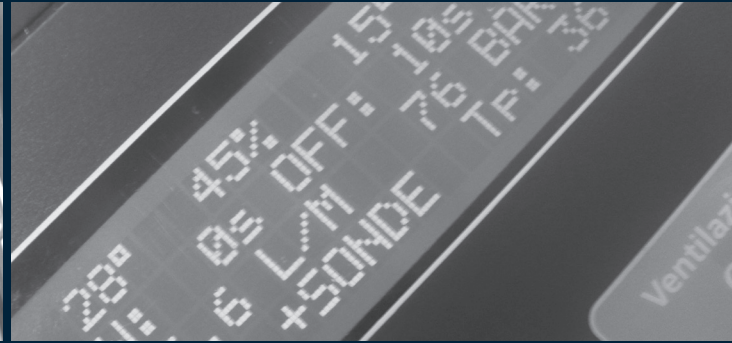


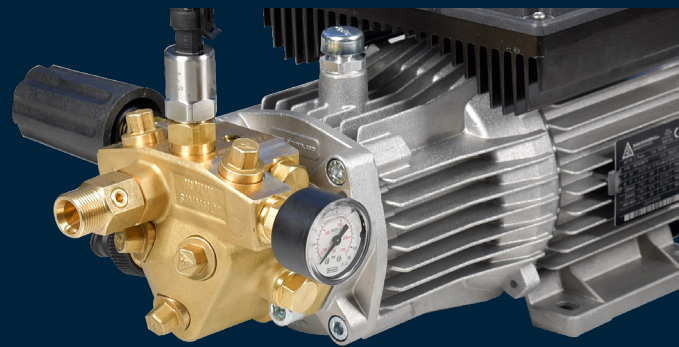
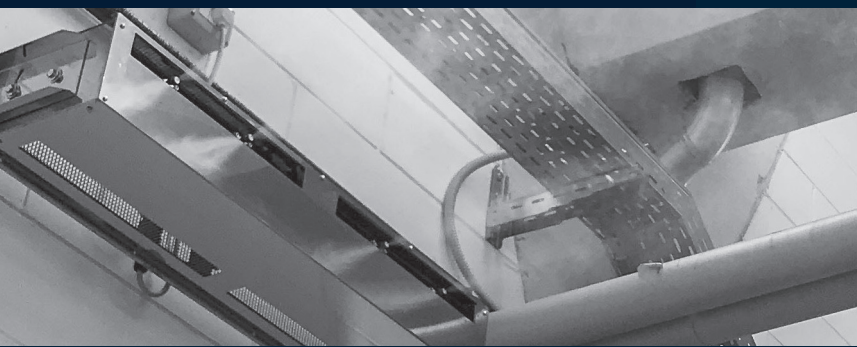
MISTING SYSTEMS

ADIABATIC ATOMIZATION

2021



NATURAL
COOL



BETTER PERFECT THAN CHEAP.

For over 30 years SIMMM ENGINEERING has been manufacturing and distributing exclusively patented adiabatic systems for high-pressure water atomization. Fully Italian design, production and assembly guarantee technological leadership in high-pressure adiabatic systems. The project developed by Natural Cool aims at manufacturing ecological and economical plants in order to reduce the environmental impact, protect nature and cut costs for the benefit of users. SIMMM Engineering means Green Product.





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BETTER PERFECT... THAN CHEAP.

THE HEART OF EACH HIGH MISTING SYSTEM IS THE HIGH PRESSURE PUMP. THE SIMMM PUMP HEADS ARE MADE ENTIRELY OF FORGED BRASS (WITH A 10 YEAR WARRANTY) TO ENSURE TOP QUALITY AND A LONG SERVICE LIFE. ALL PUMPS ARE MANUFACTURED ON CNC MACHINING CENTRES WITH ELECTRONIC CONTROL SYSTEMS TO GUARANTEE MAXIMUM PRECISION AND COMPLIANCE TO SPECIFICATIONS. WARRANTIES EXCLUDE WEAR AND TEAR ITEMS SUCH AS O'RINGS, HOSES ETC.



MISTING MODULES

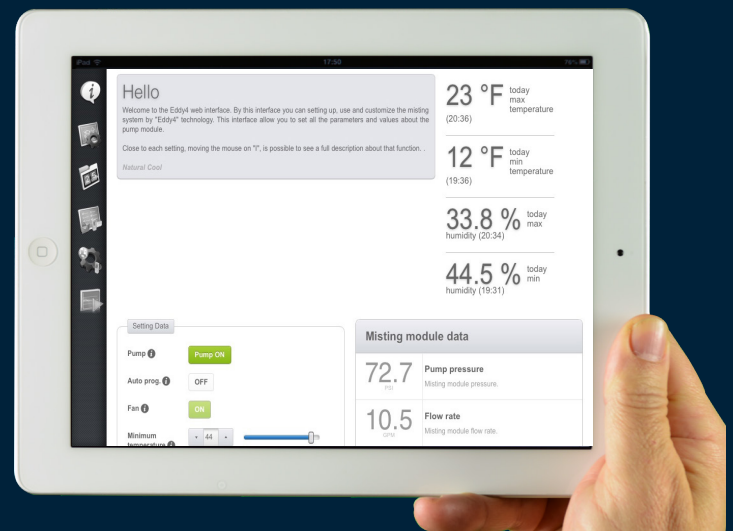
HIGH PERFORMANCE MISTING PUMPS UP TO 105 BAR



ADVANCE FEATURES

OUR RANGE OF MISTING MODULES ARE THE MOST EVOLVED AND FLEXIBLE SOLUTION FOR HUMIDIFICATION AND OUTDOOR COOLING SUITABLE FOR ANY ENVIRONMENT.

THE INTEGRATED ELECTRONIC CONTROL PERMITS TO CONFIGURE AND OPTIMIZE THE ATOMIZER ON THE BASIS OF CUSTOMER'S SPECIFIC REQUIREMENTS AND TO GUARANTEE ITS LONG-LASTING THANKS TO DIAGNOSTIC ROUTINES AND FRIENDLY WEB INTERFACE FOR ANY TABLET, SMARTPHONE AND PC STAINLESS STEEL CABINET (HPRO) MORE THAN 5 OPERATING ALARM, FULLY REMOTE CONTROL BY GSM OR INTRANET AND 10 DIFFERENT PROGRAMS SATISFY ALL INSTALLATION REQUIREMENTS.



INNOVATION AND DESIGN

EDDY5 CONTROL PANEL

WHEN USING ADIABATIC SYSTEMS, NOT ONLY IS ATOMISATION OF FUNDAMENTAL IMPORTANCE, BUT THE CONTROL OF THE FLOW OF WATER MOLECULES AS WELL. FOR THIS REASON NATURAL COOL HAS DEVELOPED AN INTEGRATED DIGITAL CONTROL SYSTEM THAT ALLOWS THE MANAGEMENT OF MULTIPLE FEATURES SIMULTANEOUSLY. PRECISION THERMOHYGROMETRIC MANAGEMENT, COMBINED WITH A DIGITAL TIMER, ALLOWS THE DELIVERY OF CORRECT QUANTITIES IN ANY ENVIRONMENTAL CONDITION IN ACCORDANCE WITH THE PRECISE CHOICES OF THE USER, SUCH AS TEMPERATURE, WATER SUPPLY AND OPERATING PRESSURE, AND PRESERVES THE LONGEVITY AND OPERATIONAL QUALITY. THE DISPLAY ALSO ALLOWS THE READING OF OTHER NECESSARY INFORMATION SUCH AS PERIODIC CHECK-UPS, TEMPERATURE AND RELATIVE HUMIDITY IN THE ROOM, AND THE SET PARAMETERS. IT IS POSSIBLE TO SEE AND RAPIDLY MODIFY THE PARAMETERS FOR THE IDLING AND WORKING TIMES OF THE HIGH PRESSURE MISTING MODULE, SO AS TO BE ABLE TO ADAPT ATOMISATION TO THE CHANGING NEEDS OF THE DAY. THE QUALITIES OF A SUPERIOR MECHANISM MEANS ARE NOTHING WITHOUT AN ADVANCED CONTROL SYSTEM. NATURAL COOL IS THE ONLY COMPANY IN THE MARKET, TODAY, THAT PRODUCES SUCH DEDICATED DIGITAL CONTROL SYSTEM, WITHOUT RESORTING TO EXTERNAL ACCESSORIES WHICH HAVE BEEN CREATED FOR DIFFERENT NEEDS.

SIMMM PUMPS AND ELECTRONIC CONTROL

FEATURING NUMEROUS PARAMETERS AND AN USER-FRIENDLY DISPLAY, THE EDDY5 CONTROLLER ALLOWS PRECISE SETTING OF PUMP PERFORMANCE.

THANKS TO THE HIGH NUMBER OF AVAILABLE VARIABLES IT 'S POSSIBLE TO PERSONALIZE PUMP FUNCTIONING ON THE BASIS OF CUSTOMER REQUIREMENTS.

- SIMMM PUMP AXA MODEL WITH NO OVERHEATING SYSTEM
- PATENTED FLOW RATE VALVE (LARGE RANGE OF NOZZLE NUMBERS WITH THE SAME MODEL)
- MAX WORKING PRESSURE UP TO 105 BAR
- PROFESSIONAL GAUGE
- SAFETY WATER PRESSURE SWITCH
- HIGH PRESSURE RELEASE SOLENOID VALVE
- "H" CLASS MOTOR WITH LOW MOTOR SPEED (900 RPM)
- THERMAL PROTECTION
- LOWEST NOISE LEVEL 50 DB
- LOW VOLTAGE CONTROL PANEL (12 VOLT)
- RADIO REMOTE CONTROL
- DIGITAL CYCLING TIMER
- DIGITAL WATER LITRE COUNTER
- DIGITAL PRESSURE READER
- TEMPERATURE AND HUMIDITY PROGRAM
- WEEKLY TIMER
- CONTROL VIA LAN, BY ANY SMARTPHONE, TABLET, PC OR MAC
- ALARMS DATABASE
- WASHING LINE HIGH PRESSURE SOLENOID VALVE
- AUTOMATIC FAN ON/OFF SWITCH (230 VOLT PLUG BUILT-IN)
- AUTO PROGRAM
- NOTIFICATION FUNCTION
- SELF-DIAGNOSIS
- SOFT TOUCH PANEL
- STAINLESS STEEL CABINET (HPRO MODEL)
- INTEGRATED DRAIN SYSTEM
- ANTI-LEGIONELLA PNEUMOPHILA AUTOMATIC SYSTEM E
- BUILT-IT COOLING FANS (HPRO MODELS)
- MULTIPLY REMOTE CONTROL PANELS OVER IP ETHERNET CONNECTIONS
- FIRMWARE UPDATE
- DATALOGGER BUILT-IN ABOUT ALL THE PUMP PARAMETERS
- REMOTE ACCESS CAPABILITY: FROM ANY TABLET, COMPUTER IS POSSIBLE MANAGE THE PUMPS EVERYWHERE THANKS TO INTERNAL GPRS MODULE
- MODBUS RS485 (BMS) COMUNCATION PROTOCOLS
- SIMULTANEOUS TEMP/HUM PROBES CONNECTION (MAX4) FOR A BETTER HUMIDIFCATION
- IN LINE 0-10 INPUT FOR UTA CONTROL
- OUT CONNECTION FOR SIREN OR LIGHT IN CASE OF ALARM
- 4 DIFFERENT AUTOMATIC PROGRAM FOR COOLING AND HUMIDITY CONTROL





WEB INTERFACE

OUR ATOMIZING CONTROL UNITS ARE THE FIRST ON THE MARKET TO BE "ALWAYS ON" OR, IN OTHER WORDS, CONNECTED TO A LOCAL NETWORK AND THE INTERNET BOTH THROUGH A DEDICATED CABLE OR WI-FI VIA A WIRELESS ROUTER.

IMAGINE THE POSSIBILITY OF SEEING THE OPERATIONAL PARAMETERS IN REAL TIME AND IN ANY PART OF THE WORLD, VIA A TABLET, PC OR SMARTPHONE, AND CHANGING OR UPDATING THEM ACCORDING TO CUSTOMER NEEDS.

IN ADDITION, PLANT DIAGNOSIS AND REMEDIAL ACTION CAN BE CARRIED OUT REMOTELY WITH A SUBSTANTIAL REDUCTION IN COSTS AND HIGHER PROFITABILITY.

- FULL CONTROL FROM ANY SMARTPHONE TABLET, COMPUTER. (NO APP NEEDS)
- WARNING ALARMS AND NOTIFICATIONS BY EMAIL.
- EASY MAINTENANCE E REMOTE
- SUPPORT SAVING COSTS AND INCREASING EFFICIENCY.
- FRIENDLY USER INTERFACE
- PDF REPORT AVAILABLE WITH CONFIGURATION

REMOTE ACCESS (AVAILABLE SOON)

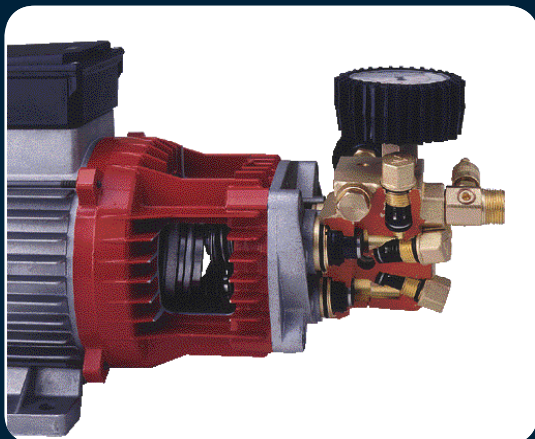
FOR THE FIRST TIME THE ADIABATIC COOLING AND MICRO-ATOMIZATION MARKET HAS SEEN THE PRESENTATION OF A "CLOUD REMOTE SERVICE" THAT PERMITS TO MANAGE BY REMOTE COMPUTER, TABLET OR TELEPHONE ALL THE DATA OF THE ATOMIZATION UNIT EVENT WHEN YOUR ARE FAR FROM THE INSTALLATION SITE.

IF THE MISTING PUMP IS NOT CONNECTED TO INTERNET BY ETHERNET CABLE THANKS TO GPRS MODULE BUILT IN THE POWERFULL CONTROLLER CAN CONNECT TO OUR SERVERS DOESN'T MATTER WHERE THE PUMP IS INSTALLED.

IMAGING TO BE IN OUT SIDE OF YOUR OFFICE, LOG IN OUR PAGE OUR WWW. MSITING.CLOUD, DISPLAY ALL THE PUMPS WHERE THEY ARE INSTALLED (NAME OF THE LOCATION), CHECK THE ONES THAT ARE WORKING AND FOR EACH ONE INTERACT, CHECKING ANY OPERATING STATUS AND CHANGING ALL THE PARAMETERS.



