IDROBASE®

PASSION FOR WATER

RESIDENTIAL &
COMMERCIAL
MISTING

Idrotech by Idrobase Group
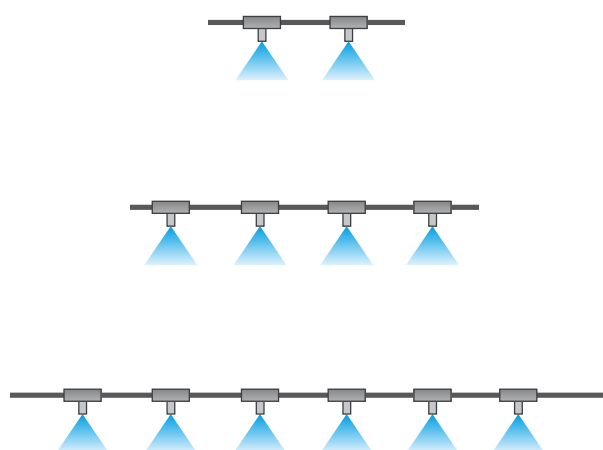Misting Systems at Expo 2015

Misting Book

IDROTECH

Choose your own customised nebulisation solution to meet your environment refreshing needs
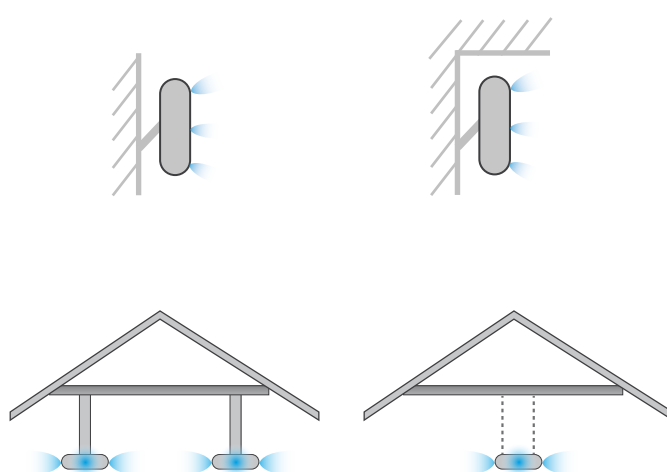
Kit Linea

Kit Vento

Optimal solution for:

- *outdoor gazebos*
- *verandas*
- *outdoor walkways*
- *refreshing systems for outdoor umbrellas*
- *beach volleyball, futsal/tennis pitches/courts*

Optimal solution for:

- *industrial workshops*
- *covered outdoor areas of restaurants, bars and bakeries*
- *parks and gardens*
- *gyms*
- *fishmongers' & greengrocers'*

Kit Linea

Kit Vento

Linea kit

IDROBASE PASSION FOR WATER
IDROTECH

Choose your line type

Code	Description	Coverage in square metres	Fog App ZX.FA1.0	Fog App ZX.FA1.5	Fog Eco Pro ZX.5095-RC	Fog Eco Pro ZX.5090-RC	Fog Extra ZX.FL-05	Fog Extra ZX.FL-1	Fog Extra ZX.FL-2
ZX.KL10	Linea kit **10** nozzles	6,75m			•		•		
ZX.KL20	Linea kit **20** nozzles	14,25m	•			•		•	
ZX.KL30	Linea kit **30** nozzles	21,75m		•					•
ZX.KL40	Linea kit **40** nozzles	29,25m							•

Example Linea Kit composition

Linea kit

	Description	Linea Kit codes ZX.KL10	ZX.KL20	ZX.KL30	ZX.KL40
	H.p. polyamide pipe ø6.35mm, black, 5m rolls	1pcs	1pcs	1pcs	2pcs
	AISI 304 stainless steel pipe ø6.35mm - 750mm	9pcs	19pcs	29pcs	39pcs
	Straight nozzle holder Slip-Lock quick coupling, in nickel-plated brass, ø6.35mm	9pcs	19pcs	29pcs	39pcs
	End of line nozzle holder Slip-Lock quick coupling, in nickel-plated brass, ø6.35mm	1pcs	1pcs	1pcs	1pcs
	Cleanable fog nozzle in nickel-plated brass, complete with anti-drip valve and 50micron mesh filter, 10/24UNC/2A thread, flow factor 015	10pcs	20pcs	30pcs	40pcs
	Rubberised SS pipe clamp, for polyamide pipe and AISI 304 SS pipe fixing ø6.35mm	16pcs	26pcs	36pcs	51pcs
	Tube cutter for polyamide pipe ø2-12mm	1pcs	1pcs	1pcs	1pcs

Recommended accessory

ZX.KPI	**Emergency kit:** 2 cleanable fog nozzles in nickel-plated brass, 1 pipe "tee" junction Slip-Lock quick coupling, 1 Slip-Lock line end cap, 2 rubberised stainless steel pipe caps, 1 cap with 10/24UNC/2A thread

Kit Vento

IDROBASE PASSION FOR WATER

Choose your fan type

		Code	Description	Coverage in square metres	Number of fans	Fog App		Fog Eco Pro		Fog Extra		
						ZX.FA1.0	ZX.FA1.5	ZX.5095-RC	ZX.5090-RC	ZX.FL-05	ZX.FL-1	ZX.FL-2
Fan 20"		ZX.KV2-20	Kit 2 Mist Fan 20"	80m²	2	●		●		●		
		ZX.KV4-20	Kit 4 Mist Fan 20"	160m²	4	●			●		●	
		ZX.KV6-20	Kit 6 Mist Fan 20"	240m²	6		●					●
		ZX.KV8-20	Kit 8 Mist Fan 20"	320m²	8							●
Fan 18"		ZX.KV2-18	Kit 2 Mist Fan 18"	100m²	2	●		●		●		
		ZX.KV4-18	Kit 4 Mist Fan 18"	200m²	4	●			●		●	
		ZX.KV6-18	Kit 6 Mist Fan 18"	300m²	6		●					●
		ZX.KV8-18	Kit 8 Mist Fan 18"	400m²	8							●
Fan 360°		ZX.KV2-360	Kit 2 Mist Fan 360	60m²	2	●		●		●		
		ZX.KV4-360	Kit 4 Mist Fan 360	120m²	4	●			●		●	
		ZX.KV6-360	Kit 6 Mist Fan 360	180m²	6		●					●
		ZX.KV8-360	Kit 8 Mist Fan 360	480m²	8							●
Fan Panorama		ZX.KV2-P	Kit 2 Fan 360 Panorama	100m²	2	●			●		●	
		ZX.KV4-P	Kit 4 Fan 360 Panorama	200m²	4		●					●

