



/AIRox® NEBULIZERS

The strength of the entire /ECOFOG® system are our /AIRox® nebulizers (patent) that is able to micronize water at low pressure using minimum power consumption. Generally 2-3 low flow (20-30 L/h of water) nebulizers are enough to solve the dust presence problems of a particular size.

The effectiveness of dedusting using micronized water is inversely proportional to the size of the "drops" that ingest the dust particles in suspension: the smaller the "drops", the more they manage to incorporate the suspended dust particles. In a room that is as sealed as possible, the dust particles come into contact with the mist produced by the /ECOFOG® system. The generated mist moistens the dust particles causing them to fall back onto the material being moved.



Returning the dust particles to the material that has generated it means

- reducing the level of emitted dust in subsequent transportation
- not having to worry about the disposal of the dust recovered (unlike what occurs with traditional systems, such as bag filters, etc.).

Thanks to the various attachment devices (caps) for the optimal positioning of the nebulizers to ensure ideal fog distribution. Maintenance is extremely simple and fast.

Barra Project International Srl offers two different ranges of /AIRox® nebulizers

- ◆ /AIRox® GRC with internal micronization
- ◆ /AIRox® IMPACT with external micronization

/AIRox® IMPACT

External micronization

Nebulizers modulated in stainless steel with air-water impact nebulization system.

The micronization of the water (up to a max of 100L/h) is obtained by exploiting the disruptive effect of impact: a jet of high velocity air strikes a water stream distributed homogeneously on an impactor favouring their disintegration. This action generates a mixture of air-water in outside free expansion.

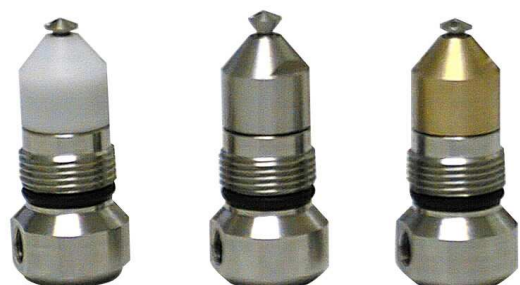


The outside of the nebulizer spraying thus obtained allows you to:

- ⇒ optimize the degree of fogging generated the mist spreads directly into the environment, avoiding direct contact with the walls that produces re-agglomeration into drops of larger diameter
- ⇒ adjust the air-water flow in a linear and independent fashion this avoids the formation of back-pressure which is inevitably generated in internal mist systems
- ⇒ quickly calibrate the volume of mist generated to suit specific needs

Versatile nebulizer equipped with interchangeable heads to fit specific requirements, simple to install, thanks to the different mounting options:

- adjustable brackets
- caps (on closed structures)
- swivel joints
- flow regulators





External micronization

/AIROX® IMPACT NEBULIZERS

| Item | Model | Flow rate lt/h | Air pressure bar | | Water Pressure bar | | Material |
|--------|-------|-------------------|---------------------|-----|-----------------------|-----|----------|
| 400010 | M 40 | 40 | 1 | 2,5 | 0,1 | 0,7 | X |
| 400015 | M 100 | 100 | 1,5 | 3 | 0,1 | 1 | X |



for placement in closed facilities

/AIROX® CAPS

| Item | Description | Dimensions |
|--------|--|------------|
| 620124 | AIROX SMALL FIXED CAP for AIROX IMPACT/GRC | 130 |
| 620125 | AIROX BIG FIXED CAP for AIROX IMPACT/GRC | 200 |
| 620126 | AIROX SMALL CAP WITH ARTICULATED JOINT for AIROX IMPACT/GRC | 130 |
| 620127 | AIROX BIG CAP WITH ARTICULATED JOINT for AIROX IMPACT/GRC | 200 |
| 620116 | ADJUSTABLE THREADED JOINT for AIROX IMPACT/GRC | - |



Nebulizer cap
in a fixed position



Cap with adjustable joint
nebulizer external to the
chamber

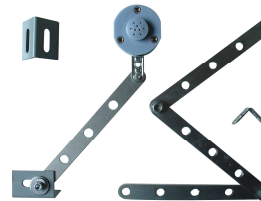


Adjustable cap for closed
indoor facilities
nebulizer internal to the
chamber

to install in open structures

/AIROX® ADJUSTABLE BRACKETS

| Item | Description | Model |
|--------|--|-------|
| 622720 | AIROX ADJUSTABLE BRACKET FOR NEBULIZER | 200 |
| 622721 | AIROX ADJUSTABLE BRACKET FOR NEBULIZER | 400 |
| 622722 | AIROX ADJUSTABLE BRACKET FOR NEBULIZER | 600 |
| 622723 | AIROX ADJUSTABLE BRACKET FOR NEBULIZER | 800 |
| 622724 | AIROX ADJUSTABLE BRACKET FOR NEBULIZER | 1000 |



LEGENDA

| | | | |
|----------|------------------------|-----------|-----------------------------------|
| X | STAINLESS STEEL (INOX) | S | JUNCTION (CAPS) |
| D | DERLIN | U | EXHAUST |
| | | SA | ANTIFREEZE SYSTEM (ECOFOG PANELS) |