



Jetaire® DX Boost Preconditioned Air Units

A solution to reduce operating costs



Jetaire® DX Boost 85 Ton & 130 Ton Technical Specifications

The JBT AEROTECH DXBoost is an electric powered, automatically controlled air conditioning / air handling unit that provides ventilated, cooled, dehumidified, filtered and optionally heated air to commercial and military aircraft. This environmental support is intended to provide comfort to the passengers and crew of a docked aircraft during servicing, loading and maintenance. In addition, the unit is designed to operate in a hanger application.

The JBT AEROTECH DX Boost unique design utilizes chilled water for first stage cooling and a traditional vapor cycle direct expansion refrigeration system (DX) for second stage cooling. Heat from the second stage DX system is rejected to the returning chilled water through a series of shell-and-tube heat exchangers. This design allows for delivery of the extremely cold 24° F (-4°C) delivered air temperatures desirable to effectively cool large aircraft through the aircraft's 8-inch (200 mm) PCAir entry port(s)

Physical Characteristics

	DXB 85	DXB 130
Length	160" - 4064 mm	160" - 4064 mm
Width	88" - 2235 mm	88"- 2235 mm
Height	61" - 1549 mm	61"-1549 mm
Weight	5,900 lbs -2676 kg	7,500 lbs-3401 kg
Compressor Type	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Refrigerant Type	R-134A	R-134A
Rated Electrical	380V-3ph-50Hz	380V-3ph-50Hz
FLA	161 Amps	224 Amps
MCA	200 Amps	350 Amps
Design Ambient	95° F (35° C) db 81° F (27° C) wb	95° F (35° C) db 81° F (27° C) wb

Performance

	DXB 85	DXB 130
Nominal Compressor Capacity	75 Ton	100 Ton
Actual Compressor Capacity	21 Tons (72 kW)	35 Tons (122 kW)
Actual Chilled Water Capacity	50 Tons (171 kW)	97 Tons (341 kW)
CW Supply Flow	180 gal/min (11.4 L/sec)	277 gal/min (17.5 L/sec)
CW Supply Temperature	44.6° F (7° C)	44.6° F (7° C)
CW Return Temperature	55.5° F (13.1° C)	58° F (14.4° C)
Supply Airflow	340 lb/min (154 kg/min)	550 lb/min (249 kg/min)
Supply Air Pressure	22 inches WC (5.4 Kpa)	35 inches WC (8.7 Kpa)
Maintaining Aircraft Cabin Temperature (at cooling)	72° +/- 2° F (22° +/- 1° C)	75° +/- 2° F (22° +/- 2° C)



Standards and Specifications:

- AITA, ASHARE, SAE, IEC, UL 1995, and local standards



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