



FRESCO OK

EVAPORATIVE COOLER



ZERO EMISSION

- » Air exchanges up to 25 times per hour
- » Refreshing and filtering of the air
- » Low energy costs
- » Ecological with zero emissions, it does not use refrigerant gases: just water
- » Refreshing of medium and large working environments with low investment costs and reduced consumptions

GENERAL FEATURES

The external self-bearing structure is made of ABS material, ideal against oxidation and very useful to improve the installation in safety conditions by reducing the weight on the roofs of the buildings. The coolers are equipped with:

- > Low consumption electrical fans with variable air flowrate.
- > Hydraulic circuit with solenoid valve and level sensor
- > Water distribution manifolds with electrical pump
- > Cooling pads with high saturation efficiency
- > Automatic water draining
- > Automatic self-washing process of the whole hydraulic system and of the cooling pads
- > Brackets and positioning devices.
- > Large range of control panels

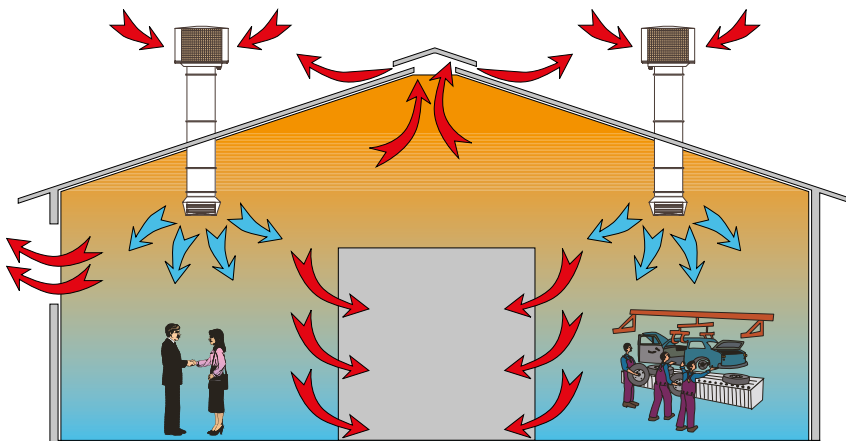
APPLICATION FIELDS

- > Ceramic industry
- > Foundry and die-casting processes
- > Textile industry
- > Processes for plastic molding pressure
- > Bookbinderies
- > Stretched flexible structures
- > Steel, aluminium, alloy production
- > Warehouse and logistic points
- > Farming
- > Machine shops
- > Chemical product production
- > Industrial printing shops
- > Industrial dyeing plants



EVAPORATIVE

TEMPERATURE REDUCTION



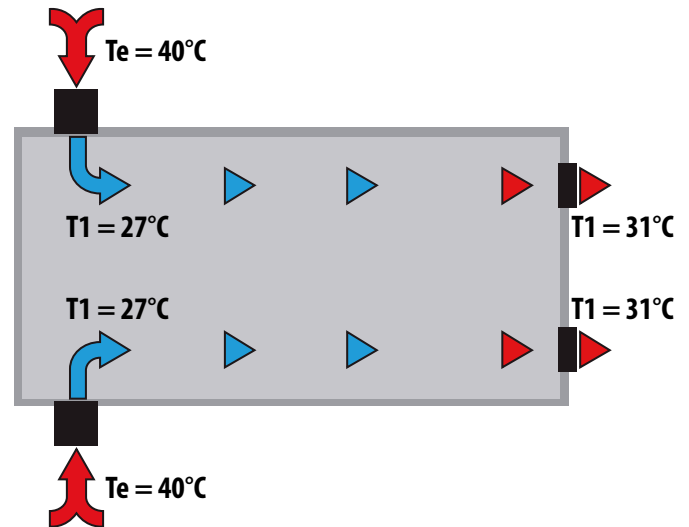
Environment temperature °C	PERCENTAGE OF THE RELATIVE HUMIDITY %				
	30 %	40 %	50 %	60 %	70 %
30 °C	19	21	23	24,5	26
35 °C	22,5	25	27,5	29,5	31
40 °C	26	29	31,5	33,5	35,5
45 °C	30	32,5	35,5	38	40

TECHNICAL FEATURES

MODELS		FR 18	FR 30AP1 (1 speed)
Air movement	m ³ /h	18.000	30.000
Type of fan		HELICAL	HELICAL
Electrical power supply	V/Hz	230/50	400/50
Electrical power	W	1.100	3.000
Average water consumption	l/h	10-15	20-30
Dimensions (LxPxH)	mm	1100 x 1100 x 950	1340 x 1340 x 1200
Empty-loaded weight	kg	78	110
Air outlet plenum (LxP)	mm	650 x 650	900 x 900

INSTALLATION

FRESCO OK can be easily installed outside the buildings, on the roof or on the wall. The cooler only needs an electrical and hydraulic connection, and it is conceived to be connected to a channel with a multi-way diffuser suitable for the distribution of the fresh air in the environment.



