

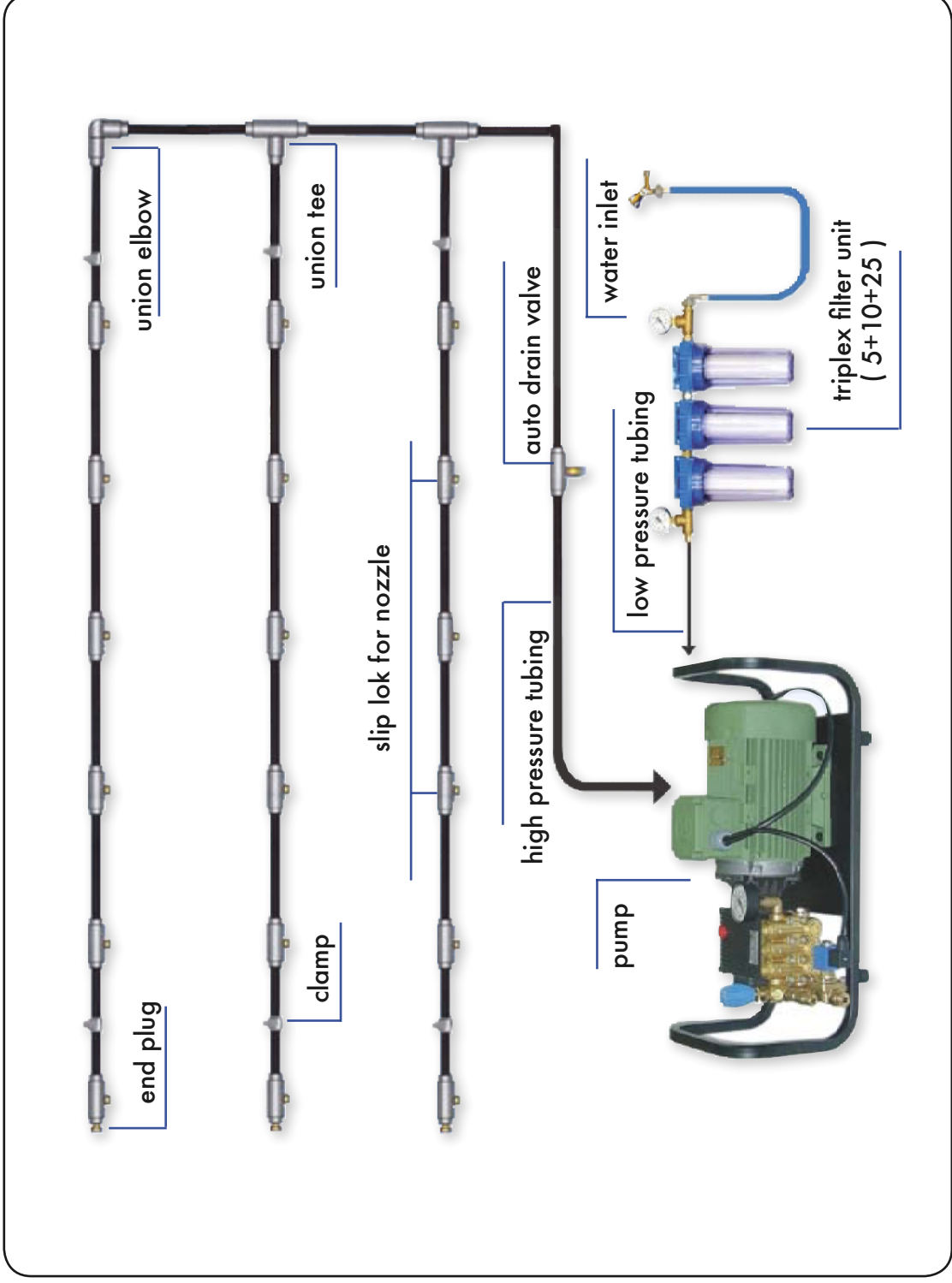
## *Sistemas de Nebulización de Agua*

### **FOG SYSTEM**



***Enfriamiento Exterior  
Humidificación  
Eventos y Efectos Especiales  
Supresión Polvo, Olor***

# typical misting system



# pumps

## aj series

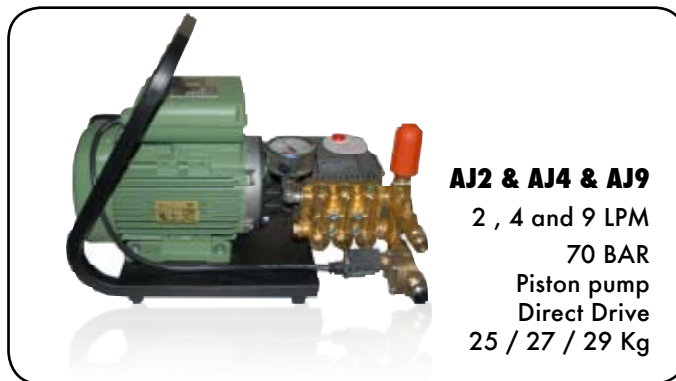
CE



**AJ 1 AX**  
1 LPM/70 BAR  
Axial pump  
Direct Drive  
17 Kg



**AJ 1**  
1 LPM/70 BAR  
Piston pump  
Direct Drive  
24 Kg



**AJ2 & AJ4 & AJ9**  
2 , 4 and 9 LPM  
70 BAR  
Piston pump  
Direct Drive  
25 / 27 / 29 Kg

## kj series

CE



**KJ5 & KJ8 & KJ12**  
5 , 8 and 12 LPM  
70 BAR  
Piston pump  
Pulley Drive  
37 and 40 Kg

# pumps



## **KJ5C & KJ8C & KJ12C**

5, 8 and 12 LPM

70 BAR

Piston pump

Very low noise

Motor and pump protection circuit

Programmable timer

Drain system

Radio controlled ON-OFF function

2.5 m. connection cable with connector on both ends.

