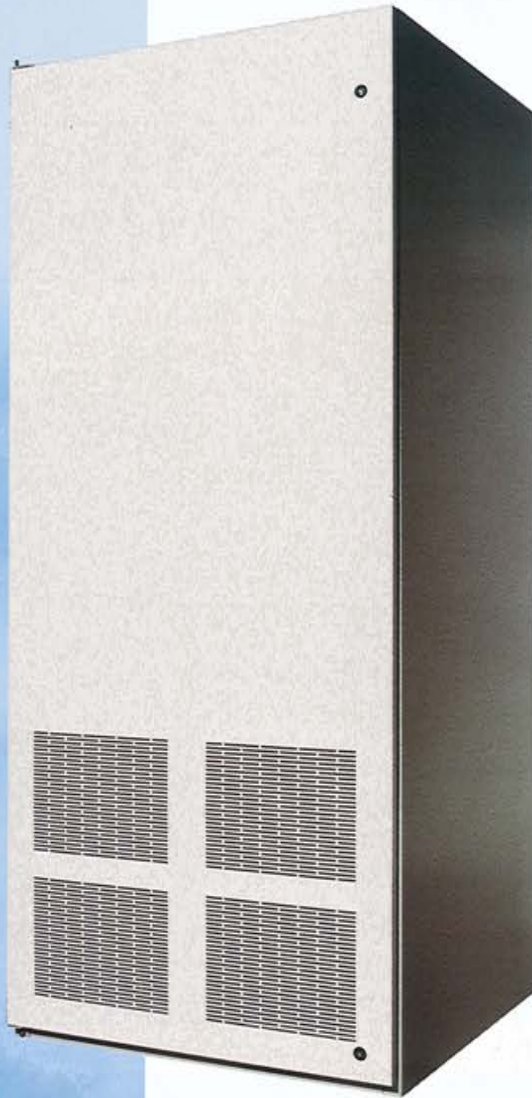


ClassMate®

HEAT PUMP & AIR CONDITIONING SCHOOL UNIT



Comfort

- Air Conditioning
- Heat Pump
- High Level Air Distribution
- Quiet (Return Air Sound Trap)
- Individual Unit in Each Classroom

Energy Efficiency

- Outside Air Economizer
- Microprocessor Control
- Heat Recovery from Exhaust Air
- Scroll Compressor

Indoor Air Quality

- Adjustable Outside Air Provision
- Powered Exhaust
- Non Fibrous Insulation

Low Installed Cost

- Easy Installation
- Self Contained
- Central Plant Room not Required

Service & Maintenance

- 100% Serviceable through Front Door
- Circuit Breakers
- Epoxy Powder Paint
- Heavy Gauge Construction
- Optional Building Management System

Options

- Energy Recovery Wheel (CMX/CMH 2-4)
- Electric Heat
- Hot Water Coil With Modulating Valve & Factory Installed Fittings
- Three Way Discharge Plenum
- Outside Air Louver & Wall Sleeve

The ClassMate is a totally self-contained air conditioning or heat pump unit, and a unit ventilator. It was designed to maintain a cost-effective balance between energy consumption and the proper amount of fresh air ventilation.

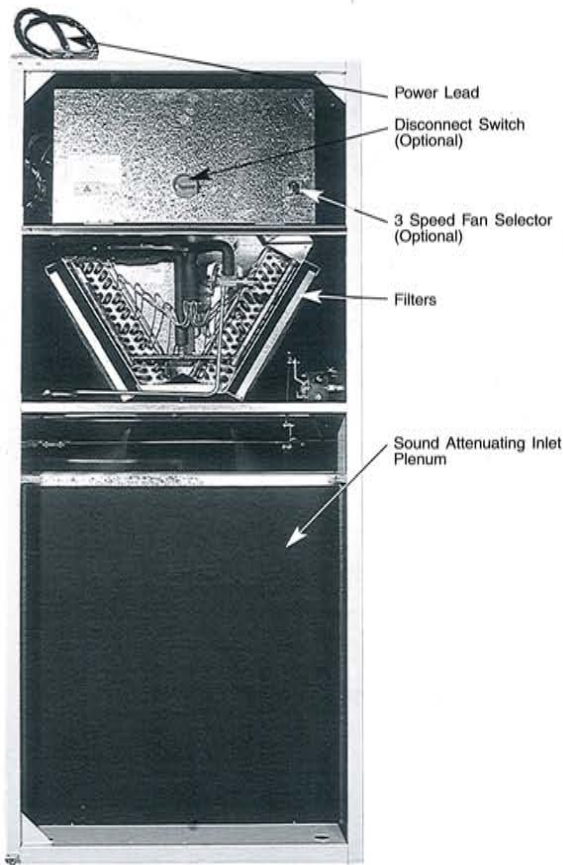
A built-in programmable microprocessor can be supplied that not only operates the unit in its most energy efficient mode; it also provides the classroom with clean conditioned air that meets all fresh air code requirements.

The vertical design allows supply air through a ducted ceiling distribution system or a top mounted plenum.



