FORBES MARSHALL

Hood and Pocket Ventilation Systems

Sustained product quality, maximum productivity, best economy.

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There is a growing demand of consistent quality paper and the need of mill owners to operate at consistent capacities through out the year.

Forbes Marshall has designed, supplied and successfully commissioned many paper machine hoods. We also have a range of hoods designed for lower capacity machines.

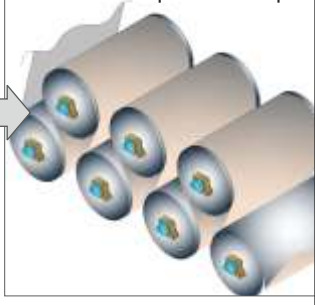
A hood not only provides a sustained environment for uniform drying through changing weather conditions, it also assists in improving the drying capacities of machines. At the same time, through well designed heat recovery systems, it enables lowering of steam consumption.

Why is a Hood Required?

Paper machine has regions of very high humidity which affects productivity.

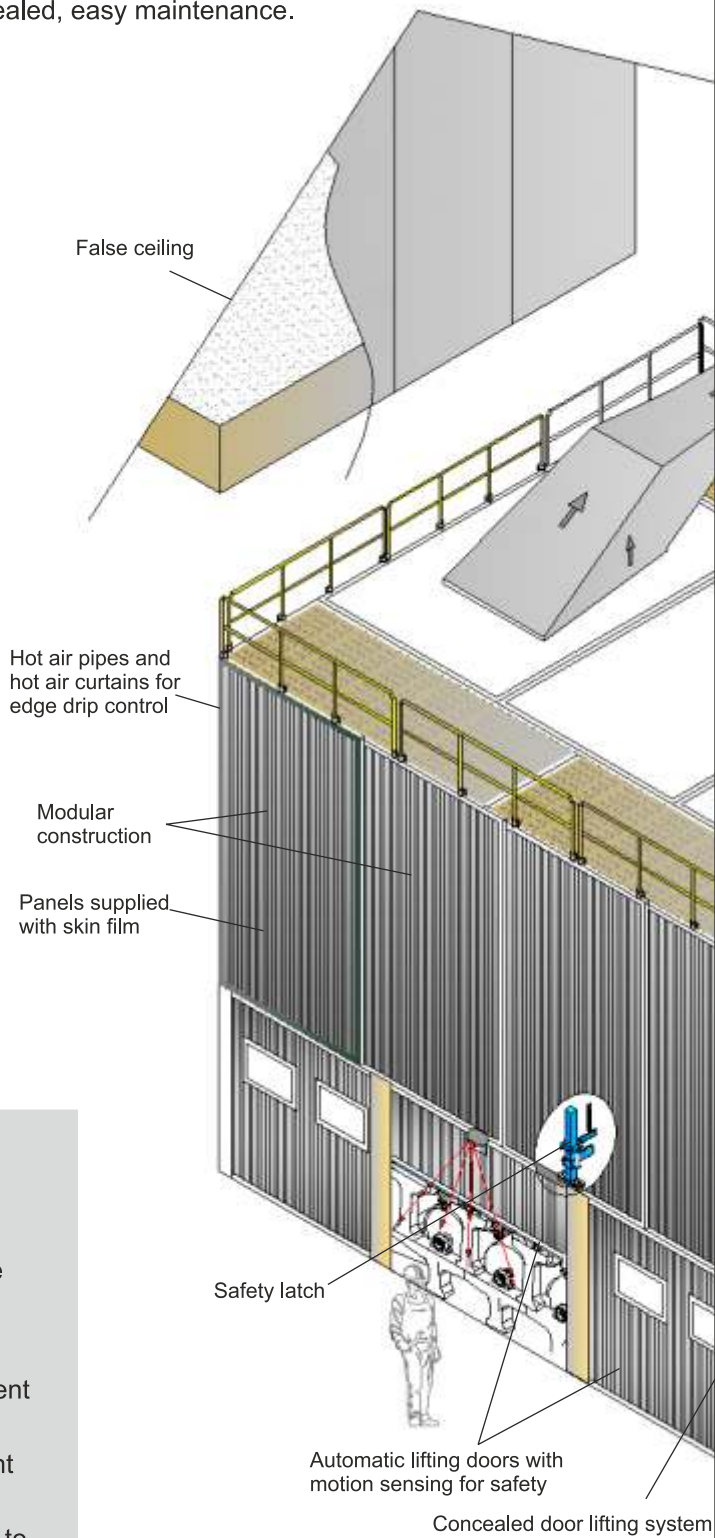
The pocket ventilation system of a hood blows hot air in these pockets, carrying away moist air and assisting better moisture release.

Consider
150 Tons of production per



Forbes Marshall Fully Closed Hoods and False Ceiling

Easy installation, fully sealed, easy maintenance.



Benefits

- Consistent production through the year
- Reduced CD moisture variation
- Zero dripping
- Production improvement upto 5%
- Economy improvement from 8 to 12%
- Typical payback of 18 to 24 months

day

5 -10 tons of evaporated water is discharged in the machine hall from the drying section alone. This causes a rise in humidity, which in turn impacts the life of shop structures and work environment.

