

**Schools face unique challenges when creating a comfortable and energy-efficient environment for students and staff.** Friedrich's commercial HVAC solutions are designed to address these challenges by prioritizing indoor air quality, the well-being of students and staff, and budgetary considerations, all while being easy to install.

## Solutions for Every Space

We offer solutions for the essential needs of your K-12 schools with products for comfort, cooling, enhancing indoor air quality, refrigeration and water heating.



### Single-zone or Multi-zone (VAV) Packaged Rooftop Units (RTUs)

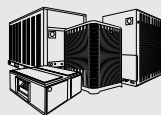
Consider using in:  
ALL AREAS OF THE SCHOOL



### DOAS

to improve indoor air quality, provide the tightest humidity control and handle higher ventilation requirements.

Consider using in:  
GYM, LOCKER ROOM,  
HALLWAYS, CAFETERIA



### Split AC or Heat Pump

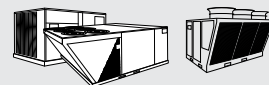
for all areas of the school, especially hallways or spaces needing independent cooling

Consider using in:  
ALL AREAS OF THE SCHOOL



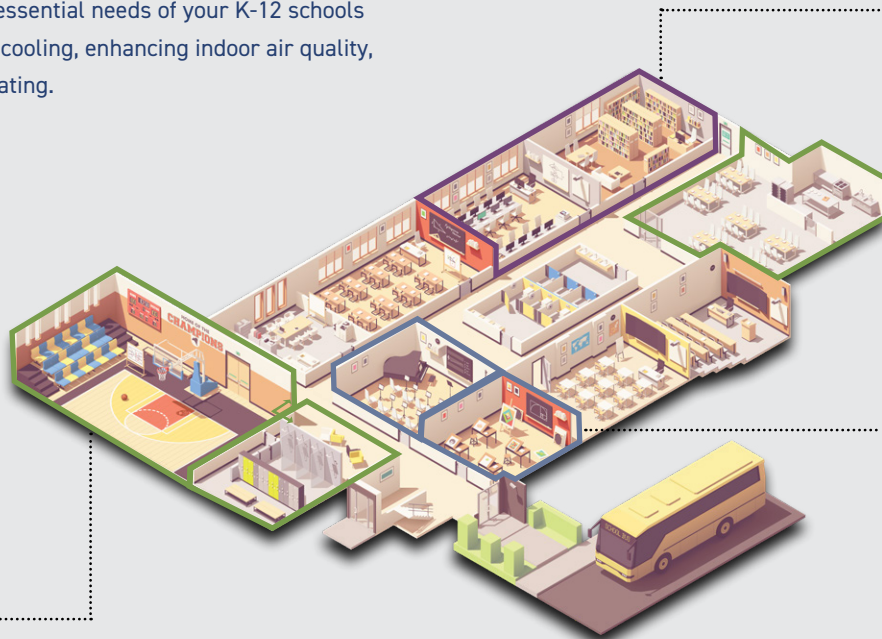
**Rooftop Unit With PlusOne® HumidiDry®**  
for enhanced comfort and humidity control

Consider using in:  
LIBRARY, COMPUTER LAB



**Packaged Rooftop or DOAS With CO<sub>2</sub> Sensor Demand Control Ventilation (DCV)**  
efficiently saving energy while improving IAQ

Consider using in:  
ART STUDIO, MUSIC ROOM



## Why Schools Choose Friedrich Commercial Air

**We are committed to providing K-12 schools with solutions prioritizing student thermal comfort acoustic comfort and health. Here are some of the ways we do this:**

**Enhanced Comfort and Learning:** Friedrich systems deliver consistent temperature control for an environment more conducive to learning. Studies\* show a direct correlation between indoor air quality (IAQ), thermal comfort and improved test scores.

**High-value Solutions:** Choosing the right HVAC products for a school building means balancing thermal comfort, acoustic comfort and air quality in various spaces throughout the building with the budgetary constraints faced by school boards everywhere. A good example is factory-installed economizers, which may even help cut labor and materials costs and time during installation.

