



SUMMARY DESCRIPTION
of
Insulation Application Machine Patents

APPLICABLE PATENTS:

U.S. Patent No. 6,092,747 dated July 25, 2000; U.S. Patent No. 6,364,579 dated April 2, 2002; U.S. Patent No. 6,964,543 dated November 15, 2005. Patents Pending are U.S. Divisional Patent Application No. 11-225,698, Dated September 13, 2005; Canadian Patent No. 2,311,971 dated June 19, 2000; Canadian Patent No. 2,349,794 dated June 7, 2001, and Canadian Patent Application No. 2,485,807 dated December 14, 2004,

PRIMARY FEATURES:

- An agitation system that **conditions, conveys and continuously re-circulates** excess material over the feeder opening to assure a uniform supply of product to the modulating feed system. This system eliminates the need for a transmission or variable speed drive to the agitators when changing feed rates or from cellulose to different fiberglass products.
- An automatic **modulating damper system** between the agitators and a fixed speed air lock feeder or a **variable speed air lock** with a manually adjusted damper to **continuously maximize the machine output** regardless of the conveying load imposed upon the system.
- A rotary air lock with **spiral vanes** to reduce system shock load and dramatically extend the air seal life.
- A rotary air lock **feeder that is operatively connected to a proportional controller** that automatically modulates the speed of the feeder to provide a continuous and maximum uniform supply of product to the conveying hose regardless of changes in product texture, moisture content, lift to higher elevations, hose size and length.

A **"SMART AIR"** operator set-point control panel that **automatically maintains** an operator pre-determined **constant airflow** to carry product through the conveying hose to improve coverage and dust control.

A **"SMART FEED"** operator set-point control panel that **automatically maintains** an operator pre-determined **constant feed rate** of product through the conveying hose to dramatically improve machine output, coverage and dust control.

A **"SMART SPRAY"** operator set-point control panel that **automatically controls** an operator pre-determined **liquid flow** to improve the liquid/fiber mix.

A **"SMART VACUUM-SPRAY"** reclaim and wall spray system that utilizes only **one blower** for conveying and high capacity vacuuming.