

# IDROBASE<sup>®</sup>

PASSION FOR WATER

*new*

# Super MARKET



Humidification kit for  
Supermarket

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## HUMIDIFICATION IN SUPERMARKETS

# 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%.**

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:  
vegetables will lose between 15 and 58% of their weight, while fish will lose 12%. **Humidification** offers considerable advantages to retailers: it reduces the weight loss of these products up to 90% and prolongs their freshness

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 just harvested, with moist, firm and fresh surfaces. 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%	★

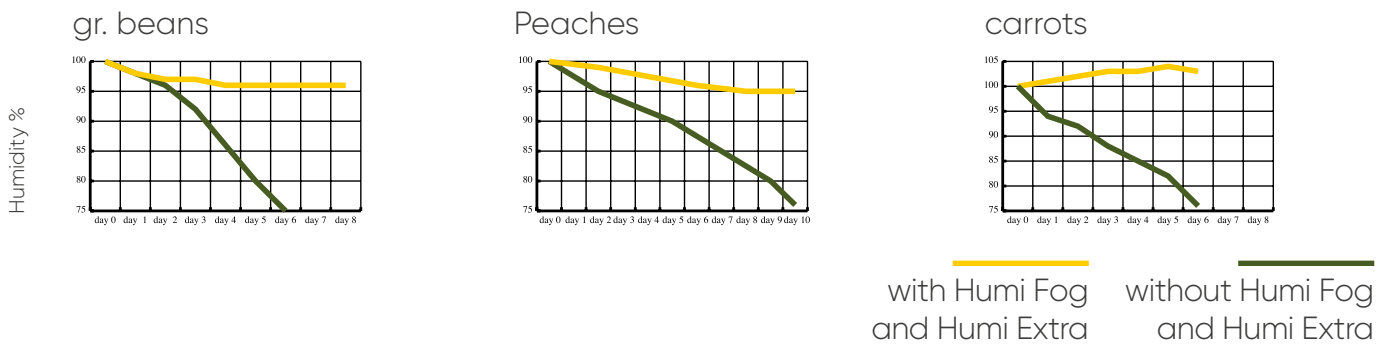
# Carefree humidification

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.



## Why you should choose our humidification:

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

# Humidification kit in supermarkets



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

# HUMIFOG

Medium pressure fog  
230V-50Hz



Humidification kit for  
Supermarket



**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
	<b>ZX.HF</b> <b>Module Humi Fog</b> , 25l/h, 25bar, 125W, 230V-50Hz (complete with sterilising lamp)	•	•

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

Recommended accessories

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

Fog kit 60bar  
230V-50Hz



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



Humidification kit for Supermarket



**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

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



Programmer (weekly)



Desired humidity (settable)




Keeps insects away










**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.

○ - Optionals  
X - Not available





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



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

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

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



## \*TERMS OF SUPPLY

- Delivery: EX WORKS
- Packing: NOT INCLUDED
- Our prices are quoted excluding VAT
- Specifications, data, tables and illustrations are provided for guidance only. Idrobases Group s.r.l. reserves the right to make changes without prior notice.
- The list prices will be reviewed monthly and may be subject to changes due to continuous market fluctuations.



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