AIRSYS
Balance the Environment

COM4T

- Indoor and Outdoor Wall-Mounted Packaged Units
- Designed for Human Comfort
- Inverter Driven Technology
- Variable Capacity
- Heat Pump

About Us

AIRSYS is the HVAC technology leader when it comes to Wall Packaged Units (WPU) for schools. To deploy an AIRSYS COM4T system on a classroom means quality, reliability, efficiency and performance at the highest level available. The COM4T units are best in class products backed by a dedicated group of professionals committed to support 24x7x365.

COM4T for schools in the USA

Product Overview

The heat pump system used in our COM4T units is designed with advanced inverter driven technology to provide variable speed capacity. Our COM4T units lead the industry in quiet operation, energy efficiency, reliability and comfort control.

COM4T heat pumps are wall mounted packaged units, including indoor and outdoor series for different applications. The refrigerant piping and internal wiring are factory assembled and thoroughly tested. All components are readily accessible for easy service and maintenance.

Indoor COM4T Unit

Outdoor COM4T Unit

Series	Model	Cooling Capacity*	Heating Capacity*	Fresh Air Volume	PTC Heater	ERV	CRV	Econo-mizer	Curb
Heat Pump Outdoor	CV36H2A	19,800~42,300Btu/h	17,100~41,000Btu/h	~450CFM	0~12kW	√	√	√	√
	CV60H3A	29,300~67,600Btu/h	28,000~67,200Btu/h	~550CFM	0~12kW	√	√	√	√
Heat Pump Indoor	CV36N3A	19,100~41,600Btu/h	17,100~41,000Btu/h	~450CFM	0~12kW	√	√	√	-
	CV60N3A	27,900~66,900Btu/h	28,000~67,200Btu/h	~550CFM	0~12kW	√	√	√	-

**Note: measured according to AHRI390, cooling capacity @ 80 °F/95 °F; heating capacity @ 70°F/47 °F.*

Quiet Operation

A better understanding of how critical sound impacts children's habits in the classroom has led us to pay maximum attention on minimizing noise levels.

Determined by the certified noise testing party DL Acoustics Research & Consulting, AIRSYS COM4T units only generate 36.7dBAs at low speeds and only 39.3dBAs at high speeds. At high speeds, the COM4T unit is > 70% quieter than the noise level required by the most stringent code in the country at 45dBAs. The COM4T unit delivers quiet comfort allowing our children more enhanced concentration in the learning environment.

Energy Efficiency

The Inverter compressor capacity is able to change from 30%~120% of nominal capacity to match the load inside the classroom.

Our COM4T units can achieve EER >11 with nominal cooling capacity @ AHRI 390 test conditions. When units are working at part-load, they can achieve EER up to 18. This is the highest efficiency performance level available on the market and will result in a substantial reduction in electricity consumption for our schools.

Comfort Control

The AIRSYS COM4T units deliver real-time demand cooling and heating capacity according to the needs of the environment. The variable capacity system continuously adjusts with small temperature fluctuations increasing the accuracy of temperature control for more advanced human comfort.

Even with a sudden dramatic change in the environmental load, our COM4T units can initiate overspeed operation to rapidly cool down or heat up a room. COM4T units detect the temperature changes in the room and react by adjusting motor capacity intelligently and smoothly to provide the optimal environment for human comfort.

Reliability

AIRSYS products are known around the globe for their excellent long-term reliability. With a rich experience in precision HVAC, the AIRSYS team developed the COM4T units with strong adaptability for the harshest environments. This guarantees year-round comfort for the classroom. Equipped with best in class components from around the world, the COM4T unit can realize Mean Time Between Failure (MTBF) > 80,000hrs.

The COM4T units come standard with the latest inverter driven technology, drastically reducing compressor wear and tear from constant start/stop cycles. Most of the time, the compressor is working at a very low speed, which results in improved efficiency and reliability.

The soft start feature eliminates spike voltage/in-rush current during the start up of the compressor. This feature also reduces stress on the compressors during each turn on.

	Single-Stage Compressor	Two-Stages Compressor	Inverter compressor
Numbers Of Annual Compressor Start/Stops	~10,000	~5,000	< 2,500

Serviceability

The COM4T wall package unit design utilizes the same hole pattern as most modern day Single Packaged Vertical Units (SPVU), thereby saving money on installation. Curb options offer adaptability for different applications.

Front serviceability and snap in/snap out components make maintenance and repair a breeze. The COM4T unit system is designed for quick serviceability that enables local facility engineers to work on them with ease saving thousands of dollars in repairs by not having to hire costly HVAC technicians.

The step-test systematically verifies normal operation of key components in the system which aids the service technician in isolating problems quickly.

There is no need for special thermostats or controllers. Almost any thermostat can control the COM4T units.

**NOTE: It is highly recommend to use a thermostat that has minimum (2) stage control function.*

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Technical Support

Emergency service

- 24x7 Service and support line
- Technical support team available from our local technicians

Helpdesk system

- Technical support for design, installation and field support troubleshooting
- Support tickets available for customer review

Training service technicians

- On-line training courses
- In field training available upon request
- Installation, operation, maintenance & repair

Dedicated service team

- Pre-site visits, and turn-key installation
- Complete within 1 day
- Commissioning and maintenance

On-site demonstrations

- Demonstration trailer
- Demonstrations and training will be available in the US and Canada

Contact Us

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