

FLOMAX® ECO NOZZLES

HIGH-EFFICIENCY AIR ATOMIZING
NOZZLES FOR OPTIMIZED GAS COOLING



Spraying Systems Co.[®]

Experts in Spray Technology



MORE EFFICIENT GAS COOLING TO LIMIT YOUR COSTS AND MEET SUSTAINABILITY GOALS

Gas cooling is a challenging stage in many industrial and chemical processes. It also plays a vital role in meeting the sustainability goals of your organisation. With the patented design of the FloMax® ECO we have created a hollow-cone air atomizing nozzle that's unparalleled in terms of efficiency. The unique multi-stage atomization process delivers finer droplets and needs 20% less compressed air than the previous generation of FloMax® nozzles. The result will transform the efficiency of your gas cooling process and significantly decrease your impact on the environment.

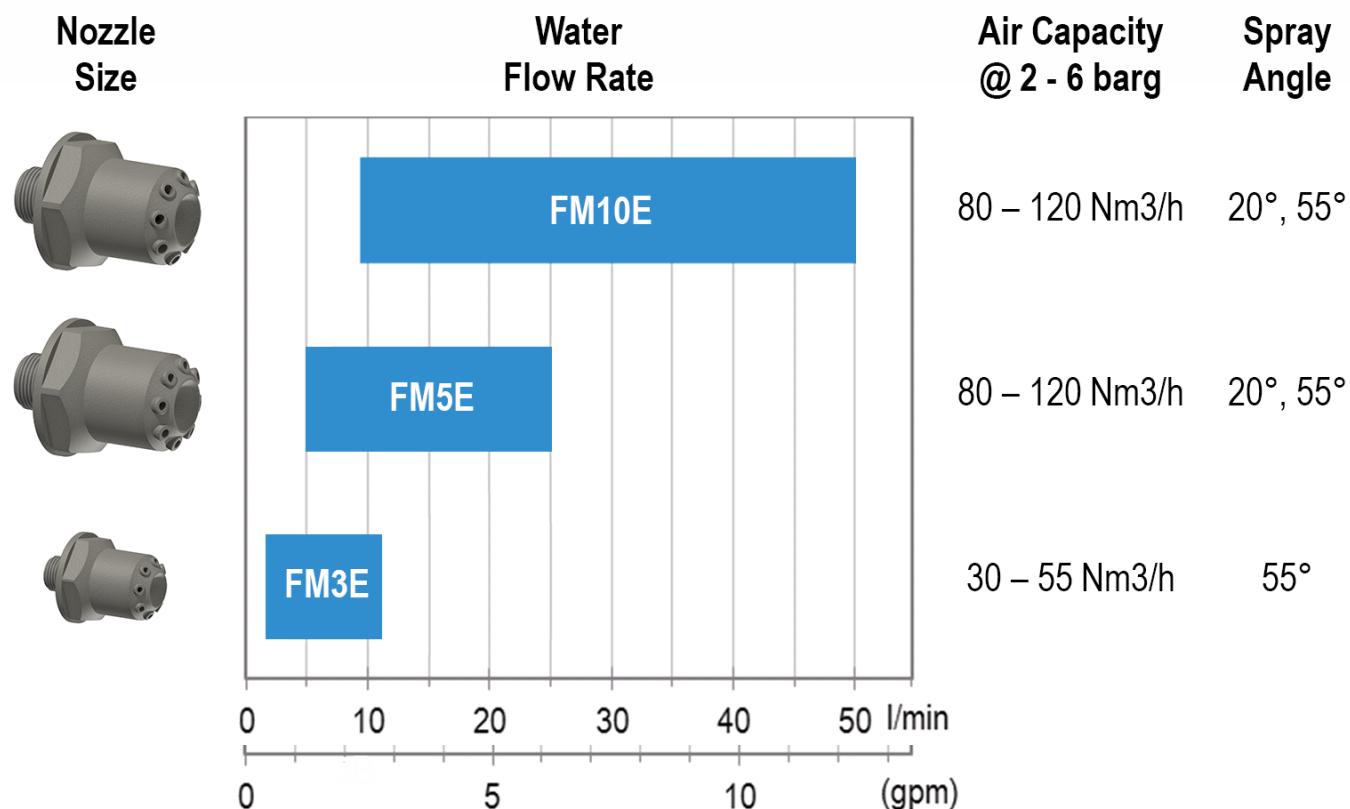
ADVANTAGES

- More efficient use of compressed air
- Finer droplets for better cooling
- Less impact on the environment
- Compact size
- Same mounting connection as standard FloMax®