n series



## **AJ2N & AJ4N**

2 and 4 LPM 70 BAR

Piston pump

Very low noise

Motor and pump protection circuit

Programmable timer

Drain system

40 And 43 Kg.



## **KM6N & KM9N**

6 and 9 LPM 70 BAR

Piston pump

Very low noise

Motor and pump protection circuit

Programmable timer

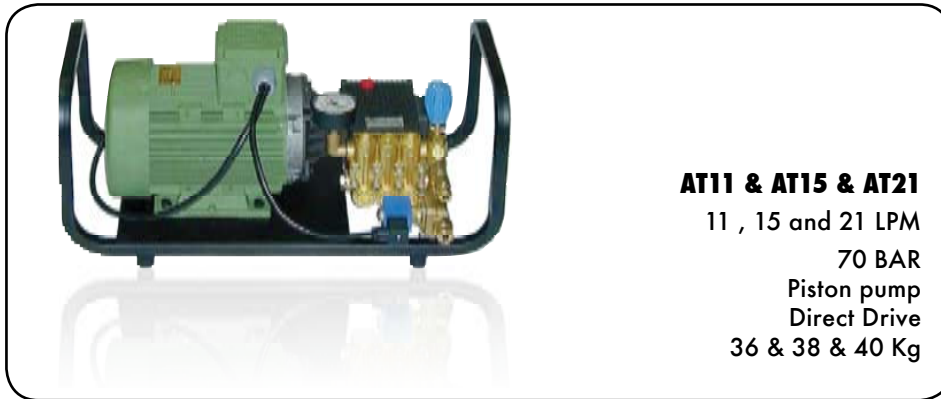
Drain system

54 and 56 Kg

# pumps

## at series

CE



### **AT11 & AT15 & AT21**

11 , 15 and 21 LPM

70 BAR

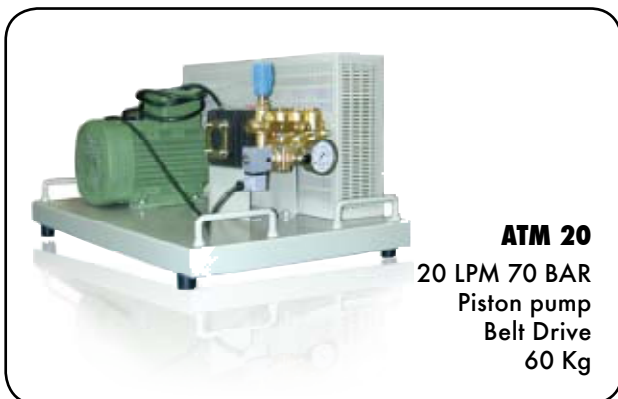
Piston pump

Direct Drive

36 & 38 & 40 Kg

## professional series

CE



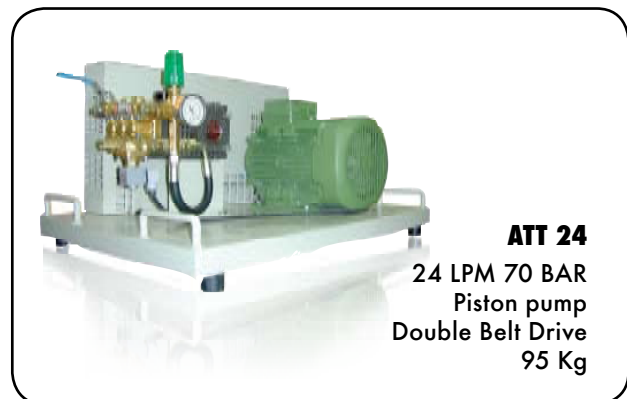
### **ATM 20**

20 LPM 70 BAR

Piston pump

Belt Drive

60 Kg



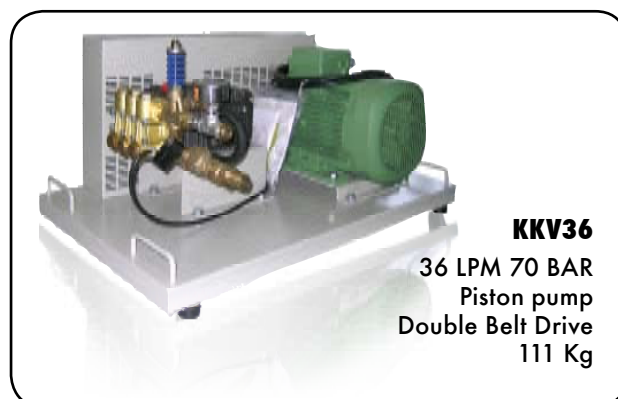
### **ATT 24**

24 LPM 70 BAR

Piston pump

Double Belt Drive

95 Kg



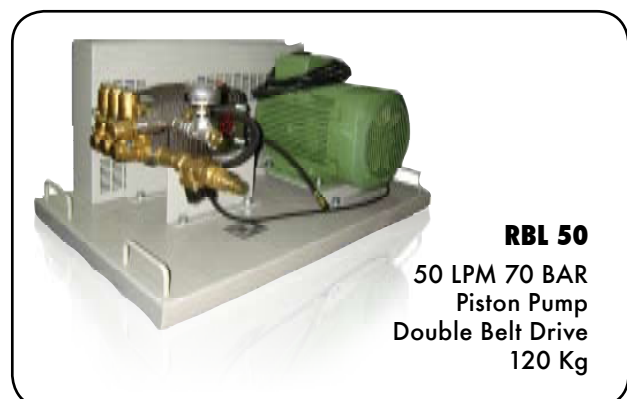
### **KKV36**

36 LPM 70 BAR

Piston pump

Double Belt Drive

111 Kg



### **RBL 50**

50 LPM 70 BAR

Piston Pump

Double Belt Drive

120 Kg

# pumps

## HIGH PRESSURE MISTING PUMPS

| Pump Unit  | Pres.  | Flow LPM | Flow GPM | Drive  | Motor HP | Volt Phase | Amper | Dimension With wooden Box | Weight With Box |
|------------|--------|----------|----------|--------|----------|------------|-------|---------------------------|-----------------|
| AJ1AX      | 70 Bar | 1        | 0.25     | Direct | 1/2      | 220-1      | 2.5   | 44x36x39                  | 19              |
| AJ1        | 70 Bar | 1        | 0.25     | Direct | 1        | 220-1      | 5.5   | 55x46x49                  | 32              |
| AJ2        | 70 Bar | 2        | 0.5      | Direct | 1        | 220-1      | 5.5   | 55x46x49                  | 32              |
| AJ4        | 70 Bar | 4        | 1        | Direct | 1 1/2    | 220-1      | 8     | 55x46x49                  | 34              |
| AJ9        | 70 Bar | 9        | 2.3      | Direct | 2        | 220-1      | 10.5  | 55x46x49                  | 36              |
