

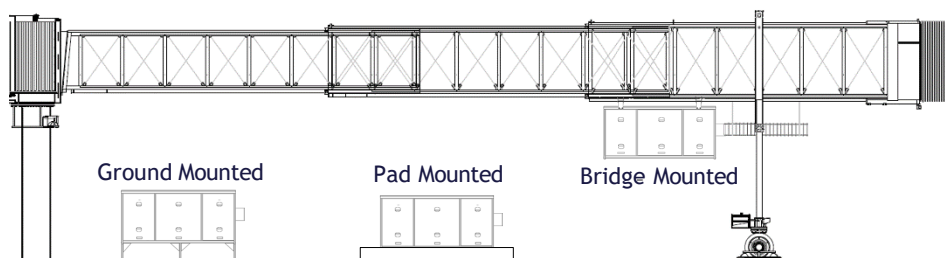


Point-of-Use (PoU) PCAir - 60Hz DX/Glycol/Chilled Water Hybrid

Top Performing Cooling and Heating Built to Last

IMPROVE YOUR AIR

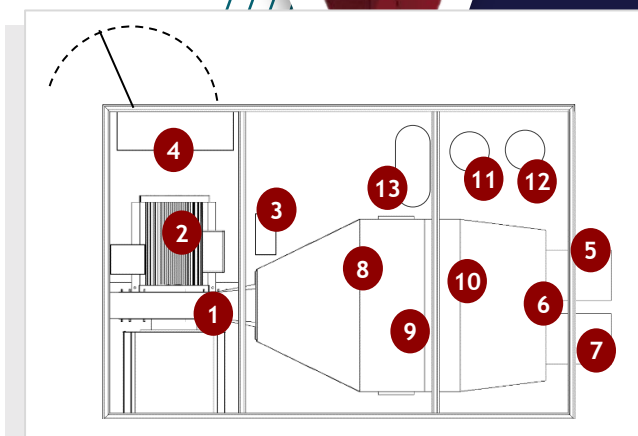
- ▶ Provide subfreezing temperature to aircraft with standard chilled water temperatures
- ▶ Cooling and heating performance exceeding aircraft requirements
- ▶ Customer-focused features and options, like special air filtration and minimized defrost cycles



Email: sales@bgsegroup.com
Web: www.bgsegroup.com

Components by Model

	BGHB045	BGHB060	BGHB90	BGHB120
1 Blower				
2 TEFC Blower Motor				
3 Blower Motor VFD				
4 Electrical Box	✓	✓	✓	✓
5 Main Air Outlet	✓	✓	✓	✓
6 Optional PBB Cool Outlet	✓	✓	✓	✓
7 Optional 2nd Air Outlet		✓	✓	✓
8 Stage 1 Cooling Coil	✓	✓	✓	✓
9 Stage 2 Cooling Coil	✓	✓	✓	✓
10 Stage 3 Cooling Coil			✓	✓
11 Stage 2 compressor	✓	✓	✓	✓
12 Stage 3 compressor			✓	✓
13 Condenser Heat Exchanger				



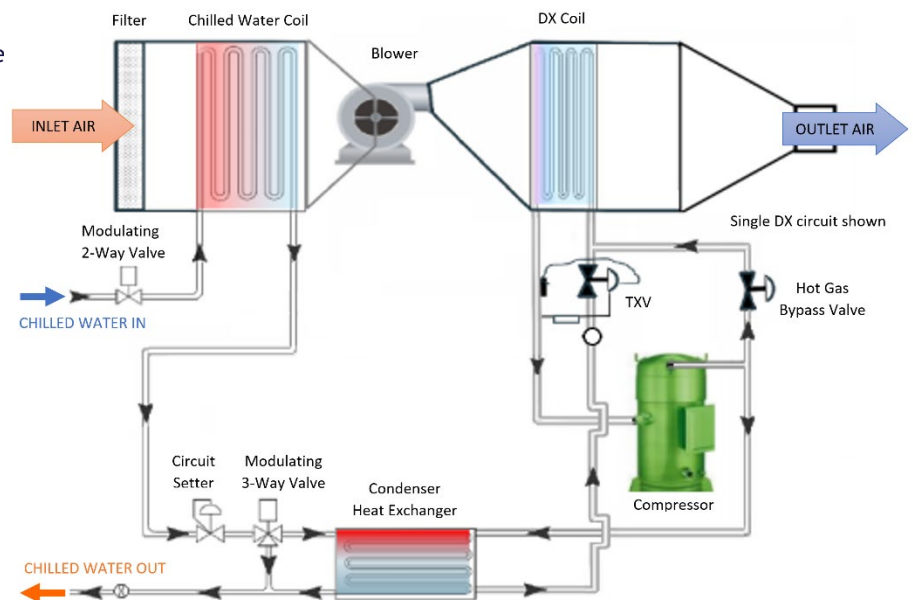
Design Ambient:	95°F (35.0°C) dry bulb 78.0°F (25.6°C) wet bulb			
	Ambient Limits: -40°F (-40°C) to +125°F (+51.7°C) 0%-100% RH			
Model Number/Capacity	BGAC045A / 45-ton	BGAC060A / 60-ton	BGAC090A / 90-ton	BGAC120A / 120-ton
Electrical (V / Ph / Hz)	480 V / 3 ph / 60 Hz			
Cooling FLA / MCA / MOP	91 / 125	106 / 150	149 / 200	171 / 225
Heating kW - MCA / MOP				
Standard Heater	36 kW - 76 / 125	54 kW - 107 / 150	72 kW - 139 / 200	90 kW - 172 / 225
Large Heater	54 kW - 103 / 125	72 kW - 134 / 150	90 kW - 166 / 200	120 kW - 218 / 225
Per NEC 440.33				
Blower	40 BHP, Centrifugal	50 BHP, Centrifugal	60 BHP, Centrifugal	80 BHP, Centrifugal
Mass Airflow (Variable)	284 ppm @ 28 "WG	340 ppm @ 30 "WG	480 ppm @ 36 "WG	588 ppm @ 42 "WG
Mass Airflow (Variable)	2.15 kg/s @ 7.1 kPa 3,830 CFM	2.57 kg/s @ 7.6 kPa 4,590 CFM	3.63 kg/s @ 9.2 kPa 6,480 CFM	4.45 kg/s @ 10.7 kPa 7,940 CFM
Volumetric Airflow	(6510 m³/h)	(7790 m³/h)	(11,000 m³/h)	(13,480 m³/h)
Discharge Air Temp	24 to 40°F (-7.2 to 4.4 °C) Defrost interval: 20-90 Min.			
Sound Level	79 dBA average @ 15 ft.			
Cooling Coils	6 row / 4-row, tube material Cu / fin material Al (enhances)			
Meets Airbus Compliance Document for Suppliers X21RP1146224_v7, Boeing Aircraft Maintenance Manuals (AMM) and Facility Planning Guides IATA AHM 974 and IATA AHM 997, AHRI-410. Listed by ETL to UL-1995:2015. Specifications subject to change without notice.				

