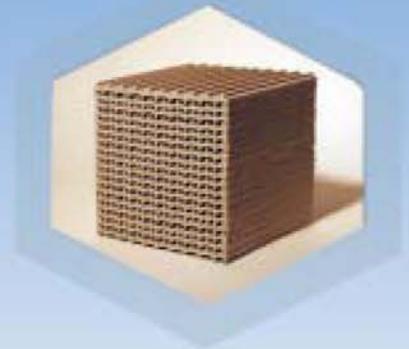




MLM[®]/MULTI-LAYER MEDIA[®]



**Data
Comparison
Section**

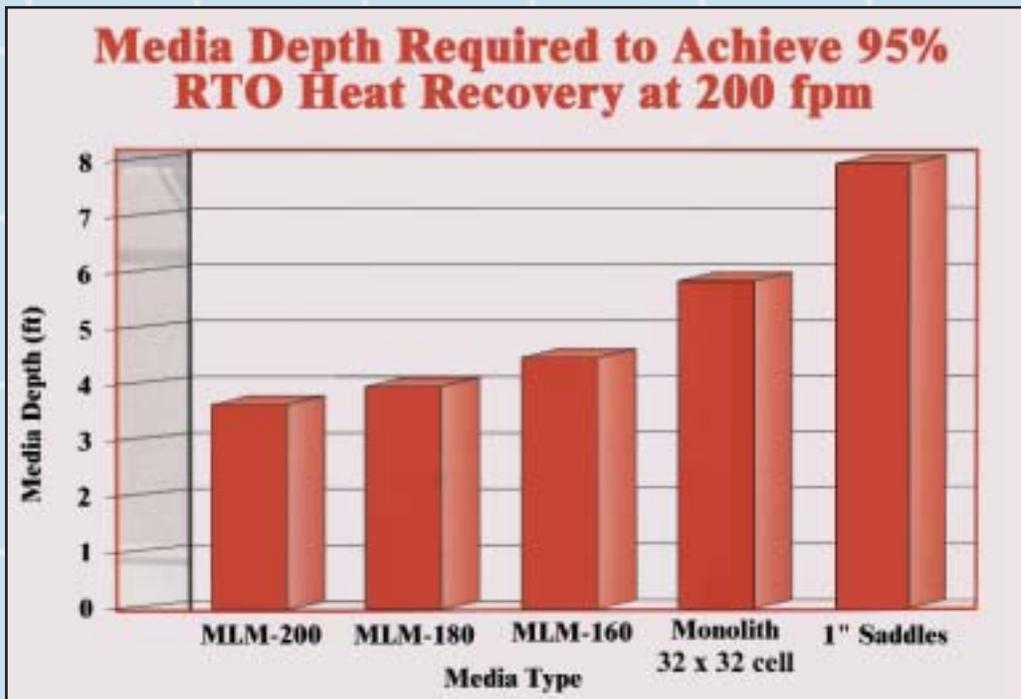
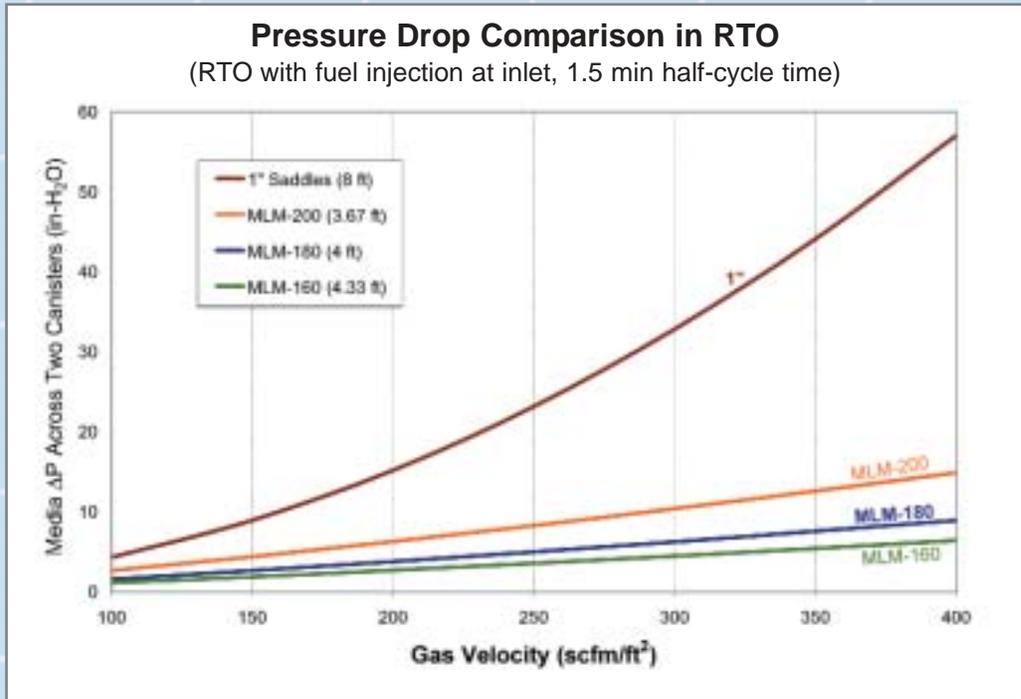