| AJ2N       | 70 Bar | 2        | 0.5      | Direct | 1        | 220-1      | 5.5   | 62x48x48                  | 50              |
| AJ4N       | 70 Bar | 4        | 1        | Direct | 1 1/2    | 220-1      | 8     | 62x48x48                  | 52              |
| AT11       | 70 Bar | 11       | 2.9      | Direct | 4        | 380-3      | 6     | 72x46x48                  | 45              |
| AT15       | 70 Bar | 15       | 4        | Direct | 4        | 380-3      | 6.5   | 72x46x48                  | 46              |
| AT21       | 70 Bar | 21       | 5.5      | Direct | 5 1/2    | 380-3      | 8     | 72x46x48                  | 47              |
| KJ5 / KJ5C | 70 Bar | 5        | 1.3      | Pulley | 1        | 220-1      | 5     | 62x44x45                  | 45              |
| KJ8 / KJ8C | 70 Bar | 8        | 2.1      | Pulley | 1 1/2    | 220-1      | 8     | 62x44x45                  | 46              |
| KM6N       | 70 Bar | 6        | 1.6      | Pulley | 1 1/2    | 220-1      | 8     | 72x46x52                  | 63              |
| KM9N       | 70 Bar | 9        | 2.3      | Pulley | 2        | 220-1      | 10.5  | 72x46x52                  | 63              |
| KM12-S     | 70 Bar | 12       | 3.1      | Pulley | 3        | 220-1      | 14    | 72x48x48                  | 57              |
| KM12       | 70 Bar | 12       | 3.1      | Pulley | 4        | 380-3      | 6     | 72x48z48                  | 60              |
| ATM20      | 70 Bar | 20       | 5.3      | Pulley | 5 1/2    | 380-3      | 7.5   | 90x52x54                  | 75              |
| ATT24      | 70 Bar | 24       | 6.4      | Pulley | 7 1/2    | 380-3      | 10    | 95x62x55                  | 115             |
| KKV36      | 70 Bar | 36       | 9.5      | Pulley | 10       | 380-3      | 14    | 95x62x55                  | 124             |
| RBL50      | 70 Bar | 50       | 13.2     | Pulley | 15       | 380-3      | 16    | 95x62x55                  | 132             |