KILLER FEATURES



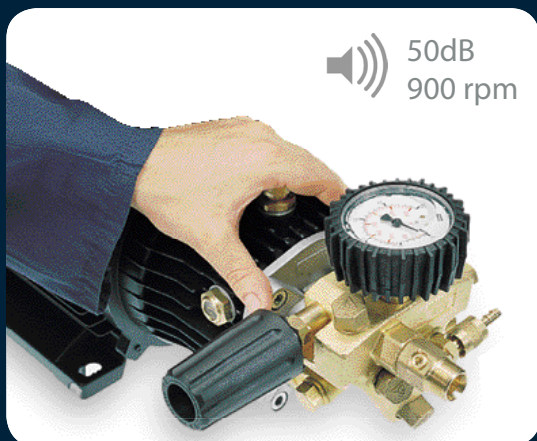
SIMMM PUMP A STEP AHEAD

AXA AND AXB SIMMM PISTON PUMP WITH DOUBLE WATER SEALS AND COATED PISTON FOR THE BEST PERFORMANCE

NATURAL COOL MISTING PUMPS USE AN ADVANCED ITALIAN WOBBLE-PLATE PUMP PRODUCING MORE PRESSURE AND FLOW RATE THAN A CRANK CASE PUMP. THE SIMPLE, RUGGED DESIGN INSURES RELIABILITY. THE SIMMM PUMP IS SO DURABLE IT IS CAPABLE OF RUNNING DRY, ON IN BYPASS, FOR AN EXTENDED PERIOD OF TIME WITHOUT DAMAGE.

WORRY FREE OPERATION IS ACHIEVED THROUGH ADVANCED DESIGN. MOST PUMPS WITH ALL CERAMIC PLUNGERS ARE QUICKLY DAMAGED WHEN RUN WITHOUT WATER OR LEFT TO IDLE FOR TOO LONG. THE SIMMM PUMP CAN RUN WITHOUT WATER OR IDLE IN BYPASS FOR HOURS WITHOUT DAMAGE.

SIMMM PUMPS RUN DRY BY USING BACKUP RINGS COMBINED WITH CERAMIC COATED STAINLESS STEEL PLUNGERS TO PROVIDE SUPERIOR HEAT TRANSFER FROM THE PUMP HEAD TO THE OIL BATH.



SILENCE... WE ARE WORKING

INCREDIBLE SOUND LEVEL LESS THAN 50 DB THANKS TO AN HIGH PERFORMANCE ELECTRIC MOTOR RUNNING AT 6 POLES 900 RPM. THE INTERNAL WINDINGS ARE IN "H" CLASS SUITABLE FOR WARM ENVIROMENT.

EXTREMELY QUIET BOOTH FOR INDUSTRIAL OR COMMERCIAL APPLICATION.



EDDY5: A COMPUTER.

MANY PROGRAMS SO FAR OPTIONAL IN THE MARKET MAKE THE USE OF ANY OF OUR PUMP MODELS EASY AND INTUITIVE AND CONTRIBUTE, NOT ONLY TO IMPROVE THE NEBULIZATION BUT GUARANTEE AN UNCOMMON RELIABILITY.

THE HEART OF EDDY 5 IS A PROCESSOR SO ADVANCED THAT MAKES THE NATURAL COOL ATOMIZING PUMPS SUITABLE TO "TALK" WITH THE WORLD WHEN THE INTERNET CONNECTION IS NOT PRESENT.

THANKS TO GPRS CONNECTIVITY FROM ANY PART OF THE WORLDS IT IS POSSIBLE TO "DIALOGUE" WITH THE PUMP, CHECK THE OPERATING STATUS, THE SELECTED PROGRAMS, ALL OPERATIONAL ALARMS AND MUCH MORE.



WORLD PUMP MANAGEMENT

DO YOU NEED TO KNOW IF THE PUMP YOU HAVE INSTALLED IN AUSTRALIA NEEDS MAINTENANCE?

DO YOU WANT TO KNOW IF THE ENGINE IS OVERHEATED?

DO YOU WANT TO KNOW THE TEMPERATURE OF THE PUMP?

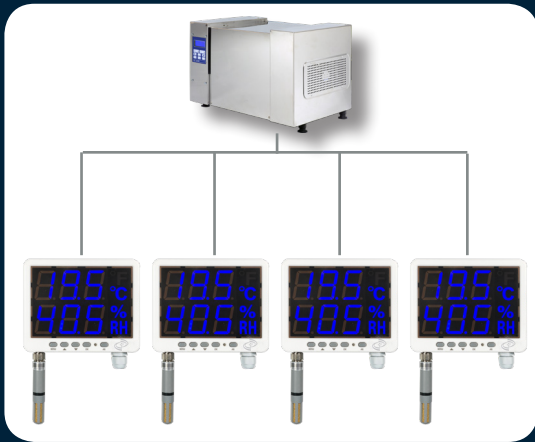
IS IT NECESSARY TO CHANGE THE CYCLICAL TIME TO IMPROVE THE NEBULIZATION?

THANKS TO THE INTERNET CONNECTION USING THE INTERNAL GPRS MODULE IT

IS POSSIBLE TO CONTROL THE ATOMIZING PUMP FROM ANY PART OF THE WORLD

FROM AMERICA TO AUSTRALIA FROM ANY COMPUTER OR TABLET OR SMART

PHONE.



SIMULTANEOUS READING UP TO 4 PROBES

THANKS TO THE DIGITAL TECHNOLOGY IT IS POSSIBLE TO CONNECT UP TO 4 PROBES (TEMPERATURE / HUMIDITY) IN A ROOM WITH A SIMULTANEOUS READING (AVERAGE VALUE) FOR A HOMOGENEOUS HOMOGENIZING HUMIDIFICATION IN INTERNAL AND EXTERNAL PLACES.

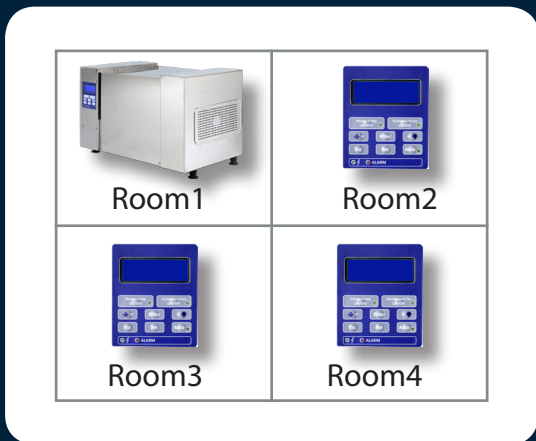
A LARGE DISPLAY ALWAYS SHOWS TEMPERATURE AND HUMIDITY IN THE ENVIRONMENT.

THE HUMIDITY AND TEMPERATURE SENSOR IS REPLACEABLE IN CASE OF DAMAGE.



WEB INTERFACE

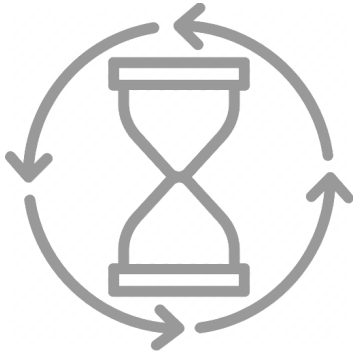
A WEB INTERFACE IS AVAILABLE FOR AN EASIER SETUP OF ALL THE PARAMETERS OF THE ATOMIZING PUMP. A WEB INTERFACE IS AVAILABLE FOR AN EASIER SETUP AND MANAGING OF ALL THE PARAMETERS OF THE ATOMIZING PUMP. WEB INTERFACE IS AVAILABLE FROM ANY TABLET OR COMPUTER IN THE SAME LOCAL AREA NETWORK (LAN) BY WIFI.



MULTIPLE CONTROL PANELS

IN CASE OF INSTALLATION OF THE ATOMIZING PUMP IN PLACES NOT EASILY ACCESSIBLE, UP TO 199 REMOTE PANELS CAN BE CONNECTED REMOTELY. ALL PANELS DISPLAY THE SAME INFORMATION SIMULTANEOUSLY AND SYNCHRONIZED.

KILLER FEATURES



CYCLING TIME PROGRAM

INSIDE THE EDDY5 IS AVAILABLE THE CYCLIC TIMER PROGRAM THAT ALLOWS TO TIMER THE ATOMIZING PUMP TO GRANT A PERFECT COMFORT WITHOUT CONDENSATION



DIGITAL WATER LEAKING ALARM

AN ALARM IS AVAILABLE IN CASE OF WATER LOSS FROM THE HIGH PRESSURE LINE BY DEFINING A MINIMUM / MAXIMUM PRESSURE VALUE, IT IS ALSO POSSIBLE TO WARN THE USER ABOUT A POSSIBLE OBSTRUCTION OF THE NOZZLES.



230 VOLT FAN SOCKET AVAILABLE

ALL OUR ATOMIZING PUMPS HAVE A SOCKET FOR CONNECTING ONE OR MORE FANS (MAX 10 AMPS) FOR AN AUTOMATIC START WHEN THE PUMP IS SWITCHED ON. THANKS TO THE SUPPLIED RADIO CONTROL, THE FANS CAN BE SWITCHED ON SEPARATELY OR CONTROLLED BY REMOTE ACCESS CLOUD SERVICE



INTERNAL DRAIN VALVE WITH ADJUSTABLE TIME

THIS DEVICE ALLOWS THE DRAINAGE OF HIGH PRESSURE WATER INTO THE PIPES. THROUGH A SPECIAL VALVE THE DRAIN IS INTERNAL AND NOT EXTERNAL AS FOR THE TRADITIONAL PUMPS ON THE MARKET. THIS IMPORTANT FEATURE GRANTS A SIMPLE AND EASY INSTALLATION.



DIGITAL OPERATING ALARMS VIA EMAIL

THE FOLLOWING OPERATIONAL ALARMS ARE AVAILABLE ON THE ALPHANUMERIC DISPLAY AND ARE SENT VIA EMAIL IF THIS FUNCTION IS ENABLED.

- WATER LOSS
- OVER PRESSURE
- OVER AMPS
- OVER HEATING
- MAINTENANCE WITH EVENT DESCRIPTION (OIL CHANGE, NOZZLE CLEANING ETC)
- WATER LEAKING



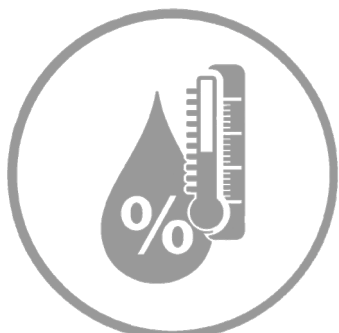
WEEKLY PROGRAM

WEEKLY PROGRAM ALLOWS TO SET A TIME FOR SWITCHING THE PUMP ON AND OFF FOR EVERY DAY OF THE WEEK. TWO DAILY SLOTS GUARANTEE MAXIMUM FLEXIBILITY



AUTOMATIC WASHING LINE

THANKS TO THE "AUTOMATIC WASHING" PROGRAM THE HIGH PRESSURE LINES ARE AUTOMATICALLY SANITIZED WHENEVER THE DANGER OF BACTERIA SUCH AS LEGIONELLA COULD ARISE.



4 AUTO PROGRAMS

THANKS TO THE SOPHISTICATED EDDY5 PROCESSOR AND TO THE "AUTO PROGRAM" THE ATOMIZING PUMP CAN ALWAYS AUTOMATICALLY DOSE THE CORRECT AMOUNT OF WATER FOR PROPER COOLING AND SUITABLE HUMIDIFICATION ACCORDING TO THE AMBIENT TEMPERATURE,

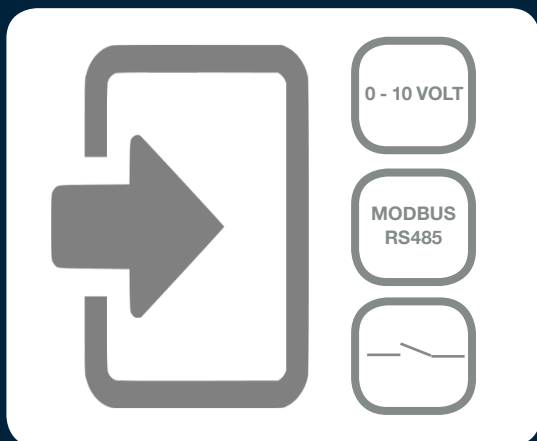
KILLER FEATURES



DIGITAL PRESSURE AND FLOW RATE MEETERS

ON THE LARGE DISPLAY IS ALWAYS DISPLAYED IN REAL TIME THE PRESSURE AND CONSUMPTION OF WATER SO YOU CAN ALWAYS CHECK THE CORRECT OPERATION OF THE PUMP.

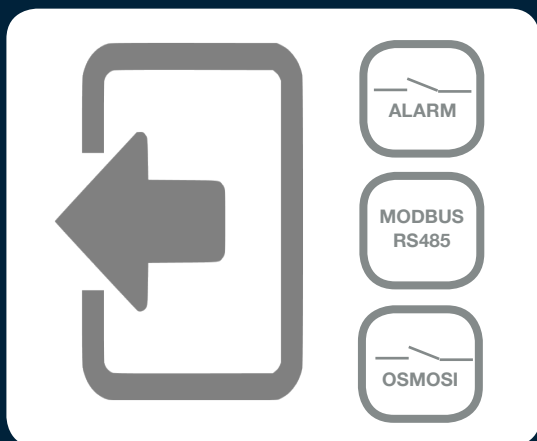
SOPHISTICATED ALARMS CAN BE ACTIVATED IN CASE OF LOW / HIGH PRESSURE AND FLOW RATE.



VARIOUS INPUT OPTIONS

THE EDDY5 ELECTRONIC BOARD CAN BE MANAGED BY VARIOUS EXTERNAL DEVICES USING DIFFERENT INPUTS:

- MODBUS (SLAVE AND MASTER) RS485 COMMUNICATION PROTOCOL (BMS)
- 0-10 VOLTS
- REMOTE CONTACT ON / OFF



VARIOUS OUTPUT OPTIONS

THE EDDY5 ELECTRONIC BOARD HAVE MULTIPLY OUTPUT CONNECTIONS FOR VARIOUS DEVICES AND FUNCTIONS:

- MODBUS (SLAVE AND MASTER) RS485 COMMUNICATION PROTOCOL (BMS)
- REMOTE CONTACT FOR ALARM SIGNALS AS LIGHT, SIREN ETC...
- RO SYSTEMS



DATALOGGER FOR EVENT RECORDS

THE ATOMIZING PUMPS WITH ELECTRONIC BOARD EDDY5 RECORD IN REAL TIME ALL THE SETTINGS, THE SET POINTS, THE VALUES OF AMBIENT HUMIDITY, THE ELECTRICAL ABSORPTION, THE ALARMS ETC ... AND BE ABLE TO DOWNLOAD THEM VIA USB PORT FOR A SUBSEQUENT CONSULTATION. USEFUL FUNCTION IN CASE OF VERIFICATION OF THE WORKING CONDITIONS OF THE PUMP.

