



THE ULTIMATE SOLUTION FOR CLASSROOM NOISE REDUCTION

AIREDALE

ClassMate® with STUDY Package

DX Cooling and Heat Pump

Modine is continuously raising the bar to exceed the highest industry standards. The ClassMate® with STUDY Package was designed so you can feel confident installing this unit into LEED-designed facilities, knowing it can meet the background noise pre-requisite.

Modine conducted extensive sound attenuation research to provide these noise-reduction features:

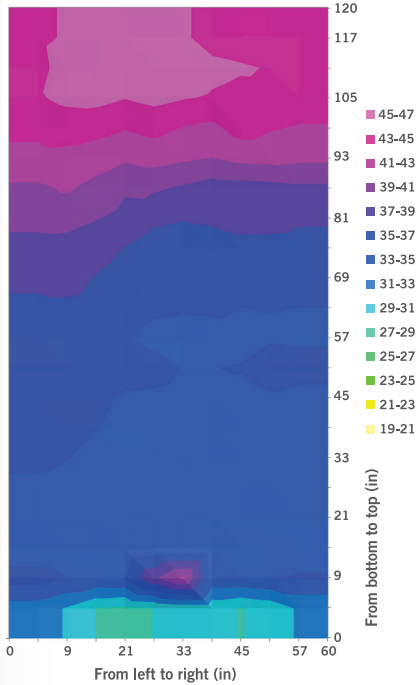
- Improved acoustic insulation with barrier
- Redesigned acoustic plenum to improve noise reduction
- Up to 7dB(A) improvement



AIREDALE

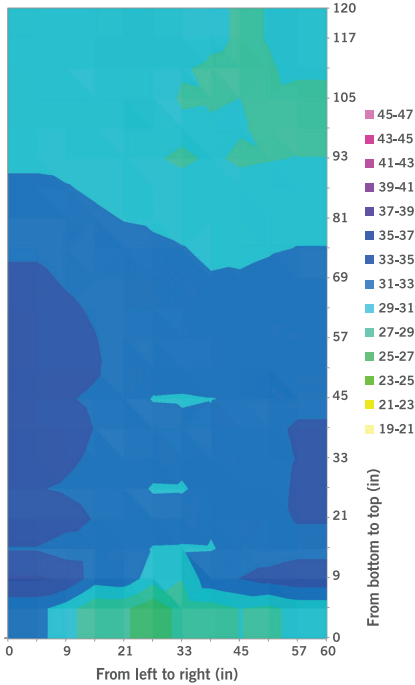
**48MBH Capacity
High Fan Speed 1500CFM
Sound Intensity Mapping – Front (dB)**

Standard Unit with Standard Plenum 1000 Hz



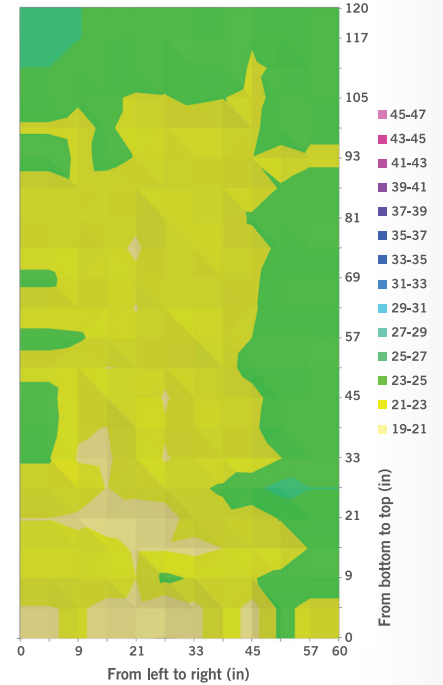
	Octave	Value
1 Meter	dB(A)	50
	NC	41
5' Avg Front	dB(A)	49
	NC	39
10' Avg Front	dB(A)	47
	NC	37

Standard Unit with Acoustic Plenum 1000 Hz



	Octave	Value
1 Meter	dB(A)	48
	NC	37
5' Avg Front	dB(A)	46
	NC	36
10' Avg Front	dB(A)	43
	NC	31

STUDY Package with Acoustic Plenum 1000 Hz



	Octave	Value
1 Meter	dB(A)	43
	NC	30
5' Avg Front	dB(A)	43
	NC	29
10' Avg Front	dB(A)	40
	NC	24

Reference AIR 2-300 for details on sound testing.

THE RESULTS

These features, engineered for the toughest classrooms, result in the ClassMate® with STUDY Package achieving the highest standard for noise reduction in its class.

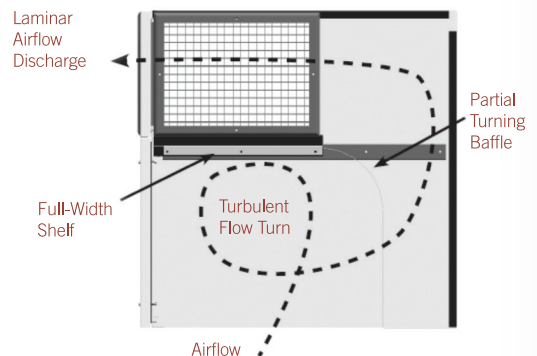
THE SOLUTION

Redesigned cabinet to reduce air flow velocity

- Extensive sound intensity testing identified opportunities for noise reduction
- Sound intensity mapping allowed Modine engineers to isolate components and frequency to engineer specific solutions
- Redirected air flow reduced velocity through side grills

Redesign baffle for improved air flow path

- Patented baffle design adds significant value without sacrificing performance of the base unit
- Providing laminar airflow to a space without requiring additional ductwork



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