



## Off-the-Shelf Industrial Air Conditioners

*Standardized Through-the-Wall, Split and Roof-Mount Units Designed for Long Life in Harsh Industrial, Marine and Military Conditions*

### These Are Standard Features for BSDE, Not Options:

- ▶ To resist corrosion, all cabinets made of stainless-steel (type 316L) — up to 16 gauge
- ▶ Dust and sand pass through condensers and evaporators without clogging by spacing fins wide apart (no more than ten fins per inch)
- ▶ Anti-corrosion epoxy coating (e-coat) electrostatically applied and baked onto every condenser and evaporator
- ▶ Full rated cooling capacity up to 131°F (55°C) — not just up to the normal 95°F (35°C) — and down to 32°F (0°C) without modification or electronic controls provided by low-maintenance patent-pending design (down to -40°F/C as an option)
- ▶ Mechanical controls only — eliminates vulnerability of electronics and their high cost to repair
- ▶ Units meet NEMA 4X and IP56 standards
- ▶ Motors corrosion-protected—totally enclosed and stainless-steel shafts
- ▶ Units have dry condensers—fans do not throw water onto condensers in order to avoid the corrosion caused by mixing the water with corrosive gases and particles in the air
- ▶ Maintenance facilitated by easily-removed insert on slide-in tray, high and low-pressure cut outs, head-pressure controls, refrigerant access valves, isolation valves, accumulators and receivers
- ▶ All units can be modified for hazardous locations (Classes I, II and III, Divisions/Zones 2 or 1)
- ▶ Guaranteed replacement within 48 hours, at our expense, of any standard unit which fails
- ▶ Three configurations available: Through-the-Wall (Window), Split, and Roof-Mount

***IF YOUR AIR CONDITIONER MUST WORK, WE HAVE UNITS WAITING FOR YOU***

## **If BSDE's Standard Features Do Not Exactly Suit Your Needs, We Offer These and More Options:**

- ▶ Built-in 5 KW or 10 KW corrosion-resistant incoloy tubular electric heaters (do not change overall dimensions).
- ▶ Standard models will run on 50 and 60 Hz single-phase current. As an option, most units can be adapted to compensate for capacity lost at 50 Hz or to operate on three-phase current and special voltages.
- ▶ Adaptation for use on vehicles (cranes, workboats, mining equipment and military vehicles) and other applications with vibration or other types of movement.
- ▶ Three configurations all made with the same capacities and to the same harsh-duty standards:  
1) Through-the-Wall (Window); 2) Split; and 3) Roof-Mount.
- ▶ Thermostat isolated so that it can only be adjusted by authorized personnel.
- ▶ Insert designed to be removable from either the inside or the outside of the cabinet.
- ▶ Plastic fan and/or impeller blades.
- ▶ Units can be made suitable for hazardous (explosive) locations classified as Class I Groups B, C or D, Class II Groups E, F or G, or Class III, Divisions/Zones 1 or 2 (Does not change external appearance).
- ▶ Hazardous-duty ("explosion-proof" and "flame-proof") units comply with the T3B temperature standard (even with optional 5 KW and 10 KW heat included) and the AMCA C anti-spark standard.
- ▶ Reciprocating compressors are standard; scroll compressors are an option on most models.



Typical Insert (Modified for Division/Zone 2 Hazardous Location)

### **Who Needs BSDE's Air Conditioners?**

- ▶ Alcohol and Extract Plants
- ▶ Bakeries and Grain Elevators
- ▶ Barges and Bulk-Cargo Ships
- ▶ Cement and Lime Plants
- ▶ Chemical and Gas Plants
- ▶ Ships, Civilian and Military
- ▶ Coal and Coke Plants
- ▶ Corn, Sugar Refineries
- ▶ Crane, Drag Line, and Shovel Cabins
- ▶ Distilleries and Breweries
- ▶ Dry-Cleaning and Dyeing Plants
- ▶ Fertilizer Plants
- ▶ Hospitals
- ▶ Laboratories
- ▶ Waste-Treatment and Sewer Plants, and Land Fills
- ▶ Explosives and Munitions Manufacturers
- ▶ Military Vehicles
- ▶ Mines and Mining Vehicles
- ▶ Munitions and Explosives Storage
- ▶ Offshore Oil Terminals and Platforms
- ▶ Oil Refineries
- ▶ Marine Facilities, Onshore and Offshore
- ▶ Paint Booths
- ▶ Paper, Pulp and Plywood Plants
- ▶ Ship Yards and Dry Docks
- ▶ Steel and Aluminum Mills and Foundries
- ▶ Toll Booths and Tunnels
- ▶ Utility Plants

*If your local retailers or refrigeration distributors do not have the units in stock,  
have them contact the plant directly or contact us yourself.*



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