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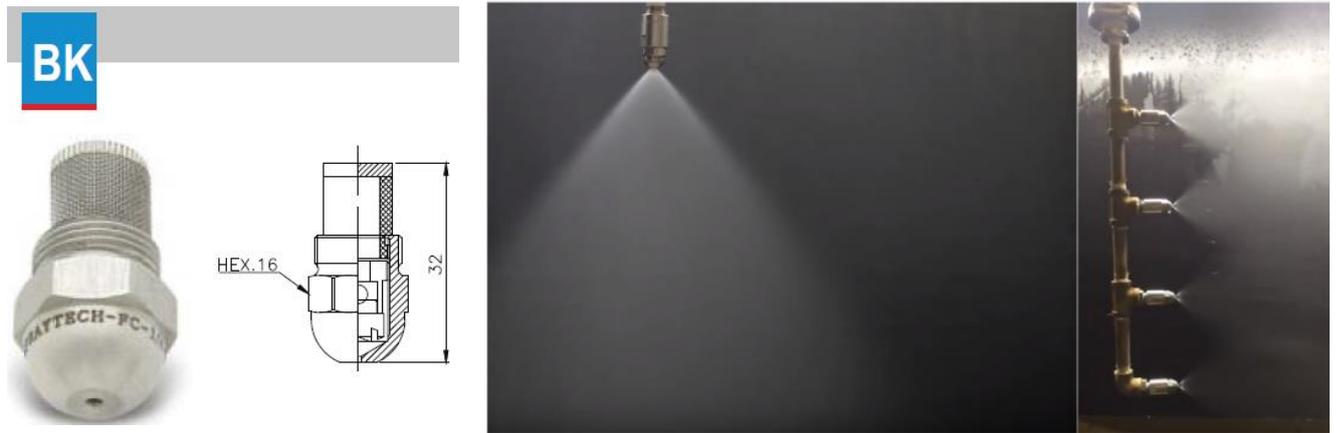
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SANITIZATION SPRAY NOZZLES

ABSTRACT

As the world is suffering from COVID-19 pandemic, SPRAYTECH SYSTEMS INDIA PVT LTD stands to fight against virus outbreak and offers solution for sanitization spray.

1. Single fluid nozzle/hydraulic nozzle



Nozzle type: BK series mist spray nozzle (page 72 of the catalogue)

Spray type: fine mist

Operating pressure: 5 – 7 bar

Spray pattern: semi hollow cone

Spray length: 1.5 meters (vertically downward spray)

1 meter (horizontal spray)

Spray angle: 60 degree (dense pattern) / 90 degree (less dense pattern)

Flow rate: 5 GPH (low flow rate), 10 GPH (high flow rate)

Nozzle MOC: SS304, SS316

End connection: 9/16 UNEF (M) (can be used with an adaptor for alternate connection)

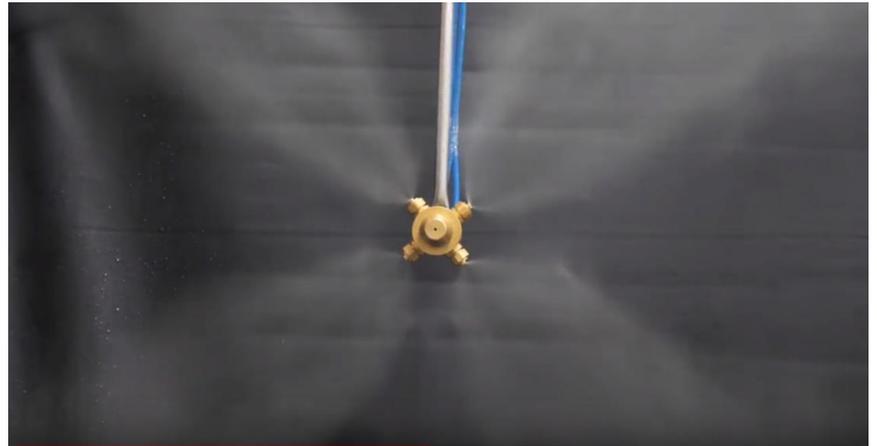
Average droplet size: 40 – 70 microns

Nozzle performance video: https://www.youtube.com/watch?v=FlcWsTo_t_Q

Utilities required: pump (capacity based on number of operating nozzles)

Brief: BK series nozzles are mist spray nozzle, it generates droplets starting from 40 microns at pressure around 5 – 7 bar. It has built in filter but filter in the pipe line is recommended. It is a single fluid nozzle, thus no compressed air is required for atomization.

