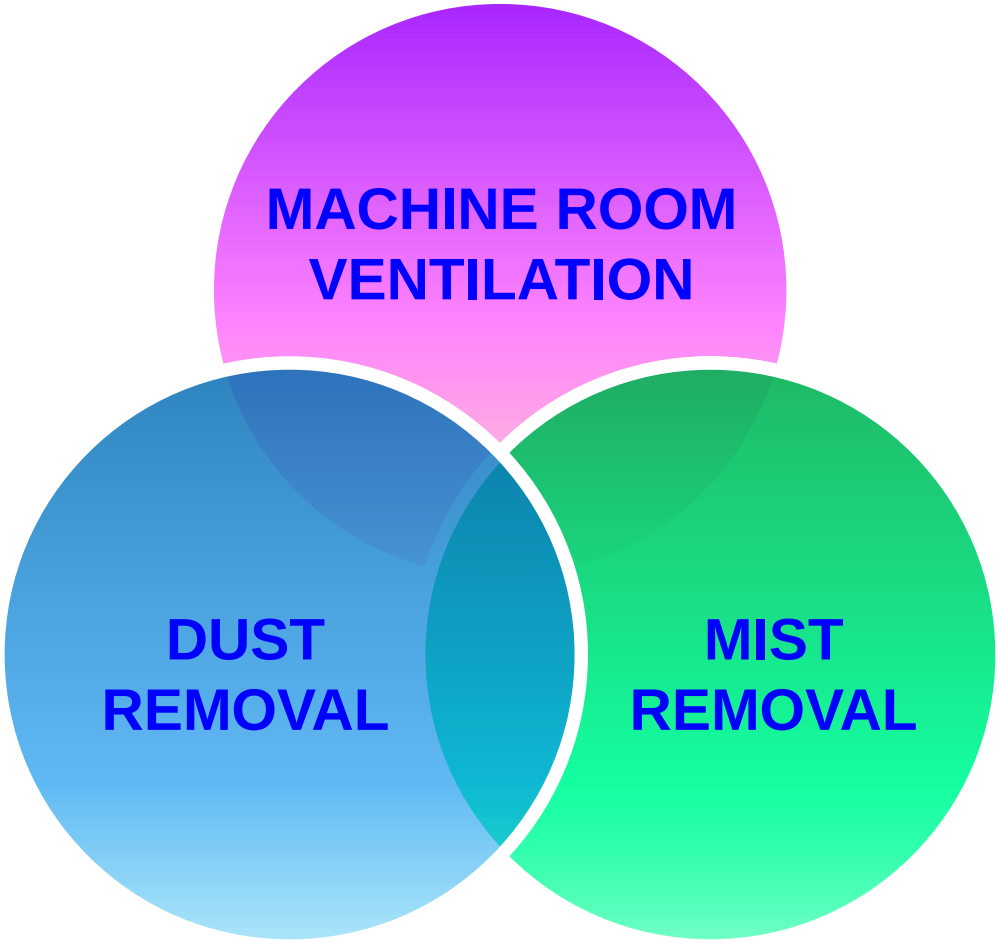
NOVIMPIANTI
DRYING TECHNOLOGY

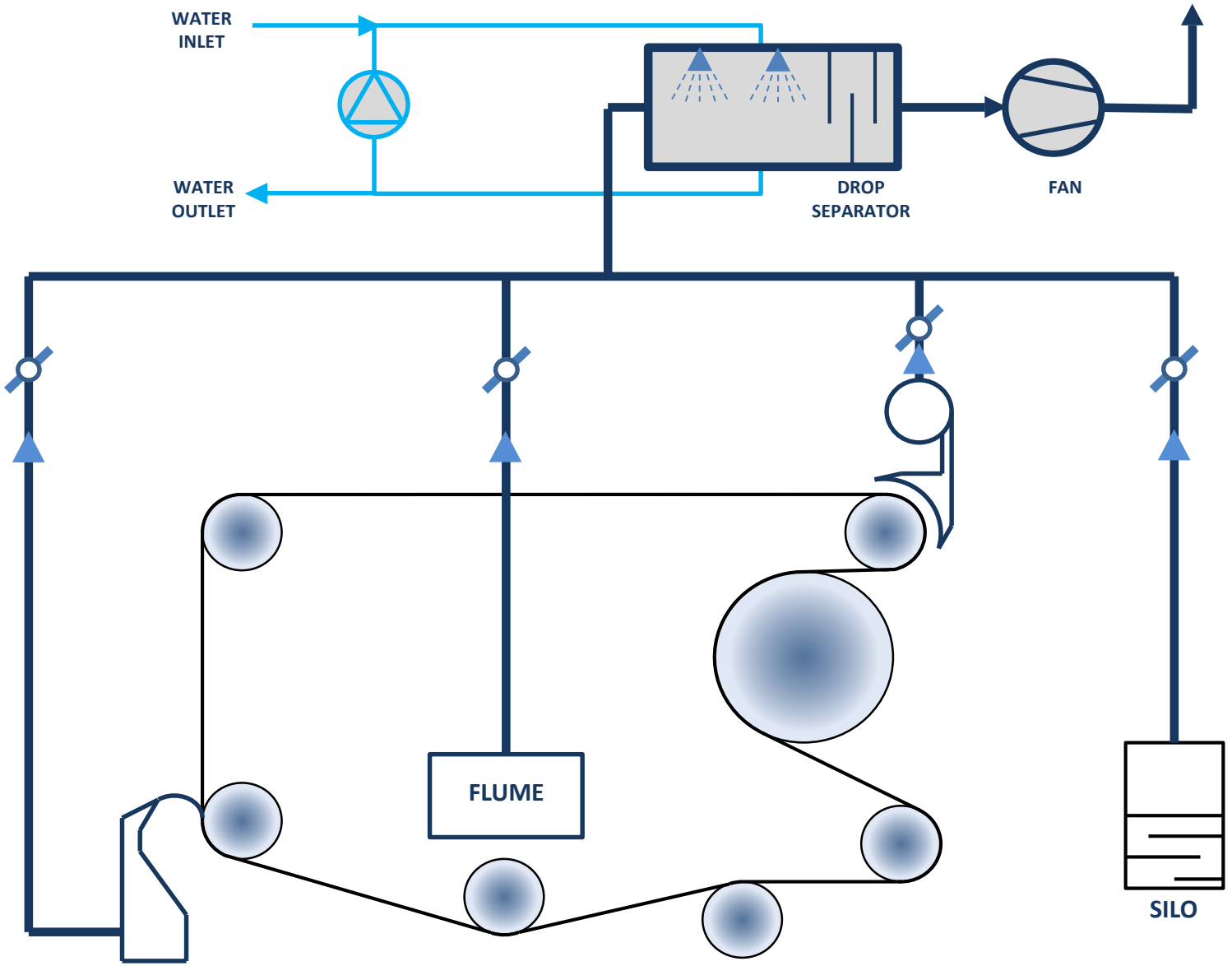
TISSUE MACHINE MIST CONTROL TECHNOLOGY

MIST REMOVAL IN THE OVERALL PICTURE

