

VarioJet nozzles

Twin-fluid nozzles with low air consumption despite large outlet angle



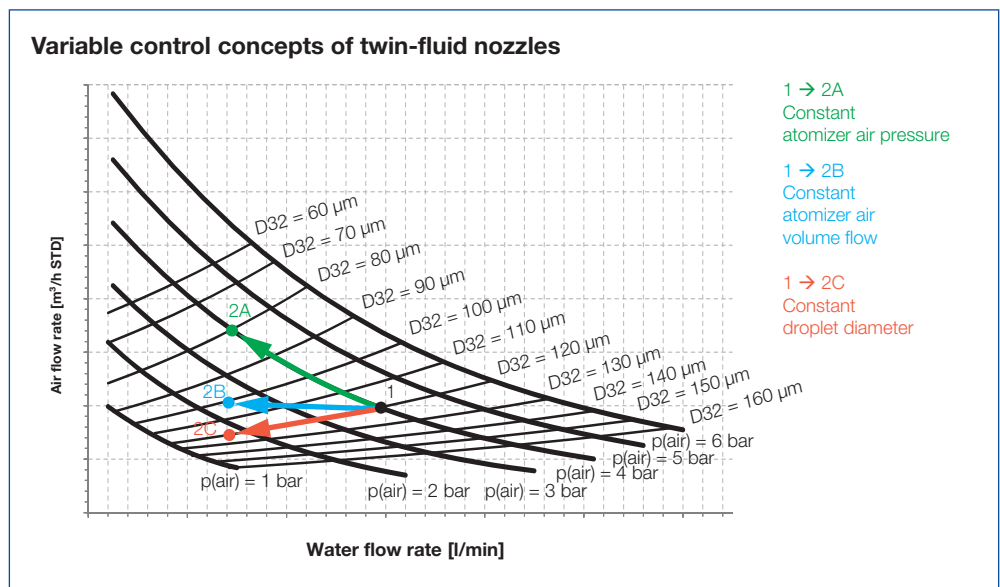
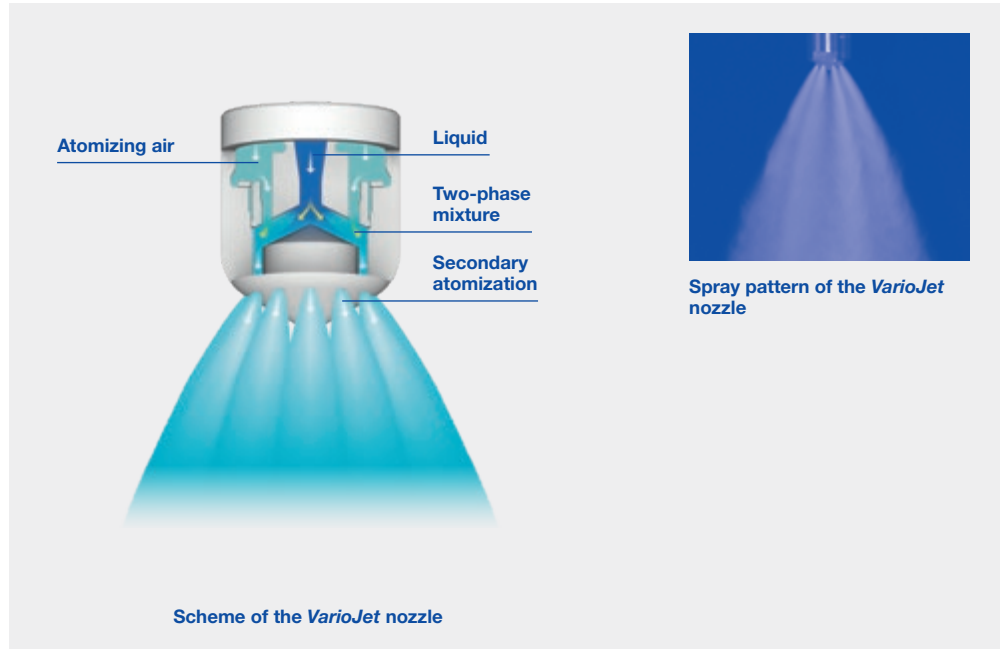
Lechler VarioJet nozzles atomize according to the principle of internal mixing. With this twin-fluid nozzle, the water is fed in axially via a bore hole.

After arriving at the cone tip, the liquid is split up into a thin liquid film. This thin liquid film is split into finest droplets by the atomizing air in the mixing chamber. The resulting two-phase mixture is then atomized a second time when exiting via several bore holes arranged in a circular fashion.

Thanks to the innovative design of the nozzle, a spray with a large outlet angle is achieved. This is characterized by an even liquid distribution as well as a fine droplet spectrum with a low specific air consumption.

The fineness of the droplet spectrum is decisively influenced by the air/liquid ratio and by the pressure level of the two flow rates. As a general rule: the higher the air/liquid ratio and the higher the pressure level of atomizing air and liquid is, the finer the droplet spectrum.

The large free cross-sections in the nozzle keep the risk of clogging and the maintenance effort to a minimum.



Use:

- Gas cooling in gas cooling towers as well as gas-bearing pipes (ducts)

- Properties**
- Large spray angle** (60°, 90°) for good coverage of the cross-section of the duct
 - Adjustment of the droplet spectrum** by changing the air/fluid ratio
 - Clog-resistant** thanks to large free cross-sections without internal fittings
 - High turn-down ratio** up to 20:1
 - Low air consumption**
 - Typical pressure range**
Liquid 1–9 bar, g
Atomizing air 1–6 bar, g