TECHNICAL DATA

- Water Capacity: 2 – 50 l/min (0.5 – 13.2 gpm)
- Spray Pattern: Hollow cone
- Wide Spray Angle: 20° - 55°
- Small Droplet Size: 5 – 250 µm
- One piece design

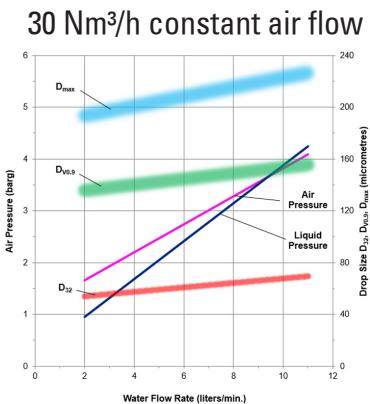
CAPACITY



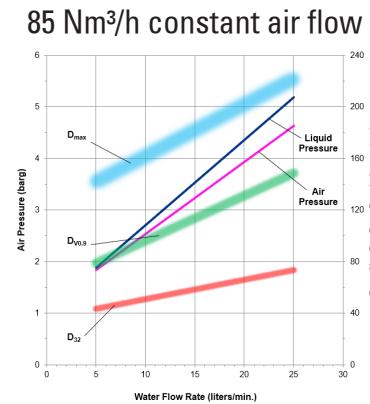
NOZZLE OPERATION

Air-Water pressures should not exceed 8 barg. For long lifetime use particle filters of < 500 microns. Drop size measurements are based on laboratory conditions using air as atomizing gas and pure water as liquid. Application of other non-condensing atomizing gases (e.g. nitrogen) as well as other liquids is possible, but droplet size distribution might change significantly.