NEW CE

KIT **MIST FAN 20"**

51,5cm

IP44

For covered areas

Example Vento Kit Composition

Vento kit

	Description	ZX.KV2-20	ZX.KV4-20	ZX.KV6-20	ZX.KV8-20
	Mist Fan 20"- 51.5cm 3 speeds, 90° swinging, complete with a wall mounting bracket, white colour, power cable length 2.2m. Air flow rate 2940m³/h, 74W, 230V-50Hz. Coverage 40m²	2pcs	4pcs	6pcs	8pcs
	AISI 304 stainless steel nozzle holder ring, 6 holes, 10/24UNC/2A thread for Mist Fan 18", Slip-Lock inlet ø6.35mm	2pcs	4pcs	6pcs	8pcs
	Fog nozzle in nickel-plated brass, complete with anti-drip valve and cleanable 50micron mesh filter, 10/24UNC/2A thread, flow factor 015	12pcs	24pcs	36pcs	48pcs
	Nickel-plated brass cap 10/24UNC/2A thread	4pcs	8pcs	12pcs	16pcs
	"Tee" pipe junction Slip-Lock quick coupling, in nickel-plated brass, ø6.35mm	1pcs	3pcs	5pcs	7pcs
	H.p. polyamide pipe ø6.35mm, rolls of 25m, white	1pcs	2pcs	3pcs	4pcs
	Tube cutter for polyamide pipe ø2-12mm	1pcs	1pcs	1pcs	1pcs
	Rubberised stainless steel pipe clamp, for polyamide pipe fixing ø6.35mm	20pcs	40pcs	60pcs	80pcs

Recommended accessory

ZX.KPI	**Emergency kit:** 2 cleanable fog nozzles in nickel-plated brass, 1 pipe "tee" junction Slip-Lock quick coupling, 1 Slip-Lock line end cap, 2 rubberised stainless steel pipe caps, 1 cap with 10/24UNC/2A thread

KIT **MIST FAN 18"**

IP54

46cm

Example Vento Kit Composition

Vento kit

	Description	ZX.KV2-18	ZX.KV4-18	ZX.KV6-18	ZX.KV8-18
	Mist Fan 18"- 46cm axial, 3 speeds, pre-set for mounting on wall, swinging 90°, colour white, length of power cable 2.2m. Air flow rate 9000m³/h, 125W, 230V-50Hz. Coverage 50m²	2pcs	4pcs	6pcs	8pcs
	Wall mounting bracket for Mist Fan 18"	2pcs	4pcs	6pcs	8pcs
	AISI 304 stainless steel nozzle holder ring, 6 holes, 10/24UNC/2A thread for Mist Fan 18", Slip-Lock inlet ø6.35mm	2pcs	4pcs	6pcs	8pcs
	Fog nozzle in nickel-plated brass, complete with anti-drip valve and cleanable 50micron mesh filter, 10/24UNC/2A thread, flow factor 015	12pcs	24pcs	36pcs	48pcs
	Nickel-plated brass cap 10/24UNC/2A thread	4pcs	8pcs	12pcs	16pcs
	"Tee" pipe junction Slip-Lock quick coupling, in nickel-plated brass, ø6.35mm	1pcs	3pcs	5pcs	7pcs
	H.p. polyamide pipe ø6.35mm, rolls of 25m, white	1pcs	2pcs	3pcs	4pcs
	Tube cutter for polyamide pipe ø2-12mm	1pcs	1pcs	1pcs	1pcs
	Rubberised stainless steel pipe clamp, for polyamide pipe fixing ø6.35mm	20pcs	40pcs	60pcs	80pcs

Recommended accessory

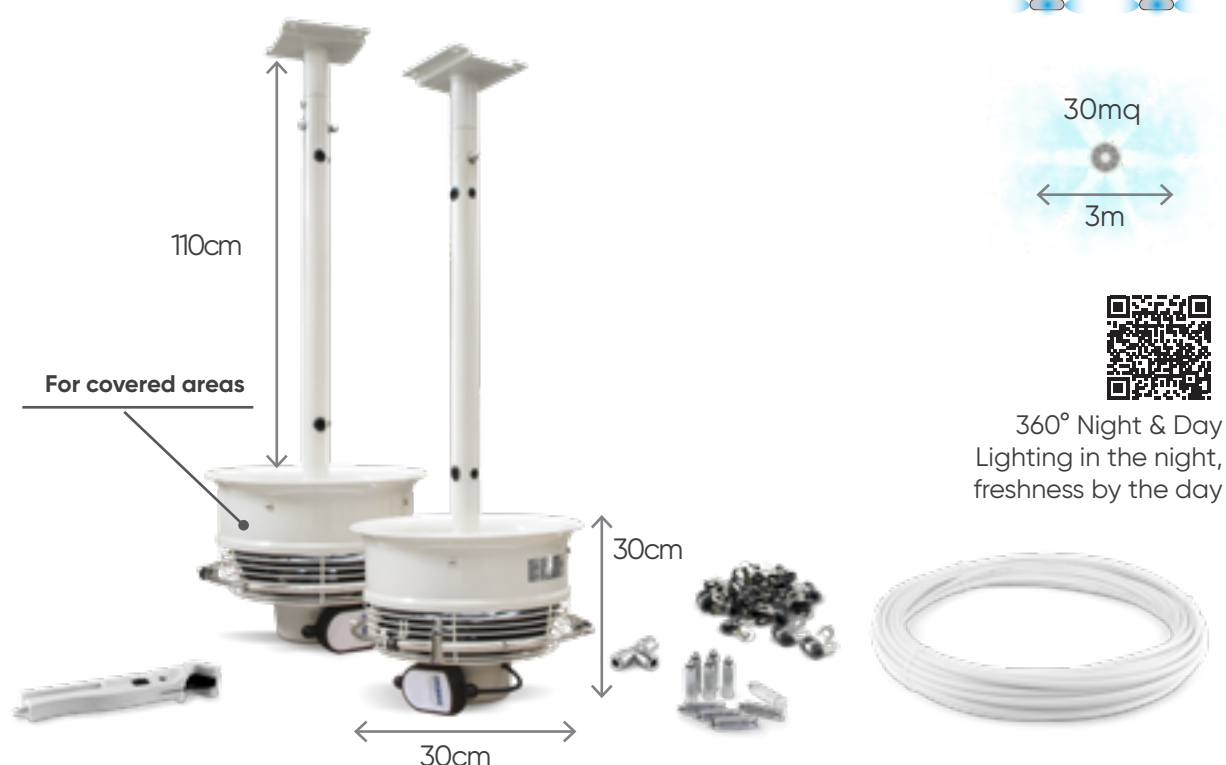|	
ZX.KPI	**Emergency kit**: 2 cleanable fog nozzles in nickel-plated brass, 1 pipe "tee" junction Slip-Lock quick coupling, 1 Slip-Lock line end cap, 2 rubberised stainless steel pipe caps, 1 cap with 10/24UNC/2A thread

CE

KIT **MIST FAN 360°**

110cm

For covered areas

30cm

30cm

30mq

3m

360° Night & Day
Lighting in the night,
freshness by the day

Example Vento Kit Composition

Vento kit	Description	ZXKV2-360	ZXKV4-360	ZXKV6-360	ZXKV8-360
	Mist Fan 360° - single speed, complete with ceiling mounting bracket, holder ring for 6 nozzles, colour white. Air flow rate 4,020m³/h, 97W, 230V-50Hz. Coverage 30m²	2pcs	4pcs	6pcs	8pcs
	Fog nozzle in nickel-plated brass, complete with anti-drip valve and cleanable 50micron mesh filter, 10/24UNC/2A thread, flow factor 015	12pcs	24pcs	36pcs	48pcs
	"Tee" pipe junction Slip-Lock quick coupling, in nickel-plated brass, ø6.35mm	1pcs	3pcs	5pcs	7pcs
	H.p. polyamide pipe ø6.35mm, rolls of 25m, white	1pcs	2pcs	3pcs	4pcs
	Tube cutter for polyamide pipe ø2-12mm	1pcs	1pcs	1pcs	1pcs
	Rubberised stainless steel pipe clamp, for polyamide pipe fixing ø6.35mm	20pcs	40pcs	60pcs	80pcs