SPRAY SERIES

E342



Spray is 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 lines configurable as required. The best compromised between price/quality.

10 YEARS
GUARANTEE



Made In Italy

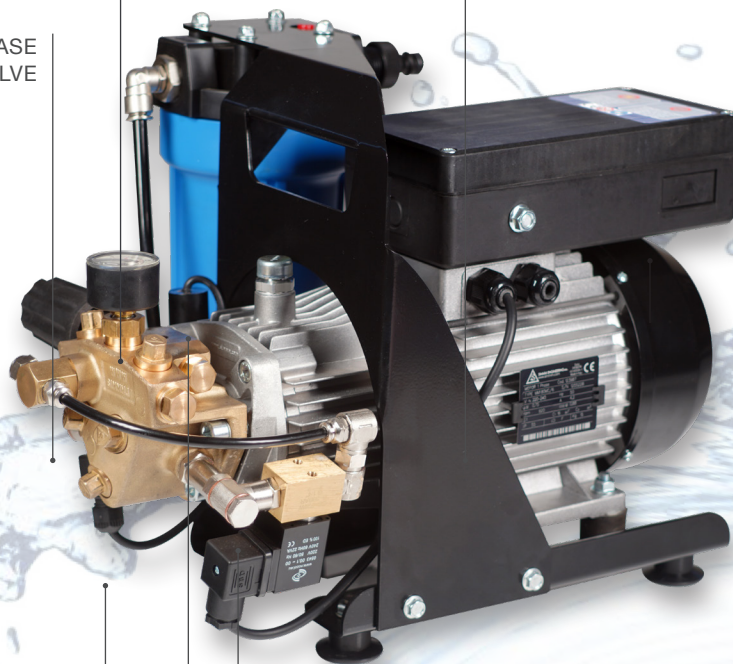
HIGH PRESSURE RELEASE
SOLENOID VALVE



DRAIN
BUILT-IN SYSTEM
NOT NEED
EXTERNAL
DISCHARGE

5 MICRON FILTER

PAINTED STEEL HANDLE
FOR EASY TRANSPORTATION



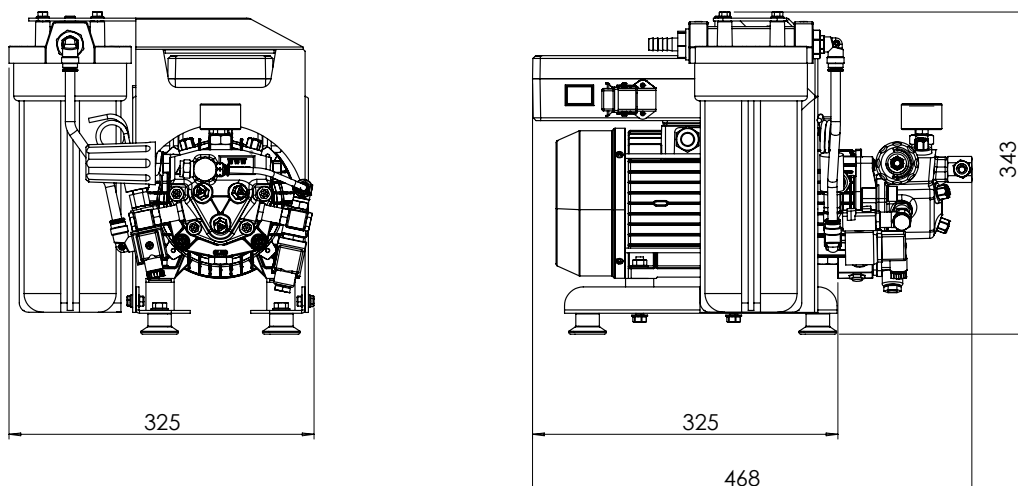
AXA SIMMM PUMP
900 RPM MOTOR < 50 dB
OPTIMIZED FOR INDUSTRIAL
INSTALLATIONS

FLOW RATE VALVE
(PRESSURE REGULATOR)



INLINE SOLENOID VALVE





TECHNICAL DATA

- SIMMM pump AXA model with no overheating system (TUV and CE approved)
- Patented flow rate valve (large range of nozzle numbers with the same model)
- Max working pressure up to 105 bar
- Professional gauge
- Water seals in viton
- Coated ceramic piston
- SS valves
- Safety water pressure switch (water loss)
- In line low pressure solenoid valve
- High pressure release solenoid valve
- "H" class motor with 900 rpm
- Thermal protection
- Lowest noise level 50 dB
- Painted steel frame
- Electric plug as standard



MODEL	E342
PRESSIONE (BAR)	70-105
NOZZLES NUMBER (0.2 MM)	10-90
PUMP	SIMMM AXA
MIN FLOW RATE (LT/MIN)	0.5
MAX FLOW RATE (LT/MIN)	7.7
MOTOR SPEED (RPM)	900
VOLTAGE (VOLT)	230/115 50/60Hz.*
POWER (KW/H)	0.92
MAX DAILY USE (HOURS)	24
WEIGHT (KG)	28
DIMENSIONS LXHXXP (CM)	50x39.5x23©

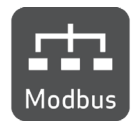
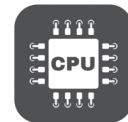
* ON REQUEST

SPRAY ADVANCE SERIES



E346

Spray advance is 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 lines configurable as required. The new control panel called Lucky3 enables rapid and precise settings of work times and management of any optional sensors connected.



T/H Bluetooth

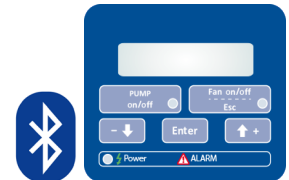
<50dB

24H

105 Bar

Modbus

Made In Italy



5 MICRON FILTER

PAINTED STEEL HANDLE FOR EASY TRANSPORTATION

LUCKY 3 CONTROL PANEL
 - CICLYNG TIMER
 - 4 AUTO PROGRAMS
 - LIFE TIME PUMP/FANS
 - REMOTE CONTROL
 - DIGITAL DISPLAY
 - TEMPERATURE AND HUMIDITY PROBE
 - MANAGEMENT BY SMATHPHONE (AVAILABLE SOON)

HIGH PRESSURE RELEASE SOLENOID VALVE



DRAIN BUILT-IN SYSTEM NOT NEED EXTERNAL DISCHARGE

BACK CONNECTOR FOR FANS AND REMOTE COMTACT

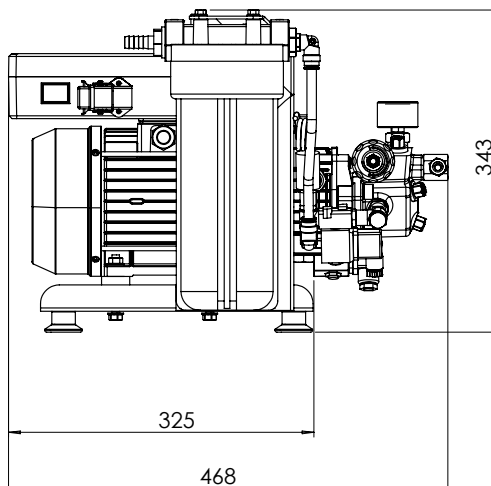
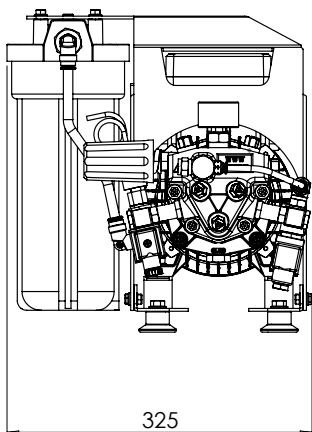


AXA SIMMM PUMP
 900 RPM MOTOR < 50 dB
 OPTIMIZED FOR INDUSTRIAL INSTALLATIONS

FLOW RATE VALVE (PRESSURE REGULATOR)



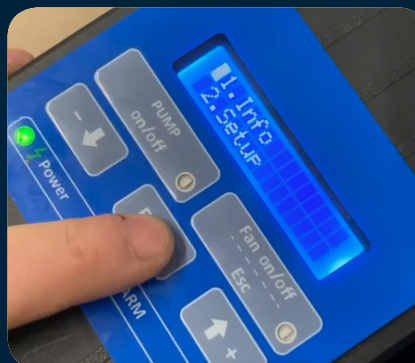
INLINE SOLENOID VALVE SAFETY DIFITAL PRESSURE READER



TECHNICAL DATA

- SIMMM pump AXA model with no overheating system (TUV and CE approved)
- Patented flow rate valve (large range of nozzle numbers with the same model)
- Max working pressure up to 105 bar
- Professional gauge
- Water seals in viton
- Coated ceramic piston
- SS valves
- Safety water pressure switch (water loss)
- In line low pressure solenoid valve
- High pressure release solenoid valve
- “H” class motor with 900 rpm
- Thermal protection
- Lowest noise level 50 dB
- Low voltage control panel (12 volt)
- Radio remote control
- Digital cycling timer
- Pump and fan life time counter
- Pump overheating warning alarm
- Connection for remote control
- Modbus RS485 (BMS) connection

- Management by smartphone (available soon)
- Auto programs
- Temperature and humidity probe (available soon)
- External misting fan socket (230 volt-10 A)
- Painted steel frame
- Graphic alarm warning on display
- No water alarm
- Maintenance alarm
- Electric plug as standard



MODEL	E346
PRESSIONE (BAR)	70-105
NOZZLES NUMBER (0.2 MM)	10-90
PUMP	SIMMM AXA
MIN FLOW RATE (LT/MIN)	0.5
MAX FLOW RATE (LT/MIN)	7.7
MOTOR SPEED (RPM)	900
VOLTAGE (VOLT)	230/115 50/60Hz.*
POWER (KW/H)	0.92
MAX DAILY USE (HOURS)	24
WEIGHT (KG)	28
DIMENSIONS LXHXP (CM)	50x39.5x23©

* ON REQUEST

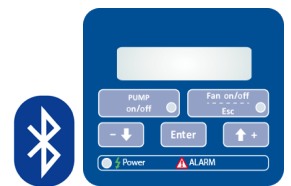
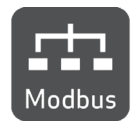
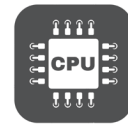
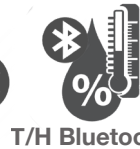
PROFY ADVANCE SERIES



E348

The Profy advance was created to respond to medium and large scale needs. It comes equipped with remote control and illustrated electronics for the management of mist flow. They have been designed for spaces private companies or businesses that do not require automatic temperature control.

The special patented AXA axial type pump allows for silent operation, with minimum and variable flows when required. The structure of the misting module is very compact painted steel frame. Thanks to the digital management of the working times.



- LUCKY 3 CONTROL PANEL**
- CICLYNG TIMER
 - 4 AUTO PROGRAMS
 - LIFE TIME PUMP/FANS
 - REMOTE CONTROL
 - DIGITAL DISPLAY
 - SMART CONNECTION TO SMATHPHONE (AVALABLE SOON)

HIGH PRESSURE RELEASE SOLENOID VALVE



DRAIN BUILT-IN SYSTEM NOT NEED EXTERNAL DISCHARGE

PAINTED STEEL HANDLE FOR EASY TRANSPORTATION

FLOW RATE VALVE (PRESSURE REGULATOR)

BACK CONNECTOR FOR FANS



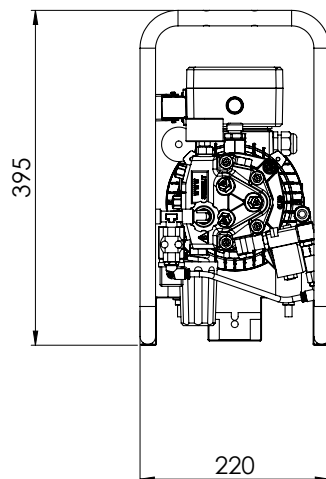
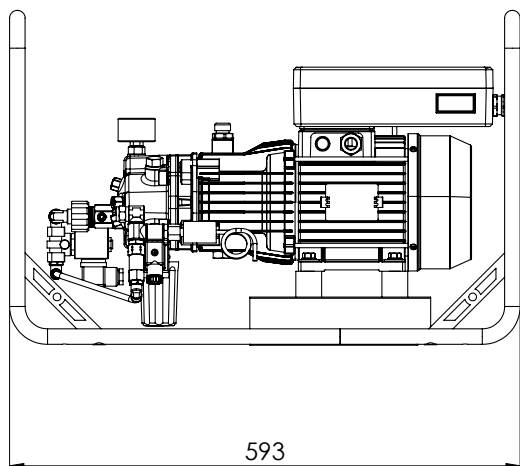
AXA SIMMM PUMP
900 RPM MOTOR < 50 dB
OPTIMIZED FOR INDUSTRIAL INSTALLATIONS

INLINE SOLENOID VALVE

SAFETY DIGITAL PRESSUIRE READER

5 MICRON DETACHABLE FILTER WITH WALL SUPPORT (OPTIONAL)





TECHNICAL DATA

- SIMMM pump AXA model with no overheating system (TUV and CE approved)
- Patented flow rate valve (large range of nozzle numbers with the same model)
- Max working pressure up to 105 bar
- Professional gauge
- Water seals in viton
- Coated ceramic piston
- SS valves
- Safety water pressure switch (water loss)
- In line low pressure solenoid valve
- High pressure release solenoid valve
- "H" class motor with 900 rpm
- Thermal protection
- Lowest noise level 50 dB
- Low voltage control panel (12 volt)
- Radio remote control
- Digital cycling timer
- Pump and fan life time counter
- Pump overheating warning alarm
- Connection for remote control
- Modbus RS485 (BMS) connection
- Management by smartphone (available soon)
- Auto programs
- Temperature and humidity probe (available soon)
- External misting fan socket (230 volt-10 A)
- Painted steel frame
- Graphic alarm warning on display
- No water alarm
- Maintenance alarm
- Electric plug as standard



MODEL	E348
PRESSIONE (BAR)	70-105
NOZZLES NUMBER (0.2 MM)	10-90
PUMP	SIMMM AXA
MIN FLOW RATE (LT/MIN)	0.5
MAX FLOW RATE (LT/MIN)	7.7
MOTOR SPEED (RPM)	900
VOLTAGE (VOLT)	230/115 50/60Hz.*
POWER (KW/H)	0.92
MAX DAILY USE (HOURS)	24
WEIGHT (KG)	28
DIMENSIONS LXHPX (CM)	58x39.5x23.5

* ON REQUEST

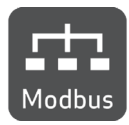
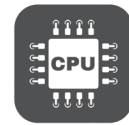
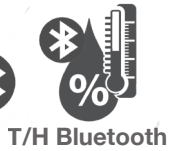
MISTY ADVANCE SERIES

E347



The Misty advance was created to respond to small and medium scale needs and comes equipped with remote control and illustrated electronics for the management of mist flow. They have been designed for small spaces private companies or businesses that do not require automatic temperature control.

