

Valmet Air Dryer Nozzles

For rebuilds and new installations

Upgrade of existing air dryer nozzles to high performance Valmet Air Dryer Nozzles* improves the drying capacity.

Existing air dryers with old and less efficient nozzles of Foil or Float type in double sided air dryers and impingement type in single sided air dryers can be upgraded by installing Valmet's patented Air Dryer Nozzles. These can easily be installed without changing the drying layout.

Valmet Air Dryer Nozzles provide higher evaporation capacity and further improved web runnability of the coater. For a rebuild of Float type nozzles to Valmet Air Dryer Nozzles 25% more evaporation capacity is achieved. For a rebuild of Foil type nozzle technology to Valmet Air Dryer Nozzles the increase in drying capacity is over 50%. In single sided air dryers a rebuild of Impingement nozzles to Valmet Air Dryer Nozzles increase the drying capacity by 20%.

Using efficient air nozzles not only improves drying capacity, but also decreases energy consumption. Valmet uses nozzles with a higher heat transfer coefficient to take more energy from the impingement air. This results in less energy losses to the exhaust air and an increase in the amount of energy transferred to the sheet. Both features increase the dryer's energy efficiency.



- When higher evaporation rate, better runnability and energy savings are needed
- Increased evaporation capacity of existing dryers can enable higher production on the coater
- No change in coater machine layout
- Typically no change in air system (fan and burner or steam coil)
- No change in function and control of the dryers

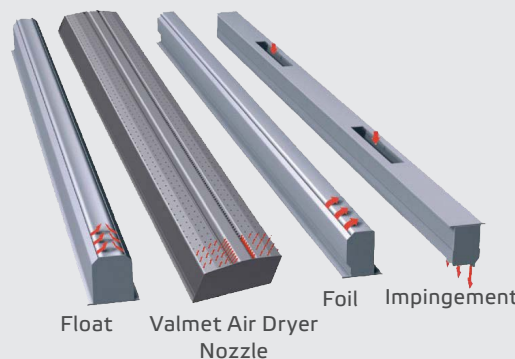
Valmet has made numerous nozzle upgrades to increase the drying capacity of existing coater dryers. Not just for Valmet dryers, but also for other manufacturer's dryers.

Over
50% increase
in drying capacity

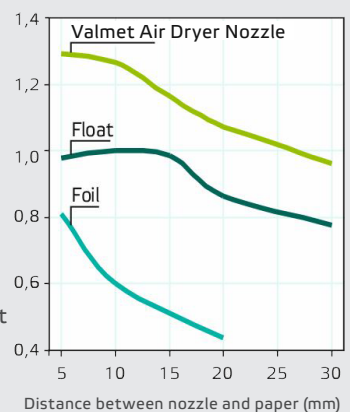
Foil type nozzle to
Valmet Air Dryer Nozzles

20% increase
in drying capacity

Impingement nozzles to
Valmet Air Dryer Nozzles



Relative heat transfer coefficient



*earlier known as PowerFloat Plus Nozzles

For more information, contact your local Valmet office.

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