Recommended accessory

ZX.KPI	**Emergency kit:** 2 cleanable fog nozzles in nickel-plated brass, 1 pipe "tee" junction Slip-Lock quick coupling, 1 Slip-Lock line end cap, 2 rubberised stainless steel pipe caps, 1 cap with 10/24UNC/2A thread

KIT **FAN 360° PANORAMA**

NEW MADE IN ITALY CE

IDROBASE PASSION FOR WATER

IP54

58cm

15cm

50mq

4m

For covered areas
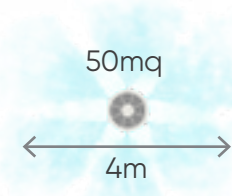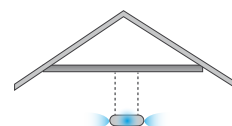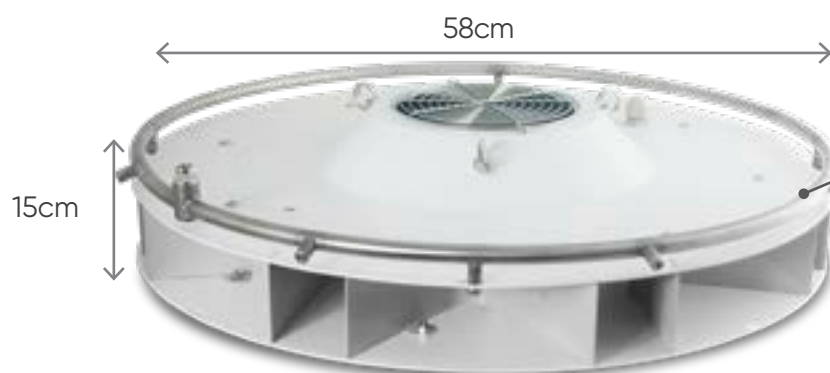
Silent working

Example Vento Kit Composition

Vento kit	Description	ZX.KV2-P	ZX.KV4-P
	Fan 360° Panorama. Single speed, pre-set for ceiling mounting, complete with holder ring for 8 nozzles, colour white, air flow rate 600m^3/h, 100W, 230V-50Hz. Coverage 50m^2	2pcs	4pcs
	Fog nozzle in nickel-plated brass, complete with anti-drip valve and cleanable 50micron mesh filter, 10/24UNC/2A thread, flow factor 015	16pcs	24pcs
	"Tee" pipe junction Slip-Lock quick coupling, in nickel-plated brass, ø6.35mm	1pcs	3pcs
	H.p. polyamide pipe ø6.35mm, rolls of 25m, white	1pcs	2pcs
	Tube cutter for polyamide pipe ø2-12mm	1pcs	1pcs
	Rubberised stainless steel pipe clamp, for polyamide pipe fixing ø6.35mm	20pcs	40pcs

Recommended accessory

ZX.KPI	**Emergency kit**: 2 cleanable fog nozzles in nickel-plated brass, 1 pipe "tee" junction Slip-Lock quick coupling, 1 Slip-Lock line end cap, 2 rubberised stainless steel pipe caps, 1 cap with 10/24UNC/2A thread

NEW

Smartphone controlled

CE

Fog module 60bar
230V–50Hz

Percorso
Efficienza Innovazione

Percorso efficienza Innovazione
MCE 2018

Fog App: the new solution for
refreshing outdoor areas
via smartphones

Fog App: what does this
fog module do?

NEW

Water inlet filter as standard, with 80micron AISI 304 stainless steel mesh. Works in conjunction with IT.0581 water supply Kit

Silent working

Considerably reduces the temperature

Keeps mosquitoes away

Simple and effective

Fog App is the smartest solution to **refresh** bars, restaurants, patios in small and medium-sized areas. The system can be connected to both ventilation and in-line cooling systems and can be **controlled** conveniently **from the application via a smartphone**.

Simple mode to select:
- operation time:
- up to max 4 time slots
- work/pause time:
with min work time of 3s and min pause time of 15s

Advanced mode to select:
- operation time:
time slots as required
- work/pause time: customised for each time slot with min work time of 3s and min pause time of 15s

Slip-Lock connectors for water inlet ø9.6mm and water outlet ø6.35mm

Tech. features

Code	Model	*No. of nozzles 50Hz	Pressure	Flow rate 50Hz	Power absorption	Weight
ZX.FA1.0	FOG APP 1	20	60bar	1l/min	180W (230V–50Hz)	10kg
ZX.FA1.5	FOG APP 1,5	30	60bar	1,5l/min	180W (230V–50Hz)	10kg

The max number of nozzles has been calculated by using a nozzle with flow rate factor 015 (0.047l/min) at 60bar
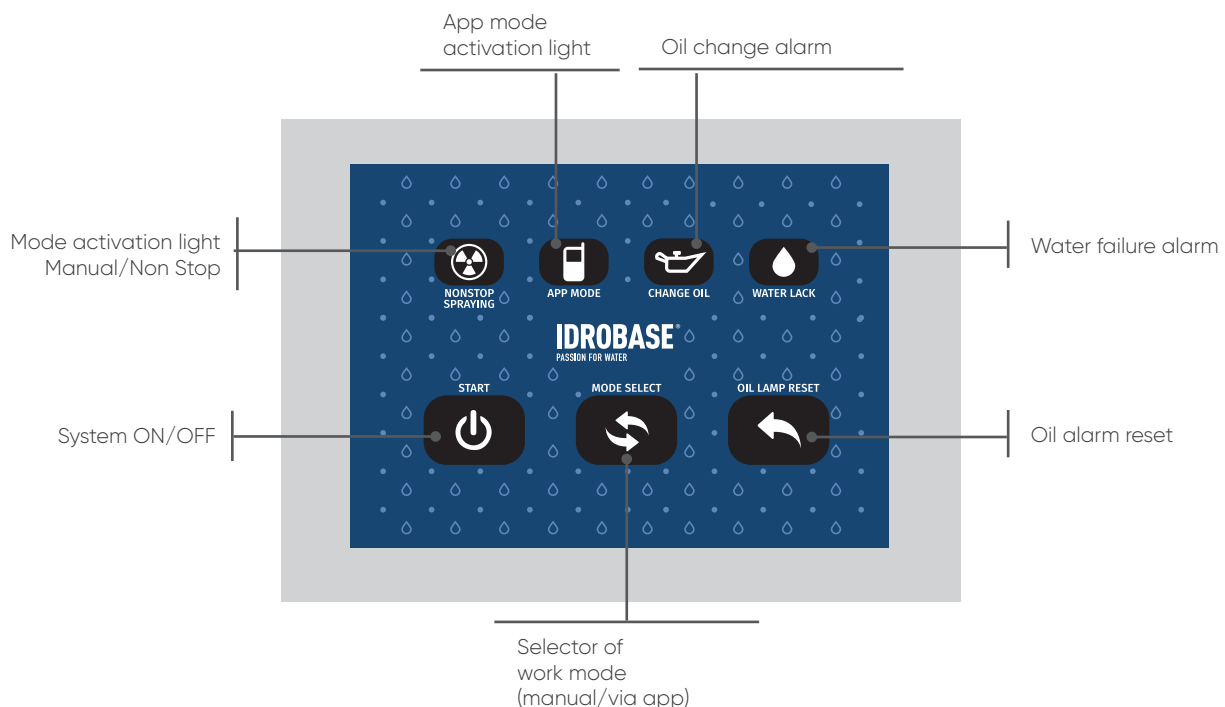
FOG APP is compatible with:	
Linea kit	ZX.KL20 and ZX.KL30
Kit Vento	ZX.KV4-20, ZX.KV6-20, ZX.KV2-18, ZX.KV4-18, ZX.KV6-18, ZX.KV2-360, ZX.KV4-360, ZX.KV6-360, ZX.KV2-P and ZX.KV4-P

