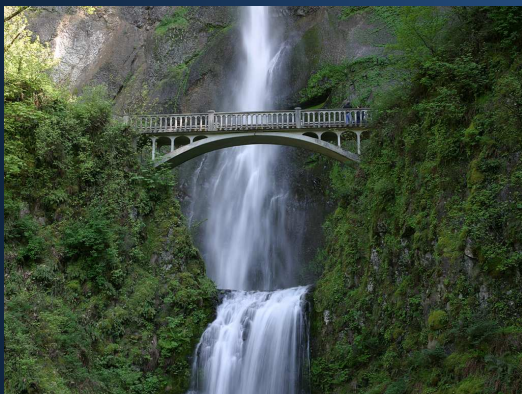


HUMIBAT®

Refrigeración Evaporativa



The natural cooling

When the air comes into direct contact with water, part of this evaporates, absorbing energy in the form of heat, and this air it cools. This is nature's way of cooling.

This phenomenon, incorporated in properly designed equipments, provides a low cost cooling system, installation and power consumption, in buildings has added value of bringing a good cooling and a proper ventilation.

HUMIBAT® System

The evaporative cooling units manufactured by Control y Ventilación, S.L., under the trademark **HUMIBAT®**, are designed to have a long lifetime and easy maintenance.

Therefore the **HUMIBAT®** units are made from the best quality materials (reinforced casing made from polyester and fiber glass, filled with a high-density polyethylene mesh, PVC distribution system, and a stainless steel pump).

The **HUMIBAT®** system rejects the traditional contact surfaces such as wood shavings and cellulose plates. In opposition, the flexible pad with a polyethylene mesh, basic component of **HUMIBAT®**, adds, its incomparable long lifetime, difficult clogging and structured consistence, keeping the thermal conditions and constant high performance. It's main characteristics are:



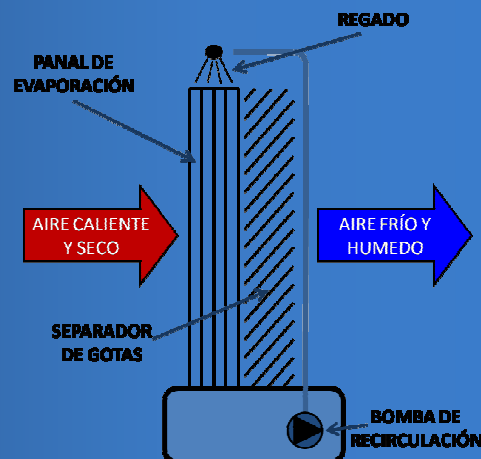
Our ADVANTAGES Our DIFFERENCES

- ❖ Pad of synthetic material not blockable of long life
- ❖ Low maintenance cost
- ❖ Cosistant performance
- ❖ Easy cleaning
- ❖ Corrosion resistant
- ❖ Low pressure drop
- ❖ Low power consumption
- ❖ Environmentally friendly

- ❖ Hight density surface contact between water and air with a minimum aerodynamic resistance of the air flow,
- ❖ Hight retention of drops, giving a moist air and avoids the contamination problems,
- ❖ High support capacity of solids deposits (lime, salt, dust, mud...) without any modifying any of its benefits .

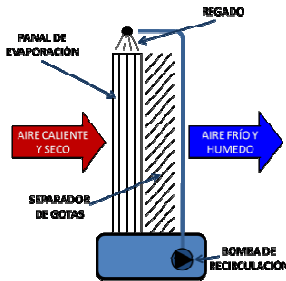
The **HUMIBAT®** system is very adaptable and can be adapted to just about any type of installation and covers models that work with depression as well as overpressure.

In the first case the **HUMIBAT®** incorporates the body contact water-air pad and the motor driven ventilator, going through it the air cooled that later exits through the windows, doors,... To the outside.



This will prevent leakage through cracks or defected sealing.

In the configuration with depression, the air is sucked in through extracting ventilators and enters into the building via the **HUMIBAT®** units, which in this case do not have a built-in motor-ventilator.