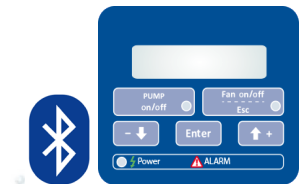
The special patented AXA axial type pump allows for silent operation, with minimum and variable flows when required. Thanks to the digital management of the working times which can be activated by pushing two simple buttons it is possible to adjust atomisation to the different conditions of the day.



PAINTED CABINET
WIT NO CORROSION
TREATMENT.

INSIDE COOLING FAN

HIGH PRESSURE RELEASE
SOLENOID VALVE



NEW
DRAIN
BUILT-IN SYSTEM
NOT NEED
EXTERNAL
DISCHARGE

- LUCKY 3 CONTROL PANEL
- CICLYNG TIMER
 - 4 AUTO PROGRAMS
 - LIFE TIME PUMP/FANS
 - REMOTE CONTROL
 - DIGITAL DISPLAY
 - SMART CONNECTION TO SMATHPHONE (AVALABLE SOON)

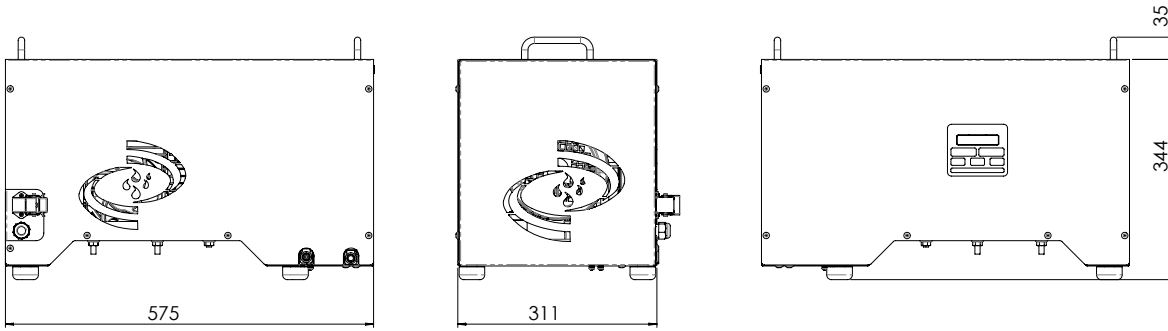
BACK CONNECTOR
FOR FANS



5 MICRON DETACHABLE FILTER
MOUNTED ON PUMP (OPTIONAL)

AXA SIMMM PUMP
900 RPM MOTOR 50 dB





TECHNICAL DATA

- SIMMM pump AXA model with no overheating system (TUV and CE approved)
- Patented flow rate valve (large range of nozzle numbers with the same model)
- Max working pressure up to 105 bar
- Professional gauge
- Water seals in viton
- Coated ceramic piston
- SS valves
- Safety water pressure switch (water loss)
- In line low pressure solenoid valve
- High pressure release solenoid valve
- "H" class motor with 900 rpm
- Thermal protection
- Lowest noise level 50 dB
- Low voltage control panel (12 volt)
- Radio remote control
- Digital cycling timer
- Pump and fan life time counter
- Pump overheating warning alarm
- Connection for remote control
- Modbus RS485 (BMS) connection
- Management by smartphone (available soon)
- Auto programs
- Temperature and humidity probe (available soon)
- External misting fan socket (230 volt-10 A)
- Painted steel frame
- Graphic alarm warning on display
- No water alarm
- Maintenance alarm
- Electric plug as standard



MODEL	E347
PRESSIONE (BAR)	70-105
NOZZLES NUMBER (0.2 MM)	10-90
PUMP	SIMMM AXA
MIN FLOW RATE (LT/MIN)	0.5
MAX FLOW RATE (LT/MIN)	7.7
MOTOR SPEED (RPM)	900
VOLTAGE (VOLT)	230/115 50/60Hz.*
POWER (KW/H)	0.92
MAX DAILY USE (HOURS)	24
WEIGHT (KG)	28
DIMENSIONS LXHPX (CM)	58x39.5x23.5

* ON REQUEST

HPro SERIES

E304 | E298 | E299 | E300



Designed for industrial or business environments the HPro Misting module provides for precise solutions for installation of medium and large dimension, The patented mechanics with axial cam combined with a high efficiency pumping unit is supported by

electronic management by means of a further enhanced Soft Touch electronic board. The unit is contained in a AISI 304 stainless steel chassis equipped with a cooling fan.

- 10 YEARS
GUARANTEE
- Web
- Multi
probe
- <50dB icon"/>
<50dB
- Water loss
alarm
- 24H
- 105 Bar
- CPU
- Modbus



EDDY 5
CONTROL PANEL

REMOTE PANELS OVER IP



WEB INTERFACE
CONTROL BY TABLET
PC AND SMARTPHONE

RJ45 ETHERNET
PLUG



DIG. PRESSURE READER

HIGH PRESSURE RELEASE
SOLENOID VALVE



NEW
DRAIN
BUILT-IN SYSTEM
NOT NEED
EXTERNAL
DISCHARGE



DIG. FLOW RATE MEETER

INSIDE COOLING FAN (2)



AXA SIMMM PUMP
900 RPM MOTOR < 50 dB

RO SYSTEM AND REMOTE
ON/OFF CONTROL

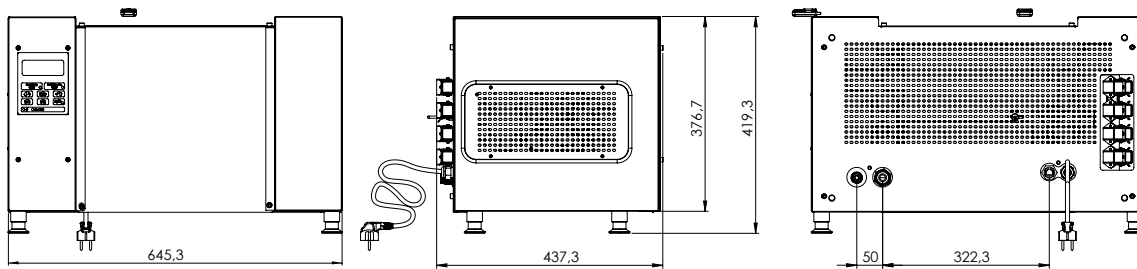
SOCKETMODBUS RS485
DIGITAL INTERFACE

FANS SOCHET
(230/115 VOLT - 10 AMPS)



HUMIDITY/TEMPERATURE PROBE
MAX 4 WITH MULTI READING





- SIMMM pump AXA model with no overheating system (CE approved)
- Patented flow rate valve (large range of nozzle numbers with the same model)
- Max working pressure up to 105 Bar
- Professional gauge
- Water seals in viton
- Safety water pressure switch
- High pressure release solenoid valve
- "H" class motor with low speed (900 rpm)
- Lowest noise level 50 dB
- Low voltage control panel (12 volt)
- Radio remote control
- Digital cycling timer
- Digital water litre counter
- Digital pressure reader
- Temperature and humidity program
- Weekly timer
- Control via LAN, by any smartphone, tablet, PC or Mac
- Digital alarms with display warning message sent by SM or by Email
- Washing line high pressure solenoid valve
- Automatic fan On/Off switch (230 volt plug built-in)
- Auto program "A" adjusting the cooling power based on temperature
- Auto program "B" adjusting the cooling power based on humidity
- Auto program "C" humidity management from
- Auto program "D" humidity management with AHU control
- Self-diagnosis
- Soft touch panel
- Notification program (with alert by email or sms)
- Soft start to reduce start-up current

- Anti-Legionella Pneumophila automatic system equipped with certified products
- Built-in cooling fan
- Reverse Osmosis connection socket
- Remote on/off control
- Multiply control panels over IP ethernet connections
- Datalogger of all the pump parameters
- Firmware update
- Remote on/off control
- Alarms database record (last 10 alarms)
- Digital alarms with display warning message sent by SMS or by Email:
 - Water Loss
 - High pressure water leaking
 - Pump overheating
 - Motor overload
 - Maintenance time notification (oil change, seals check etc..)
 - Low/max flow rate
 - Low temperature in the pipes (Ice)
- Remote access capability: from any tablet, computer is possible manage the pumps everywhere thanks to internal GPRS module
- Modbus rs 485 (bms) communication protocols
- Simultaneous Temp/hum probes connection (max 4) for a better humidification
- In line 0-10 input for UTA control
- Out connection for siren or light in case of alarm
- 4 different automatic programs for cooling and humidity control

MODEL	E304	E298	E299	E300
PRESSIONE (BAR)	70-105	70-105	70/105	70/105
NOZZLES NUMBER (0.2 MM)	5-40	30-70	50-100	100-350
PUMP	SIMMM AXA	SIMMM AXA	SIMMM AXA	SIMMM AXA
MIN FLOW RATE (LT/MIN)	0.5	2.5	3.9	7.8
MAX FLOW RATE (LT/MIN)	3.5	6	7.8	30
MOTOR SPEED (RPM)	900	900	900	1.450
VOLTAGE (VOLT)	230/115 50/60 Hz.*	230/115 50/60 Hz.*	230/115 50/60Hz.*	230/115 50/60Hz.*
POWER (KW/H)	0.92	0.92	2.60	2.90
MAX DAILY USE (HOURS)	24	24	24	24
WEIGHT (KG)	36	36	36	36
DIMENSIONS LXHPX (CM)	65x44x42	65x44x42	65x44x42	65x44x42

* ON REQUEST

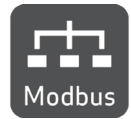
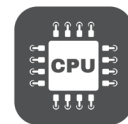
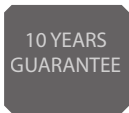
HPro VFD SERIES

E305 | E306 | E307



Designed for industrial or business environments the HPro Misting module provides for precise solutions for installation of medium and large dimension, The patented mechanics with axial cam combined with a high efficiency pumping unit is supported by

electronic management by means of a further enhanced Soft Touch electronic board. The unit is contained in a AISI 304 stainless steel chassis equipped with a cooling fan.



EDDY 5 CONTROL PANEL

REMOTE PANELS OVER IP



WEB INTERFACE CONTROL BY TABLET PC AND SMARTPHONE

RJ45 ETHERNET PLUG

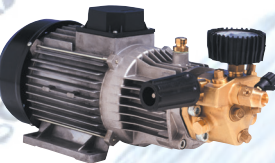


DIG. PRESSURE READER

HIGH PRESSURE RELEASE SOLENOID VALVE



NEW DRAIN BUILT-IN SYSTEM NOT NEED EXTERNAL DISCHARGE



AXA SIMMM PUMP 900 RPM MOTOR < 50 dB



DIG. FLOW RATE MEETER

INSIDE COOLING FAN (2)



RO SYSTEM AND REMOTE ON/OFF CONTROL

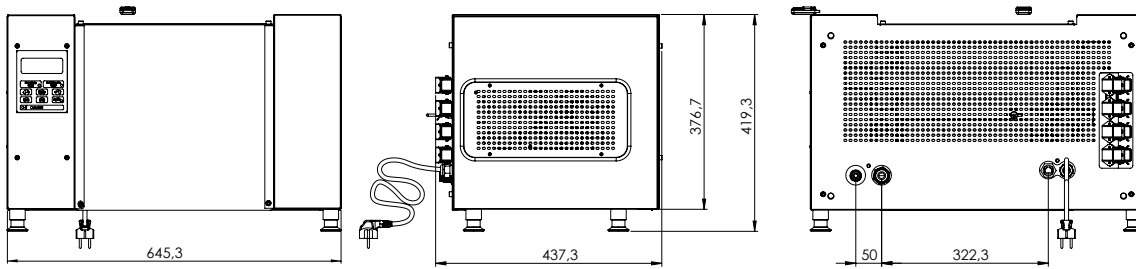
SOCKETMODBUS RS485 DIGITAL INTERFACE

FANS SOCHET (230/115 VOLT - 10 AMPS)



HUMIDITY/TEMPERATURE PROBE MAX 4 WITH MULTI READING





- SIMMM pump AXA model with no overheating system (CE approved)
Patented flow rate valve (large range of nozzle numbers with the same model)
- Max working pressure up to 105 Bar
- Professional gauge
- Water seals in viton
- Safety water pressure switch
- High pressure release solenoid valve
- “H” class motor with low speed (900 rpm)
- Lowest noise level 50 dB
- Low voltage control panel (12 volt)
- Radio remote control
- Digital cycling timer
- Digital water litre counter
- Digital pressure reader
- Temperature and humidity program
- Weekly timer
- Control via LAN, by any smartphone, tablet, PC or Mac
- Digital alarms with display warning message sent by SM or by Email
- Washing line high pressure solenoid valve
- Automatic fan On/Off switch (230 volt plug built-in)
- Auto program "A" adjusting the cooling power based on temperature
- Auto program "B" adjusting the cooling power based on humidity
- Auto program "C" humidity management from
- Auto program "D" humidity management with AHU control
- Self-diagnosis
- Soft touch panel
- Notification program (with alert by email or sms)
- Professional Frequency Variable Drive (VFD) management
- Soft start to reduce start-up current

- AISI 304 stainless steel cabinet
- Drain built-in system - not need external discharge
- Anti-Legionella Pneumophila automatic system equipped with certified products
- Built-it cooling fan
- Reverse Osmosi connection socket
- Remote on/off control
- Multiply control panels over IP ethernet connections
- Datalogger of all the pump parameters
- Firmware update
- Remote on/off control
- Modbus RS485 digital interface
- Alarms database record (last 10 alarms)
- Digital alarms with display warning message sent by SMS or by Email:
 - Water Loss
 - High pressure water leaking
 - Pump overheating
 - Motor overload
 - Maintenance time notification (oil change, seals check etc..)
 - Low/max flow rate
 - Low temperature in the pipes (Ice)
- Remote access capability: from any tablet, computer is possible manage the pumps everywhere thanks to internal GPRS module
- Modbus rs 485 (bms) comunciation protocols
- Simultaneous Temp/hum probes connection (max 4) for a better humidification

MODEL	E305	E306	E307
PRESSIONE (BAR)	70-105	70-105	70-105
NOZZLES NUMBER (0.2 MM)	10-60	20-150	60-400
PUMP	SIMMM AXA	SIMMM AXA	SIMMM AXA
MIN FLOW RATE (LT/MIN)	1.2	1.90	5.70
MAX FLOW RATE (LT/MIN)	4.68	9.8	36
MOTOR SPEED (RPM)	1.450	1.450	1.450
VOLTAGE (VOLT)	230/115 50/60 Hz.*	230/115 50/60 Hz.*	230/115 50/60 Hz.*
POWER (KW/H)	0.92	0.92	2.90
MAX DAILY USE (HOURS)	24	24	24
WEIGHT (KG)	36	36	36
DIMENSIONS LXHXXP (CM)	65x44x42	65x44x42	65x44x42

* ON REQUEST

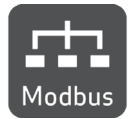
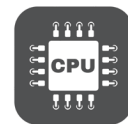
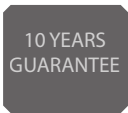
HPro VFD Mz SERIES

E302 | E303 | E308



Designed for industrial or business environments the HPro Misting module provides for precise solutions for installation of medium and large dimension, The patented mechanics with axial cam combined with a high efficiency pumping unit is supported by

electronic management by means of a further enhanced Soft Touch electronic board. The unit is contained in a AISI 304 stainless steel chassis equipped with a cooling fan.