Recommended accessories

IT.0581
Water supply kit
complete with mesh filter, and Fog module 3m water connection pipe

IT.0582
Anti-limescale filter
with polyphosphate salts for water supply kit

ZX.0561
Pressure gauge kit
in AISI 304 stainless steel, ø40mm, 1/4" M–F, 0–160bar

Fog App control panel

App mode activation light

Oil change alarm

Mode activation light Manual/Non Stop

NONSTOP SPRAYING   APP MODE   CHANGE OIL   WATER LACK

IDROBASE
PASSION FOR WATER

START   MODE SELECT   OIL LAMP RESET

Water failure alarm

System ON/OFF

Oil alarm reset

Selector of work mode (manual/via app)

Technical features

- **Frame** made of galvanised painted plate
- **Electric pump** 3 pistons, axial, with brass head
- **Thermal protection** against current surge
- **Unloader valve**
- **LP pressure switch** due to lack of water
- **Solenoid valve** l.p. water inlet
- **Solenoid valve** h.p. for pressure discharge
- **Inlet, Slip-Lock** ø9.6mm
- **Outlet, Slip-Lock** ø6.35mm
- **Instrument panel with 3 touch buttons** for:

  – machine ON/OFF
  – Manual mode selection or Bluetooth activation for smartphone control
  – Alarms reset for maintenance

- **Possibility to manage 3 different modes via the app:**
  – *Nonstop*: the Fog module works in continuous mode
  – *Simple mode*: selection of days of the week, selection of max 4 time slots, work/pause time selection with min 3s work time and min 15s pause time
  – *Advanced mode*: selection of the days of the week, selection of max 20 time slots, selection of work/pause times customised for each time slot with min 3s work time and min 15s pause time

- **Dimensions WxLxH:** 415 x 250 x 215mm

Fog module 60bar
230V–50Hz

FOG Eco Pro

NEW

Water inlet filter as standard, with 80micron AISI 304 stainless steel mesh. Works in conjunction with IT.0581 water supply Kit

Considerably reduces the temperature

No wet

Keeps mosquitoes away

Silent working

Compact and versatile

The most **compact** and **versatile** solution for cooling, creating fog effects and humidifying small and medium sized areas. Wide variety of **accessories** and types of line **matchable as required** for use in a wide range of applications.

Slip-Lock connectors
for water inlet ø9.6mm and water outlet ø6.35mm

Timing of pause/work pre-settings:
– T1 15" ON – 10" OFF
– T2 20" ON – 15" OFF
– T3 20" ON – 30" OFF

Radio control range 15m with 4 channels:
– ON/OFF pump
– ON/OFF lights
– ON/OFF fans
– ON/OFF pump and fans

Tech. features

Code	Model	*Nozzles n°	Pressure	Flow rate	Power absorption	Weight
ZX.5095-RC	FOG ECO PRO 05	10	60bar	0,5l/min	125W (1x230V-50Hz)	15kg
ZX.5090-RC	FOG ECO PRO 1	20	60bar	1l/min	200W (1x230V-50Hz)	15kg

* The max number of nozzles has been calculated by using a nozzle with flow rate factor 15 (0.047l/min) at 60bar
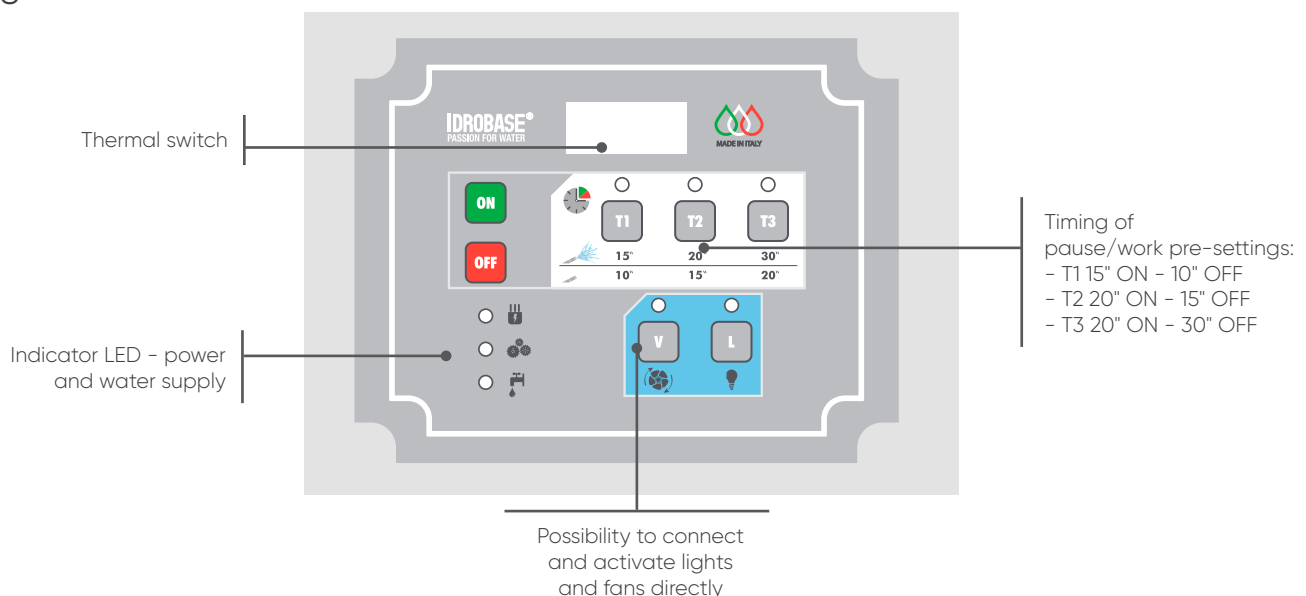
FOG ECO PRO is compatible with:

Linea kit	ZX.KL10 and ZX.KL20
Kit Vento	ZX.KV2-20, ZX.KV4-20, ZX.KV2-18, ZX.KV4-18, ZX.KV2-360, ZX.KV4-360, and ZX.KV2-P

Recommended accessories

IT.0581 — **Water supply kit** complete with mesh filter, and Fog module 3m water connection pipe

IT.0582 — **Anti-limescale filter** with polyphosphate salts for water supply kit

ZX.0561 — **Pressure gauge kit** in AISI 304 stainless steel, ø63mm, 1/4" M, 0-160bar