2. Air atomizing 4-way fogger



Nozzle type: 4-way fogger /humidifier

Spray type: fine fog

Operating pressure:For Liquid: 0.5 – 1 bar

For compressed air: 3 – 4 bar

Air consumption per unit: 10 – 15 CFM

Spray pattern: 360 degree flat curtain

Spray length: 3 - 5 meters diameter flat pattern curtain on an axis.

Spray angle: 90 degree for each tip

Flow rate: 4 LPH (low flow rate), 12 LPH (high flow rate)

Nozzle MOC: SS304, SS316, Brass

End connection: 1/4 (F) for Liquid

3/8 (F) for Compressed air

Average droplet size: 15 – 30 microns

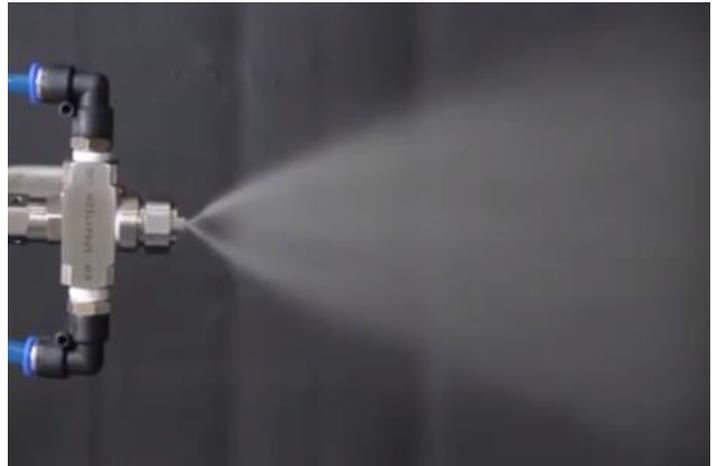
Nozzle performance video: <https://www.youtube.com/watch?v=sPr9fYrArFA>

Utilities required: pump (capacity based on number of operating nozzles)

Compressed air (based on air capacity required by nozzle)

Brief: 4-way fogger is a spray nozzle unit which comprises of 4 individual spray tips which sprays very fine fog/mist. Individual tip has a spray angle of 90 degree flat pattern which then forms a 360 flat curtain spray in an axis. It has one liquid and one air connection. Liquid port has 1/4" BSP (F) connection and compressed air port has 3/8" BSP (F) connection. One fogger unit covers 3 - 5 meters diameter and requires around 10 – 15 CFM of compressed air volume @ 3 – 4 bar pressure. Mist/fog can be controlled via regulating the air and liquid pressure.

3. Air atomizing nozzle (CAEA series flat pattern spray)



Nozzle type: CAEA series flat pattern air atomizing spray nozzle (page 89, 90 of the catalogue)

Spray type: fine fog

Operating pressure: For Liquid: 0.5 – 1 bar

For compressed air: 2 – 3 bar

Air consumption per unit: 3 – 5 CFM

Spray pattern: 60 / 90 degree flat curtain

Spray length: 2 meters (vertically downward spray)

1.5 meter (horizontal spray)

Spray angle: 60 / 90 degree for each tip

Flow rate: 1 LPH (low flow rate), 5 LPH (high flow rate)