EDDY 5 CONTROL PANEL

REMOTE PANELS OVER IP



WEB INTERFACE CONTROL BY TABLET PC AND SMARTPHONE

RJ45 ETHERNET PLUG



DIG. PRESSURE READER

HIGH PRESSURE RELEASE SOLENOID VALVE



NEW DRAIN BUILT-IN SYSTEM NOT NEED EXTERNAL DISCHARGE



AXA SIMMM PUMP
900 RPM MOTOR < 50 dB



DIG. FLOW RATE MEETER

INSIDE COOLING FAN (2)



RO SYSTEM AND REMOTE ON/OFF CONTROL

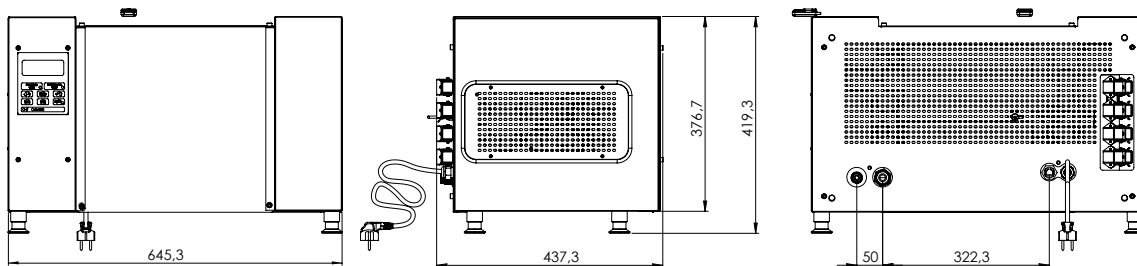
SOCKETMODBUS RS485 DIGITAL INTERFACE

FANS SOCHET (230/115 VOLT - 10 AMPS)



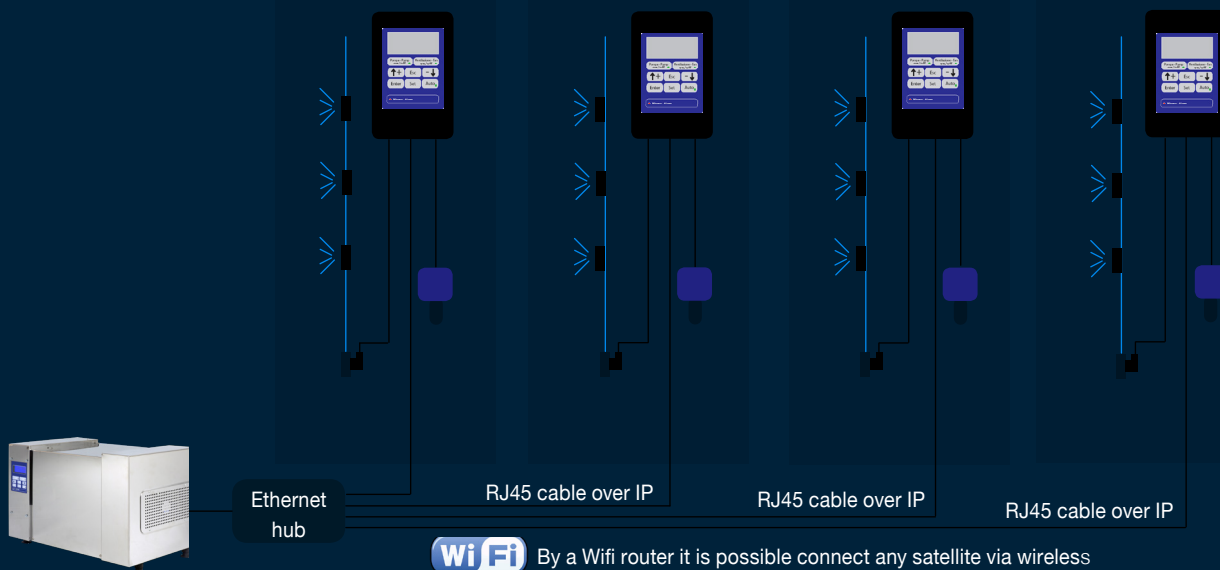
HUMIDITY/TEMPERATURE PROBE MAX 4 WITH MULTI READING





TECHNICAL DATA

- SIMMM pump AXA model with no overheating system (CE approved)
- Patented flow rate valve (large range of nozzle numbers with the same model)
- Max working pressure up to 105 Bar
- Professional gauge
- Safety water pressure switch
- High pressure release solenoid valve
- “H” class motor with low speed (900 rpm)
- Thermal protection
- Lowest noise level 50 dB
- Low voltage control panel (12 volt)
- Radio remote control
- Digital cycling timer
- Digital water litre counter
- Digital pressure reader
- Temperature and humidity program
- AISI 304 stainless steel cabinet
- Built-in cooling fan
- Anti-Legionella Pneumophila automatic system equipped with certified products
- Reverse Osmosi connection socket
- Remote on/off control
- Multiply control panels over IP ethernet connections
- Datalogger of all the pump parameters
- Firmware update
- Remote on/off control
- Modbus RS485 digital interface
- Weekly timer
- Control via LAN, by any smartphone, tablet, PC or Mac
- Digital alarms on display warning message sent by SMS or by Email
- Washing line high pressure solenoid valve
- Automatic fan On/Off switch (230 volt plug built-in)
- Auto program
- Self-diagnosis
- Digital alarms with display warning message
- Soft touch panel
- High efficiency VFD



MODEL	E302	E303	E308
PRESSIONE (BAR)	70-105	70-105	70-105
NOZZLES NUMBER (0.2 MM)	10-60	20-150	60-400
PUMP	SIMMM AXA	SIMMM AXA	SIMMM AXA
MIN FLOW RATE (LT/MIN)	1.2	1.90	5.70
MAX FLOW RATE (LT/MIN)	4.68	9.8	36
MOTOR SPEED (RPM)	1.450	1.450	1.450
VOLTAGE (VOLT)	230/115 50/60 Hz.*	230/115 50/60 Hz.*	230/115 50/60 Hz.*
POWER (KW/H)	0.92	0.92	2.90
MAX DAILY USE (HOURS)	24	24	24
WEIGHT (KG)	36	36	36
DIMENSIONS LxHxP (CM)	65x44x42	65x44x42	65x44x42

* ON REQUEST

AXB SERIES

AXB3.20 | AXB10.70 | AXB50.100



Designed for commercial environments, the AXB series misting pump provides precise solutions for environments of small and medium dimensions. The patented mechanics with Axial cam combined with high efficiency pumping unit is supported by a flow rate valve.

The use of this product is therefore targeted at domestic/commercial users requiring reliability, efficiency and continuity of operation for up to 8 hours per day.

HIGH PERFORMANCE ELECTRIC MOTOR

- "H" CLASS
- LOW SPEED 900 RPM < 50 DB
- IP54
- INTEGRATED VENTILATION

PROFESSIONAL PRESSURE GAUGE



OPTIONAL DEVICES

- HIGH PRESSURE NO SOLENOID VALVE FOR WATER DRAIN
- LOW PRESSURE IN LINE NC SOLENOID VALVE
- SAFETY PRESSURE SWITCH
- STEEL PAINTED BLACK HANDLE FRAME

- PATENTED AXIAL PUMP
- BRASS HEAD
- FLOW RATE VALVE
- PRESSURE REGULATION



TECHNICAL DATA

- SIMMM pump AXB model with (CE approved)
- Patented flow rate valve (large range of nozzle numbers with the same model)
- Adjustable pressure up to 105 Bar
- Professional gauge
- Water seals in viton
- “H” class motor 6 pole low speed (900 rpm)
- Lowest noise level < 50 dB.

OPTIONAL DEVICES

- High pressure NO solenoid valve for water drain
- Low pressure in line NO solenoid valve
- Safety pressure switch
- Steel painted black handle frame



BENEFITS

Efficiency – Low speed 900 rpm motor with lower current consumption and longer reliability

Flexibility – Single pump with larger flow rate from few nozzle to large quantity

Expansion – Possibility to use more pumps in parallel for highest flow rate

Environmental – Lower motor speeds reduce operating noise and heat. Less power use is better for the environment.

Robustness – Brass head pump

MODEL	AXB3.20	AXB10.70	AXB50.100
PRESSIONE (BAR)	70-105	70/105	70/105
NOZZLES NUMBER (0.2 MM)	3-20	10-70	50-100
PUMP	SIMMM AXB	SIMMM AXB	SIMMM AXB
MIN FLOW RATE (LT/MIN)	0.3	0.80	3.3
MAX FLOW RATE (LT/MIN)	1.9	5.9	7.7
MOTOR SPEED (RPM)	900	900	900
VOLTAGE (VOLT)	230/115 50/60 Hz.*	230/115 50/60Hz.*	230/115 50/60Hz.*
POWER (KW/H)	0.48	0.92	0.92
MAX DAILY USE (HOURS)	8	8	8
WEIGHT (KG)	15	15	15
DIMENSIONS LXHXXP (CM)	49x32x21	49x32x21	49x32x21

* ON REQUEST

AXA SERIES

AXA5.40 | AXA30.70 | AXA50.100 | AXA.100.350



Designed for industrial or business environments, the AXA series misting pump provides precise solutions for environments of medium and large dimensions. The patented mechanics with Axial cam combined with high efficiency pumping unit is supported by a flow rate valve.

The use of this product is therefore targeted at professional users requiring reliability, efficiency and continuity of operation for up to 16 hours per day.

10 YEARS
GUARANTEE



<50dB



24H

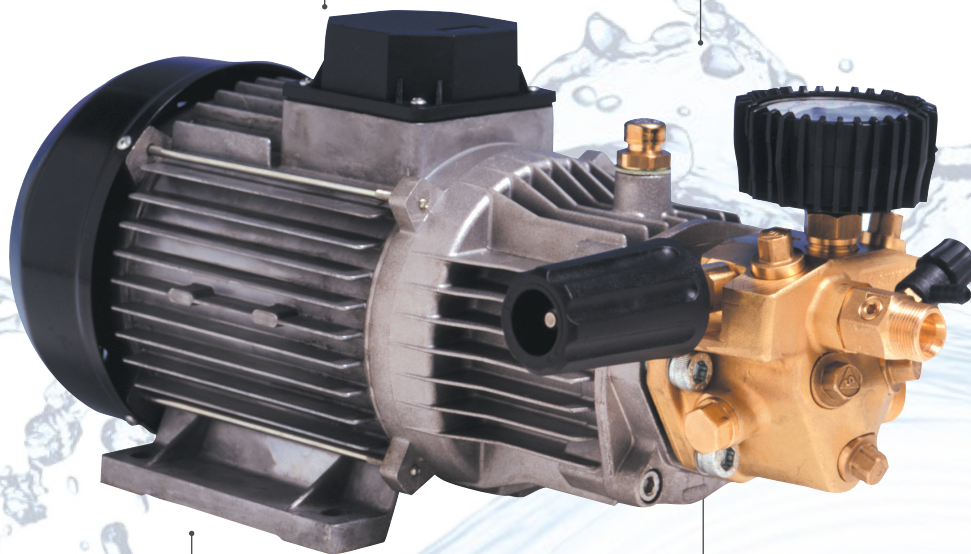


105 Bar

HIGH PERFORMANCE ELECTRIC MOTOR

- "H" CALSS
- LOW SPEED 900 RPM < 50 DB
- IP54
- INTEGRATED VENTILATION

PROFESSIONAL PRESSURE GAUGE WITH RUBBER PROTECTION



OPTIONAL DEVICES

- HIGH PRESSURE NO SOLENOID VALVE FOR WATER DRAIN
- LOW PRESSURE IN LINE NC SOLENOID VALVE
- SAFETY PRESSURE SWITCH
- STEEL PAINTED BLACK HANDLE FRAME

PATENTED AXIAL PUMP

- BRASS HEAD
- STAINLESS STEEL VALVES
- COATED CERAMIC PISTON
- FLOW RATE VALVE
- PRESSURE REGULATION



TECHNICAL DATA

- SIMMM pump AXA model with (CE approved)
- Patented flow rate valve (large range of nozzle numbers with the same model)
- Adjustable pressure up to 105 Bar
- Professional gauge
- Water seals in viton
- “H” class motor 6 pole low speed (900 rpm)
- Lowest noise level < 50 dB.

OPTIONAL DEVICES

- High pressure NO solenoid valve for water drain
- Low pressure in line NC solenoid valve
- Safety pressure switch
- Steel painted black handle frame

BENEFITS

Efficiency – Low speed 900 rpm motor with lower current consumption and longer reliability

Flexibility – Single pump with larger flow rate from few nozzle to large quantity

Expansion – Possibility to use more pumps in parallel for highest flow rate

Environmental – Lower motor speeds reduce operating noise and heat. Less power use is better for the environment.

