

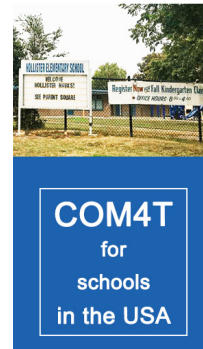
COM4T

**WALL-MOUNTED PACKAGE
HUMAN COMFORT
INVERTER TECHNOLOGY
VARIABLE SPEED
HEAT PUMP**



About Us

AIRSYS is the HAVC technology leader when it comes to Wall Packaged Units for our schools. To deploy an AIRSYS COM4T system on a classroom means, quality, reliability, efficiency and performance at the highest level available. These best in class products are backed by a dedicated group of professionals committed to support our products throughout the product life cycle 24x7x365.



General Description

The COM4T heat pumps are the best HVAC systems on the market, designed with advanced inverter technology to provide variable capacity and ensuring quiet operation, energy efficiency, comfort control and reliability.

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.



Series	Model	Cooling Capacity*	Heating Capacity*	Fresh Air Volume	PTC Heater	ERV	CRV	Econo- mizer	Curb
Heat Pump Outdoor	CV36H2A	17,600~42,200Btu/h	17,100~41,000Btu/h	~450CFM	0~12kW	✓	✓	✓	✓
	CV60H3A	28,300~67,800Btu/h	28,000~67,200Btu/h	~550CFM	0~12kW	✓	✓	✓	✓
Heat Pump Indoor	CV36N3A	17,600~42,200Btu/h	17,100~41,000Btu/h	~450CFM	0~12kW	✓	✓	✓	-
	CV60N3A	28,300~67,800Btu/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 the sound impacts children's habits in the classroom has led us to pay maximum attention on minimizing noise level.

Determined by the authorized noise testing party *DL Acoustics Research & Consulting*, AIRSYS COM4T only generates 36.7dBA at low speed while only 39.3dBA at high speed. At < 30% of the noise level required by the most stringent code in the country the COM4T delivers quiet comfort for our kids.



Energy Efficiency

Inverter compressors' speed is able to change from 30%~120% of nominal capacity automatically adjusting to match the load inside the classroom.

COM4T 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 best efficiency performance available and will result in a substantial reduction in electricity consumption for our schools.



Comfort Control

COM4T delivers real-time demand cooling / 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 and making people feel more comfortable.

Even with a sudden dramatic change in the environmental load COM4T can initiate overspeed operation to cool down or heat up a room rapidly. COM4T detects the environment changing and intelligently determines the working mode to provide the optimal environment for human comfort.



Reliability

AIRSYS products are known around the globe for their excellent long-term reliability. With rich experience in precision HVAC, the AIRSYS team developed COM4T 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, COM4T can realize MTBF > 80,000hrs.

With the latest inverter technology, compressor start /stop cycles are highly reduced. Most of the time, compressor is working at low speed, which results in improved efficiency and reliability.

The soft start feature eliminates spike voltage/in-rush current at compressor start up and reduces stress on compressors at every compressor turn on.

	Single-Stage Compressor	Two-Stages Compressor	Inverter compressor
Numbers Of Annual Compressor Start/Stops	~10,000	~5,000	< 2,500
Annual Compressor Running Hours	~2,800	~2,700	~2,700 (80% running at lowest speed)

Serviceability

Wall package design utilizes the same hole pattern as most modern day SPVU's 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 system is designed so service can be performed by in house maintenance staff instead of costly HVAC professionals.



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 COM4T.

NOTE: Highly recommend thermostat that has minimum 2 stage control function.



Our Support



Emergency service

- 24x7 Service and help hot line
- Technical support team available from our local technicians either finish all bullet with period or no period at all



Helpdesk system

- Knowledge base including supporting document, FAQ, etc.
- Support tickets available for customer review



Training service techs

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



Dedicated service team

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



Onsite demonstration

- Demonstration Trailer
- Demonstrations and training will be available by schedule in the US and Canada

Contact Us

AIRSYS North America

Address:

915 De La Vina St. Santa Barbara, CA 93101, USA

Technical Support:

ASNSupport@air-sys.us

Website:

<https://airsysnorthamerica.com>

Call Center:

+1 (855) 874-5380

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