



# Classroom Preferred™ School HVAC Solutions





# Decades of Designing for the Classroom

For over 50 years, Bard Manufacturing has been focused on improving climate control in schools. Back then, we saw many districts wasting money, space and time by installing systems that weren't well-suited for their needs. We knew there was a better way. And we were the perfect company to take on this challenge because we've been innovators in the HVAC industry since 1914. What we came up with was a concept that pioneered the idea of a climate for each room in a school—and has since benefitted hundreds of schools. We call it Classroom Preferred™.



# The Classroom Preferred™ Solution for Every School

Schools are unique environments. They're typically large buildings with lots of different rooms of various sizes. At times, they have dozens of people in them for hours every day, then they're empty for months. But it's what happens inside them that really makes them special—teaching young minds. Because of that, schools need to be safe, healthy spaces so that kids have the best chance to learn. Bard Classroom Preferred™ systems keep all these things in mind.



# A Singular Focus and a Simple Formula

When we first set out to engineer HVAC systems that specifically serve schools, we determined what would have the biggest impact and isolated two main points: emphasizing ventilation and designing them to be one system per classroom. With these goals in mind, we created an entire line of products that have enormous benefits.

## CLASSROOM PREFERRED™ BY BARD

Better Health & Safety

Quiet Operation

Reduced Energy Cost

Smaller Footprint

Budget Friendly

Easier Maintenance

Greater Comfort

Discreet Appearance



## Better Health & Safety

Indoor air quality is important everywhere, but especially for schools. The EPA says, “The developing bodies of children might be more susceptible to environmental exposures than those of adults...Therefore, air quality in schools is of particular concern.” When it comes to good indoor air quality, ventilation is key. But some systems are simply not designed to ventilate. And central air systems combine outside air with recirculated air from other rooms. Bard’s Classroom Preferred™ systems are different. They regularly introduce fresh outside air and exhaust stale room air. And since each room has its own system, air never mixes between rooms. That greatly reduces the risks of spreading airborne pollutants—including viruses and bacteria.



“Per the World Health Organization, most indoor air quality problems in schools can be avoided with adequate outdoor air ventilation during the school day.”

## Reduced Energy Cost

A Classroom Preferred™ system is designed to regulate the climate in just one space—the room it’s installed in—or on a room-by-room basis. It adjusts according to conditions, like whether the room is in a sunny location or if it’s occupied. That individualized approach conserves energy over big four-pipe systems that often operate at peak capacity even if just a few areas need to be heated or cooled.



Green Ridge Elementary School, which uses Bard’s Classroom Preferred™ systems, was recognized as the most energy efficient school in North Carolina’s Montgomery County Schools.

## Budget Friendly

It’s important to spend education dollars wisely. Central-air systems come with construction costs like duct work, chillers, boilers and piping. You’ll continue paying for the upkeep of these over the life of the building. But Classroom Preferred™ are complete, factory-built systems that require little installation labor.



## Greater Comfort

One system per classroom gives each space its own control. That means every classroom is its own ecosystem with more precise temperature, humidity and ventilation management.



“What we liked best overall about the Bard units was having individual control over the environment in each of our classrooms.”

—Phil Couch,  
MAINTENANCE DIRECTOR AND ASSISTANT SUPERINTENDENT  
WILKES COUNTY, N.C.

## Quiet Operation

Noise level is important in classrooms. That's why Bard uses advanced acoustic technology to create optimal sound insulation in our Classroom Preferred™ models. As a result, our systems are quieter than typical classroom background noise.



## Smaller Footprint

Bard's systems free up valuable square footage. Instead of requiring large mechanical rooms for chillers and boilers, interior models take up a minimal footprint in the classroom. Or, if you go with an exterior wall-mount, they take up no floor or ground space at all.

## Easy Maintenance

Even though Classroom Preferred™ systems are the latest in HVAC technology, they are very simple to own. Most customers use their school maintenance staff to perform regular service, saving time and money. Plus, troubleshooting or replacing one unit doesn't require a building-wide system shutdown.

## Discreet Appearance

Classroom Preferred™ systems are designed to blend into the environment. If they're mounted outside, there are many colors to choose from to match the exterior. If they're inside, there are options to incorporate the unit into the classroom.



“With the Bard units and building in a complementary color selection, they virtually disappear on the building. You don't even see them.”

—Larry Stegner,  
MAINTENANCE DIRECTOR  
DARLINGTON COUNTY SCHOOLS, DARLINGTON, S.C.





# Classroom Preferred™ by Everyone

Bard's systems offer benefits that please all interested parties and decision makers.