Robustness – Brass head pump with ceramic piston and stainless steel valves



MODEL	AXA5.40	AXA30.70	AXA50.100	AXA100.350
PRESSIONE (BAR)	70-105	70-105	70/105	70/105
NOZZLES NUMBER (0.2 MM)	5-40	30-70	50-100	100-350
PUMP	SIMMM AXA	SIMMM AXA	SIMMM AXA	SIMMM AXA
MIN FLOW RATE (LT/MIN)	0.5	2.5	3.9	7.8
MAX FLOW RATE (LT/MIN)	3.5	6	7.8	30
MOTOR SPEED (RPM)	900	900	900	1.450
VOLTAGE (VOLT)	230/115 50/60 Hz.*	230/115 50/60 Hz.*	230/115 50/60Hz.*	230/115 50/60Hz.*
POWER (KW/H)	0.92	0.92	2.60	2.90
MAX DAILY USE (HOURS)	16	16	16	16
WEIGHT (KG)	36	36	36	36
DIMENSIONS LXHX (CM)	65x44x42	65x44x42	65x44x42	65x44x42

* ON REQUEST

AXA VFD SERIES

AXAVFD10.60 | AXAVFD20.100 | AXAVFD20.400



Designed for industrial or business environments, the AXA VFD series misting pump provides precise solutions for environments of medium and large dimensions. The patented mechanics with Axial cam combined with high efficiency pumping unit is supported by electronic management thanks to a soft touch electronic board. AXA VFD is suitable for automatic management of single and multiple zones simultaneously.

The use of this product is therefore targeted at professional users requiring reliability, efficiency and continuity of operation for up to 16 hours per day.

Made In Italy

STANDARD FEATURES

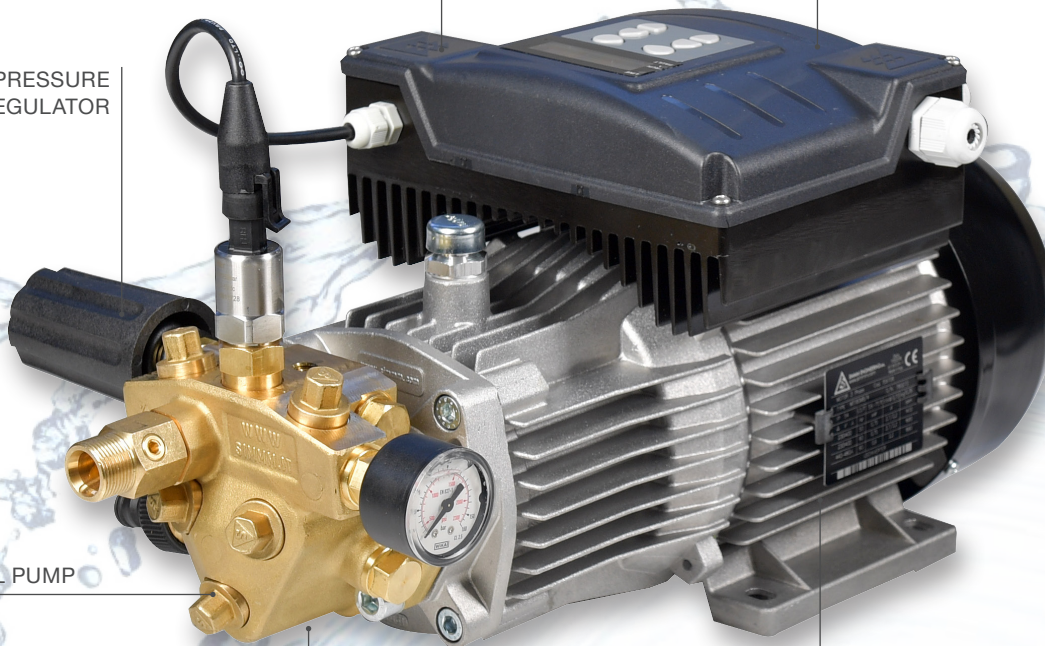
- SOFT TOUCH PANEL
- CYCLING TIMER
- OVERLOAD ALARM
- OVERHEATING ALARM
- WATER LOSS ALARM
- WORKING TIME COUNTER
- REMOTE CONTACT

PROFESSIONAL VARIABLE FREQUENCY DRIVE (VFD) WITH LARGE DISPLAY

- LOW VOLTAGE CONTROL
- MANAGED BY CPU

MANUAL PRESSURE REGULATOR

AXA SIMMM PROFESSIONAL PUMP



OPTIONAL DEVICES

- HIGH PRESSURE NC SOLENOID VALVE FOR WATER DRAIN
- LOW PRESSURE IN LINE NC SOLENOID VALVE
- SAFETY PRESSURE SWITCH
- STEEL PAINTED BLACK HANDLE FRAME

"H" CLASS HIGH EFFICIENCY ELECTRIC MOTOR 4 POLE IP54



BENEFITS

Efficiency – Uses standard 240V single phase power to operate a robust 3 phase motor for improved efficiency and cooler running

Flexibility – A single misting pump can cool multiple areas. The speed of the motor is automatically adjusted to maintain constant pressure across single or multiple zones.

Expansion – Additional zones can be added to an existing system without the cost of a new pump.

Savings – VFD systems generally operate at lower motor speeds than constant speed systems. Lower motor speeds mean reduced power consumption, reduced wear and tear, and lower maintenance costs.

Environmental – Lower motor speeds reduce operating noise and heat. Less power use is better for the environment.

Robustness – The inverter protects the pump from minor fluctuations in the power supply.

Protection – Inbuilt protection from high amperage, high temperature and loss of water supply.



TECHNICAL DATA

- SIMMM pump AXA model with (CE approved)
- Patented flow rate valve (large range of nozzle numbers with the same model)
- Adjustable pressure up to 105 Bar
- Professional gauge
- Water seals in viton
- Professional VFD variable frequency driver
- Low voltage control panel managed by CPU
- “H” class motor 4 pole low speed (1.450 rpm)
- Lowest noise level 15 dB @ 10 Hz.

STANDARD FUNCTIONS

- Soft motor start
- Cycling timer
- Overload alarm
- Overheating alarm
- Water loss alarm
- Working time counter
- Remote contact

OPTIONAL DEVICES

- High pressure NC solenoid valve for water drain
- Low pressure in line NC solenoid valve
- Safety pressure switch
- Steel painted black handle frame



MODEL	AXAVFD10.60	AXAVFD20.100	AXAVFD20.400
PRESSURE (BAR)	70	70	70
NOZZLES NUMBER (0.2 MM)	10-60	20-100	20-400
PUMP	SIMMM AXA	SIMMM AXA	SIMMM AXA
MIN FLOW RATE (LT/MIN)	1.1	2.2	2.2
MAX FLOW RATE (LT/MIN)	4.68	8.2	36
MOTOR SPEED (RPM)	1.450	1.450	1.450
VOLTAGE (VOLT)	230/115* 50/60 Hz.	230/115* 50/60 Hz.	230/115* 50/60 Hz.
POWER MAX(AMPS)	3.3	3.3	9
MAX DAILY USE (HOURS)	16	16	16
WEIGHT (KG)	20	20	24
DIMENSIONS LxHxP (CM)	65x44x42	65x44x42	65x44x42

* ON REQUEST

RO SERIES

07.021.A | 07.021.B



How the Reverse Osmosis System Works?
Reverse Osmosis is a process in which dissolved inorganic solids (such as salts) are removed from a solution (such as water). This is accomplished by household water pressure pushing the tap water through a semi permeable membrane. The membrane (which is about as thick as cellophane) allows only the water to pass through, not the impurities or contaminants. These impurities and contaminants are flushed down the drain.

Made In Italy

CONTROL PANEL

CARBON FILTER

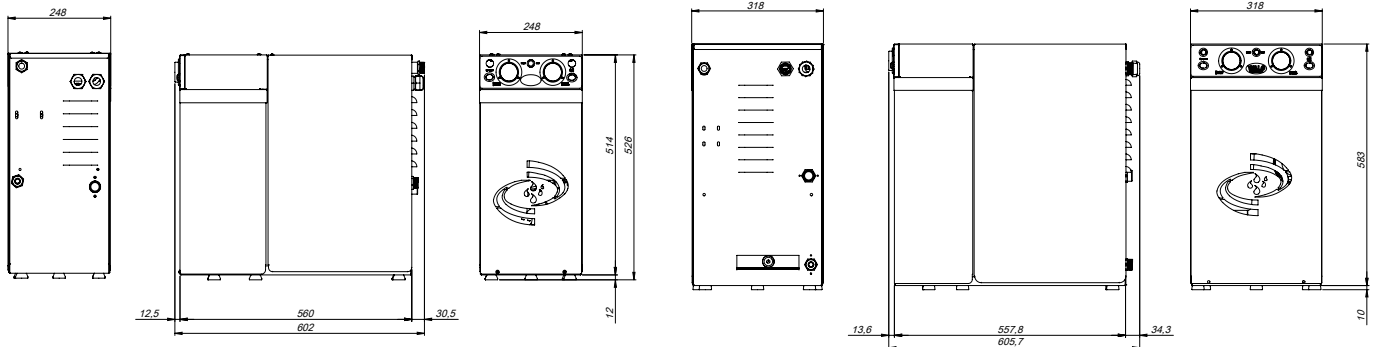
PRESSURE PUMP

DOUBLE MEMBRANES (E300
IN SS ENCLOSURE

5 LT. WATER TANK

BOOSTER PUMP





TECHNICAL DATA

- Cabinet in SS
- Professional Osmosis pump (10 bar)
- SS 5 lt water thank built-in
- 5 Bar booster pump
- Inlet carbon filter
- Membranes easy maintenance
- Autocleaning program
- Up to 300 lt/h (continuous) of pure water
- Electronic control panel
- Low voltage control panel (12 volt)
- Double pressure gauges
- By-pass function
- (CE approved)



MODEL	07.821.A	07.821.B
NO. MEMBRANES	1	2
WATER THANK	5 LT	5 LT
AUTO CLEANING PROGRAM	PRESENT	PRESENT
DIMENSIONS (MM)	248x560x526	318X557X583
WEIGHT (KG.)	19	25
SOUND LEVEL (DB)	<70	<70
TYPE OF INLET WATER	DRINKING WATER	DRINKING WATER
MIN. TEMPERATURE (°C)	5	5
MAX TEMPERATURE (°C)	45	45
TENSION (VOLT)	115/230 VOLT 50/60 HZ.*	115/230 VOLT 50/60 HZ.*
POWER (W)	426	800

* ON REQUEST

FOG TUBE SERIES

FT30 | FT50 | FT70 | FT100



Fog Tube (also known as mist cannon, dust fighter, dust suppression cannon, spray cannon, dust binding machine etc.) is designed for effective dust control. Spraying the fine mist, they help to minimize the dust, reduce the health risk and improve air quality. During the operation they need a minimum of power and water supply.

Our products are designed, manufactured and assembled in ITALY We are proud to invest in development of equipment for the environmental protection

NEW

POWERFULL
WATER
PRESSURE
UP TO MT. 70

Made In Italy

POWERFULL WATER PRESSURE
UP TO MT. 70

NATURAL
COOL

SOLID METALLIC COVER
AGAINST THE DAMAGE

AUTOMATIC HORIZONTAL
OSCILLATION 0-350°

CONTROL BOX WITH WHIRELSS
REMOTE CONTROL (OPTIONAL)

PROFESASIONAL PUMP UP TO
130 LT/MIN

HEAVY DUTY TROLLEY WITH
WHEELS (OPTIONAL)





TECHNICAL DATA

- One stainless steel nozzle ring
- Nozzles made of brass
- Automatic horizontal oscillation 0-350°
- Booster pump to control the correct working pressure
- Pressure gauge
- Water filter
- Electric control panel
- Protection against dry-run
- Solid metallic cover against the components damage
- Standard mount: skid mounted

OPTIONAL ACCESSORIES

- Remote control (wireless, min. range 100 m)
- Electrical vertical tilting (10-40°)
- Wheeled trailer
- Chemical additives for dust or odour suppression
- Genset with roadworthy trailer and water tanks

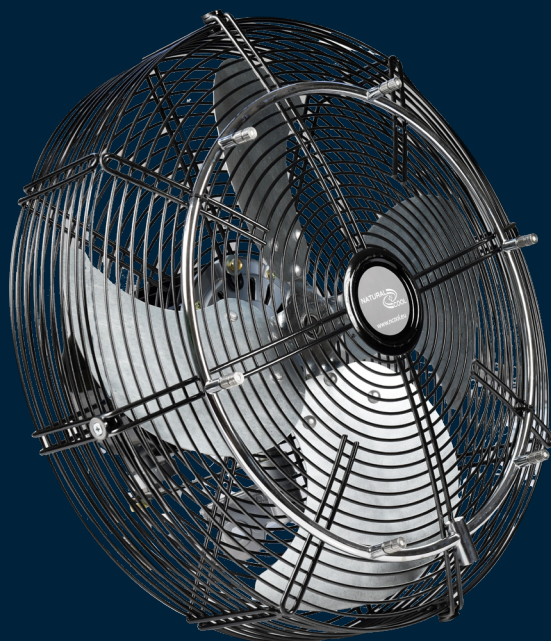


- Skid version (standard)

MODEL	FT30	FT50	FT70	FT100
THROW (MT)	20-30	40-50	60-70	90-100
HORIZONTAL OSCILLATION	AUTOMATIC 0-350°	AUTOMATIC 0-350°	AUTOMATIC 0-350°	AUTOMATIC 0-350°
AUTO CLEANING PROGRAM	PRESENT	PRESENT	PRESENT	PRESENT
VERTICAL TILTING	MANUAL 0-50°	MANUAL 0-50°	MANUAL 0-50°	MANUAL 0-50°
FAN (KW)	4.0	7.5	15	30
NOZZLES (QTY)	18	36	36	72
BOOSTER PUMP (KW)	2.2	5.5	5.5	5.5
ELECTRIC CONTROL BOX	INCLUDED	INCLUDED	INCLUDED	INCLUDED
VOLTGE (V)	400 VOLT 3 PHASE 50 HZ.	400 VOLT 3 PHASE 50 HZ.	400 VOLT 3 PHASE 50 HZ.	400 VOLT 3 PHASE 50 HZ.
WATEWR FLOW (LT/M)	50	130	130	200
WEIGHT (KG)	170	266	300	380

AXIAL FAN

07.456.5.A



HIGH WEAR RESISTANT PROFESSIONAL FANS WITH THREE SPEEDS. A 4-BLADE METAL PROPELLER FOR STEADY AND SILENT OPERATION. OPERATING RANGE FOR INDOOR ENVIRONMENTS 12 M MAX., AND 8 M FOR OUTDOOR. BLACK PAINTED STEEL GRILL. EQUIPPED WITH A HIGH-PRESSURE RING. IT SUPPORTS FIXED MISTING LINES WITH 1-6 MICROMETRIC NOZZLES. CAN BE POSITIONED AS REQUIRED TO A WALL OR FLOOR BRACKET AND CAN COVER SURFACES OF BETWEEN 40-70 SQ.M THANKS TO A 70° HORIZONTAL OSCILLATION. PARTICULARLY SUITABLE FOR INDUSTRIAL ENVIRONMENTS DUE TO THEIR HIGH RESISTANCE TO WEAR. CAN OPERATE FOR UP TO 16 HOURS A DAY.