IT.0104 — **Thermostat remote control**, complete with temperaturesensing probe

IT.0269-20 — **Temperature probe** for remote control IT.0104, 20m cable

IT.0105 — **Humidistat remote control,** ideal for controlling and maintaining the desired humiditylevel in an environment

IT.0137-20 — **Humidity probe** for remote control IT.0105, with 20m cable

Fog Eco Pro controls

Thermal switch

Indicator LED - power and water supply

Timing of pause/work pre-settings:
– T1 15" ON - 10" OFF
– T2 20" ON - 15" OFF
– T3 20" ON - 30" OFF

Possibility to connect and activate lights and fans directly

Technical features

- **Frame** made of painted steel
- **Axial motor pump with two ceramic pistons** 0.5 and 1l/min complete with by-pass valve
- **Electric control panel - with three time pre-settings**(with the option to directly operate the fans)
- **Solenoid valve- low pressure water inlet**
- **Solenoid valve** high pressure for pressure discharge
- **Pressure switch- low pressure no water supply**
- **Control panel** complete with: ON/OFF thermal cutout switch, continuous work mode or with 3 pause/work settings. Preset for connecting external devices (level sensor, fans, UV lamp, lights)
- **Four-channel radio remote control**: pump on/off, lights on/off, combined pump and fans on/off
- **Slip-lock inlet** ø9.6mm
- **Outlet, Slip-Lock** ø6.35mm
- **Dimensions LxDxH:** 450 x 300 x 280mm

NEW

Probes

Control panel

MADE IN ITALY

CE

Fog module 60bar
230V–50Hz

Fog Extra
How does it work?

Fog Extra to cool, humidify, suppress dust and odours and many more

NEW

Water inlet filter as standard, with 80micron AISI 304 stainless steel mesh. Works in conjunction with IT.0581 water supply Kit

Compact and versatile

The most **compact** and **versatile** solution to cool, create fog effects, humidify, suppress dust and odours in small and medium sized areas. Wide variety of **accessories** and types of line **matchable as required** for use in a wide range of applications.
The new control panel allows for quick and accurate setting of the work times and management of the connected optional probes.

SECURITY SYSTEM ANTI-FLOODING:

in the event of pipe breaks on the fog nozzle lines, the system automatically shuts down to prevent flooding in the areas where the lines are installed

Slip-Lock connectors
for water inlet ø9.6mm and water outlet ø6.35mm.
Outside air intake for motor pump unit cooling

Pump with brass head
(for the ZX.FL-2 version with 2l/min capacity)

Electrical connections
for humidity ZX.SU20 and temperature ZX.ST20 probes

IDROBASE PASSION FOR WATER

Axial pump with 2 pistons

Code	Model	*No. of nozzles	Max pressure	Flow rate	Power	Weight
ZX.FL-05	FOG EXTRA-05	10	60bar	0,5l/min	125W (1x230V-50Hz)	15kg
ZX.FL-1	FOG EXTRA-1	20	60bar	1l/min	200W (1x230V-50Hz)	15kg

Axial pump with 2 ceramic pistons, *head in nickel-plated brass, integrated bypass valve, electric motor 1350rpm,*

Axial pump with 3 pistons

Code	Model	*No. of nozzles	Max pressure	Flow rate	Power	Weight
ZX.FL-2	FOG EXTRA-2	40	60bar	2l/min	720W (1x230V-50Hz)	30kg

Axial motor pump with three ceramic-coated steel pistons, *brass head, integrated by-pass valve, electric motor 1450rpm.*

* The max number of nozzles has been calculated by using a nozzle with flow rate factor 15 (0.047l/min) at 60bar

FOG EXTRA is compatible with:

Linea kit	ZX.KL10, ZX.KL20, ZX.KL30 and ZX.KL40
Kit Vento	ZX.KV2-20, ZX.KV4-20, ZX.KV2-18, ZX.KV4-18, ZX.KV2-360, ZX.KV4-360, and ZX.KV2-P

Recommended accessories

IT.0581	**Water supply kit** complete with mesh filter, and Fog module 3m water connection pipe	
IT.0582	**Anti-limescale filter** with polyphosphate salts for water supply kit	

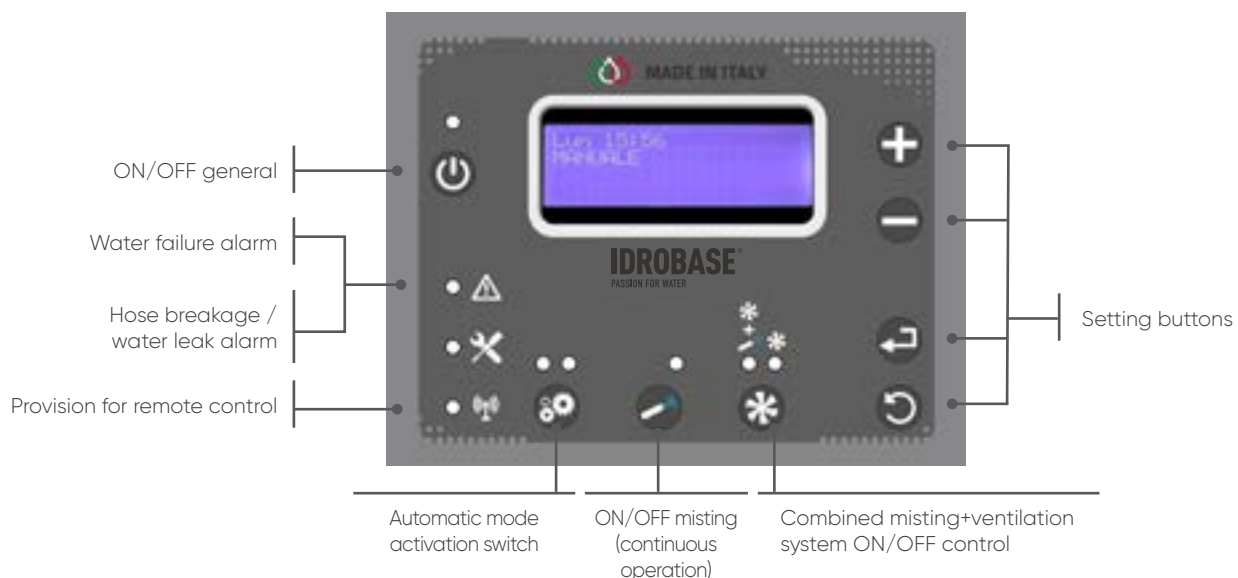|		
ZX.ST20	**Humidity probe** (for standard thermostat), with 20m cable	
ZX.SU20	**Humidity probe 4:20 mA** (for standard humidstat), with 20m cable	

Fog Extra Controls

- Humidstat **standard**
- Thermostat **standard**
- Display interface
- Cyclical ON/OFF timer

- Weekly time slot programmer
- Hour counter and maintenance schedule
- Pre-setting for connection of 230V ventilation systems

- Pre-setting for remote connection

ON/OFF general

Water failure alarm

Hose breakage / water leak alarm

Provision for remote control

Setting buttons

Automatic mode activation switch

ON/OFF misting (continuous operation)

