AIRSYS Packaged Free Cooling Box

Standalone Free Cooling Solution, 850 CFM – 1800 CFM

- Standalone Free Cooling Box designed for computer and equipment rooms.
- 100% DC powered to provide cooling and ventilation in the event of prime power failure.
- Can act as a master controller for two existing HVAC units to provide seamless changeover to and from mechanical cooling as well as partial free cooling.
- Significantly reduces maintenance cost and extends life of existing HVAC units by minimizing compressor run time.

Optimized Efficiency

- Quieter, more efficient EC centrifugal fan offers greatly improved efficiency compared to conventional AC fans
- PID controller continuously adjusts fan speed to precisely match the internal heat load to minimize energy usage

Exceptional Reliability

- Designed with only two mechanical moving parts: supply fan and damper actuator
- Both parts are built with state of art components chosen for their industry leading quality and long term reliability

Feature Highlights

Customizable Operation

Built-Controller offers compatibility with standard inputs/outputs such as smoke/fire, hydrogen, dirty filter, and FC alarms. Built-in UI allows customization of all operation related parameters (can be password protected).

Remote Monitor/Control Options

Optional communication cards can be ordered for Modbus/RS485, Modbus TCP/IP, IP/Ethernet that enable monitoring of all environmental conditions, alarms, run time, and control for setpoints, manual mode, and scheduling

Built-in Damper Assembly

Fully modulating damper mixes outside air with return air to provide minimum supply air temperature. It can also fully close within 20seconds in the event of fire/smoke alarm.

Dual Layer Exterior Protection

Galvanized steel exterior coated with an additional layer of thermoset polymer provides two layers of maximum protection against corrosion.

Extreme Temperature Range

Designed for operation between -20°F and 127°F ambient temperature with optional upgrade enabling operation at -40°F

Top Exhaust / Bottom Throw Design

Taking advantage of simple physics (hot air rises), the top exhaust, bottom throw design offers higher exhaust temperature and increases the overall system efficiency by as much as 15% when compared to bottom exhaust systems.

AIRSYS

Balance the Environment

TECHNICAL DATA

Model			OD.PCK.18F1	OD.PCK.36F2
Power supply			48V DC	48V DC
Fan	Type		EC Centrifugal Fan	EC Centrifugal Fan
	Power Input	kW	0.2	0.4
	Air Volume (1)	CFM	1,290	2,580
	Air Volume (2)	CFM	854	1,800
Sensible Capacity	△T=5°C /9°F (2)	kW	2.4	5.0
		Btu	8,164	16,880
	△T=10°C /18°F (2)	kW	4.8	9.90
		Btu	16,327	33,770
	△T=12°C /21.6°F (2)	kW	5.7	11.9
		Btu	19,593	40,530
Dimensions	Width	in	25.6	29.5
	Depth	in	21.7	24.8
	Height	in	52.0	63.8
	Weight	lbs.	143.3	253.5
Temperature Range (3)		°F	-20°F to 127°F	-20°F to 127°F
Max Noise Level (4)		dBA	55	58

(1) Fan specification at 0 Pa static pressure

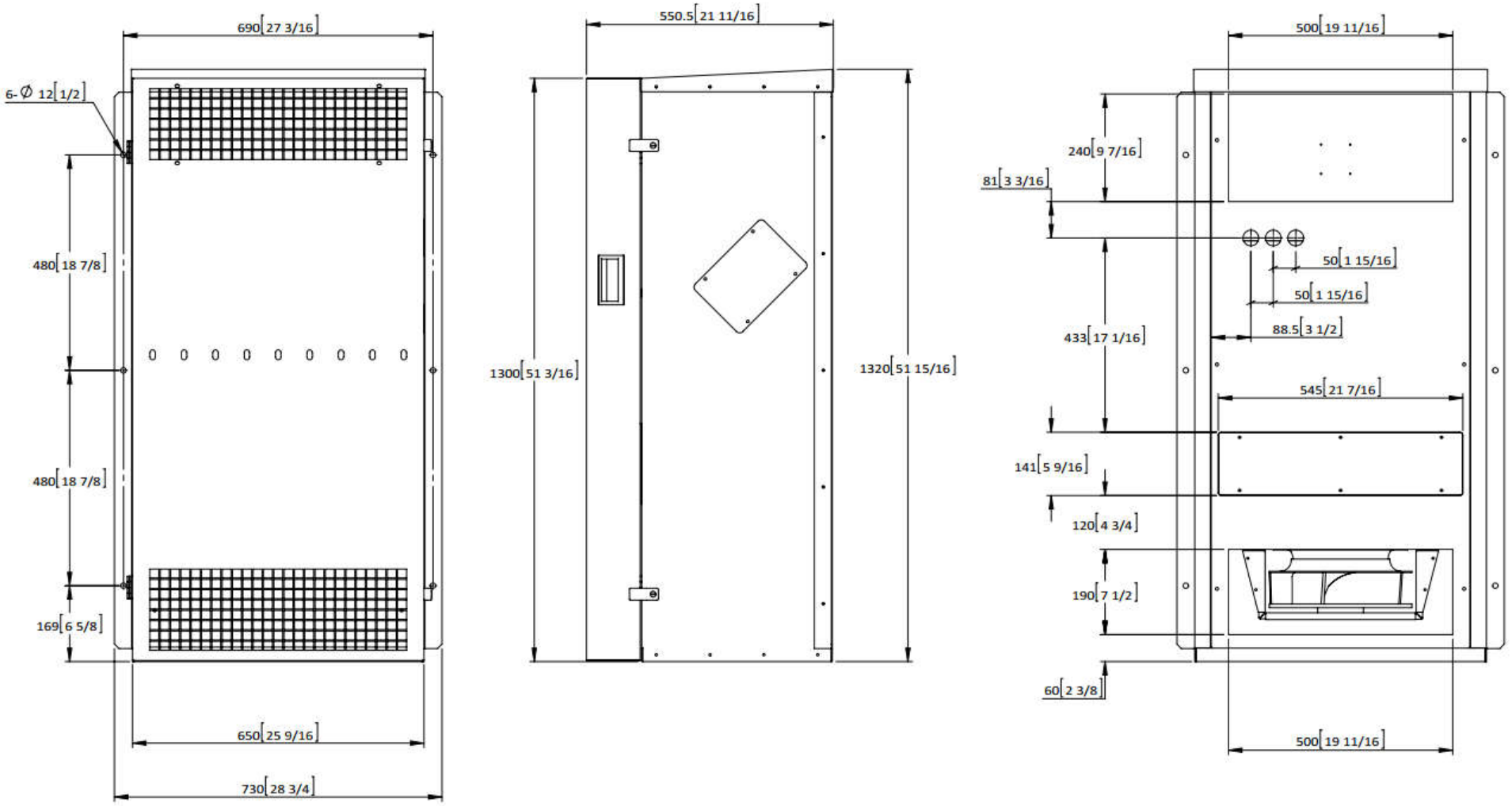
(2) Measured with standard 4'' pleated filter and 50Pa additional static pressure.