## NUMBER OF NOZZLES DRIVEN AT 70 BAR

| Pump Unit  | Flow LPM | Hex Series Nozzles |       |        |       |        |       |        |       |        |       |  |  |
|------------|----------|--------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--|--|
|            |          | 0.15 mm            |       | 0.2 mm |       | 0.3 mm |       | 0.4 mm |       | 0.5 mm |       |  |  |
|            |          | Mini.              | Maxi. | Mini.  | Maxi. | Mini.  | Maxi. | Mini.  | Maxi. | Mini.  | Maxi. |  |  |
| AJTAX      | 1        | 12                 | 20    | 8      | 13    | 5      | 9     | 4      | 6     | 3      | 5     |  |  |
| AJ1        | 1        | 12                 | 20    | 8      | 13    | 5      | 9     | 4      | 6     | 3      | 5     |  |  |
| AJ2 / AJ2N | 2        | 25                 | 40    | 15     | 25    | 10     | 18    | 7      | 12    | 6      | 10    |  |  |
| AJ4 / AJ4N | 4        | 50                 | 80    | 30     | 50    | 20     | 35    | 15     | 25    | 12     | 20    |  |  |
| AJ9        | 9        | 110                | 180   | 70     | 120   | 50     | 85    | 35     | 60    | 25     | 45    |  |  |
| KJ5 / KJ5C | 5        | 60                 | 100   | 40     | 65    | 30     | 45    | 20     | 30    | 15     | 25    |  |  |
| KJ8 / KJ8C | 8        | 95                 | 160   | 60     | 100   | 45     | 75    | 30     | 50    | 25     | 40    |  |  |
| KM6N       | 6        | 70                 | 120   | 45     | 75    | 35     | 55    | 25     | 40    | 20     | 30    |  |  |
| KM9N       | 9        | 110                | 180   | 70     | 120   | 50     | 85    | 35     | 60    | 25     | 45    |  |  |
| KM12S      | 12       | 145                | 240   | 90     | 150   | 70     | 115   | 50     | 80    | 35     | 60    |  |  |
| KM12       | 12       | 145                | 240   | 90     | 150   | 70     | 115   | 50     | 80    | 35     | 60    |  |  |
| AT11       | 11       | 132                | 220   | 88     | 146   | 63     | 105   | 44     | 73    | 35     | 58    |  |  |
| AT15       | 15       | 180                | 300   | 120    | 200   | 80     | 135   | 60     | 100   | 45     | 75    |  |  |
| AT21       | 21       | 250                | 420   | 170    | 280   | 120    | 200   | 85     | 140   | 65     | 105   |  |  |
| ATM20      | 20       | 240                | 400   | 155    | 260   | 110    | 180   | 80     | 130   | 60     | 100   |  |  |
| ATT24      | 24       | 290                | 480   | 190    | 320   | 130    | 220   | 95     | 160   | 70     | 120   |  |  |
| KKV36      | 36       | 430                | 720   | 290    | 480   | 195    | 325   | 145    | 240   | 110    | 180   |  |  |
| RBL50      | 50       | 600                | 1000  | 400    | 666   | 280    | 470   | 200    | 335   | 150    | 250   |  |  |

# controls

## Control boxes



### Pss

- For 220V single phase pumps: AJ1, AJ2, AJ4 and AJ9.
- Motor and pump dry run protection circuit.
- Hygostat entry.



### Pss +

- Same as PSS.  
In addition they include:
- Hourmeter.
  - Programmable timer.



### Pst 4

- For 380V three phases pumps: AT11, AT15, AT21, KM12 and ATM20.
- Motor and pump dry run protection circuit.
- Hygostat entry.



### Pst 4 +

- Same as PST4.  
In addition they include:
- Hourmeter.
  - Programmable timer.



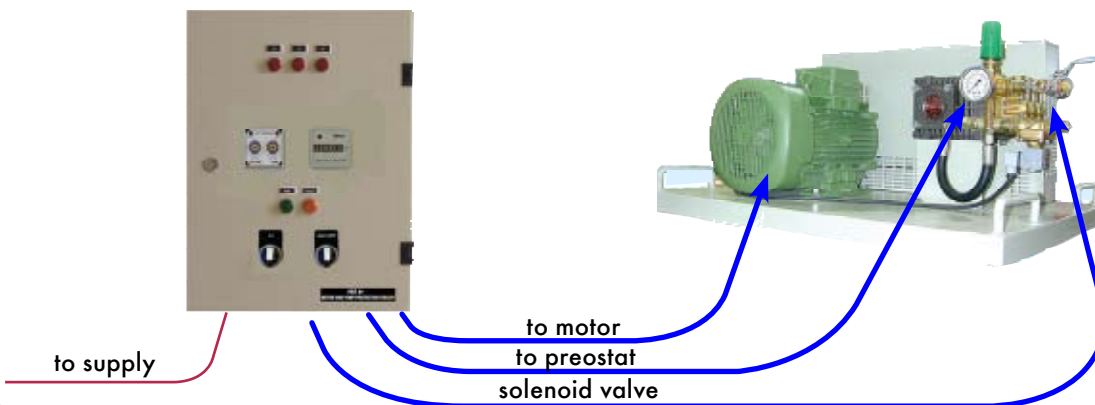
### Pst 7,5

- For 380V three phases pumps: ATT24, KKV36 and RB1L50.
- Star-delta starting circuit.
- Motor and pump dry run protection circuit.
- Hygostat entry.



### Pst 7,5

- Same as PST7.5+.  
In addition they include:
- Hourmeter.
  - Programmable timer.