**Reduced Disruption During Installation:** Rooftop packaged units are a common solution for schools. The packaged nature of the equipment allows for phased installation during breaks, minimizing disruption to learning. Our domestic manufacturing, local support and parts availability mean maximum uptime and quick resolution of any issues.



## Reduced Classroom Disruption During Routine Maintenance and Service:

Located outside of the classroom and school building space on the roof or the ground, rooftop units can be accessed by facility maintenance staff or service contractors for routine maintenance like filter changing and drain pan cleaning without disrupting the classroom or providing access to the school interior while students are present.

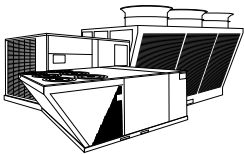
## Local Support and Manufacturing:

Enjoy peace of mind with reliable equipment designed and manufactured in the United States. Through our vast network of local distributors to R&D located in Fort Smith, Arkansas, and our innovation learning centers across America, Friedrich equipment and support is local. Additionally, our open approach to controls compatibility means Friedrich units seamlessly integrate with existing school building management systems.

**Enhanced IAQ:** Friedrich's HVAC systems are designed with features that can help provide a healthier learning environment. Many models feature the Qwik-change flex-fit filter rack that allows for easy changeover between 2" and 4" filters, making an upgrade to MERV 13 filters possible in seconds. MERV 13 filters can capture more airborne particles and reduce the amount of contaminants in the air. Additionally, Renaissance™ line models are offered with UV-C Light kit accessories, developed for seamless plug-and-play compatibility for easy installation. Using the proven effects of ultraviolet light for disinfecting surfaces can improve the overall IAQ in the school and help extend the life of the HVAC system.

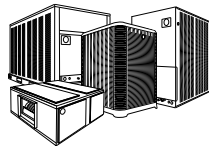
**Quiet operation:** Acoustic comfort has also been studied\* extensively as an indicator of student performance and teacher preference. Rooftop units are located on the exterior of the building, with no mechanical components inside the classroom environment, enhancing acoustic comfort, especially when compared to through-the-wall or window AC units.

## Friedrich Commercial Air Portfolio



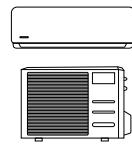
### Packaged Units

- Gas Electric, A/C & Heat Pumps (2 to 30 Tons)
- DOAS (3 to 60 Tons | 500 to 15,000 CFM)



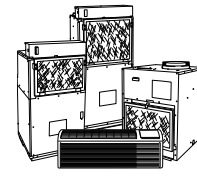
### Split Systems

- 1.5 to 20 Tons
- Air Conditioners
- Heat Pumps



### Mini-split Systems

- Single-zone (9k to 36k Btu/h)
- Multi-zone (18k to 42k Btu/h)
- Low Ambient Heating
- Universal Heat Pump (25k to 60k Btu/h)



### Hospitality and Industrial Systems

- VRP® Variable Refrigerant Packaged Air Conditioners (7k to 36k Btu/h)
- Vert-I-Pak® (9k to 22.5k Btu/h)
- FreshAir® Inverter PTACs (9k to 12k Btu/h)
- ZoneAir® PTACs (7k to 15k Btu/h)
- Hazardgard® Room Air Conditioners (15.7K to 21K Btu/h)
- Cooling and Heat Pumps

\*Reference Sources: *Heat and Learning: Indoor Environmental Quality of Classrooms and Student Outcomes: A Path Analysis Approach*; *The Effects of Moderately Raised Classroom Temperatures and Classroom Ventilation Rate on the Performance of Schoolwork by Children*; *The Impact of Indoor Environment Quality on School Children's Overall Comfort in the UK*; *The Effect of Low Ventilation Rates on the Cognitive Function of a Primary School Class*; *Effect of Acoustic and Thermal Comfort to Support Learning Process in a University*; *Providing Better Thermal and Air Quality Conditions in School Classrooms Would Be Cost-effective*

Learn more about Friedrich Commercial Air at

[Friedrich.com/Commercial](https://www.friedrich.com/commercial)

**CONTACT US**

For additional information, contact your local Friedrich sales representative.



**FRIEDRICH** Commercial Air