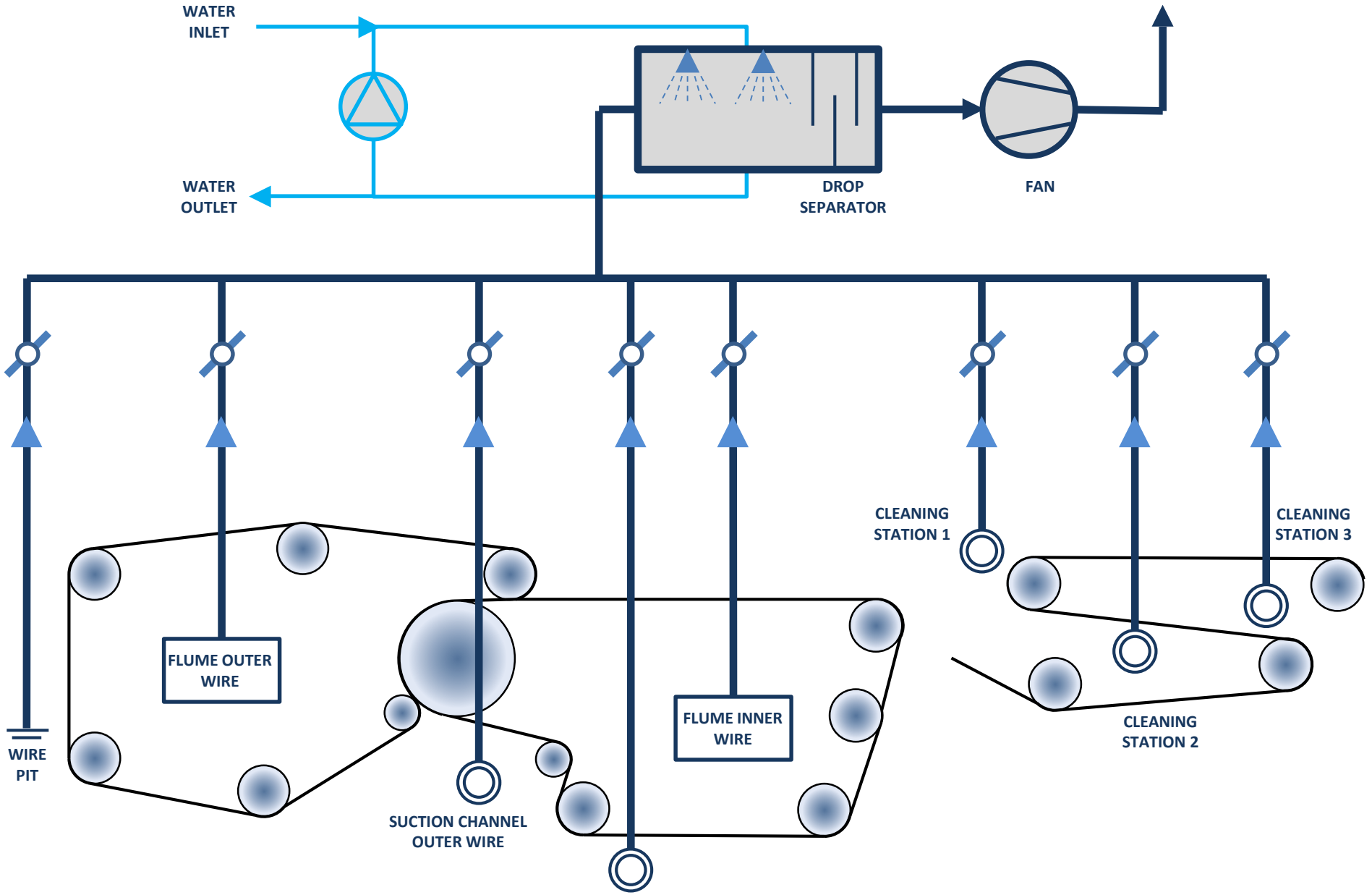


Room Ventilation, Dust and Mist Removal are deeply connected:
Each system can’t be studied without considering the others.