Combined misting+ventilation system ON/OFF control

Technical features

- **Frame** made of painted steel
- **Unloader valve**
- **LP solenoid valve** 230V-50Hz, inlet water
- **H.p. solenoid valve** 230V-50Hz, to discharge line pressure
- **Electrical panel** complete with:ON/OFF thermal cutout, electronic board for management of anti-drip and timer system

- **Slip-lock inlet** ø9.6mm
- **Outlet, Slip-Lock** ø6.35mm
- **H. p. switch** for no water supply and pipe breaks
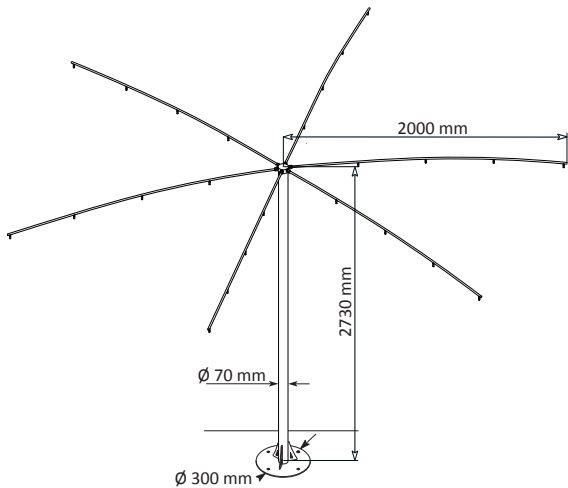- **Dimensions WxLxH:** 600 x 300 x 300mm

Palma Rinfrescante

Refreshing accessory with 304 stainless steel structure complete with 6 pre-drilled pipes, connection fittings and 24 fog nozzles with 0.15mm holes with anti-drip system.
With buried connections and ground fixing of the structure.
Straightforward, quick installation, no special tools required.
The pipe junction connectors are made of AISI 304 SS and are equipped with compression fitting and a Slip-Lock connector to accommodate a high pressure polyamide pipe (max 60bar) ø9.6x5mm. They must be connected to a nebulisation system

Model		Operating pressure	Water requirement at 60bars	Dimensions L x W x H
ZX.6000	PALMA RINFRESCANTE	60bar	2l/min	2000 x 2000 x 2730mm

Parasole Rinfrescante

Refreshing accessory with 304 stainless steel structure complete with 3 pre-drilled pipes, wall fixing bracket, connection fittings and 12 fog nozzles with 0.15mm holes with anti-drip system.
Straightforward, quick installation, no special tools required.
The pipe junction connectors are made of AISI 304 SS and are equipped with compression fitting and a Slip-Lock connector to contain a high pressure polyamide pipe (max 60bar) ø9.6x5mm. They must be connected to a nebulisation system
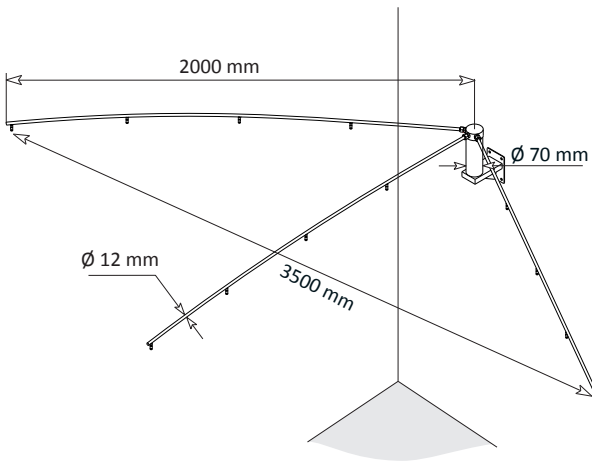
Model		Operating pressure	Water requirement at 60bars	Dimensions L x W
ZX.6001	PARASOLE RINFRESCANTE	60bar	0,5l/min	2000 x 2000mm

Stelo Rinfrescante

Refreshing accessory with pre-drilled 304 stainless steel structure, complete with 10 fog nozzles with 0.15mm holes with anti-drip system.
With buried connections and ground fixing of the structure.
Straightforward, quick installation, no special tools required.
The pipe junction connectors are made of AISI 304 SS and are equipped with compression fitting and a Slip-Lock connector to accommodate a high pressure polyamide pipe (max 60bar) ø9.6x5mm. They must be connected to a nebulisation system
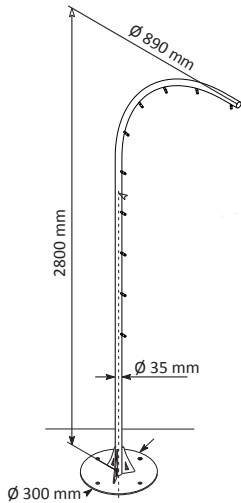
Model		Operating pressure	Water requirement at 60bars	Dimensions L x W x H
ZX.6002	STELO RINFRESCANTE	60bar	0,5l/min	890 x 890 x 2800mm

Choose your refreshing accessory

Pumping modules

Code	Description	*No. of nozzles	Fog App ZX.FA1.0	Fog App ZX.FA1.5	Fog Eco Pro ZX.5095-RC	Fog Eco Pro ZX.5090-RC	Fog Extra ZX.FL-05	Fog Extra ZX.FL-1	Fog Extra ZX.FL-2
ZX.6000	Palma Rinfrescante	24							•
ZX.6001	Parasole Rinfrescante	18	•			•		•	
ZX.6002	Stelo Rinfrescante	10	•			•	•		

Fruit, vegetables, fish and flowers always perfectly fresh

The Italian-made **humidification systems** by Idrotech, Idrobase Group, are specially designed to **preserve the freshness** of food produce such as fruit, vegetables, fish and flowers. These systems **prevent the dehydration** of fresh products by means of filtered and sterilised water sprayed on the counters through nozzles arranged along a steel or Grilamid line.

Humidification prolongs the shelf-life of fruit, vegetables, fish and flowers by rehydrating them with an action that reduces their weight loss and also preserves their fresh appearance. Our misting systems **help boost sales and reduce product weight loss by up to 50%.**

Humidification Kit for supermarkets

Products stay fresh much longer: to offer your customers products as fresh as just harvested from the field!

Our solution for limiting the financial loss caused by dehydration: <u>vegetables will lose between 15 and 58%</u> of their weight, while <u>fish will lose 12%</u>. **Humidification** offers considerable advantages to retailers: <u>it reduces the weight loss of these products up to 90% and prolongs their freshness</u>
Refrigerated counters, non-refrigerated display cases, and storehouses are all low-humidity environments (50-60%). This causes the rapid deterioration of most fruit and vegetables, which

lose weight, change colour and take on an uninviting appearance.

On the contrary, correctly humidified products will look <u>just harvested</u>, with <u>moist, firm and fresh surfaces</u>. To maintain the right humidity level as long as possible during display and storage.
Our humidification system is fully automatic: it features great versatility and extremely low operating costs.