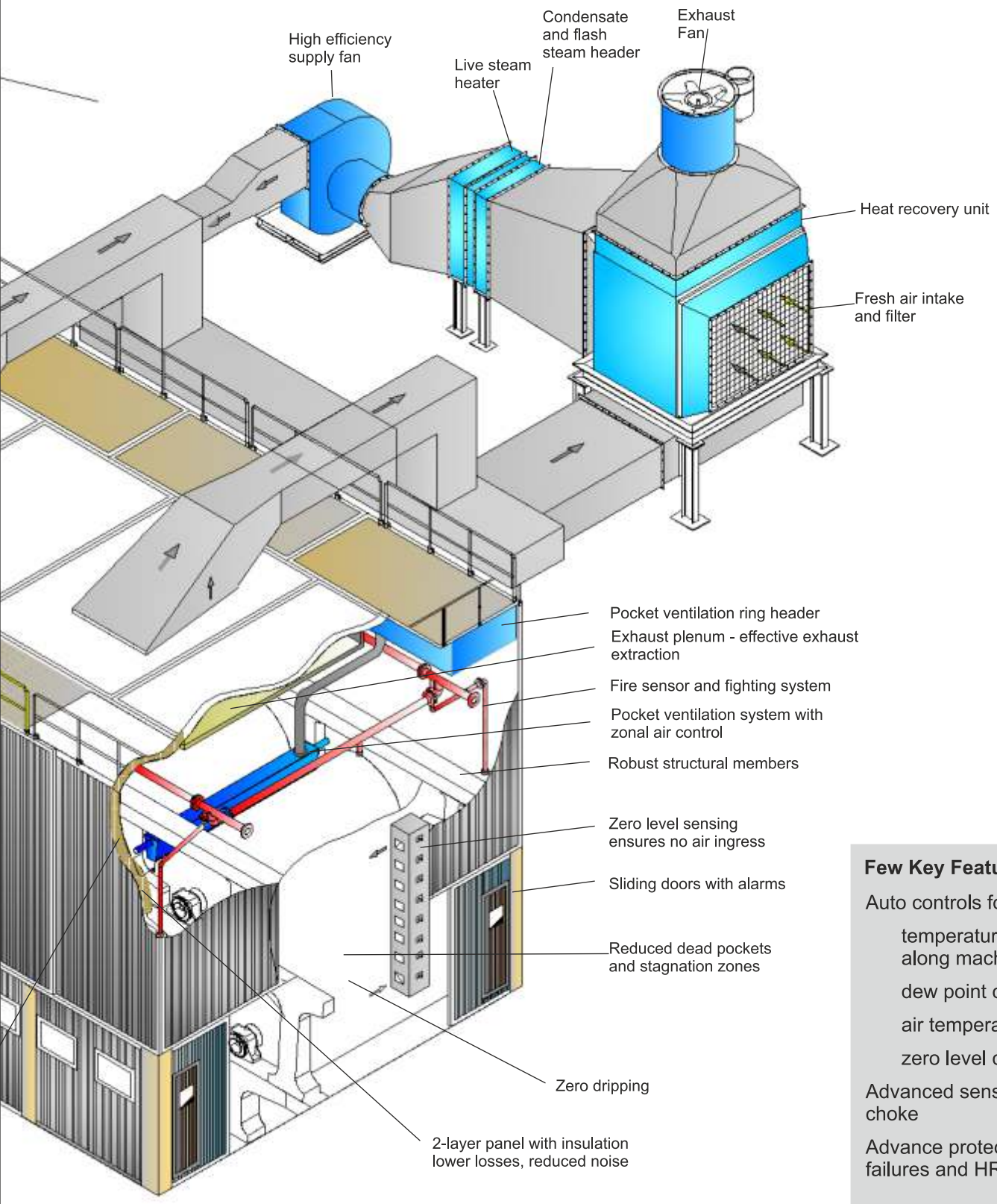
The hood discharges hot and humid air outside the shop helping maintain the shop floor environment.

At the same time, large quantity of heat is extracted and reused before discharging to atmosphere.

To dissipate the discharged vapour, 3,50,000 to 7,00,00 kg of air would need to be ventilated every hour.

When the RH is high, a 5 ^{o}C drop in temperature results in10% of this water to drip back. This impacts product quality and increases steam consumption.

The hood has a false ceiling and hot zones built inside to ensure zero dripping.



Few Key Features

Auto controls for-

- temperature profiling along machine length
- dew point control
- air temperature control
- zero level control

Advanced sensing for filter choke

Advance protection for fan failures and HRU

Innovation Experience

70 years

Steam and Condensate Systems

400+

Rotary Joints and Syphons

2000+

Boiler Monitoring Systems

50+

Condensate Recovery Systems

100+

Hoods and Allied Systems

20+

Plant / Machine Name	Location	Speed (MPM)	Total Production
Union Paper Mills	Dubai	450	350
International Paper, USA (APPM)	India	600	165
ITC	India	400	352
Loth Lorien	South Africa	350	200
Saigon Papers	Vietnam	900	400
The Vietnam Paper Corporation	Vietnam	650	216
E-Tap Paper Mill	Egypt	600	170
ABC Papers - False Ceiling	India	900	320
Yash Papers - Yankee Hood	India	450	60

Forbes Marshall services include evaluation, design, engineering, supply and commissioning of hoods for new projects, existing machines, revamps and upgrades of existing machine hoods.

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Forbes Solar
Forbes Vyncke
Forbes Marshall Steam Systems

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