

Meet The Hottest Tool In Task Cooling

This Unit Isn't Breaking a Sweat.



Introducing FUSION-TEC™ WALL-MOUNT

A DIRECT AIR COOLING SYSTEM ECONOMIZER WITH AN ULTRA-HIGH EFFICIENCY A/C WRAPPED AROUND IT.

Just like the rate of speed data travels, Bard's not slowing down any time soon. After more than a century of groundbreaking innovation, we're ahead of the innovation curve once again with the FUSION-TEC WALL-MOUNT — the new standard in ultra-high efficiency cooling technology.

By minimizing recirculation of heated air and maximizing free-cooling opportunities, FUSION-TEC delivers unparalleled performance, lower operating cost, and exceptional total cost of ownership. It's a breeze to outfit your entire facility with multiple wall-mounts thanks to an easy-to-install design, right-sizing capability, and 2-wire connection between units — And, it's all managed through one home base via our new Programmable Logic Control (PLC) technology.

From the simplified installation process to maintenance notifications, FUSION-TEC is a smart solution for the complex needs of the equipment shelter and telecommunications world and a viable solution for many other industries' equipment building and task cooling needs.



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Climate Control Solutions

BARD FUSION-TEC™ WALL-MOUNT



The new counterflow/reverse airflow wall-mount designed for Equipment Shelter/Building critical needs.

The FUSION-TEC™ WALL-MOUNT innovation maximizes free cooling opportunities through a counterflow/reverse airflow process. Productive outdoor air for free cooling is brought into the system from the lower portion of the chassis. The heat in the shelter/building is pushed up and out of the economizer exhaust at the top of the chassis, completely eliminating any possibility of recirculating hot exhaust. When outdoor air is inefficient for free cooling, the FUSION-TEC system utilizes staged mechanical cooling operation that operates at an IPLV of 15.7, and also satisfies the current and future D.O.E. efficiency requirements.



Featuring easy access for simplified maintenance



Featuring Bard's Exclusive PLC Technology

Bard Manufacturing's revolutionary FUSION-TEC WALL-MOUNT sets the industry standard for flexibility. Engineered to cool virtually any equipment building or shelter, the PLC technology inside FUSION-TEC provides unmatched cooling and unparalleled control over your critical application from a single point, including:

- A Bard LC6000 controller that gives you multi-unit operation up to 14 Bard units with a single controller
- Intelligence and simplicity with an easy-to-use menu format
- Remote access to equipment on the PLC network
- Advanced Unit Diagnostics – when connected to the TEC-EYE™ diagnostic tool, the unit's PLC board is able to display stored alarms and easy-to-read diagnostic information.
- Custom PLC-driven systems are available to meet your needs
- Shelter control is field upgradeable to IPV6 in Q4-17; factory equipped after January 1, 2018.

FUSION-TEC Wall-Mount Performance Highlights

- 90% + ultra-high S/T ratios for extremely effective \$ per usable BTU
- 2-stage compressor, variable speed blower and EEV, giving you precise cooling to match the load over a large range
- Variable speed motors
- Integrated dehumidification mode – monitors the humidity in the shelter and goes into humidity reduction mode if indoor humidity levels exceed set point in LC6000
- Orphan Mode: Unit is capable of running independently if communication to LC6000 is lost
- Simple 2-wire connection between wall mounts and LC6000
- Direct Air Cooling System Economizer – a factory-installed full flow-free cooling is at the heart of the FUSION-TEC innovation, giving you:
 - *The counterflow directs the supply air across the level of equipment and helps push warm air towards top of shelter*
 - *The warmer return air is pulled from ceiling level and ejected to the outside*
 - *Zero recirculation of air leaving shelter — exhaust does not reenter economizer*
 - *The achievable air turnover ratio allows a complete air change in the shelter every minute*
 - *Perfect air mix delivery at all times — modulates based upon precision temperature measurements*
 - *Wide window of operation with equivalent EER efficiencies exceeding 80*
 - *Free cooling functionality may be disabled via software when needed*

Models Now Available Through Bard Distributors

- WR58, 5-ton 11.0 EER 15.7 IPLV unit
- WR36, 3-ton, 12+EER, 17+ IPLV unit – designed as a direct replacement for shelters where 5-ton wall mount units are being replaced.

Specifications

- Voltage: 230/208-1-60 & 230/208-3-60

Security, Safety & Monitoring Features

- Proper operation is verified through alarm notifications
- Outdoor air-quality detection system: An air quality switch keeps dirt and debris out of the area being cooled
- Airflow switch: Monitors blower operation. Settings are field adjustable with alarm signal.
- Dirty condenser coil detection system: Monitors condenser performance with adjustable alarm notification
- Dirty Filter Switch: All models include an airflow switch to monitor pressure drop across the unit filter. This will indicate when a filter change is needed. An indicator light is located on the external surface of the unit.
- Bard Guard theft deterrent system helps protect against copper and coil theft
- Live Superheat calculation display

Third Party Accreditation, Certifications & Validations

- Meets 2019 US Department of Energy minimum efficiency of 11 EER
- AHRI Certified
- ETL Approved
- IECC2015
- California Title 24

Ongoing Support

- Reliable technical support and customer service



The LC6000 can connect and control up to 14 units and FUSION-TEC offers the most standard features of any product in the category.

Breathe easy. You've got Bard.



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