AIREDALE

Creating a Healthier & Safer Environment for our Children



TECHNICAL SPECIFICATIONS TABLES

CMX / CMH		2	3	4	5
Cooling Capacity Total (1)	Mbh	24.0	35.0	47.0	59.6
Heat Pump Capacity (2)	Mbh	24.8	37.5	48.1	58.7
SUPPLY FAN					
Type		Direct Drive Centrifugal			
Airflow	cfm	800	1100	1500	2000
Max External Static Pressure	inWg	0.25	0.25	0.25	0.25
EXHAUST FAN					
Type		Direct Drive Centrifugal			
Airflow	cfm	1060	1600	2100	2300
Max External Static Pressure	inWg	0.1	0.1	0.1	0.1
FILTER					
Type		1" Pleated 80% Arrestance			
ELECTRIC HEATING (OPTIONAL)					
Electric Heating Capacity	kW	7.5	7.5	7.5 / 15	15
Stages		1	1	1 / 2	2

NOTES:

- (1) Cooling capacity based on Air On 80/67°F Dry/Wet Bulb & 95°F Ambient
 (2) Heat pump capacity based on Air On 70/58.5°F Dry/Wet Bulb & 47°F Ambient

ELECTRICAL DATA TABLES CMX/CMH

208-230 VOLT SINGLE PHASE 60HZ DATA		2	3	4	5
Full Load Amps (FLA) (1)	A	18.7	25.9	29.6	n/a
Min Circuit Ampacity (MCA) (1)	A	21.6	30.0	34.6	n/a
Maximum Overcurrent Protection (MOP) (1)	A	35.0	45.0	50.0	n/a
Full Load Amps (FLA) (2)	A	51.3	58.5	72.7	n/a
Min Circuit Ampacity (MCA) (2)	A	62.4	70.8	90.0	n/a
Maximum Overcurrent Protection (MOP) (2)	A	70.0	80.0	90.0	n/a
208-230 VOLT 3 PHASE 60HZ DATA		2	3	4	5
Full Load Amps (FLA) (1)	A	13.7	18.9	23.9	28.1
Min Circuit Ampacity (MCA) (1)	A	15.4	21.3	27.5	32.5
Maximum Overcurrent Protection (MOP) (1)	A	20.0	30.0	40.0	50.0
Full Load Amps (FLA) (2)	A	34.5	39.7	49.1	50.7
Min Circuit Ampacity (MCA) (2)	A	41.4	47.3	60.0	62.7
Maximum Overcurrent Protection (MOP) (2)	A	45.0	50.0	60.0	70.0
460 VOLT 3 PHASE 60HZ DATA		2	3	4	5
Full Load Amps (FLA) (1)	A	7.4	9.6	11.8	13.6
Min Circuit Ampacity (MCA) (1)	A	8.0	10.5	13.2	15.4
Maximum Overcurrent Protection (MOP) (1)	A	10.0	15.0	20.0	25.0
Full Load Amps (FLA) (2)	A	16.8	19.0	22.7	23.3
Min Circuit Ampacity (MCA) (2)	A	20.0	22.3	27.8	28.5
Maximum Overcurrent Protection (MOP) (2)	A	20.0	25.0	30.0	30.0

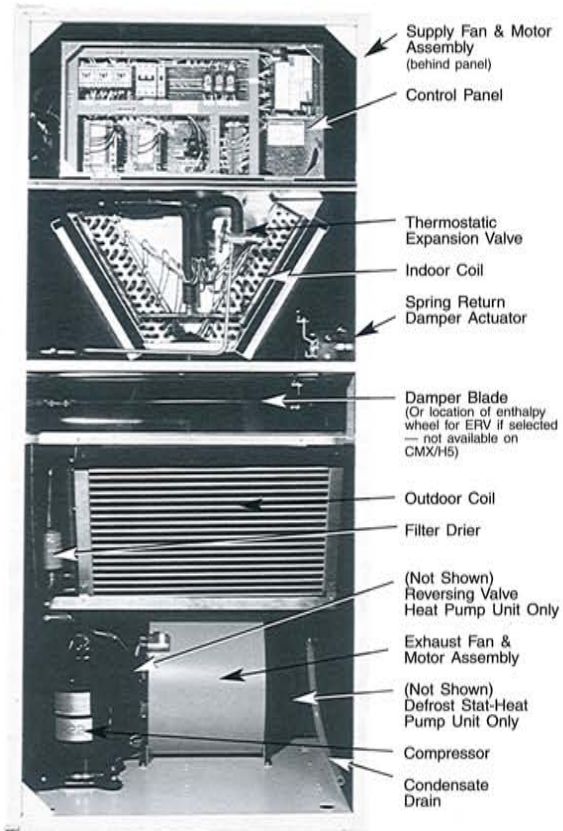
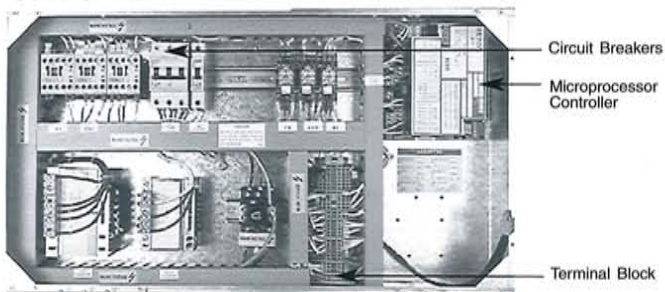
DIMENSIONS

		Width	Height	Depth	Weight (lbs)
CMX/CMH 2-4	in	36	84	33.6	735
CMX/CMH-5	in	42	84	33.6	800

NOTES:

- (1) FLA, MCA & MOP are calculated with only the compressor, supply and exhaust fan running.
 (2) FLA, MCA & MOP are calculated to show maximum value for unit fitted with one or two stages of electric heat.
 (3) Units with top mounted hot water heating coils require upgraded supply fan on unit CMX/CMH 4.
 Contact Airedale or check Engineering Manual for FLA, MCA and MOP.

Control Panel



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