

All in one vacuum system for Hosiery knitting machines.

Centralized vacuum systems is giving your Hosiery knitting department financial, economic and environmental benefits. Our clients have seen savings on the daily running costs along with less maintenance and huge changes in the in-room comfort. Return of investment is usually realised in less than 2 years.

Power saving by using a central pressure controlled vacuum unit (typically 40-50%)

Savings on maintenance and cleaning of the machines.

Central collection of dust and thread cuts, compressed in to a bag

Reduction of in room temperature by 5-12 degrees Celsius.

Improved in-room comfort helps your employs well being

Machine connection:

Each machine is connected to the pipe line and a automatic valve ensures that the vacuum is only on when the machine is working. (This eliminates marks in the sock after a stop on the machine)

The main line branches of lines for collecting the thread cut offs in to the central vacuum system.

Because the thread suction is connected to the central system is the thread collector on the machine no longer in use.

Instead the thread cut offs are collected, compressed and bagged together with waste from all other machines



Pipe layout:

The pipe layout is tailor made to fit the knitting room and usually running along the existing electric and pneumatic installations.

Layout of the piping is designed to give minimum pressure loss and constant suction pressure controlled by the on-line censor.

Filter and compacting unit:

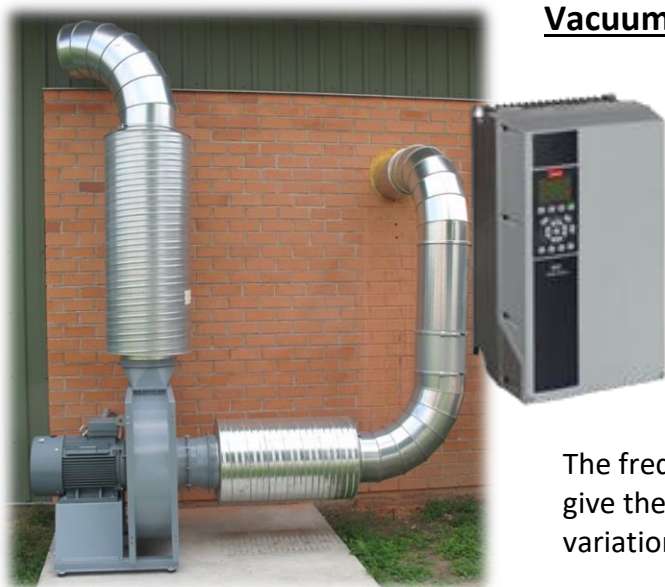
The filter and compressing unit, separates threads and dust from the exhaust air and compress it in to a plastic bag. The plastic bag contains typically waste from 6.000 machine running hours (50 machines running 120 hours).

The weight of a 1 meter long bag is 40-50kg.

Filter unit on the picture is used for installations of 50-100 knitting machines. (SP 005 771-SC)



Vacuum generator and frequency inverter:



The combination of a direct drive vacuum unit and a frequency inverter with PID regulation enables us to make a constant suction pressure level and a vacuum unit with no maintenance at all.

The frequency inverter regulates the speed of the motor to give the exact pressure that the system is pre-set for. The variation in the suction pressure is within +/- 0,5%

Segmented laser welded pipe system:

The segmented laser welded pipes, ensures a 100% smooth pipes. This allows us to transport even threads though the pipes without having problems with threads hanging and blocking the pipes.



References:



Latvia



Slovakia and Thailand



Lithuania

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