

Intelligent Control

Each unit is set with an electric control cabinet. The number of operating fans between units is adjusted through communication with the chiller equipment to achieve the best control logic of the chiller. The operation of each module is relatively independent and under centralized control. Modular design is adopted. For the multi-modular unit, when some units are being maintained, the entire air conditioning system can still operate normally to achieve maintenance without stopping the system



Application



Hotels



Hospitals



Office Buildings



Shopping Malls

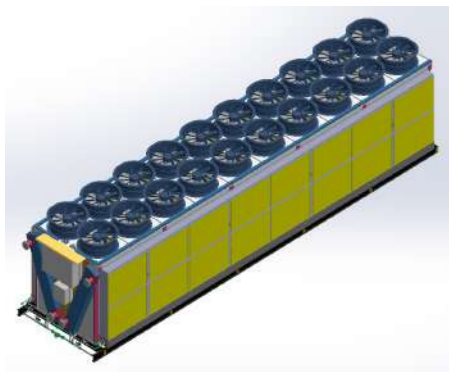


Apartments



Factories

TICA Solutions--Wet Film Dry Cooler



«TICA PRO» LLC
 Tel: +7 (495) 127-79-00
 E-mail: info@tica.pro
 www.tica.ru



TICA Dry Cooler

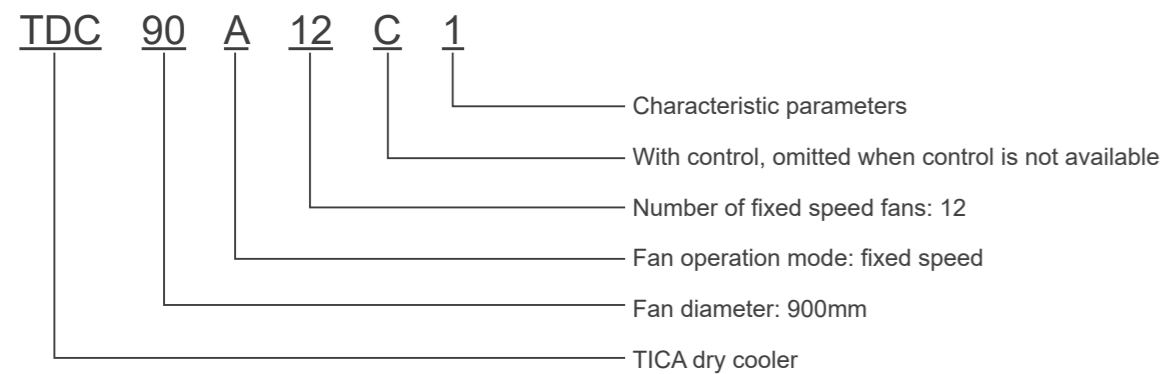
TICA Dry Cooler

Overview

TICA TDC series dry coolers are used for cooling and heat dissipation for the chiller equipment of central air conditioning. The unit features compact structure, high reliability and good efficiency. It adopts the most advanced control technology, and can implement multi-unit control and remote control and connect to the chiller equipment control system.



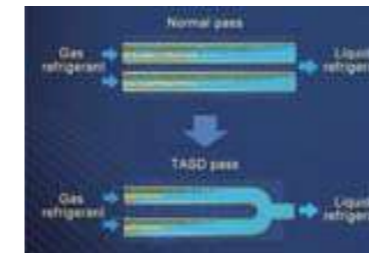
Nomenclature



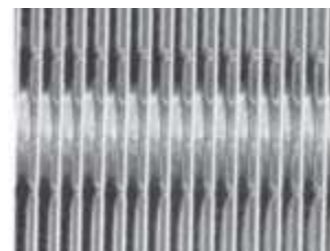
High Exchanger

Heat exchanger

- ▶ The heat exchanger adopts the V-type design. Each heat exchanger module uses the water supply mode of the same way to minimize the hydraulic imbalance rate of each flow path and realize uniform heat exchange of every module.
- ▶ The waterway pressure loss is reduced through reasonable flow path design.



- ▶ The heat exchanger adopts copper pipes covered with aluminum fins, and the high efficiency heat exchange tube together with the fenestrated aluminum fin can greatly improve the heat exchange capability of the heat exchanger and make the system more energy efficient.



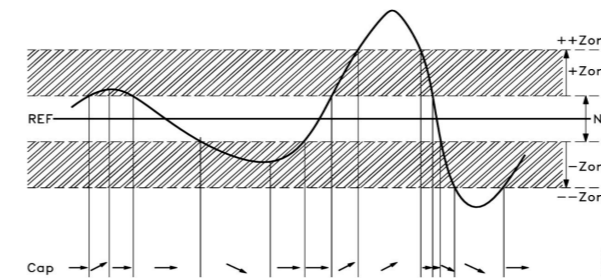
Fenestrated aluminum fin



Heat exchange tube

Unique Control Mode

This series of products of TICA provide a unique control mode. They can adjust the number of operating fans and implement the optimal outlet water temperature of the unit according to the outdoor ambient temperature and the return water temperature of the air conditioning system, and automatic adaptive adjustment to the unit's set outlet temperature. It greatly reduces power consumption of the chiller and saves the operation cost for users on the premise of satisfying the indoor cooling/heating capacity and comfort requirements.



High Reliability

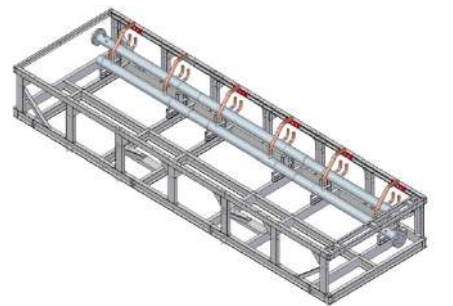
Material

Fan
The unit adopts axial fan, which consists of an AC asynchronous motor with the aluminum alloy shell and aluminum alloy blades. The top plate of the fan is made of a galvanized sheet of high quality, and the mesh enclosure uses high quality steel wires to prevent dirt from entering the fan impeller and affecting operation of the fan.



Bottom Frame

The bottom frame is made from channel steel, and undergoes electrostatic spraying for corrosion protection and rust prevention, so as to increase stability, reliability and operability of the unit.



Multi-protection

The intelligent control system monitors operation of the unit in real time to guarantee reliability. Fan motor overheating protection, overload protection and many other protection measures are provided to ensure safe operation of the unit.

