



In today's busy classroom, teachers are continually challenged to keep their students engaged in learning. Meeting the challenge requires a physical environment that is quiet, comfortable and aesthetically pleasing.

Designed to be installed inside the classroom, the QTEC is a self-contained unit engineered to fully address these requirements with unprecedented performance and true cost savings.

"Whisper Quiet" Technology

Utilizing innovative materials and components, the QTEC is designed for "whisper quiet" operation. A special "soft start/stop" ECM variable speed motor combined with advanced sound-absorbing insulation materials, create the quietest heat pump system available today.

Total Comfort

The QTEC provides total comfort through innovative design and engineering, offering a variety of ventilation options, including an integrated energy recovery ventilator, to address the indoor air quality requirements of your project. And the supply air can be introduced through either a ceiling plenum or a ducted system for optimized air circulation and maximized occupancy comfort.

For additional comfort, a special dehumidification circuit can be specified and used with the humidistat climate control option.



A Partial List of School Systems Currently Using the Bard QTEC:

Alabama Chambers Gadsen	California Los Angeles Sacramento City	Florida Brevard Broward Dade Hillsborough Marion Orange	Georgia Catoosa Coweta	Indiana Mississinewa	Kentucky Harlan	Louisiana Allen	Michigan Benton Harbor	Missouri Jackson R-11	New York New York City	North Carolina Charlotte/Mecklenburg Craven Haywood Lenoir	South Carolina Chester Darlington	Tennessee Davidson Hickman Macon Marshall Maury	Other States Russell San Mateo Williams Palm Beach Pasco Pinellas Polk Volusia Gilmer	Other States Orange Pamlico Wilkes Spartanburg York Montgomery Robertson Sumner Wilson
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Proven Bard Quality

Bard Manufacturing is a family-owned business founded on honesty, innovation, quality and pride in workmanship. For almost 100 years, our people have dedicated themselves to these values, providing dependable comfort to family, friends and neighbors around the world. In fact, our dealers still come across Bard systems that were installed 50 years ago that are still warming the homes and offices of their owners. It is no wonder that Bard Manufacturing is recognized as the industry leader in high-quality, high-performance heating and cooling systems. While new technology and design innovation will continue to fuel our future success, our fundamental values and commitment to our customers will remain unchanged.



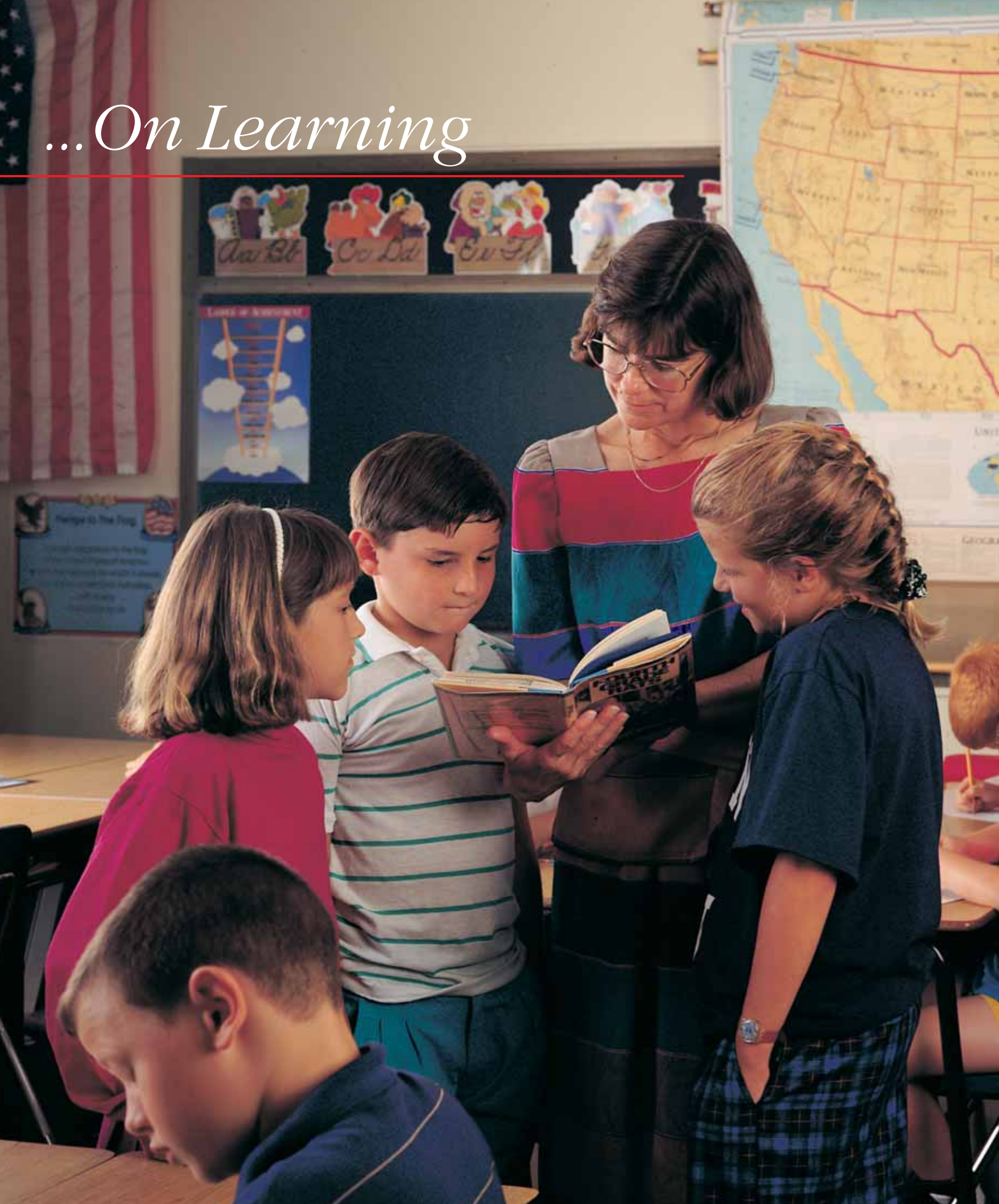
Bard Manufacturing Company, Inc.

