

**AIREDALE**

air conditioning for every environment

**ClassMate® HE Range**  
13 SEER

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> **ClassMate® HE**

The newly developed ClassMate High Efficiency (HE) range is designed to provide a healthy and safe school environment. It meets the DOE 13 SEER minimum standard for central air conditioning and heat pump units and incorporates the environmentally friendly refrigerant R410A.

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# ClassMate® HE Range

13 SEER

## High Efficiency

Utilising a two-stage scroll compressor that offers part load facility, the ClassMate is considered to be the most efficient packaged product of its type for classrooms on the market. It is designed to be aesthetically pleasing, ultra quiet and easy to install with enhanced control and dehumidification.

ClassMate® Cooling only							
Model No.	Nominal Total Cooling Capacity (BTU/h) <sup>①</sup>	Nominal Sensible Cooling Capacity (BTU/h) <sup>①</sup>	Dimensions (HxWxD) (inches)	Supply Fan Airflow (CFM)	Exhaust Fan Airflow (CFM)		
CHX2	24,200	20,600	90 x 42 x 30	900	2,300		
CHX3	34,200	27,200	90 x 42 x 30	1,100	2,300		
CHX4	45,500	35,800	90 x 48 x 30	1,400	2,700		
CHX5 <sup>③</sup>	55,000	43,000	90 x 48 x 30	1,700	2,700		

  

ClassMate® Heat Pump & Cooling only							
Model No.	Nominal Total Cooling Capacity (BTU/h) <sup>①</sup>	Nominal Sensible Cooling Capacity (BTU/h) <sup>①</sup>	Nominal Heating Capacity (BTU/h) <sup>②</sup>	Dimensions (HxWxD) (inches)	Supply Fan Airflow (CFM)	Exhaust Fan Airflow (CFM)	Electric Heating Capacity (kW)
CHHP2	24,200	20,600	24,600	90 x 42 x 30	900	2,300	7.5
CHHP3	34,000	27,200	34,800	90 x 42 x 30	1,100	2,300	7.5
CHHP4	45,500	35,600	46,000	90 x 48 x 30	1,400	2,700	15
CHHP5	54,500	43,000	57,000	90 x 48 x 30	1,700	2,700	15

① Cooling capacity at 80/67°F air on, 95°F ambient.

② Cooling capacity at 70/60°F air on, 43/47°F ambient.

③ Size 5 SEER rating is 12.33.

## Standard Features

- > Two-stage scroll compressor provides staged capacity control, enabling part load efficiencies to be increased (Size 2 provided with single-stage compressor)
- > ECM fan technology offers the perfect compromise between performance and noise
- > Sound variants available, offering extremely low sound levels for noise sensitive areas
- > Enhanced high efficiency cross-rifle tubed condenser coils, ideally positioned to optimize airflow and heat transfer
- > Outside air louvers blend into the exterior, allowing architectural freedom in the design of roofs and facades
- > A compact footprint gives a streamlined interior, easing installation and maintenance
- > Quick draining evaporator coils
- > Designed and optimized for R410A refrigerant
- > Modulating economizer damper providing 100% free-cooling and minimum fresh air requirements
- > Powered exhaust
- > Removable damper, exhaust and supply fan assemblies for easy service maintenance
- > Aluminized steel casing with a baked epoxy finish
- > Sight glass and filter drier included for system flexibility
- > High sill outside air discharge
- > Anti-vibration mounts for noise sensitive installations

## Options

- > Energy Recovery Wheel
- > Outdoor coil filter
- > Disconnect switch
- > Single-stage compressor with R-22 or 410A refrigerant
- > Hot gas bypass (Single-stage units)
- > 3-speed evaporator switch (Single-stage units)
- > Wall sleeve and rear extension for customized solutions
- > Hot water heating coil and valve packages
- > Hot gas reheat for dehumidification control
- > Fire/smoke detection
- > Discharge plenums
- > Factory supplied BACnet or LonWorks controls
- > Occupancy Sensor
- > CO<sub>2</sub> Sensor
- > Humidity Sensor



**Commercial HVAC&R Division**  
**Modine Manufacturing Company**

1500 DeKoven Avenue  
 Racine, WI 53403-2552

Phone : 1.866.823.1631 (toll free)  
 Fax : 1.800.204.6011

www.airedaleusa.com

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