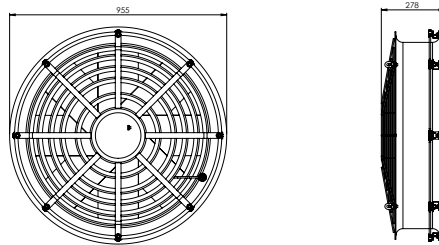
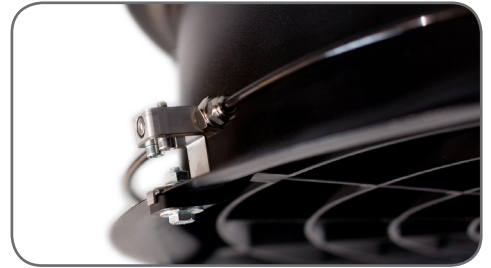
SPEED	ONE	TWO	THRE
SIZE (CM)	56	56	56
NOZZLES NUMBER	6	6	6
MOTOR SPEED (RPM)/SOUND LEVEL (DB)	1.000/31	1150/35	1.400/38
POWER (W)/IP RATE	310/IP65	330/IP65	350/IP65
VOLTAGE (V)	230-50 HZ.	230-50 HZ.	230-50 HZ.
OSCILLATION	70°	70°	70°
AIR FLOW (M3/H)	9.900	10.900	12.800
NET COLOR	BLACK/NO CORROSION TREATMENT	BLACK/NO CORROSION TREATMENT	BLACK/NO CORROSION TREATMENT

ELIMIST

07.684.A



Made In Italy



SIZE (CM)	90
NOZZLES NUMBER	8
MOTOR SPEED (RPM)	450
POWER (W)	520
VOLTAGE (V)	115/230-50/60 HZ*
OSCILLATION	/
AIR FLOW (M3/H)	9.000

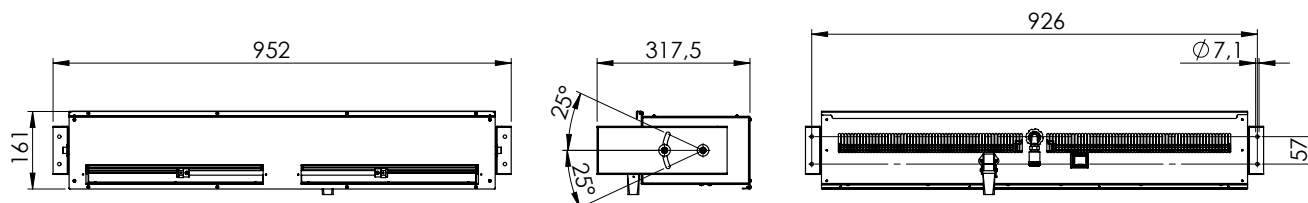
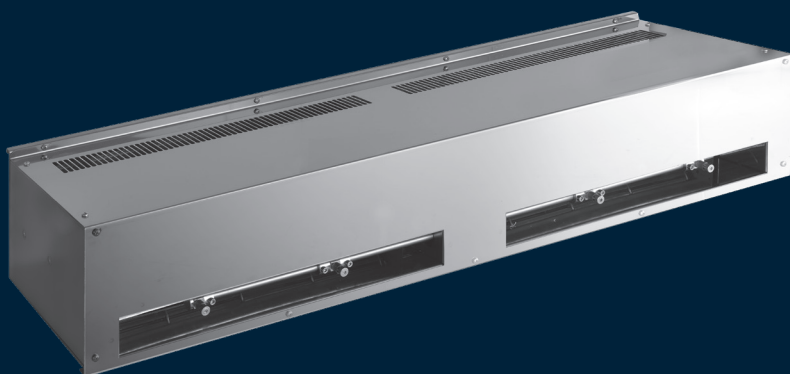
* ON REQUEST

HIGH CAPACITY DESTRATIFIER COMES ACCOMPANIED BY A HIGH PRESSURE RING WITH A MAXIMUM OF 8 NOZZLES. CAN BE SUSPENDED ANCHORED TO THE CEILING AT A HEIGHT OF 4.0 M. AREA COVERAGE OF 70.0 SQ.M. APPLICABLE TO PROFESSIONAL HUMIDIFICATION SOLUTIONS TO SATISFY HIGH VOLUME AND LARGE SURFACE DEMANDS. FOR USE IN HIGH-VOLUME INDUSTRIAL ENVIRONMENTS AND CEILING HEIGHTS EQUAL TO OR GREATER THAN 5.0 M.

TANGENTIAL FAN



Made in Italy



NOZZLES NUMBER

MOTOR SPEED (RPM)

1.000

POWER (W)

45

VOLTAGE (V)

115/230-50/60 HZ.*

OSCILLATION

/

AIR FLOW (M3/H)

425

* ON REQUEST

TANGENTIAL VENTILATOR IN AISI 304 STAINLESS STEEL. EXTREMELY QUIET, IT LENDS ITSELF TO BEING PLACED IN EITHER OPEN OR CLOSED ENVIRONMENTS, WHICH ARE MODERATELY VENTILATED. ITS VERTICAL COMPACTNESS ALLOWS FOR USAGE IN LOW HEIGHT ENVIRONMENTS SUCH AS GAZEBOS OR SMALL TERRACES. VERTICALLY ADJUSTABLE, IT EMITS A FEW-CENTIMETRE-HIGH PLANE OF AIR, WITH A USABLE EXTENSION OF 4.0 LINEAR METRES. IT SUPPORTS 2 TO 4 NOZZLES AND ALLOWS COOLING FOR AREAS OF APPROXIMATELY 20 SQ.M.

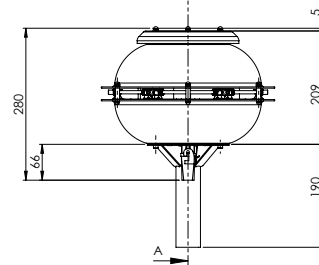
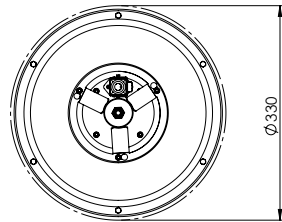
SKY MIST

07.778.B



Made In Italy





SIZE (CM)	35
NOZZLES NUMBER	6
MOTOR SPEED (RPM)	2.500
POWER (W)	60
VOLTAGE (V)	115/230-50/60 HZ*
OSCILLATION	/
AIR FLOW (M3/H)	570

* ON REQUEST

HIGH CAPACITY CENTRIFUGAL FAN AISI 304 STAINLESS STEEL. COMES ACCOMPANIED BY A HIGH PRESSURE RING WITH A MAXIMUM OF 6 NOZZLES. CAN BE SUSPENDED ANCHORED TO THE CEILING AT A HEIGHT OF 3.0 M. AREA COVERAGE OF 40 SQ.M. APPLICABLE TO PROFESSIONAL HUMIDIFICATION SOLUTIONS TO SATISFY HIGH VOLUME AND LARGE SURFACE DEMANDS. FOR USE IN HIGH-VOLUME INDUSTRIAL ENVIRONMENTS AND CEILING HEIGHTS EQUAL TO OR GREATER THAN 3.0 M.

METALLURGICAL AND MECHANICAL INDUSTRY

LARGE FIRMS OFTEN RESORT TO MACHINERY AND EQUIPMENT OF DIFFERENT SIZE CARRYING OUT THE MOST VARIED WORKS. IN FOUNDRIES, MOULDING, WIRE DRAWING AND ROLLING PLANTS, SIGNIFICANT HEAT MASSES ARE RELEASED INTO THE ENVIRONMENT BY MANUFACTURING PLANTS. AS FOR SIZE AND SHAPE SUCH ENVIRONMENTS CAN BE AIR-CONDITIONED ONLY BY CREATING ISOLATED SECTORS AT HIGH PRODUCTION AND MANAGEMENT COSTS. NATURAL COOL ADIABATIC PLANTS ALLOW TO OPERATE IN AREAS OF FEW SQUARE METERS BY DELIMITING THE ZONE WHERE THE OPERATOR HAS TO WORK. THIS SOLUTION ENABLES TO CUT COSTS TO A MINIMUM AND FOCUS ON THE EFFECT WITHOUT WASTING RESOURCES. HERE ARE SOME APPLICATIONS:

- FOUNDRY PRODUCTION
- WIRE DRAWING
- HOT MOULDING
- PRESSING
- COLD MOULDING
- SWITCHBOARD COOLING

THESE SYSTEMS ALSO ALLOW TO ABATE SUSPENDED DUST AND IMPROVE THE QUALITY OF BREATHABLE AIR, THUS REDUCING THE AMOUNT OF VOLATILE PARTICULATE MATTER OF IRON POWDER, LUBRICANTS AND OTHER HARMFUL SUBSTANCES. HUMIDITY AND TEMPERATURE ARE CONTROLLED BY A SINGLE-ZONE OR A MULTI-ZONE COMPUTERIZED SYSTEM THAT CAN BE PROGRAMMED AND CONTROLLED BY REMOTE. THE WIDE RANGE OF AVAILABLE FLOW RATES AND PURPOSE-BUILT PUMPS CAN MEET THE STRICTEST OPERATIONAL CRITERIA, THUS ALLOWING CONTINUOUS 24-HOUR OPERATION.



LASTING MATERIAL PRESSING

COMPANIES OPERATING IN THE SECTOR OF PLASTIC AND DERIVATIVES OFTEN EMPLOY MACHINERY THAT RELEASES HEAT WHILE IN OPERATION. IN ADDITION TO CAUSING INCREASING TEMPERATURES IN THE ENVIRONMENT, HOT MOULDING ALSO REQUIRES AN ADEQUATE HUMIDITY RATE. LAST BUT NOT LEAST, PARTICULAR ATTENTION HAS TO BE PAID TO VOLATILITY AND ODOURS DUE TO THE PRESENCE OF PARTICULATE MATTER OF SYNTHETIC FIBRES, SUCH AS GLASS FIBRE OR STYRENE.

NATURAL COOL ADIABATIC SYSTEMS ENABLE TO COOL THE WHOLE DEPARTMENT OR AREAS CLOSE TO THE OPERATOR.

ZONE ATOMIZATION IS IMPORTANT TO DELIMIT COOLING AREAS, WHILE DUST ABATEMENT AND ODOUR CONTROL CAN INTEREST WIDER AREAS. EACH CASE ENTAILS DIFFERENT NEEDS THAT NATURAL COOL TECHNICIANS WILL ASSESS AND DISCUSS TOGETHER WITH CUSTOMERS IN ORDER TO OFFER CUSTOMIZED SOLUTIONS THAT ARE CONSISTENT WITH THE REFERENCE ENVIRONMENT. OUR SYSTEMS CAN BE USED TO:

- COOL WORKING ENVIRONMENTS NEAR PRESSES
- COOL MOULDS FOR CLEANING OR TECHNICAL MAINTENANCE
- COOL PROCESSED PARTS TO SPEED UP THE DETACHMENT OF THE MOULD
- ADJUST THE HUMIDITY OF PLASTIC PARTS THAT TEND TO BREAK DUE TO DRYNESS
- HUMIDIFY GLASS FIBRE TO INCREASE ITS RESISTANCE
- REDUCE THE VOLATILITY OF FIBRE POWDER DERIVING FROM LUBRICANTS
- CONTROL ODOURS ORIGINATING FROM STYRENE AND PLASTIC DERIVATIVES



SPORT AND EVENTS

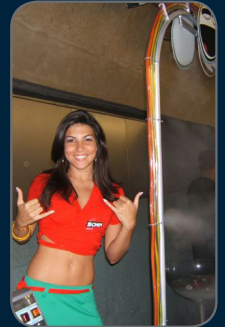
RECREATIONAL AREAS, BLEACHERS, TOUCHLINES, PASSAGEWAYS OR REFRESHMENT AREAS ARE PLACES WHERE COOLING IS OFTEN ADVISABLE, ESPECIALLY DURING THE WARMEST HOURS OF THE DAY.

THANKS TO MODULARITY, NATURAL COOL ADIABATIC SYSTEMS ALLOW TO MANAGE SEVERAL AREAS WITH JUST ONE CONTROL UNIT THAT OPERATES ACCORDING TO THE SETTINGS THAT CAN BE ENTERED THROUGH A TOUCH SCREEN LCD. DURING EXHIBITIONS IT IS ALSO POSSIBLE TO COOL REFRESHMENT AREAS OR PARTICULARLY WARM BOOTHS IF UNDER THE SUN.

THANKS TO A LARGE SYSTEM FOR FORCED VENTILATION IT IS POSSIBLE TO COOL AREAS FACING THE STAND DURING CONCERTS OR CULTURAL EVENTS OF ANY KIND, THUS ALLOWING TO FIGHT SUMMER HEAT AND THE OVERHEATING PRODUCED BY LIGHT FIXTURES. ON DEMAND IT IS POSSIBLE TO RESORT TO CONTROLLED ATOMIZATION TO RECREATE STAGE EFFECTS, LIKE AT THE THEATRE.

LAST BUT NOT LEAST, OUR PLANTS CAN REPEL HARMFUL INSECTS SUCH AS MOSQUITOES AND FLIES, PROTAGONISTS OF NIGHTS IN THE OPEN AIR. THANKS TO ADJUSTABLE ATOMIZATION, OUR PLANTS CAN ADJUST DIFFUSION WITHOUT CREATING EXCESSIVE HUMIDITY AND ALLOW AT THE SAME TIME TO KEEP UNWANTED PRESENCES AWAY. NATURAL COOL SYSTEMS ARE ALSO SUITABLE FOR THE REFRESHMENT FACILITIES OF CATERING SERVICES FOR PRIVATE (MARRIAGES) OR PUBLIC EVENTS (PARTIES, FASHION SHOWS). THESE SYSTEMS CAN BE RENTED AND USED IN SEVERAL WAYS, ACCORDING TO THE COMPATIBILITY WITH THE FLOW RATE MANAGEMENT ALLOWED BY THE CONTROL UNIT.

