



MITA Systems

Complete solutions
for water-cooling



WATER TREATMENT

Dosing stations and salinity control

DOSC

Ideal solution for dosage of additive (anti-scaling agent, anti-corrosion, anti-algae) and control of salinity in medium sized cooling systems. Dosage is proportional to water consumption. Salt content is kept to the correct level with automatic purging.

CAB and VD

Water softeners single and double column with volumetric activation, the resin column automatically regenerates after reaching its cyclic capacity.

Devices designed for dispensing desalinated water for industrial use.

SAL CONTROL

Control system of salt concentration by means of a pre-programmed, timed purge or through an inductive/resistive conductivity meter, ideal for the salinity control in cooling systems.



REINFORCED CONCRETE TANKS

Prefabricated, self-supporting tanks made from one-piece reinforced concrete designed to hold water for industrial usage which can also be used as a support for the cooling tower.

The tanks guarantee a thermal flywheel effect with stable temperature and sufficient autonomy in case of temporary lacking water supply. In the upper part each tank has a hatch allowing inspection and cleaning.

It is possible to internally separate hot and cold water and a compensation system keeps the unit in correct balance.



CAPACITY	LENGTH	WIDTH	HEIGHT
m ³	m	m	m
5,00	2,00	1,55	2,00
8,50	2,60	1,90	2,20
10,00	2,60	1,90	2,50
12,00	3,00	2,50	2,36
16,00	4,00	2,50	2,36
20,00	4,00	2,50	2,56
25,00	5,00	2,50	2,56
30,00	6,00	2,50	2,56
40,00	8,00	2,50	2,56
50,00	10,00	2,50	2,56

Suggested loads for tank couplings		
Coupling	Aspiration	Return
DN	m ³ /h	m ³ /h
65	20	30
80	30	40
100	50	70
125	75	100
150	110	150
200	200	250

COOLING PLANTS

EASYBLOCK EASYBOX

Solutions specially designed for automated operation of cooling towers and coolers which allow the user to significantly reduce time for design, assembly and to be able to count on a single point of contact for the entire system.

Each plant comprises a:

- Water softening system
- Pump unit
- Electronic control panel
- Enclosing structure
- One or multiple one-piece reinforced concrete tanks for water collection.

The control panel not only acts as electronic interface but also as automated illumination with electric sockets with frost protection through electric heating.

EASYBLOCK

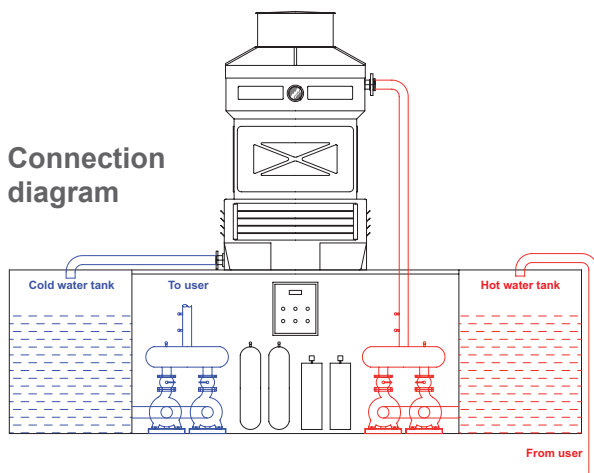
The control unit is made from one-piece reinforced concrete with two external tanks and a technical area for housing all appliances. It is accessible through a door with anti-panic handle.

The ceiling is designed to hold the cooling tower. Both tanks provide a thermal flywheel effect with stable temperature and a sufficient autonomy in case of temporary lack of water supply.

In the upper part each tank has a hatch allowing inspection and cleaning.



Connection diagram



EASYBOX

The control unit is made from rectangular sections of one-piece reinforced concrete, comes with a partition and a technical area for all appliances with a structure made from stainless steel/ aluminium.

It is accessible through a door with locking handle. The tank's roof is prepared to take a mounting frame for the cooling tower if required. The technical area is enclosed by 25mm thick composite panels assuring weatherproof insulation.

The tank with integrated partition for hot/cold water provides a thermal flywheel effect with stable temperature and a sufficient autonomy in case of temporary lack of water supply. In the upper part each tank has a hatch allowing inspection and cleaning.



MITA CONTROL SYSTEM

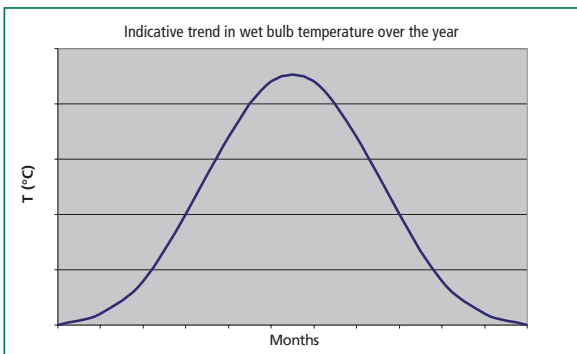
Energy efficiency

MITA offers an optional system with integrated inverter for its systems: **MCS MITA CONTROL SYSTEM**. The minimum temperature limit theoretically achievable by an evaporative tower is that represented by the wet bulb temperature of the atmospheric air measured in the installation area. The correct size of cooling tower can be determined by considering the highest value of wet-bulb temperature recorded within the year, disregarding the variability of tempera-

ture. MITA Control System (MCS) constantly controls the thermal output ensuring the performance of the system despite change of wet- bulb temperature, optimising the cooling tower's performance avoiding unnecessary waste throughout the day and year. MSC is a simple, reliable and efficient system which can be installed on a unit or remotely, equipped with an inverter integrated into a control panel with IP54 protection as well as a temperature sensor.

MSC provides the following advantages:

- Electricity Saving
- Reduction of electromechanical components and hence reduced maintenance costs
- Lower water consumption
- Cost saving relative to water-treatment
- Less noise



REMOTE CONTROL PLATFORM

MITA Connect is a remote-control platform allowing the monitoring of the units and data collection for predictive maintenance, safely accessible from every location through web, app or mobile phone.



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