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Bryan, Ohio 43506
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FL-5M Litho in U.S.A.
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Keeping the Attention Where It Belongs...



...On Learning



...On Design Integrity



Optimized Aesthetics

Suitable for both new and renovation projects, the QTEC system provides true design flexibility while optimizing aesthetics both inside and outside the building.

Inside the classroom, the QTEC unit features a choice

of two attractive finishes: A standard gray painted finish or a two-tone slate/platinum vinyl laminated finish. The unit's small footprint requires less than 1% of available floor space in the average classroom, providing greater flexibility for placement within the room.

Unprecedented Performance

Available in both Air-to-Air and Water-to-Air models, the QTEC meets indoor air quality requirements while operating at efficiency levels up to 20% above federal standards. As a totally self-contained unit, the QTEC provides independent, individual room control, thereby eliminating the need for a central duct system connection.

True Cost Savings

With operating efficiency levels above the federal standard, the QTEC provides proven cost savings. Using a common sense approach to functional design, each unit is built on heavy-duty permanent rollers to help make installation and servicing fast and simple.

For added installation ease, the QTEC features simplified electrical and drainage hook-ups, thus eliminating the expense and potential for error.

Superior Craftsmanship/ Quiet Technology

- Special sound-deadening insulation material in compressor section minimizes sound levels.
- Copeland scroll compressor is designed for efficiency and quieter operation with reduced shutdown noise and improved reliability for longer life. Additionally, a compressor time delay relay optimizes longevity.
- QTEC features stainless steel drain pans for long life and high reliability.
- Wall sleeve is constructed of 16-gauge galvanized steel, coated with epoxy primer and baked-on enamel paint and tested to 8000 hours of salt spray protection per ASTM-B-117 to ensure long life.
- Totally enclosed condenser motor with double oil reservoir enhances reliability and longevity.



Optimized Efficiencies

- Optional energy recovery ventilator provides up to 450 cfm of outside air and exhaust through the unit while maintaining indoor comfort and humidity levels.
- Grooved copper tubing and enhanced aluminum fins provide maximum heat transfer and high energy efficiency levels.



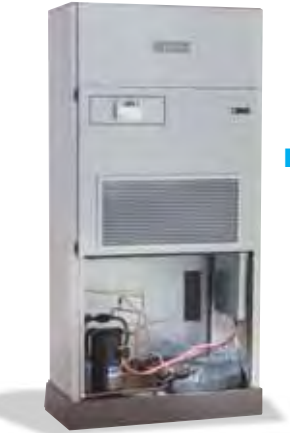
Security/Safety Benefits

- Circuit Breaker/Rotary Disconnect access door with locking feature secures against unauthorized entry.
- Tamper resistant fasteners help ensure safety and security.
- All factory installed back-up electric heat strips feature automatic limit controls for added safety.

Serviceability



- Hinged, lockable service door provides easy access to air filters and primary electrical controls.
- Diagnostic service light located inside the control panel indicates high or low pressure control operation for compressor protection.
- Optional vinyl coated steel affords extra resistance against scratching and marring.
- Heavy-duty rollers provide easy installation and removal from the wall sleeve for additional service access.
- The units can be controlled by an independent system or provided with pre-wired climate control options that facilitate installation and service.



Versatility

- Four versatile configurations offer the flexibility required to meet a variety of classroom applications:
 - QH - Air-to-air heat pump
 - QW - Water-to-air heat pump
 - QC - Chilled water air conditioner
 - QA - Air conditioner with electric heat strips

Water-to-Air Models



- Features a High-Efficiency Cupro-Nickel Coaxial Water Coil or Optional All Copper Water Coil for maximum efficiency.
- Versatile design allows Water-to-Air units to be connected to a boiler/tower, central well field or individual ground loop.