## Filters and filter equipments

10'' single filter unit



10'' double filter unit



10'' triple filter unit



20'' triple filter unit



1/2'' Slip-lok connection



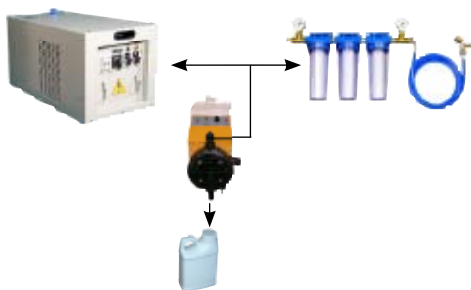
3/8'' Slip-lok connection

### High pressure in line filters

- A must for all misting installations
- No more plugged nozzles
- Cleanable 100 mesh SS filter element
- 15 and 30 LPM filter types.
- All Stainless Steel
- Tested at 250 Bar.

## Dosing pump

Parfuming the air is also possible by addition of our dosing pump kit.



# misting nozzles

| COLOR  | ORIFICE<br>Ø | PRESSURE |         |         |         |          |          |
|--------|--------------|----------|---------|---------|---------|----------|----------|
|        |              | 30 bar   | 40 bar  | 50 bar  | 60 bar  | 70 bar   | 80 bar   |
|        |              | 435 psi  | 580 psi | 725 psi | 870 psi | 1015 psi | 1160 psi |
| Red/Wh | 0,50mm       | 0,7 L    | 0,8 L   | 0,9 L   | 1,0 L   | 1,1 L    | 1,2 L    |
| Bl/Wh  | 0,70mm       | 1,6 L    | 1,8 L   | 2,0 L   | 2,2 L   | 2,4 L    | 2,6 L    |
| White  | 1,00mm       | 2,5 L    | 2,8 L   | 3,2 L   | 3,5 L   | 3,7 L    | 4,0 L    |
| Black  | 1,10mm       | 3,7 L    | 4,3 L   | 4,8 L   | 5,3 L   | 5,7 L    | 6,1 L    |
| Red    | 1,20mm       | 5,2 L    | 5,9 L   | 6,6 L   | 7,3 L   | 7,8 L    | 8,4 L    |
| Yellow | 1,30mm       | 5,8 L    | 6,8 L   | 7,5 L   | 8,3 L   | 9,0 L    | 9,5 L    |
| Green  | 1,40mm       | 6,8 L    | 7,8 L   | 8,7 L   | 9,6 L   | 10,3 L   | 11,1 L   |
| Pink   | 1,50mm       | 8,0 L    | 9,3 L   | 10,4 L  | 11,3 L  | 12,3 L   | 13,2 L   |
| Orange | 1,60mm       | 8,6 L    | 10,0 L  | 11,2 L  | 12,2 L  | 13,2 L   | 14,1 L   |