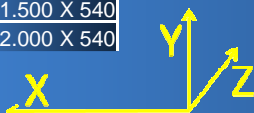


UNITS WITH FAN

TYPE	AIR FLOW	DIMENSIONS	FAN	PUMP
	m³/h			
P10	10.000	1.000 X 1.400 X 915	1,17	0,25
P20	20.000	1.500 X 1.900 X 1.020	1,45	0,25
P40	40.000	2.000 X 2.400 X 1.100	1,10	0,25
T10	10.000	1.000 X 1.750 X 1.550	0,71	0,25
C-10/11/1.1	9.000	1.000 X 1.250 X 1.850	1,10	0,38
C-10/15/2.2	11.000	1.000 X 1.250 X 1.850	2,20	0,38
C-20/22/1.5	16.000	1.500 X 1.750 X 1.850	1,50	0,38
C-20/22/3.0	20.000	1.500 X 1.750 X 1.850	3,00	0,38
C-20/22/5.5	25.000	1.500 X 1.750 X 1.850	5,50	0,38
C-40/25/4.0	35.000	2.000 X 2.250 X 1.850	4,00	0,55
C-40/30/5.5	40.000	2.000 X 2.250 X 2.450	5,50	0,55
C-40/30/7.5	45.000	2.000 X 2.250 X 2.450	7,50	0,55

UNITS WITH OUT FAN

TYPE	AIR FLOW	WINDOW DIMENSIONS
	m³/h	
F5	5.000	1.500 X 500 X 440
F10	10.000	2.250 X 600 X 440
F20	20.000	2.250 X 1.200 X 440
F30	30.000	2.250 X 1.800 X 440
F40	40.000	2.250 X 2.400 X 440
L5	5.000	1.000 X 500 X 650
L10	10.000	2.000 X 500 X 650
L20	20.000	2.000 X 1.000 X 650
S10	10.000	1.000 X 1.000 X 650
S20	20.000	1.500 X 1.500 X 650
S40	40.000	2.000 X 2.000 X 650
SF10	10.000	1.000 X 1.000 X 540
SF20	20.000	1.500 X 1.500 X 540
SF40	40.000	2.000 X 2.000 X 540



TEMPERATURE TABLE

HUMIDITY (%)	AIR OUTPUT TEMPERATURES (°C)					
	20	25	30	35	40	45
10	9,80	13,20	16,30	19,60	22,60	25,80
20	11,20	14,80	18,40	22,00	25,60	29,20
25	11,90	15,60	19,40	23,20	26,90	30,80
30	12,60	16,40	20,30	24,20	28,20	32,20
35	13,20	17,20	21,20	25,20	29,30	33,40
40	13,80	17,90	22,00	26,20	30,40	34,60
45	14,40	18,60	22,80	27,20	31,40	35,70
50	15,00	19,20	23,60	28,00	32,40	36,80
55	15,50	19,90	24,30	28,80	33,20	37,80
60	16,10	20,50	25,00	29,60	34,10	38,80
65	16,60	21,20	25,70	30,40	35,00	39,70
70	17,10	21,70	26,40	31,20	35,80	40,50

HUMIBAT® TYPE "P"



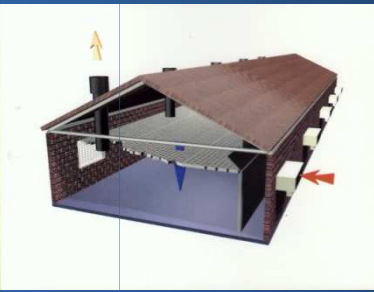
Units designed to work by over-pressure. They are installed on the walls of the building, and introduce the cooled air horizontally. Each unit incorporates its own motor-ventilator equipment.

HUMIBAT® TYPE "T"



Units designed to work by over-pressure. They are installed on the roof of the building and introduce the cooled air vertically. Each unit incorporates its own motor-ventilator equipment.

HUMIBAT® TYPE "F", "L", "S", y "SF"



Units non-autonomous. Units without motor-ventilator, They are installed on the walls of the building introduce the cooled air through them and work by depression caused by extracting ventilator.

HUMIBAT® TYPE "C"



Units designed for large buildings via distribution tubes. Each unit is equipped with a motor-driven centrifugal ventilator. They can be installed either on the walls of the building or on the roof. The air is conducted and introduced via distribution tubes, driven by its centrifugal ventilator.