## Administrators | School Boards

Dollars are spent wisely with Classroom Preferred™. There are no on-going costs beyond normal maintenance and operation of the system itself. And installation—whether new or retrofit—is simple and doesn't require expensive structural work. Because of Bard's focus on ventilation, you'll also have peace of mind, knowing you're giving students and teachers a healthy environment to learn in.



## Engineers

Classroom Preferred™ makes it easy to maximize efficiency, because every system can be specifically designed for the needs of each room. Bard has several series with many models to choose from so you can determine the right fit for your building requirements. Because there's no central system, designing for them is straightforward and you'll be impressed by the low sound levels as well as the ventilation and humidity control options. A stand-alone DDC-compatible commercial controls platform is also available, which allows operation to be customized within pre-set parameters established by the maintenance director.



## Architects

You'll regain useable square footage with Classroom Preferred™ systems by eliminating the need for large mechanical rooms. You also won't have to figure in space for ductwork in the ceilings. And you don't have to worry about aesthetics, because our exterior wall-mounts come in a wide variety of colors so you can choose one that complements your building. Interior models are also available in many colors and some blend seamlessly into the classroom with options like magnetic dry erase board covers or vinyl graphics.

# I-TEC

**SERIES** Interior Solutions

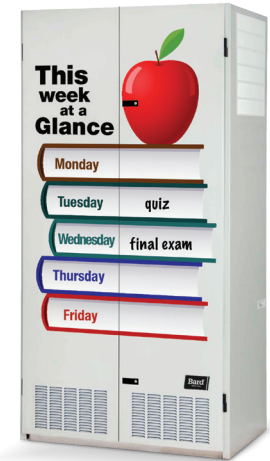
The I-TEC is an interior model that provides superior indoor air quality and the ultimate in quiet operation. Vented above the sill at window level, it's designed to blend in with exterior features.



**IH SERIES**  
Heat Pumps



**IZ SERIES**  
Heat Pumps



**IA SERIES**  
Air Conditioners

## Features and Benefits

- Easily accessible pleated MERV8 air filter standard, optional filters available up to MERV13.
- Corrosion-resistant hydrophilic finned coils resist bacterial growth and shed water quickly, reducing potential indoor air quality issues
- Blower's highly efficient teardrop shape streamlines air for maximum circulation with quiet delivery
- Supply air can be introduced through either a top mount plenum or a ducted system for optimized air circulation and maximized occupancy comfort
- Custom-molded, one-piece drain pan channels moisture to a collection area, minimizing potential mold and mildew formation
- Easily-accessed electrical panel is designed with multiple connections for optional accessories
- Locking doors and optional anti-huffing lock on refrigerant port for added student safety
- Highly efficient 5/16" rifled copper tubing and micro-perforated aluminum fin coils use less refrigerant
- Floating compressor platform absorbs vibration for ultra-quiet operation
- Heavyweight compressor cover and discharge muffler eliminate refrigerant circuit noise
- Eco-friendly, kid-friendly, high-performance insulation made of recycled denim
- Several fresh air ventilation options available to meet current ASHRAE standards
- Wall opening for condenser air is adjustable to match new or existing window height

# Q-TEC

SERIES Interior Solutions

These more budget-friendly interior mounts boast many of Bard's best features. All maintenance and service can be performed inside the building, making multi-story installations simple. There's also a high-efficiency geothermal heating and cooling option.



## QH AND QA SERIES

Heat Pumps and  
Air Conditioners



## QWS SERIES

Geothermal Heat Pumps



## QC SERIES

Chilled Water/Hot Water

## Features and Benefits

- Special “soft start/stop” ECM variable speed motor provides quiet operation
- Integrated energy recovery ventilator available for optimum indoor air quality
- Incorporates proprietary double-isolated floating compressor base to prevent transfer of sound vibration
- Supply air can be introduced through either a top mount plenum or a ducted system for optimized air circulation and maximized occupancy comfort
- A special dehumidification circuit can be specified and used with the humidistat climate control option
- Small unit footprint requires less than 1% of available floor space in the average classroom
- Special sound-deadening insulation material minimizes sound levels
- All Bard equipment includes an industry-leading five-year warranty for compressor and parts
- Totally enclosed condenser motor with double oil reservoir enhances reliability and longevity
- Grooved copper tubing and enhanced aluminum fins provide maximum heat transfer and high energy efficiency levels
- Lockable service door provides easy access to air filters and primary controls
- Built-in rollers make the unit simple to move for installation and servicing
- Stainless steel drain pans for long life and high reliability
- QH Series has a ground-level condenser air path

# Wall-Mount

**SERIES** Exterior Solutions

All of our exterior wall-mounts are installed on the outside of the building, meaning they don't take up any valuable indoor floor space or outside ground space.