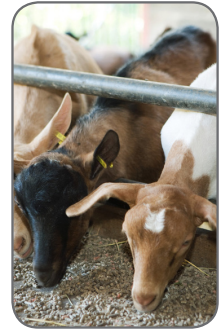
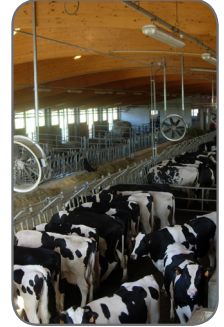
NATURAL COOL CONTROL UNITS CAN BE USED TO COOL NOT ONLY PEOPLE BUT ALSO ANIMALS INVOLVED IN SPORT DISCIPLINES LIKE HORSE-RIDING. FOR THE PRELIMINARY PHASE, THE TIME AFTER THE RACE OR AREAS USED AS SHELTERS, IT IS POSSIBLE TO DEVELOP PLANTS TO COOL BOTH SITES AND ANIMALS, REPEL INSECTS THAT CAN MAKE THEM NERVOUS OR BRING GERMS AND REDUCE DUST AND AMMONIA EMISSIONS THAT ARE TYPICAL OF ALL STABLES.



VEGETABLE INDUSTRY

IT IS WELL-KNOWN THAT HIGH SUMMER TEMPERATURES CAUSE SEVERAL PROBLEMS TO CATTLE-BREEDERS. HEAT CAUSES DISCOMFORT AND THE SUBSEQUENT REDUCED FEEDING BRINGS ABOUT DROP IN WEIGHT GAIN AND DAIRY PRODUCTION. SUCH DIFFERENCES HEAVILY AFFECT PRODUCTION QUANTITY AND QUALITY BUT, IF EQUIPPED WITH AN ADIABATIC SYSTEM, FARMS CAN GUARANTEE BETTER ENVIRONMENTAL CONDITIONS FOR THE CATTLE. BOVINES, PIGS, POULTRY AND OTHER SPECIES CAN BENEFIT FROM THIS SYSTEM AS COOLING HELPS TO REPEL HARMFUL INSECTS, IMPROVES ANIMALS' LIVING CONDITIONS, ALLOWS CORRECT FEEDING BUT ALSO DUST ABATEMENT, ODOUR CONTROL AND THE DIFFUSION OF BACTERICIDAL SUBSTANCES (IF COMPATIBLE WITH PLANT SPECIFICATIONS). IN THIS WAY ANIMALS' GROWTH AND QUALITY OF LIFE WILL ALWAYS BE EQUAL AND IDEAL, THUS EASILY ENSURING CONTINUOUS PRODUCTION AND CONTROL OF HEALTH CONDITIONS. COSTS CAN BE EASILY COVERED THANKS TO RETURNS ON THE INVESTMENT.

THE SYSTEM IS EQUIPPED WITH A COMPUTER FOR THE THERMOHYGROMETRIC CONTROL THAT ALLOWS MULTI-ZONE MANAGEMENT AND PERFECT AUTOMATION OF ON/OFF AND DIAGNOSIS FUNCTIONS. EVERY NATURAL COOL SYSTEM HAS BEEN SPECIFICALLY STUDIED FOR OUR CUSTOMERS AND ALLOWS AN AUTOMATIC MANAGEMENT REQUIRING FEW MAINTENANCE INTERVENTIONS THAT CAN BE EASILY CARRIED OUT BY TECHNICIANS. SETTINGS CAN BE ENTERED THROUGH A LARGE TOUCH SCREEN LCD. OTHER PLACES THAT CAN BENEFIT FROM NATURAL COOL ADIABATIC SYSTEMS ARE KENNELS AND CAT SHELTERS: THESE FACILITIES ARE OFTEN MADE UP OF METAL PANELS THAT OVERHEAT IN SUMMER, THUS GENERATING STRESSFUL CONDITIONS FOR ANIMALS. MOREOVER, ODOURS SPREADING IN THE SURROUNDINGS CAN CREATE TROUBLES TO NEIGHBOURS.

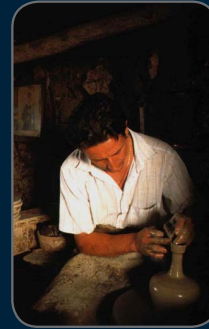


SMALL INDUSTRY AND HANDICRAFT

NATURAL COOL ADIABATIC PLANTS ARE PARTICULARLY SUITABLE FOR SMALL INDUSTRIES AND HANDICRAFT. SMALL AND MEDIUM-SIZED INDUSTRIAL PREFABRICATED BUILDINGS, WITH SURFACES OF ABOUT 400-800 SQUARE METERS, ARE OFTEN NEGATIVELY AFFECTED BY HIGH SUMMER TEMPERATURES DUE TO A BAD INSULATING COVERING AND THE IRRADIATION OF VIBRATED CONCRETE WALLS. IN MANY CASES IT IS NECESSARY TO OPEN DOORS OR WINDOWS, BOTH TO CONDUCT THE ORDINARY ACTIVITY OF MOVING GOODS IN AND OUT AND TO PROMOTE AIR CIRCULATION IN THE ENVIRONMENT AND THEREFORE BENEFIT FROM A MINIMUM FRESHNESS. IN SUCH CONDITIONS, A TRADITIONAL AIR-CONDITIONER WOULD BE DEFINITELY EXPENSIVE. INSTALLATION COSTS CAN BE 4 TIMES HIGHER AND DAILY ELECTRICITY BILL COSTS UP TO 20 TIMES HIGHER THAN THOSE CONCERNING ADIABATIC PLANTS.

CONSIDERING AN AVERAGE HEAT LOAD OF A WELL-VENTILATED WORKING PLACE OF ABOUT 500 SQUARE METERS AND AFTER HAVING SET SOME REFERENCE PARAMETERS, LIKE ELECTRICITY AND WATER COST, SOME ROUGH CALCULATIONS CAN BE EASILY DONE TO COMPARE THE COSTS OF THE DIFFERENT SOLUTIONS.

THE RESULT WILL BE AN EVIDENT ADVANTAGE IN TERMS OF REDUCTION IN INSTALLATION AND MANAGEMENT COSTS.



ACCOMMODATING FACILITIES AND HEALTH

THE PROBLEMS CAUSED BY SUMMER HEAT TO THE WEAKEST INDIVIDUALS HAVE BEEN WELL-KNOWN FOR YEARS NOW. THE FACILITIES THAT WELCOME CHILDREN, LIKE NURSERIES, OFTEN HAVE COURTYARDS OR GARDENS THAT ARE USUALLY NOT USED DUE TO HIGH TEMPERATURES AND INSECTS. THE SAME GOES FOR FACILITIES FOR THE ELDERLY AND GERIATRIC INSTITUTES IN GENERAL.

HEAT CAN RESULT IN PROBLEMS FOR CARDIAC PATIENTS OR PEOPLE SUFFERING FROM HYPOTENSION: AS A RESULT, ONLY CLOSED AND AIR-CONDITIONED AREAS ARE USED AS THEY CAN OFFER SOME FRESHNESS.

IN SPRING AND SUMMER, HOWEVER, IT IS BETTER TO ENJOY SPACES IN THE OPEN AIR. THANKS TO NATURAL COOL ADIABATIC SYSTEMS FOR ATOMIZATION YOU CAN ENJOY OUTER SPACES THAT ARE NOT REGULARLY USED. REDUCING THE TEMPERATURE IN A COURTYARD, THUS MAKING IT AVAILABLE DURING THE DAY, OR KEEPING MOSQUITOES AND INSECTS AWAY AT NIGHT ALLOWS TO EXTEND THE POSSIBILITIES OFFERED BY ACCOMMODATING FACILITIES, BUT ALSO POSITIVELY AFFECTS THE QUALITY OF LIFE OF THEIR USERS.

THESE SYSTEMS, THAT CAN BE EQUIPPED WITH FILTERING SYSTEMS OF VARIOUS CAPACITIES IN ADDITION TO UV-RAY DEBACTERIZATION, ARE EXTREMELY USER-FRIENDLY AS THEY CAN BE MANAGED BY THE ELECTRONIC CONTROL UNIT OR THE PC TOUCH SCREEN.



PUBLIC SECTOR AND STREET FURNITURE

PUBLIC AREAS EQUIPPED FOR LEISURE TIME ARE THE MOST VARIED. IN PARTICULAR, CITIES THAT ARE QUITE FAR FROM THE MOST IMPORTANT SEASIDE AND MOUNTAIN RESORTS, WHERE YOU CAN FIND FRESHNESS AND LEISURE, OFFER INSTEAD A WIDE RANGE OF PARKS AND SPORTS/ENTERTAINMENT FACILITIES.

THESE PLACES ARE OFTEN COMFORTABLE AND DENSELY ATTENDED BY DIFFERENT TYPES OF PEOPLE, LIKE FAMILIES WITH CHILDREN, OLD BUT ALSO SPORTY PEOPLE WHO LIKE WORKING OUT IN THE OPEN AIR. IN THE WARMEST PERIODS IT IS HOWEVER DIFFICULT TO FIND SOME FRESHNESS.

THAT'S WHY NATURAL COOL PROPOSES WATER ATOMIZATION SYSTEMS THAT CAN ACT AS ONE OR MORE "COOL CORNERS", CONSISTING OF HIGH-PRESSURE LINES INTEGRATED IN SUITABLE FACILITIES THAT, THANKS TO ATOMIZING CONTROL UNITS, CREATE AN ADJUSTABLE AREA WHERE USERS CAN REFRESH. THIS EFFECT CAN BE BASED ON CONTINUOUS FLOW, CONTROLLED FLOW OR MANAGED BY A PRESENCE SENSOR. A LINE CAN SUPPLY A NUMBER OF SPOTS OR MORE INDEPENDENT UNITS CAN BE ORGANIZED IF PARTICULARLY FAR FROM EACH OTHER. INFORMATION DESKS, GAZEBOS FOR BEVERAGE SUPPLY, SITTING AREAS WITH BENCHES OR FIXED FACILITIES CAN THEREFORE BE COOLED IN CASE OF NEED.

THE RANGE OF DEVICES IS COMPLETED BY COMPUTERIZED MANAGEMENT SYSTEMS THAT ALLOW A PRECISE CONTROL OF ALL SETTINGS AND THE MACHINE CHECK-UP, WHILE FILTERING SECTIONS CAN BE COUPLED WITH UV-RAY LAMPS FOR THE COMPLETE DEBACTERIZATION OF DIFFUSED WATER. IN CASE OF NEED NATURAL COOL CONTROL UNITS CAN OPERATE 24 HOURS A DAY.

THE PLANT HAS TO BE DESIGNED IN THE APPROPRIATE WAY TO OPTIMIZE ABSORPTIONS AND THEREFORE MANAGEMENT COSTS. A PLANT THAT IS NOT ADEQUATELY CALIBRATED OR THAT USES LOW-HARDNESS MICROMETRIC NOZZLES RESULTS IN A POTENTIAL INCREASE IN WATER CONSUMPTION OVER TIME.



CONDENSATION CONTROL

IN THE WARMEST PERIODS OF THE YEAR INDUSTRIAL PLANTS FOR THE AIR-CONDITIONING OF SHOPPING MALLS OR LARGE OFFICES EXPERIENCE A SIGNIFICANT DROP IN PERFORMANCE. IN ADDITION TO REDUCING AIR-CONDITIONING PERFORMANCE, THIS PROBLEM ALSO ENTAILS HIGH ELECTRICITY CONSUMPTION PEAKS AND SEVERE STRESS FOR MECHANICAL PARTS.

NATURAL COOL HAS DEVELOPED A WATER ATOMIZATION SYSTEM THAT CAN OPERATE AS A STAND-ALONE UNIT OR CAN BE CONNECTED TO THE ELECTRONIC DEVICE OF THE AIR-CONDITIONING SYSTEM. THE ADVANTAGES ARE SIGNIFICANT AND ALLOW ENERGY SAVINGS BETWEEN 18% AND 27%.

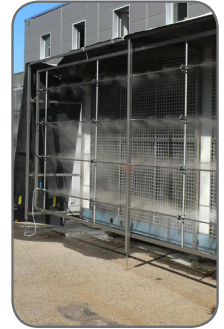
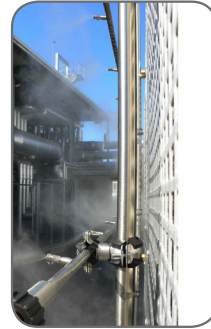
AT THE SAME TIME, AIR-CONDITIONER PERFORMANCE IS DEFINITELY HIGHER AND THE MECHANICAL STRESS SLIGHTLY LOWER. TO ACHIEVE THIS RESULT THE ATOMIZATION IS FINE AND TARGETED IN ORDER TO REDUCE THE TEMPERATURE OF THE EXCHANGE AIR OF CONDENSING EXTERNAL UNITS. AN EXAMPLE OF SUCH SAVINGS CAN BE SUMMED UP AS FOLLOWS:

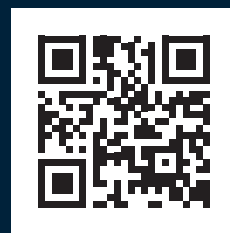
IMPROVEMENT CAPABILITY IN THE EFFICIENCY OF THE ELECTRICAL ABSORPTION FOR CONDENSATION BATTERIES.

THE SYSTEM ALLOWS THEREFORE A SIMULTANEOUS AND THREEFOLD BENEFIT:

ENERGY SAVING THANKS TO A DEFINITELY MORE ECOLOGICAL MANAGEMENT, BETTER EFFICIENCY SO THAT PLANTS CAN PERFORM AS GOOD IN THE WARMEST MONTHS AS IN COLDER ONES AND, LAST BUT NOT LEAST, RESISTANCE TO THE MECHANICAL WEAR AND TEAR OF THE SYSTEM THAT ENSURES DEFINITELY HIGHER OPERATION TIMES.

CONSIDERING THAT A PLANT CHARACTERIZED BY A POWER EQUAL TO OR HIGHER THAN 500 KW ALLOWS THE RETURN ON INVESTMENT IN A BIT MORE THAN A SUMMER QUARTER, IT IS EASY TO UNDERSTAND THAT IN THE BUSINESS YEARS TO COME SAVINGS WILL RESULT IN A HIGHER OPERATING INCOME FOR THE CUSTOMER.





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