**Discharge  
Nozzle**

## nozzle equipments



**Nozzle  
Plug**



**Auto  
Drain valve**



**Fast  
Drain**

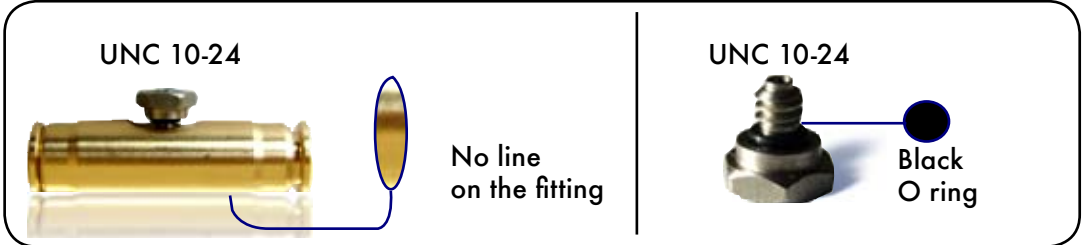


**Nozzle  
O rings**

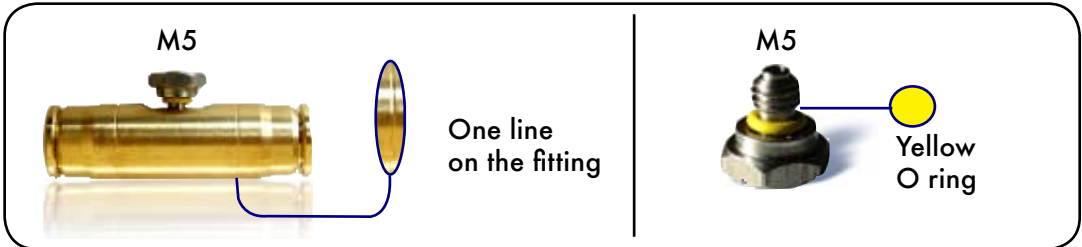
# misting nozzles

## how to distinguish threats

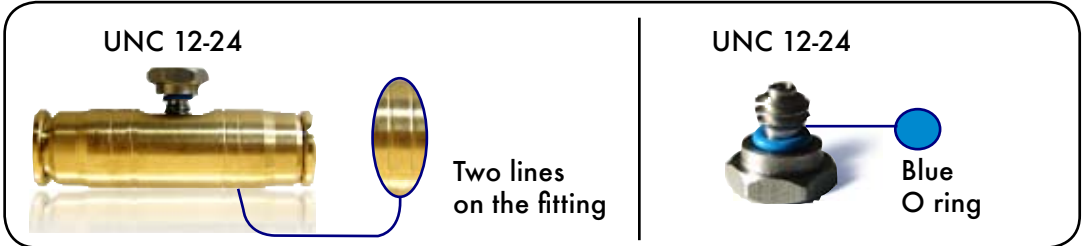
UNC 10-24



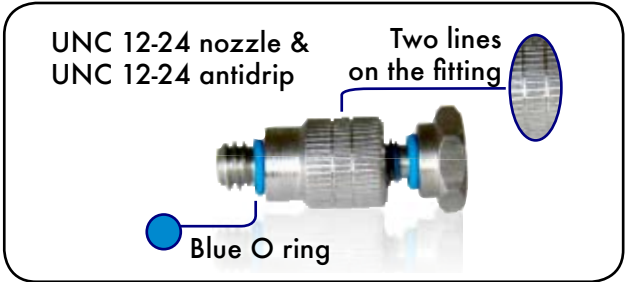
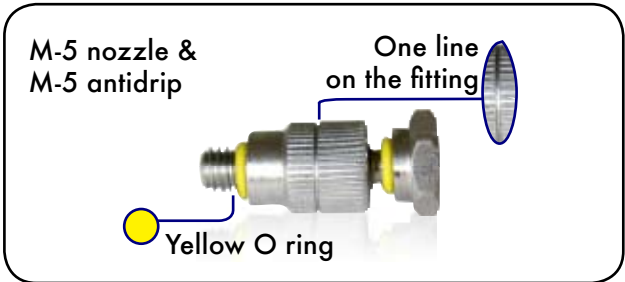
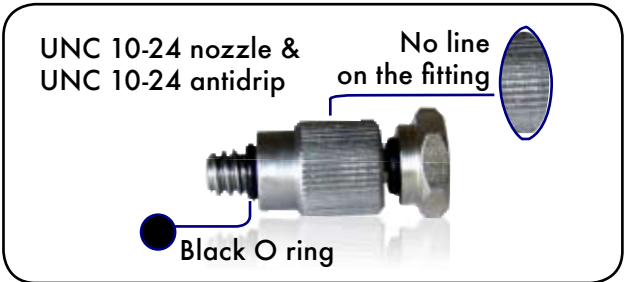
M-5



UNC 12-24



## Anti-drip threats



# fittings

## compression fittings

### 10mm - 12mm SS 316 Compression fittings



|   | 10 mm   | 12 mm     |                        |
|---|---------|-----------|------------------------|
| • | 0201030 | - 0201031 | Ferrule set.           |
| • | 0201032 | - 0201033 | Nut.                   |
| • | 0201034 | - 0201036 | Reducing union.        |
| • | 0201035 | - 0201038 | Union Elbow.           |
| • | 0201037 | - 0201041 | Union Tee.             |
| • | 0201039 | - 0201042 | 1/2" Female Connector. |
| • | 0201040 | - 0201045 | 3/8" Female Connector. |
| • | 0201043 | - 0201046 | 1/2" Male Connector.   |
| • | 0201044 | - 0201048 | 3/8" Male Connector.   |
| • | 0201047 | - 0201050 | Union Cross.           |
| • | 0201049 | - 0201051 | Cap.                   |
| • | 0201052 | - 0201053 | Tube to Tube Union.    |



## slip-lok fittings

### 3/8" Slip- lok fittings



|   |           |  |
|---|-----------|--|
| • | 0301001   | Fitting for nozzle.                      |
| • | 0301002   | Fitting for 2 nozzles.                   |
| • | 0301033   | End fitting for nozzle.                  |
| • | 0301003   | Tube coupling.                           |
| • | 0301004   | Tee fitting.                             |
| • | 0301005   | Elbow fitting.                           |
| • | 0301015   | Tube to nozzle adaptor.                  |
| • | 0301006   | Cross fitting.                           |
| • | 0301007-4 | 4 nozzles misting umbrella.              |
| • | 0301007-6 | 6 nozzles misting umbrella.              |
| • | 0301039-4 | 4 nozzles misting umbrella in line.      |
| • | 0301039-6 | 6 nozzles misting umbrella in line.      |
| • | 0301036   | 6 lines divider.                         |
| • | 0301008   | End plug.                                |
| • | 0301009   | 1/4" male NPT connector for 3/8" tubing. |
| • | 0301010   | 3/8" male NPT connector for 3/8" tubing. |
| • | 0301011   | 1/2" male NPT connector for 3/8" tubing. |



# fittings

## 1/2" Slip-lok brass fittings



- 0301027 Tee fitting.
- 0301028 1/2" - 5/16" - 1/2" Tee fitting.
- 0301026 1/2" - 3/8" reducer.
- 0301025 Tube coupling.
- 0301030 1/2" male NPT connector for 1/2" tubing.



## 5/16" Slip-lok fittings (8 mm)



- 0301066 Fitting for nozzle.
- 0301071 End fitting for nozzle.
- 0301068 Tee fitting.
- 0301067 3/8" - 5/16" - 3/8" Tee fitting.
- 0301070 Elbow fitting.
- 0301069 Tube coupling.
- 0301073 3/8" to 5/16" reducer.
- 0301074 1/4" male NPT connector for 5/16" tubing.
- 0301075 3/8" male NPT connector for 5/16" tubing.