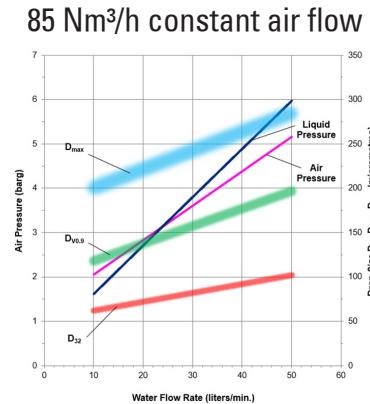
FloMax® FM3E



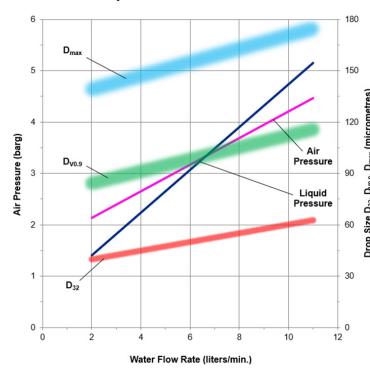
FloMax® FM5E



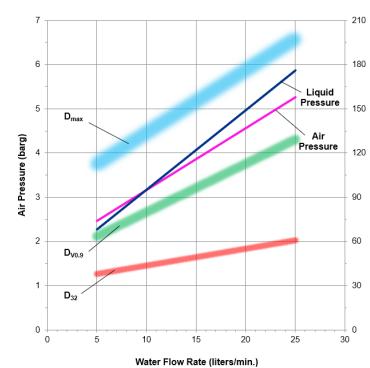
FloMax® FM10E



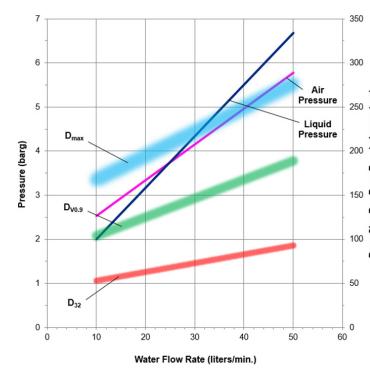
39 Nm³/h constant air flow



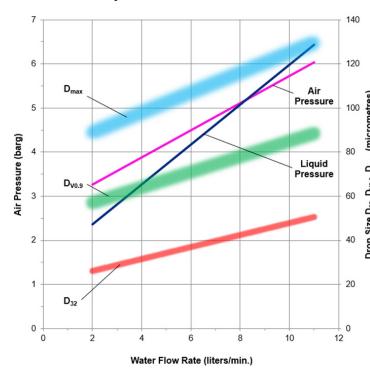
102 Nm³/h constant air flow



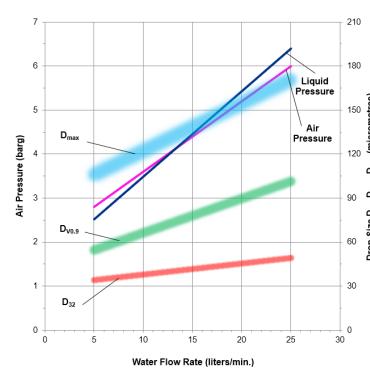
102 Nm³/h constant air flow



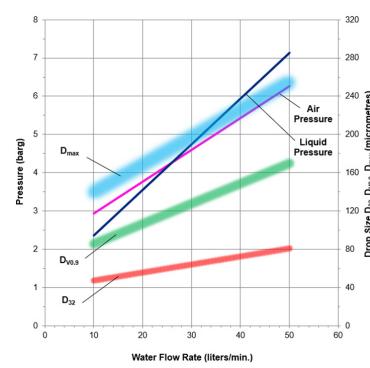
55 Nm³/h constant air flow



119 Nm³/h constant air flow



119 Nm³/h constant air flow



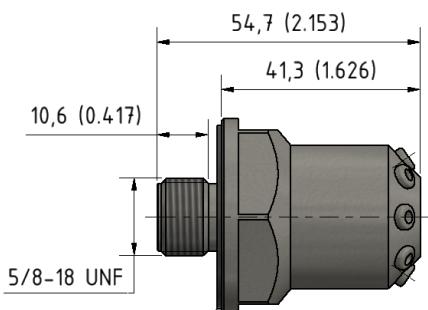
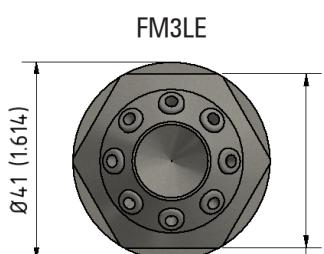
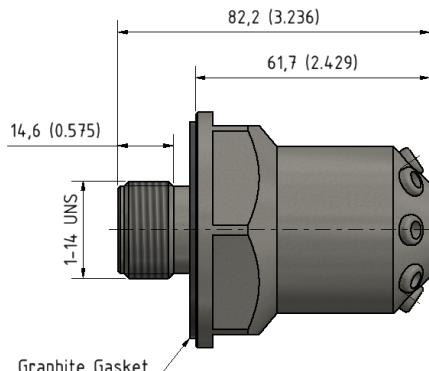
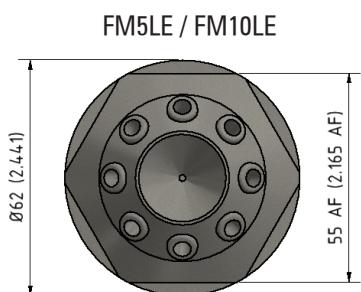
Data is based on spraying water under laboratory conditions. All values are to be computed utilizing the procedures for determining spray characteristics as outlined by ASTM (Standard E799).



FLOMAX® ECO NOZZLES

DIMENSIONS

Dimensions in mm (in)



MATERIAL

Stainless Steel 1.4404
(AISI 316L)
Other materials on request

OPTIONAL

Lances & Dosing Systems



ADVANTAGES OF USING FLOMAX® ECO NOZZLES

Innovative products for the perfect spray. Designed, manufactured and tested in Germany.

The new FloMax® nozzle series is the advancement of the previous design.

- Compact one piece design
- Maintenance is fast and easy

The new FloMax® ECO nozzles consist of only one piece and a gasket. No special tools are required.

APPLICATIONS

- Gas cooling at power plants or steel production plants (e.g. before an E-filter)
- Gas cooling at industrial or petro chemical process plants

ORDERING INFORMATION



Example

FM 10 E - 55 - 1.4404



Spraying Systems Co.®

Experts in Spray Technology

Find your local Spraying Systems representative on
www.spray.com/contact/local_rep.aspx



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