Two year thermal stress warranty
standard with all RTO designs.

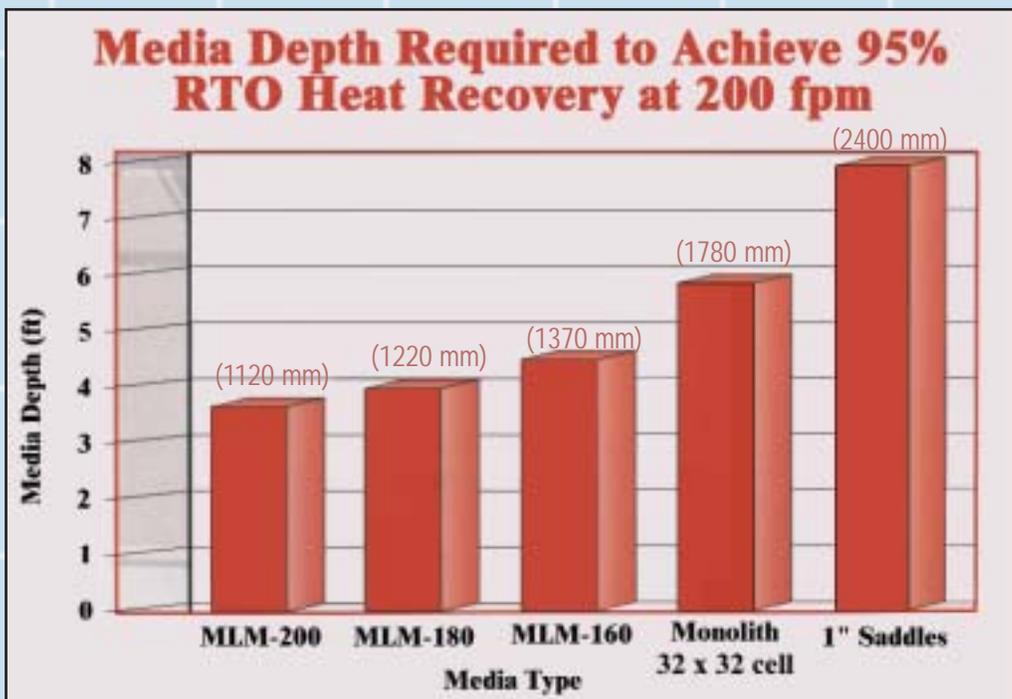
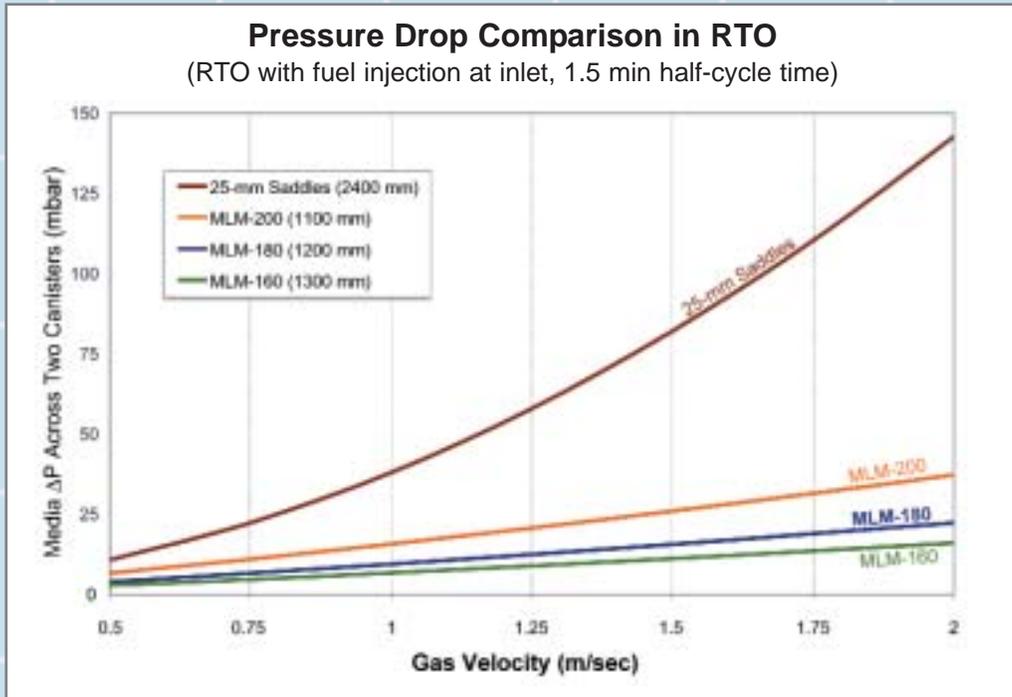
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Lantec MLM[®] ΔP & Thermal Efficiency



