3 Phase 60 Hz
FD-521	21 Cubic Ft.	Int: 32" x 32" x 32" Ext: 76" x 41" x 52"	-37°C to +177°C -35°F to +350°F	Room Ambient to Upper Limit in Approx. 20 Minutes	Room Ambient to Lower Limit in Approx. 35 Minutes	220V 3 Phase 60 Hz
FD-205	5 Cubic Ft.	Int: 20" x 22" x 20" Ext: 65" x 31" x 44"	-65°C to +177°C -85°F to +350°F	Room Ambient to Upper Limit in Approx. 20 Minutes	Room Ambient to Lower Limit in Approx. 60 Minutes	220V 1 Phase 60 Hz
FD-208	8 Cubic Ft.	Int: 24" x 24" x 24" Ext: 70" x 33" x 48"	-65°C to +177°C -85°F to +350°F	Room Ambient to Upper Limit in Approx. 20 Minutes	Room Ambient to Lower Limit in Approx. 60 Minutes	220V 1 Phase 60 Hz
FD-210	10 Cubic Ft.	Int: 28" x 24" x 27" Ext: 71" x 33" x 52"	-65°C to +177°C -85°F to +350°F	Room Ambient to Upper Limit in Approx. 20 Minutes	Room Ambient to Lower Limit in Approx. 60 Minutes	220V 1 Phase 60 Hz
FD-213	13 Cubic Ft.	Int: 28" x 28" x 28" Ext: 71" x 37" x 52"	-65°C to +177°C -85°F to +350°F	Room Ambient to Upper Limit in Approx. 20 Minutes	Room Ambient to Lower Limit in Approx. 60 Minutes	220V 3 Phase 60 Hz
FD-221	21 Cubic Ft.	Int: 32" x 32" x 32" Ext: 76" x 41" x 52"	-65°C to +177°C -85°F to +350°F	Room Ambient to Upper Limit in Approx. 20 Minutes	Room Ambient to Lower Limit in Approx. 60 Minutes	220V 3 Phase 60 Hz

Standard Features:

- Programmable Controller with RS232C
- Stainless Steel Interior
- Casters
- Multipane Viewing Window in Door
- Internal Light with External Switch
- 2" Diameter Access Port & Plug
- Adjustable High Temperature Safety (Digital Set Digital Indicating)

Options:

- IEEE-488 Computer Interface
- Chart Recorder
- Additional Ports
- Shelves
- CO₂ or LN₂ Option for Faster Pulldown
- Optional Voltage

Ultimate performance will be slightly affected by additional windows, ports and ambient air temperature.

In line with our corporate policy of continuing product improvement and quality control, Associated reserves the right to change product specifications without notice.

Associated Environmental Systems

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