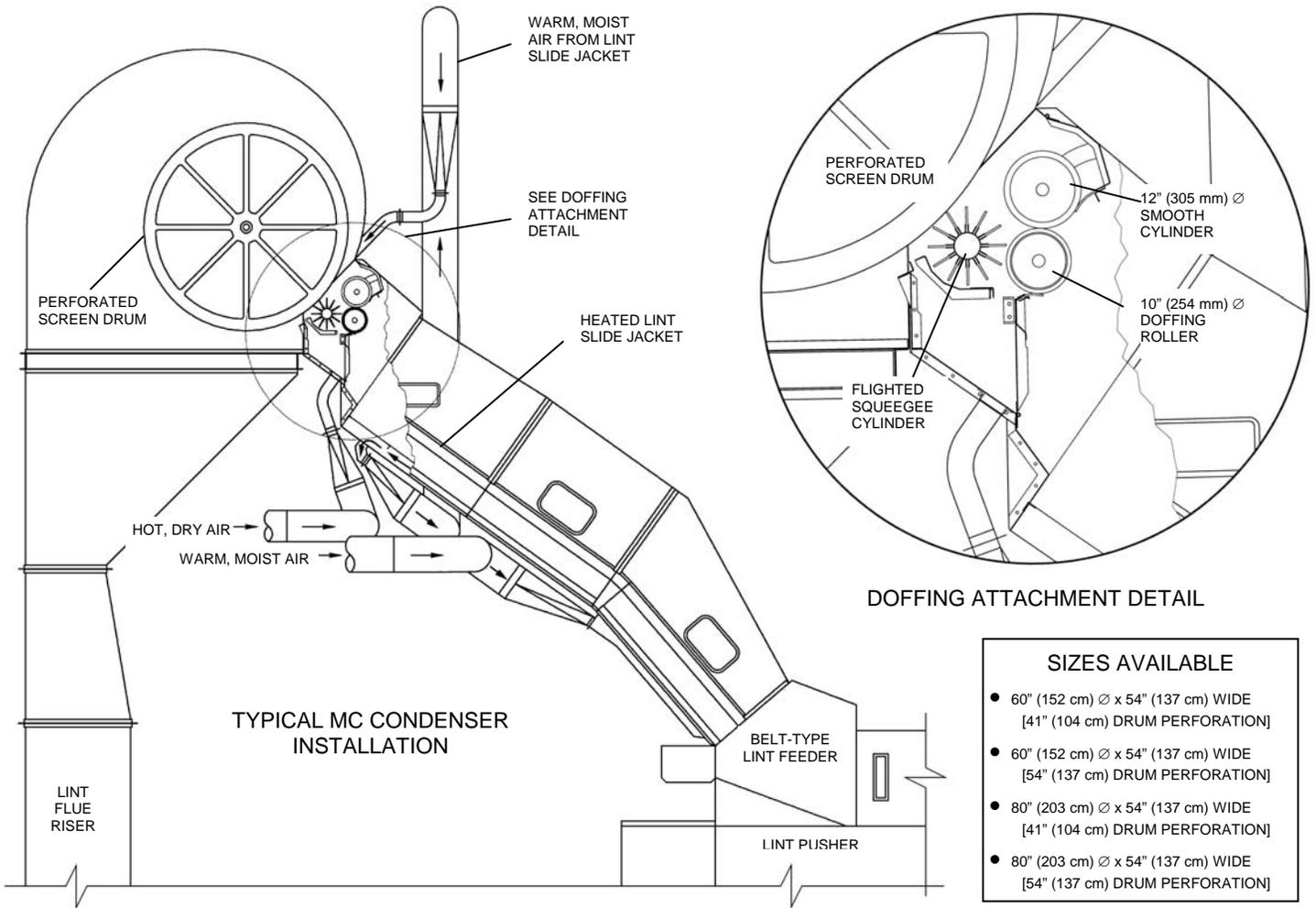


Moisture Conditioning (MC™) Condenser



The Lummus Moisture Conditioning (MC) Battery Condenser provides for lint moisture restoration within the condenser itself. Warm, moist air is induced in the lower part of a sheet metal jacket that surrounds the bottom and lower sides of the lint slide. This air migrates to the upper portion of the lint slide jacket where it is then routed to the moist air inlet of the condenser. It is injected into the batt just prior to the doffing assembly and pulled completely through the batt by the condenser exhaust fan, which ensures thorough infusion of moist air into the fiber. Hot, dry air is continuously applied to the doffing assembly and condenser drum to prevent condensation.

Upon entering the doffing attachment, the batt is lightly compressed against the perforated condenser drum by a 12" (305 mm) diameter smooth cylinder, then doffed from the drum by a flighted squeegee cylinder.

Final compression takes place when the batt passes between the smooth cylinder and a 10" (254 mm) diameter doffing roller. The level of batt compression is controlled through the adjustment of air cylinders attached to either end of the smooth cylinder, which hold it against the doffing roller. This final compression evenly distributes the moisture, while substantially reducing batt thickness.

Use of the MC Condenser results in more positive lint charges into the trampler, and it can often allow for trampler speed to be reduced without compromising press capacity. Also, the reduction in batt volume can provide for vastly increased throughput for a given lint slide length. Finally, effective moisture restoration in the lint can significantly reduce trampler wear and lower final bale compression hydraulic pressures, thus saving the operator money through lowered energy consumption and less maintenance.



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