Optional Features

- ▶ Single or Dual Hose Outlets + Bridge Cool
- ▶ Coil Coating: Baked Phenolic Epoxy (25 microns), High Performance coating from Heresite®
- ▶ Apron Management System Interface (Ethernet or Modbus)
- ▶ Boarding Bridge Cooling / Heating and Controls
- ▶ Delivery Hose (style / length) and Connectors
- ▶ Hose Storage and Retrieval Systems
- ▶ Standard and High-Capacity Heating Coils
- ▶ Aircraft Cabin or Bridge Temperature Probe

Typical operating conditions

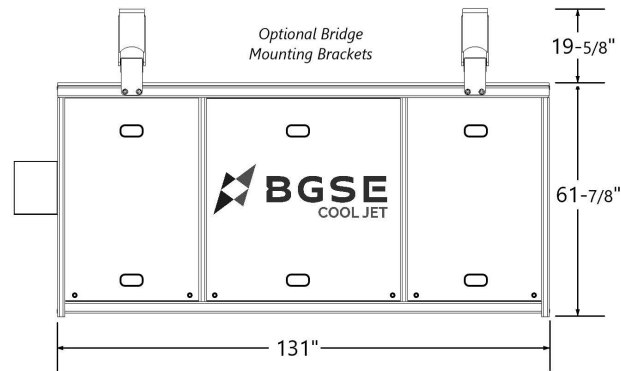
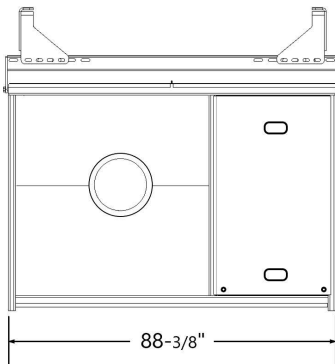
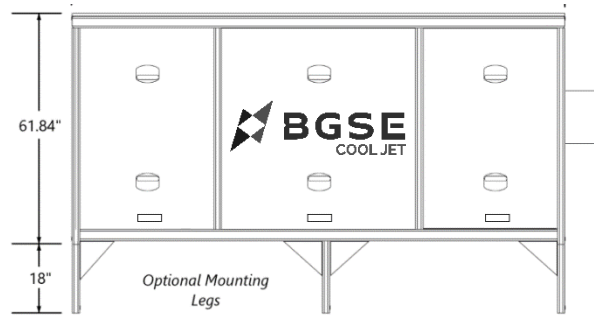
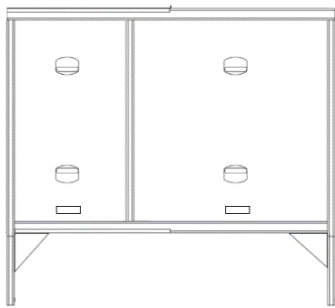
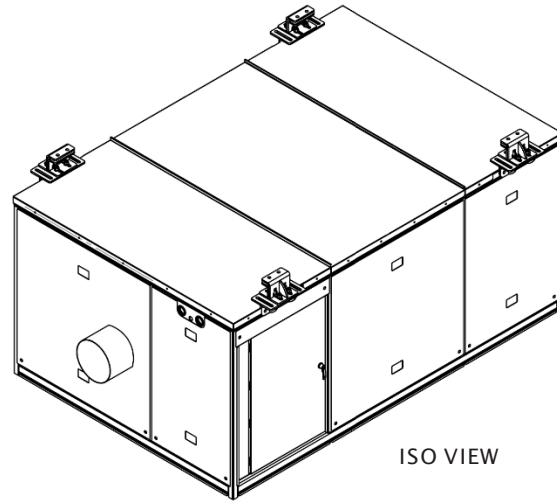
- ▶ Ambient Air Conditions: 95°Fdb/80°Fwb
- ▶ Entering Chilled Water Temp: 45°F
- ▶ Water Flow Rate: 40 gpm
- ▶ Coil Water Pressure Drop: 8ft head
- ▶ Water Delta Temp: 30°F (condenser and chilled water coil)
- ▶ Discharge Air Temp: 25°F





Point-of-Use (PoU) PCAir
DX/Glycol/Chilled Water Hybrid

Weights	
45-ton	3,200 lbs. (1,270 kg)
60-ton	3,400 lbs. (1,315 kg)
90-ton	3,700 lbs. (1,451 kg)
120-ton	5,200 lbs. (2,087 kg)



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