ELECTRONIC CONTROL

All the models are equipped with the new electronic control boards which allow you to adjust the temperature and the humidity automatically.

Main features to point out:

- > The speed, as well as the air flowrate, is adjustable in automatic or manual
- > Operating timer
- > The washing cycles of the cooling PADS are programmable
- > Digital display
- > Automatic draining (programmable)
- > Pre-washing function: it humidifies and washes the cooling PADS before the starting of the fan
- > It also offers the basic functions of ventilation and cooling

Control panel for a single Fresco OK unit

Cod. 13CEQU0034



Control of 1 cooler, it's 230 V powered and it communicates with the board already installed in the adiabatic unit.

Control panel "Master SYS5" for a single zone up to Nr. 5 Fresco OK

Cod. 13CEQU0044



The Master Panel SYS5 can manage up to n.5 coolers in a single zone; it's 230 V powered and it communicates with the board already installed in the adiabatic unit.

Control panel for a single Fresco OK unit and Control panel "Master SYS5" are equipped with: electronic humidity and temperature probe, programmable timer, humidity control, water draining system, cooling pads washing and drying system, setting and modulation of the air flowrate in conditioning and ventilation status.

Master panels SYS850 and SYS830

for many Fresco OK units

Recommended with installations of more than 5 coolers.



SYS850 Basic Version

Code 05CEQU2715

It can manage up to 30 adiabatic coolers from 1 to 30 independent climatic zones.

SYS830 Basic Version

Code 00CEQU2674

It can manage up to 16 adiabatic coolers from 1 to 16 independent climatic zones.

Both the panels can be programmed for each zone in the following functions: operating timer, temperature control, humidity control, water draining system, cooling pads washing and drying, setting and modulation of the air flowrate in conditioning and ventilation status.

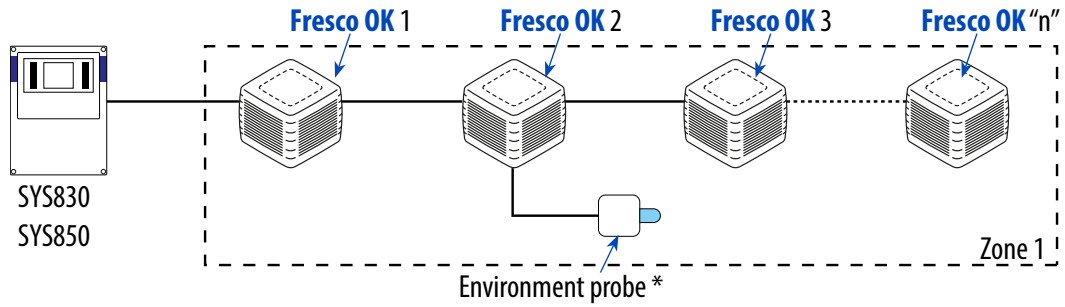
Environment temperature and humidity probe for Fresco OK

Cod. 13CES00001

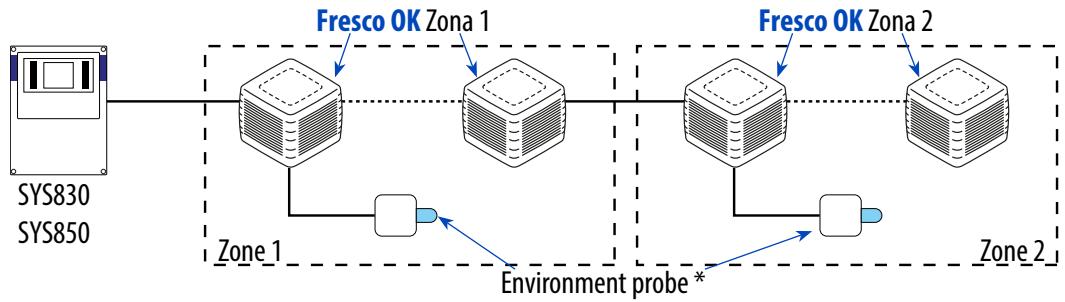


* To be installed in each zone on centralized management systems combined with the Master panels SYS830/SYS850