**WVH SERIES**  
Variable Speed Heat Pump  
with Inverter Technology



**CH SERIES**  
Step Capacity Heat Pumps



**TS SERIES**  
Step Capacity Heat Pumps

## Features and Benefits

- Floating compressor platform, compressor sound cover, and discharge muffler for quiet compressor operation.
- Optional additional single or 2-stage electric heating.
- Multiple outdoor air ventilation options for improved energy efficiency and occupancy.
- Easy to service filter options up to MERV13. Optional IAQ accessories also available.
- Single or three phase power options with phase monitoring.
- Copper & aluminum coils with corrosion coating options. Hydrophilic indoor coil fin stock resists oxidation & mold/mildew.
- Insulated cabinet using non-fiberglass materials.
- Multiple sound reduction accessories and unit replacement curbs available.

### WVH SERIES

- Yearly energy savings by cooling and heating with inverter technology. Overdrive mode for extended heating and cooling capacities.
- Optional hot gas reheat dehumidification and fully variable speed indoor fan and compressor provide advanced humidity control through all seasons of the year.
- PLC technology provides advanced features, including system pressure monitoring and fully variable fan and compressor control.
- Twin blowers with ECM constant airflow operation for quiet, consistent indoor air operation. Quiet mode operation provides extremely low indoor sound levels.
- ECM axial fan with blow-thru or draw-thru outdoor airflow options for modular applications. Easy to clean outdoor condenser coil.

### CH SERIES

- Multiple indoor fan speeds and staged cooling provide moisture removal during cooling operation.
- Twin blowers with ECM technology for quiet indoor operation.
- ECM axial fan with blow-thru or draw-thru outdoor airflow options for modular applications. Easy to clean outdoor condenser coil.
- Efficient and reliable 2-stage scroll compressor cooling and heating.
- Durable solid-state controls for heating, cooling, and ventilation and unit replacement curbs available.

### TS SERIES

- Optional hot gas reheat dehumidification, staged cooling, and multiple indoor fan speeds provide advanced humidity control through all seasons of the year.
- Twin blowers with ECM constant airflow operation for quiet, consistent indoor air operation.
- Axial fan with blow-thru airflow. Easy to clean outdoor condenser coil.
- Efficient and reliable 2-stage scroll compressor cooling and heating.
- Durable solid-state controls for heating, cooling, and ventilation.



**WH SERIES**  
Single Stage Electric  
Heat Pumps



**WA SERIES**  
Single Stage Electric  
Air Conditioners



**WGS SERIES**  
Electric Air Conditioners  
With Gas-Fired Heating

## Features and Benefits

- Optional sound cover for reduced compressor sound levels.
- Optional hot gas reheat dehumidification provides advanced humidity control through all seasons of the year.
- Multiple outdoor air ventilation options for improved energy efficiency and occupancy.
- Easy to service filter options up to MERV13. Optional IAQ accessories also available.
- Single or three phase power options with phase monitoring.
- Durable solid-state controls for heating, cooling, and ventilation.
- Twin blowers with ECM technology for quiet indoor operation.
- Axial fan with blow-thru airflow. Easy to clean outdoor condenser coil.
- Copper and aluminum coils with corrosion coating options. Hydrophilic indoor coil fin stock resists oxidation and mold/mildew growth.
- Multiple sound reduction accessories and unit replacement curbs available.

### WH SERIES

- Efficient and reliable single stage scroll compressor cooling and heating.
- Optional additional single or 2-stage electric heating.
- Insulated cabinet using non-fiberglass materials.

### WA SERIES

- Efficient and reliable single stage scroll compressor cooling.
- Optional single or 2-stage electric heating.
- Insulated cabinet using non fiberglass materials.

### WGS SERIES

- Efficient and reliable two stage scroll compressor cooling.
- Natural gas or propane heating with multiple BTU options
- Insulated cabinet for use in cold climates.

# Making the Grade

There's a reason why we call our school systems Classroom Preferred™. It's because districts across the country have realized all the advantages of Bard's unique solution and are now choosing us over other options. In fact, we're the world's largest manufacturer of wall-mounted heating and cooling equipment. Contact your Bard representative for more information on how Classroom Preferred™ can make the grade for your school.

[BardHVAC.com/Schools](http://BardHVAC.com/Schools)



## A Trusted Industry Leader

We've built a name for ourselves over the century we've been in business. We're known for durability and reliability. Our focus is quality. And we're dedicated to making products that solve problems for our customers. Plus, we back it all up with some of the most comprehensive warranties in the industry. When you buy an HVAC system from us, you don't have to worry. Because you have over 100 years of history on your side. Breathe easy—you've got Bard.



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