## 3/8" Stainless steel Slip-lok fittings



- 0301049 Fitting for nozzle.
- 0301050 Fitting for 2 nozzles.
- 0301052 End fitting for nozzle.
- 0301045 Tee fitting.
- 0301048 Elbow fitting.
- 0301053 Tube union.
- 0301057 End plug.
- 0301080 3/8" male NPT connector for 3/8" tubing.



## 1/2" Stainless steel Slip-lok fittings



- 0301055 Tee fitting.
- 0301044 Elbow fitting.
- 0301047 Tube union.
- 0301056 End plug.



# tubing

## nylon tubing

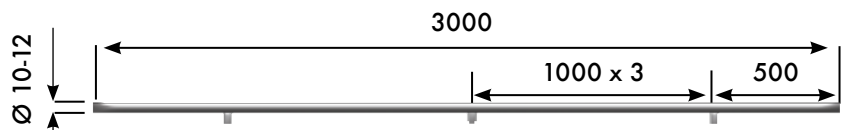


- Polyamide 12
- 3% uv treated
- Working pressure 70 bar
- Burst pressure 140 bar
- Sizes available: black for 5mm, 5/16" and 1/2". Black, white and green for 3/8"
- 3/8" tubing available in pre-cut straight 75 cm. and 300 cm. length.
- 1/2" tubing available in pre-cut straight 400 cm. length.
- 5/16" and 3/8" tubing in 100 m. roll.
- 1/2" tubing in 50 m. roll.
- Stainless steel clamps are available for all sizes. Black and white color.

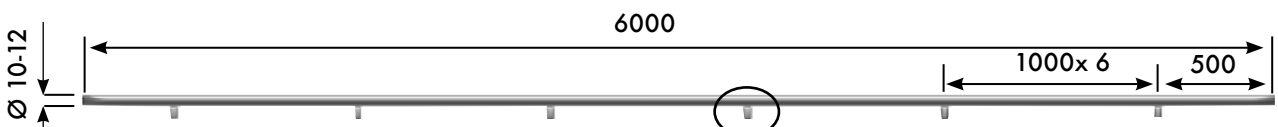


## stainless steel tubing

Working pressure 100 BAR. Prefabricated misting lines.



- Ø 10/12mm x1x 3000mm 304 or 316 ss tubing for 3 nozzles Spacing 100 cm.
- Ø 10/12mm x1x 3000mm 304 or 316 ss tubing for 4 nozzles Spacing 75 cm.
- Ø 10/12mm x1x 3000mm 304 or 316 ss tubing for 6 nozzles Spacing 50 cm.



- Ø 10/12mm x1x 6000mm 304 or 316 ss tubing for 6 nozzles Spacing 100 cm.
- Ø 10/12mm x1x 6000mm 304 or 316 ss tubing for 8 nozzles Spacing 75 cm.
- Ø 10/12mm x1x 6000mm 304 or 316 ss tubing for 10 nozzles Spacing 60 cm.



## clips



- 0301105B Plastic clips for 3/8" Tubing black
- 0301105W Plastic clips for 3/8" Tubing white
- 0301104G Plastic clips for 3/8" Tubing green
- 030116 Plastic clips for 1/2" Tubing black

## clamps



# Measuring

humidistat



testo 605 h - 1



testo 608 h - 1



Pressure switch



Pressure regulator



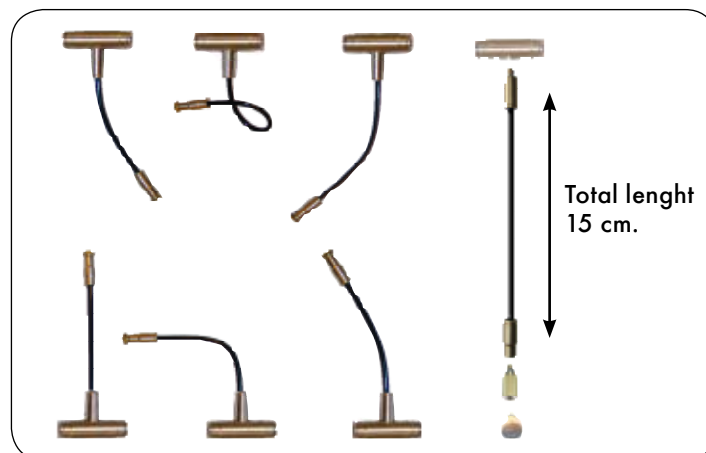
High pressure gauge (160 bar)