To understand how much you can save, let's examine the produce department of a supermarket:

- Daily sales= **€ 500**
- Without Idrobase Group **humidification** : losses due to weight loss or deterioration **8%**= **€ 40**
- With Idrobase Group **humidification** : losses due to weight loss or deterioration **4%**= **€20**
- Daily savings= **€ 20**
- **Annual savings:** € 20 x 300 working days = **€ 6000**

We keep your supermarket products in great shape

	Typical daily weight loss	Daily weight loss with Humi Fog / Humi Extra	Reduction in weight loss	Change in appearance
Artichoke	4.05%	0.58%	85.68%	★★★
Avocados	0.38%	0.08%	79.62%	★
Broccoli	7.55%	0.75%	90.07%	★★
Brussels sprouts	3.47%	1.54%	55.62%	★★★
Cabbage	1.39%	0.28%	79.86%	★★★
carrots	4.65%	1.61%	65.38%	★★
Cauliflower	2.04%	0.41%	79.90%	★★★
Celery	3.08%	1.29%	58.12%	★★
Grpfruit	0.64%	0.21%	67.19%	★★★
Grp	1.46%	0.73%	50.00%	★★★
Lemons	1.17%	0.36%	69.23%	★
Lettuce	7.05%	0.92%	86.95%	★★★★
Mshroom	12.06%	5.90%	51.04%	★★★★
Lg mushroom	12.09%	4.58%	62.10%	★★★★
Oranges	0.45%	0.22%	51.11%	★
Peaches	3.38%	2.23%	34.09%	★★★
Plums	0.83%	0.41%	49.79%	★★★
Radishes	5.88%	2.94%	50.00%	★★★★
Strberry	2.43%	1.11%	54.23%	★★
Tomatoes	0.23%	0.07%	69. 30%	★

Carefree humidification

If you decide to use **our humidification system** in your store, **Idrotech** will **design** the most functional system, ensure perfect **installation** and carry out **maintenance**, to guarantee all the **benefits of humidification**, a **successful outcome** and **maximum user-friendliness**.
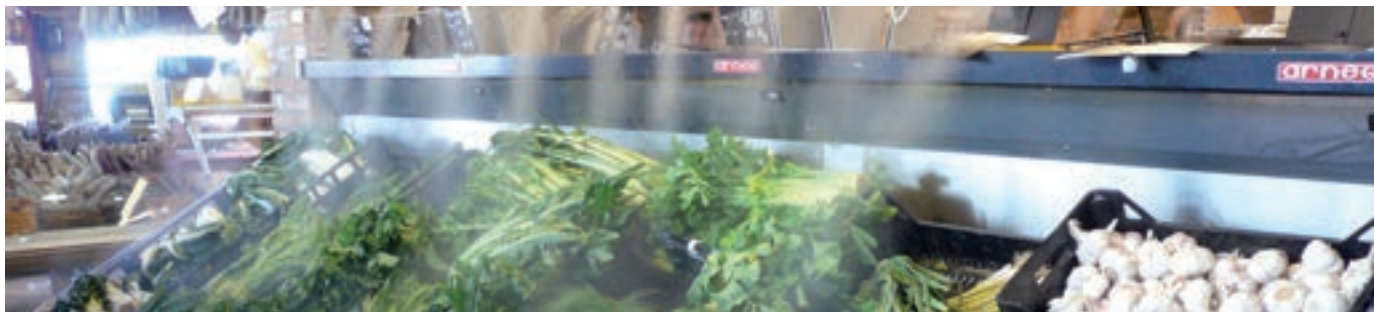
The benefits are clear

The following graphs compare 5°C refrigerated environments that are not humidified with others that are humidified. (Considering products kept at an **ideal degree of humidification**). Humi Fog and Humi Extra allow for **perfect rehydration**, therefore, the **benefit** derived from using this system will be **substantially greater** than that indicated by the graphs.

gr. beans

Peaches

carrots

——— with Humi Fog and Humi Extra   ——— without Humi Fog and Humi Extra
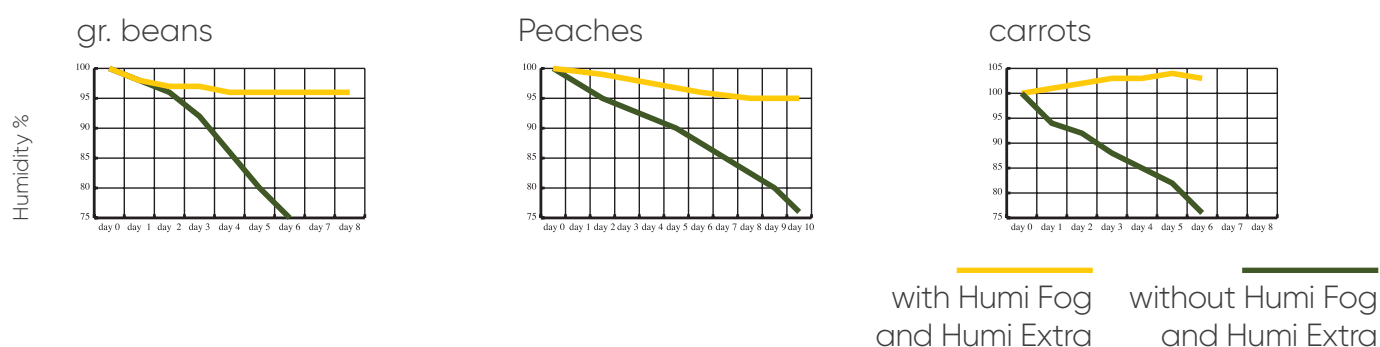
Why you should choose our humidification:

€ Greater economic savings, **50% savings** compared to the average competing systems on the market	**50x** Minimum footprint: **50x50x15cm**
80% **80% less** maintenance compared to other systems	**Perfect Electronic anti-drip system**, to prevent unpleasant dripping
1h Installation takes about **1 hour,** instead of the 3 hours of other systems	Built-in **sterilisation system** to guarantee sanitised water
125w Low energy consumption, **125W** compared to other systems which require 800W	Humidification keeps away annoying and anti-hygienic flying insects

Humidification kit in supermarkets

Super MARKET

The solution to ensure **humidification in supermarkets**

The humidification kit in supermarkets includes several solutions:

Humidification Kit for supermarkets

Medium pressure
Humi Fog

Humi Fog: medium pressure humidification system for **small areas** in supermarkets

Fog Extra to cool, humidify, suppress dust and odours and many more

High pressure
Humi Extra
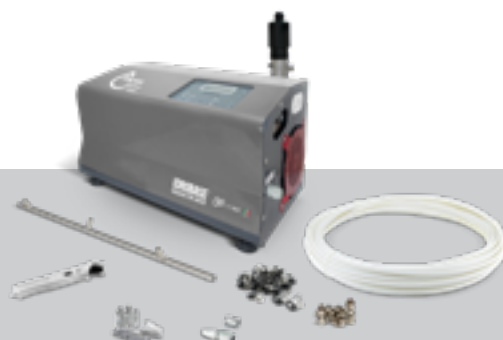
Humi Extra: high pressure humidification system for **medium/large areas** in supermarkets

NEW 🔵 MADE IN ITALY CE

HUMIFOG

Medium pressure fog
230V–50Hz

Humidification kit for
Supermarket

NEW

Water inlet filter as standard, with 80micron AISI 304 stainless steel mesh. Works in conjunction with IT.0581 water supply Kit

Detail of the
sterilising lamp

Easy to use

Silent working

Pump free of maintenance

The perfect degree of humidity to preserve the freshness of fruit, vegetables, fish and flowers

Humi Fog is a humidification system specially designed to preserve the freshness of fruit, vegetables, fish and flowers. The nebulised water, **filtered** and **sterilised**, which is sprayed on the counters through nozzles arranged along a steel or polyamide line, rehydrates the food produce, preventing **dehydration** and reducing **weight loss**.

