

Air, Moisture, and Energy

Cotton Ginning Moist Air Applicator Comparison



Typical Moist Air Volume
(CFM)



Typical Maximum Moisture
Restoration Capability
(pounds of moisture per bale)



Typical Energy Consumed
in 40 BPH Gin
(BTU per pound of moisture)

Lint Slide Grid

Low cost applicator
No batt compression

2,000

8

3,125
(4 cents/pound)**

Moisture Condenser*

Dual-purpose applicator/condenser
Good batt compression

3,500

10

5,000
(6.4 cents/pound)**

Steamroller I & II*

Most efficient applicator
Best batt compression

2,400

20

1,625
(2 cents/pound)**

*Moisture Condensers and Steamrollers are often used with an independent heater which will consume additional fuel, particularly in cold conditions.

**Using natural gas at a cost of \$1.29/therm. 1 therm = 100,000 BTU