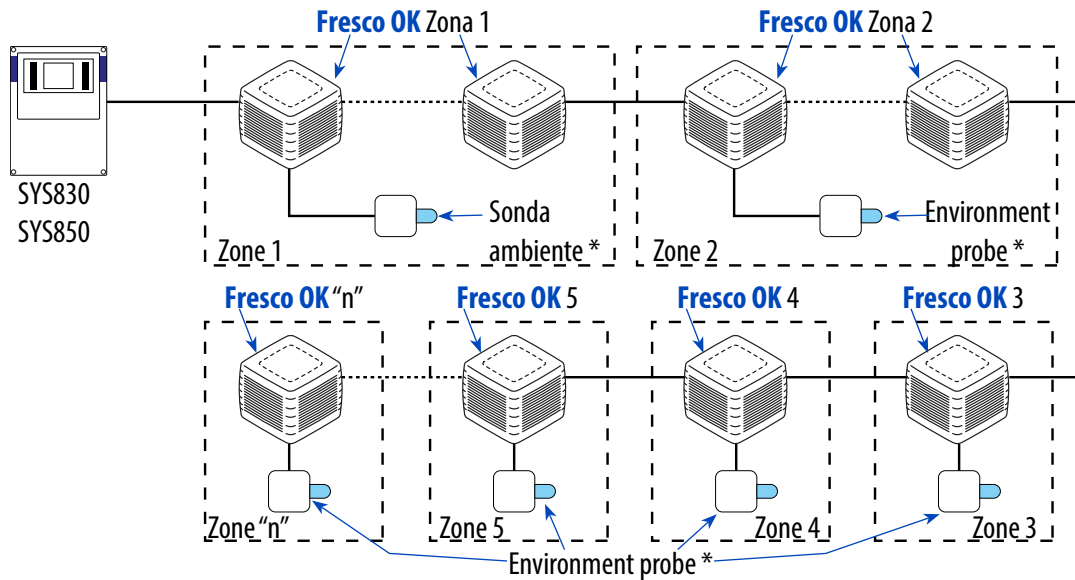
Example of adiabatic cooling system with 1 zone: Fresco OK managed by SYS830/SYS850



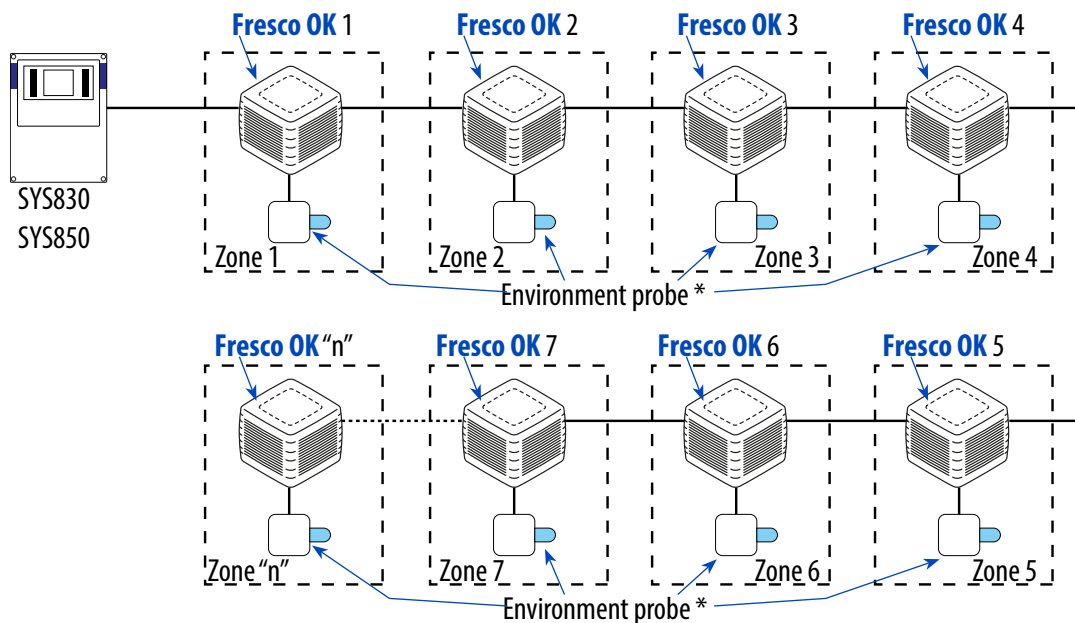
Example of adiabatic cooling system with 2 zones: Fresco OK managed by SYS830/SYS850



Example of adiabatic cooling system with 2 or more zones: Fresco OK managed by SYS830/SYS850



Example of adiabatic cooling system with independent zones: Fresco OK managed by SYS830/SYS850



To continually improve the products, SYSTEMA S.p.A. reserves the right to alter the characteristics without prior notice.



A FEW INSTALLATIONS REALIZED BY SYSTEMA