Humi Fog

	Description	compatibility with Humidification kit	
		3m	6m
ZX.HF	**Module Humi Fog,** 25l/h, 25bar, 125W, 230V-50Hz (complete with sterilising lamp)	•	•

Humidification kit

	line length in metres	
	3m	6m
Description	ZX.KH3	ZX.KH6
Polyamide pipe for high pressures ø6.35mm, (in metres)	25	25
AISI 304 stainless steel pipe ø12mm 3000mm, 6 holes, pitch 500mm, complete with adjustable threaded adapters 10/24UNC/2A	1	2
Rubberised stainless steel pipe clamp for fixing a polyamide pipe, ø6.35mm	35	35
Pipe junction Slip-Lock quick coupling, straight, made of AISI 303 stainless steel for ø12mm pipes	-	1
End of line cap Slip-Lock - in AISI 303 stainless steel for Slip-Lock ø12mm	1	1
Pipe junction Slip-Lock quick coupling, straight, made of AISI 303 stainless steel, adapts from 12mm to ø6.35mm	1	1
Fog nozzle in nickel-plated brass, cleanable, complete with anti-drip valve, 10/24UNC/2A thread, flow factor 015	6	12
Tube cutter for polyamide pipe ø2-12mm	1	1

Recommended accessories

IT.0581 — **Water supply kit** complete with mesh filter, and Fog module 3m water connection pipe

IT.0582 — **Anti-limescale filter** with polyphosphate salts for water supply kit

Technical features

· **Voltage** 230V-50Hz
· **Water filter with SS cartridge**
· **Thermal protection fuse**
· **UV lamp 300**
· **Power absorbed (module+UV lamp) 125W**
· **Pump dimensions** 42x20x32cm
· **L.p. Slip-Lock inlet** ø9.6mm
· **Outlet, Slip-Lock** ø6.35mm

Adjustable timer:

· Work from 1 to 60 sec
· Pause from 1 to 60 min
· The system usually works according to a pause/work cycle, nebulising for a few seconds every 5-10 minutes, thus making actual consumption very low

Humi Fog consumption:

· **125W** working
· **12W** stand-by

HUMI Extra

NEW MADE IN ITALY CE

Fog kit 60bar 230V-50Hz

Fog Extra to cool, humidify, suppress dust and odours and many more

Humidification kit for Supermarket

NEW

Water inlet filter as standard, with 80micron AISI 304 stainless steel mesh. Works in conjunction with IT.0581 water supply Kit

Detail of the sterilising lamp

NEW SAFETY SYSTEM:

in the event of a pipe break in the fog nozzle lines, the system automatically shuts down to prevent flooding of the areas where the lines are installed

Programmer (weekly)

Desired humidity (settable)

Keeps insects away

The perfect degree of humidification to preserve the freshness of fruit, vegetables, fish and flowers

Humi Extra is a humidification system specially developed to preserve the freshness of fruit, vegetables, fish and flowers. The nebulised water, **filtered** and **sterilised**, which is sprayed on the counters through nozzles arranged along a steel or polyamide line, rehydrates the food produce, preventing **dehydration** and reducing **weight loss**. The new control panel allows for quick and accurate setting of the work times and management of the connected optional probes.

O - Optionals
X - Not available

ZX.KM-EC	Maintenance kit 2 piston axial pump (valve kit and water seals kit for pump)	O	O	O	X	X	X
ZX.KM-AX	Maintenance kit 3 piston axial pump (valve kit and water seal kit for pump)	X	X	X	O	O	O
IT.0915	UV lamp 300	O	O	O	O	O	O
ZX.SU20	Moisture Probe for Fog Extra - 20m cable	O	O	O	O	O	O

Humi Extra

		Description	compatibility with Humidification kit					
			3m	6m	9m	12m	15m	18m
	ZX.HE-05	Fog Extra 0.5l/min 60bar complete with sterilising lamp	•					
	ZX.HE-1	Fog Extra 1l/min 60bar complete with sterilising lamp		•	•			
	ZX.HE-2	Fog Extra 2l/min 60bar complete with sterilising lamp				•	•	•

Humidification kit

	Description	line length in metres					
		3m	6m	9m	12m	15m	18m
		ZX.KH3	ZX.KH6	ZX.KH9	ZX.KH12	ZX.KH15	ZX.KH18
	Polyamide pipe for high pressures, ø6.35mm (in metres)	25	25	25	25	25	25
	Rubberised stainless steel pipe clamp for polyamide pipe fixing ø6.35mm	35	35	45	45	55	65
	AISI 304 stainless steel pipe ø12mm 3000mm, 6 holes, pitch 500mm complete with adjustable threaded adapters 10/24UNC/2A	1	2	3	4	5	6
	Pipe junction Slip-Lock quick coupling, straight, made of AISI 303 stainless steel for ø12mm pipes	–	1	2	3	4	5
	Pipe quick coupling, "Tee", in nickel-plated brass, ø6.35mm	–	–	1	1	1	1
	End of line cap Slip-Lock in AISI 303 stainless steel for Slip-Lock ø12mm	1	1	2	2	2	2
	Pipe junction Slip-Lock quick coupling, straight, made of AISI 303 stainless steel, adapts from 12mm to ø6.35mm	1	1	2	2	2	2
	Tube cutter for polyamide pipe ø2-12mm	1	1	1	1	1	1
	Fog nozzle in nickel-plated brass, complete with anti-drip valve and cleanable 50micron mesh filter, 10/24UNC/2A thread, flow factor 015	6	12	18	24	30	36

Recommended accessories

IT.0581	**Water supply kit** complete with mesh filter, and Fog module 3m water connection pipe	
IT.0582	**Anti-limescale filter** with polyphosphate salts for water supply kit	
ZX.ST20	**Humidity probe** (for standard thermostat), with 20m cable	
ZX.SU20	**Humidity probe 4:20 mA** (for standard humidstat), with 20m cable	

Technical features

- **Frame** in painted steel sheet
- **Electric pump** 1450rpm, 230V-50Hz
- **Unloader valve**
- **Low pressure solenoid valve** 230V-50Hz, water inlet
- **High pressure solenoid valve** 230V-50Hz, to discharge line pressure
- **Electrical panel** complete with: ON/OFF thermal cutout, electronic board for management of anti-drip and timer system

- **Dimensions WxLxH: 600 x 300 x 300mm**
- **Slip-lock inlet** ø9.6mm
- **Outlet, Slip-Lock** ø6.35mm
- **High pressure switch** for no water supply and pipe breaks
- **Dimensions WxLxH:** 600 x 300 x 300mm

IDROBASE PASSION FOR WATER

IDROBASE
idrobase.com

CLUB DEI RIPARATORI
clubdeiriparatori.com

ENJOY YOUR LIFE NIGHT AND DAY
enjoyyourfurniture.com

IDROTECH
idrotech.com

CLUB DEL MISTING
clubdelmisting.com

IDROBASE®

PASSION FOR WATER

Idrobase Group Srl
Via dell Industria, N. 25
35010 Borgoricco (PD) Italia

T: +39 049 9335903 r.a.
F: +39 049 9335922

www.idrobasegroup.com
info@idrobasegroup.com