

Special twin-fluid nozzles for DeNOx applications

1AW nozzle

The Lechler 1AW nozzle works according to a newly developed and patented atomization principle. It divides the supplied atomizing air into a primary and secondary air flow. Thanks to the specific inflow geometry, the secondary air exits through an annular gap causing a very fine atomization in the edge region of the spray.

This twin-fluid nozzle enables finest droplet spectra and shortest evaporation distances while also allowing very good controllability of the flow rate. Cluster heads designed specifically for these nozzles multiply the flow rates and adapt the spray pattern to the requirements at the point of injection.

Special properties



Spray angle of the individual nozzle
15° as full cone



Particularly fine droplets thanks to tertiary atomization



Turn-down ratio
of 10:1



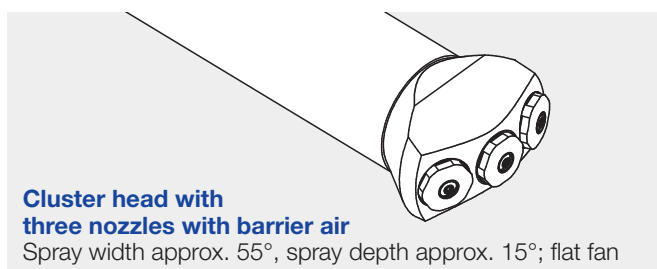
Design
as single or bundle nozzle lances



Typical pressure range
Liquid 1–5 bar, g
Atomizing air 1–5 bar, g



Adjustment of the droplet spectrum by changing the air/fluid ratio



Spray pattern of a 1AW nozzle