(3) Can be upgraded to Extreme Cold version with temperature range -40°F to 127°F.

(4) Measured at 95°F and 6.5ft away from source. Actual sound level may vary due to temperature, distance, and building geometry.

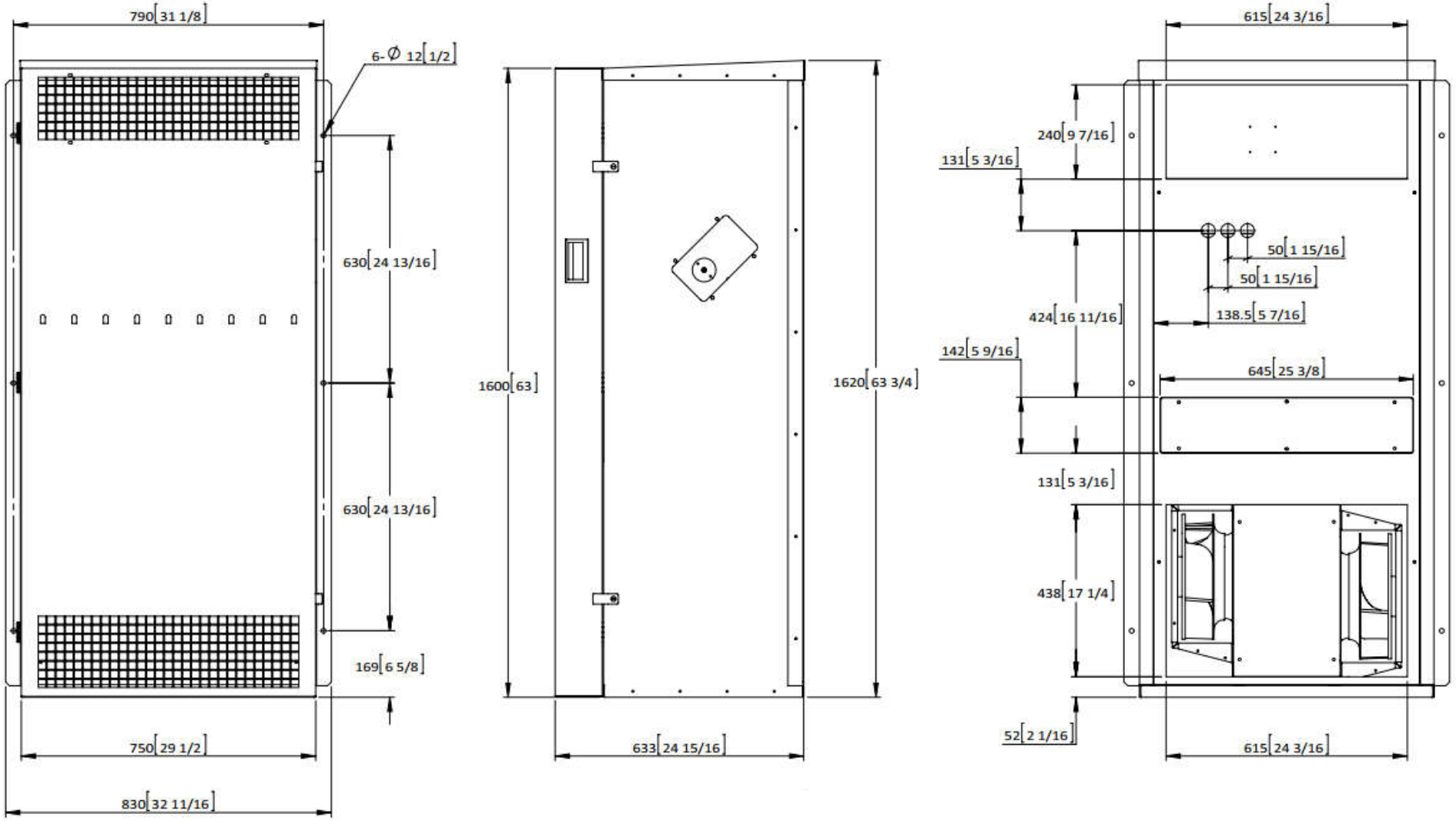
UNIT DIMENSIONS

FCB Model OD.PCK.18F1



UNIT DIMENSIONS

FCB Model OD.PCK.36F2



UNIT DIMENSIONS

Indoor Control Box for Extreme Cold Version