Nozzle MOC: SS304, SS316

End connection: 1/4 (F) for Liquid

1/4 (F) for Compressed air

Average droplet size: 15 – 25 microns

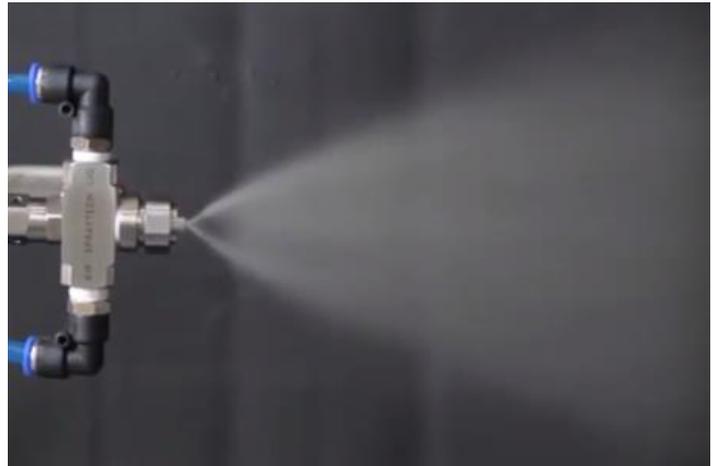
Nozzle performance video:

<https://www.youtube.com/watch?v=LUE3tM9akv0>

Utilities required: pump (capacity based on number of operating nozzles)
Compressed air (based on air capacity required by nozzle)

Brief: CAEA series air atomizing nozzle offers very fine fog/mist. It provides spray angle of 60 / 90 degree flat pattern which sprays flat curtain spray in an axis. It has one liquid and one air connection. Both liquid and compressed air port has 1/4" BSP (F) connection. Mist/fog can be controlled via regulating the air and liquid pressure.

4. Air atomizing nozzle (DAIA series full cone pattern spray)



Nozzle type: DAIA series Full cone pattern air atomizing spray nozzle (page 91 of the catalogue)

Spray type: fine fog

Operating pressure: For Liquid: 1 – 1.5 bar
For compressed air: 2 – 3 bar

Air consumption per unit: 3 – 5 CFM

Spray pattern: 60 / 90 degree flat curtain

Spray length: 2 meters (vertically downward spray)
1.5 meter (horizontal spray)

Spray angle: 60 / 90 degree for each tip

Flow rate: 2 LPH (low flow rate), 5 LPH (high flow rate)

Nozzle MOC: SS304, SS316

End connection: 1/4 (F) for Liquid
1/4 (F) for Compressed air

Average droplet size: 15 – 30 microns

Nozzle performance video:

<https://www.youtube.com/watch?v=Nqand452H08>

Utilities required: pump (capacity based on number of operating nozzles)
Compressed air (based on air capacity required by nozzle)

Brief: DAIA series air atomizing nozzle offers very fine fog/mist. It provides full cone pattern with spray angle of 60 / 90 degree. With full cone pattern maximum surface area is covered. It requires 1 – 1.5 bar pressure for liquid and 2 – 3 bar for air and both can be tuned as per requirement. It has one liquid and one air connection. Both liquid and compressed air port has ¼" BSP (F) connection. Mist/fog can be controlled via regulating the air and liquid pressure.

5. Dry fog spray nozzle



Nozzle type: Dry fog spray nozzle (page 111 of the catalogue)

Spray type: Dry fog

Operating pressure: For Liquid: 1.5 - 2 bar
For compressed air: 3 – 5 bar

Air consumption per unit: 4 – 6 CFM

Spray pattern: 60 - 90 degree flat curtain

Spray length: 1.5 meters (vertically downward spray)
1.5 meter (horizontal spray)

Spray angle: 60 / 90 degree

Flow rate: 0.5 - 1 LPH

Nozzle MOC: SS304 with Brass adaptor

End connection: 1/8 (F) for Liquid
1/8 (F) for Compressed air

Average droplet size: 5 – 15 microns

Nozzle performance video: <https://www.youtube.com/watch?v=193r2pbJcAM>

Utilities required: pump (capacity based on number of operating nozzles)
Compressed air (based on air capacity required by nozzle)

Brief: Dry fog nozzles provides very fine fog. The droplets size are around 5 – 15 microns which does not settle and feels like dry fog. It provides cone pattern with spray angle of 60 - 90 degree. After 1 meter the fog disperse and make the environment foggy. It requires 1.5 - 2 bar pressure for liquid and 3 – 5 bar for air and both can be tuned as per requirement. It has one liquid and one air connection. Both liquid and compressed air port has 1/8" BSP (F) connection. Mist/fog can be controlled via regulating the air and liquid pressure.