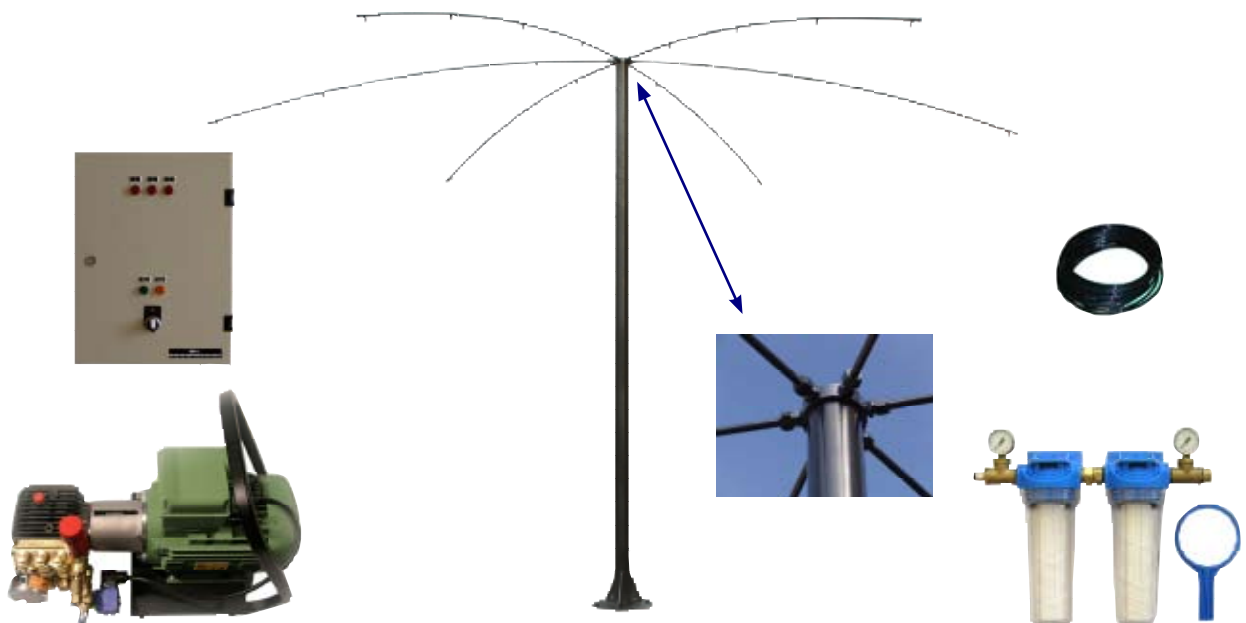


Low pressure gauge (10 bar)



## Flexible nozzle extension adaptor





## Big fan for hotel swimming pool area.

Full stainless steel construction.

4 Lpm 70 Bar pump with motor and pump dry protection circuit.

24 all stainless steel nozzles with 0.3 mm orifice.

2 running modes. Continuous or timer programmed (1 to 10 minutes )

Push button on the must for to start programmed running cycle.

Very simple installation. Detailed assembly manual.

The kit includes all hardware necessary for installation.

Voltage 230 V 50 / 60 Hz.

24 V push button and timer circuit for safety.

# fans

## NF50

50 cm fan 4000 cfm.  
Totally enclosed 230VAC 2A 450W fan motor. (0.6 HP)  
Motor according to the IP55 standard.  
4 poles 1400 RPM electronic speed control. (Option)  
Motor insulation class F (up to 155°C)  
Thermal protection on fan motor.  
Non corrosive plastic material (ABS) fan shroud.  
All metallic parts are stainless steel.  
Stainless steel front and back guards.  
Misting ring made from stainless steel.  
Misting ring for 4 nozzles. (nozzles not included)  
90° oscillation course with oscillation box. (Option)  
The fan is vertically adjustable.  
Net weight of the fan 16 kg. Net weight of the oscillation box 7 kg.  
Box size for shipping – 73 cm (l) – 73 cm (w) – 40 cm (h).



## NF60

60 cm fan 7500 cfm.  
Totally enclosed 230V AC 3A 600W fan motor. (0.82 HP)  
Motor according to the IP55 standard.  
6 poles 900 RPM motor with electronic speed control.  
Motor insulation class F. (up to 155°C)  
Thermal protection on fan motor.  
Low noise level. (54 dB)  
Non corrosive composite material fan shroud and base cover.  
Stainless steel front and back guards.  
Misting ring made from 316 quality seamless stainless steel. (Option)  
2 stages misting ring for 4 + 3 nozzles with On / Off valve. (Option)  
All stainless steel 0.2 mm orifice nozzles with s. steel anti drip adaptor. (Option)  
3 adjustable oscillation courses for the fan. 60° or 90° or 120°  
The fan tilts forward (20°) and backward (10°).  
Adjustable fan height. (+35 cm)  
Fan mast and all exposed parts made from stainless steel.  
IP67 electric socket.  
Net weight 53 kg.



## NF60P

60 cm fan 7500 cfm.  
Totally enclosed 230V AC 3A 600W fan motor. (0.82 HP)  
Motor according to the IP55 standard.  
6 poles 900 RPM motor with electronic speed control.  
Motor insulation class F. (up to 155°C)  
Thermal protection on fan motor.  
Low noise level. (54 dB)  
Non corrosive composite material fan shroud and base cover.  
Stainless steel front and back guards.  
Misting ring made from 316 quality seamless stainless steel. (Option)  
2 stages misting ring for 4 + 3 nozzles with ON / OFF valve. (Option)  
All stainless steel 0.2 mm orifice nozzles with s. steel anti drip adaptor. (Option)  
3 adjustable oscillation courses for the fan. 60° or 90° or 120°  
The fan tilts forward (20°) and backward (10°).  
Adjustable fan height. (+35 cm)  
Fan mast and all exposed parts made from stainless steel.  
IP67 electric socket.  
1 l/minute 70 bar incorporated high pressure pump.  
3/8" HP output for supply another NF60 portable fan.  
Equipped with low-pressure water sensor for pump protection.  
Net weight 82 kg.