Lantec MLM[®] ΔP & Thermal Efficiency





MLM[®] improves RTO designs over using Saddles. A Typical RTO Design Example:



Design Basis:

Air Flow = 31,700 scfm (50,000 Nm³/hr)
Inlet Air Temp. = 68 °F (20 °C)
Combustion Temp. = 1500 °F (816 °C)
Half Cycle Time = 1.5 min
Burner Air / Inlet Air = 0.01
Thermal Efficiency Required = 95%

Recommended Design:

Heat Recovery Media: MLM-180[®]
Canister Size: 10'x10' (3048 x 3048 mm)
Design Gas Velocity: 317 fpm (1.61 m/s)
Media Depth: 4.67' (1423 mm)
Volume of media: 467 ft³ (13 m³)
 ΔP across Two Beds: 7.7 in WC (19 mbar)

Compare with: 1" (25 mm) Saddles
Canister Size: 10'x15' (3048 x 4572 mm)
Design Gas Velocity: 211 fpm (1.07 m/s)
Media Depth: 9' (2743 mm)
Volume of media: 1,350 ft³ (38 m³)
 ΔP across Two Beds: 19 in WC (47 mbar)

The MLM[®] Advantage

Smaller RTO Unit

Much lower fabrication costs.

Smaller Footprint

Greatly reduced space required.

Lower Pressure Drop

The 11.3 inch (28 mbar) WC reduction in this example leads to \$48,000+ per year* in electric power cost savings, a very high financial return!

Lower Maintenance Cost

MLM is extremely resistant to fouling.
MLM endures severe thermal stresses.

Two year thermal stress warranty standard with all RTO designs.

* Power cost savings estimated based upon data published by the Electric Power Research Institute, Palo Alto, CA. Assumes 80% efficient motors, 8000 hour operating year and a power cost of \$0.09 per kWh.