MIST REMOVAL SYSTEM – CRESCENT FORMER

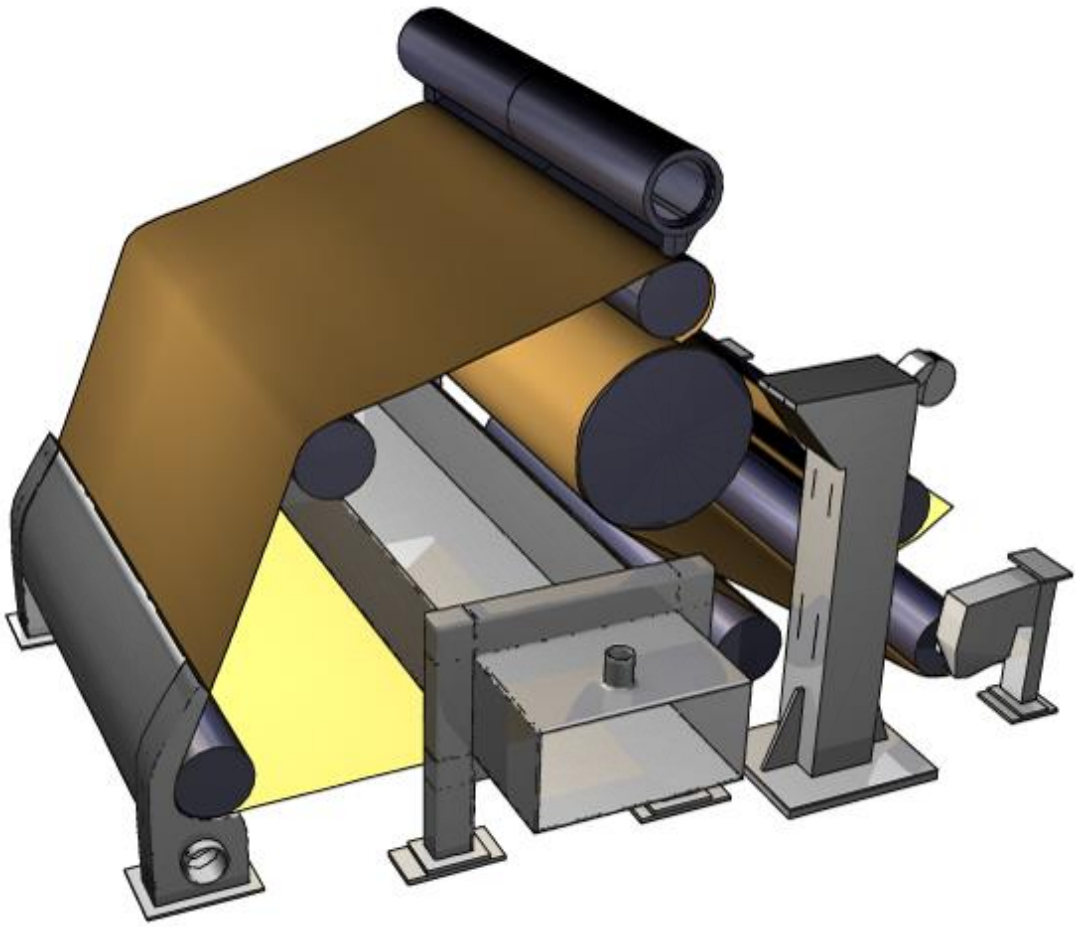


MIST REMOVAL SYSTEM – TWIN WIRE FORMER



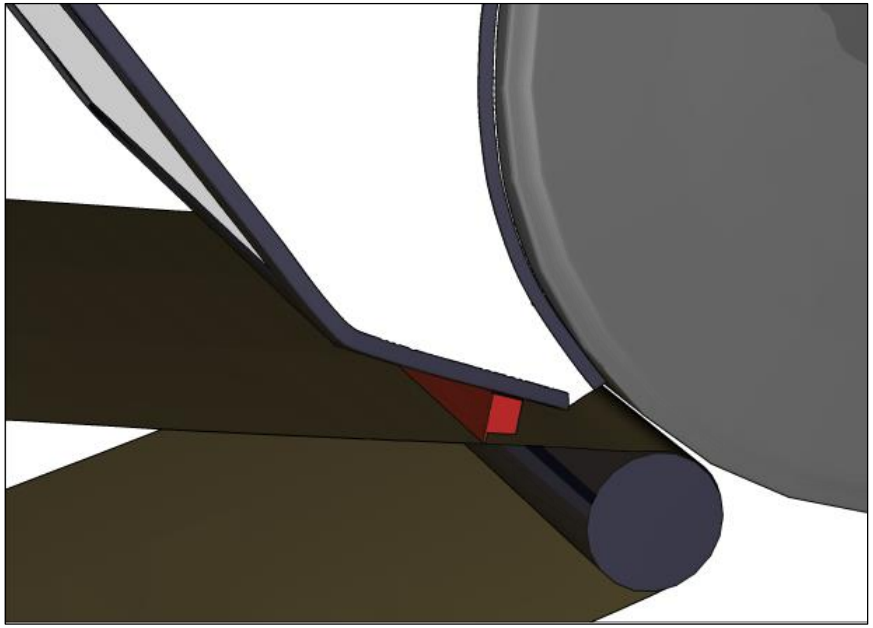
MIST REMOVAL FROM HEAD BOX AND WIRE

- Suction points are placed in the most critical zone where mist I generated
- Compartmenting and enclosures are designed and customized on each machine
- Usual suction points are:
  - Main saveall
  - Former
  - Flume
  - Silo



SUCTION BOXES ON PRESS AREA / WET HOOD

- The zone close to the press is critical for mist generation
- A dedicated suction box for mist should be placed in proximity of Hood wet end and Yankee dryer
- Mist suction box is endowed with baffle to contain and close the volume in between felt and Yankee dryer increasing suction efficiency



SUCTION HOODS

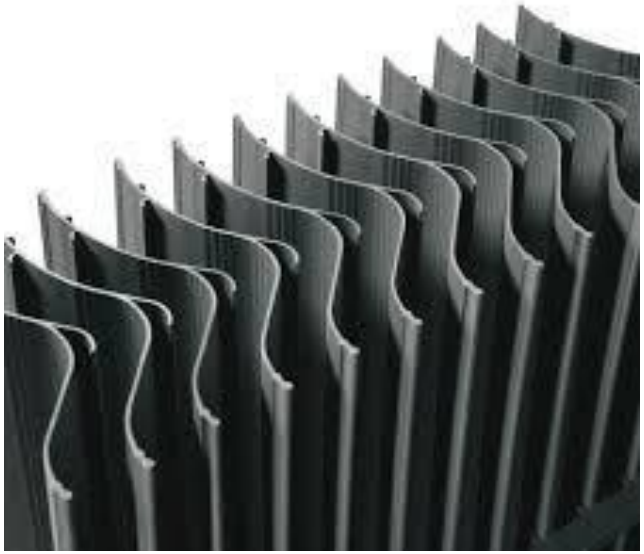
MIST SEPARATION

Each sucking point is connected to an external air system.

Drop separator is used to wash the exhaust coming from mist removal system and separate paper fibers that can be contained.

Water can be re-circulated (with fiber concentration kept under control).

Discharged water is sent back to machine's water treatment system.



SYSTEM REQUIREMENTS AND PERFORMANCES

Production [tpd]	100	200
Paper at reel [mm]	2800	5600
Flow rate [m^3/h]	58.000	100.000
Electric consumption [kW]	80	140
Water consumption [m^3/h]	5	10

Low Energy Consumption :

- The system is strictly designed for customer production and tissue machine
- The number of suction points “drives” fan volume / motor el. consumption
- Reduction up to 10% compared to other suppliers similar installation