

COOLBOX

CENTRAL COOLING UNIT



Central Cooling Unit

Central cooling systems are package systems that can be used in offices, public housing, campuses, public buildings, factories and industrial facilities; in short, wherever cooling is needed.

Coolbox is a package system equipped with many auxiliary equipment that provides cooling of the building/area in the secondary circuit by using the energy of the cooled water in the primary circuit (chiller circuit).



Coolbox

Coolbox Series Central Cooling Unit

- Designed to be fully integrated with the chiller (cooling group).
- Designed for every capacity thanks to gasketed type plate heat exchangers. Maximum heat transfer is provided with minimum pressure loss without mixing the fluid in the primary circuit with the secondary circuit.
- Both primary and secondary circuits are equipped with all necessary installation equipment such as pumps, control valves, calorimeters, manometers, thermometers, expansion tanks, air purifiers, safety valves and shut-off valves with appropriate technical specifications and are offered with options in accordance with customer needs and expectations.

Cooling Functions

- With the chilled water coming from the chiller, the water in the secondary circuit is cooled by the cooling exchanger. In this way, cooling of the relevant spaces is ensured.
- Coolbox includes all kinds of chiller room equipment needed in cooling water circuits. It takes up little space thanks to its compact structure.

It maximizes thermal comfort by precisely measuring temperatures with its high precision sensors. Thanks to its standardized package structure, fault detection, maintenance and spare parts replacement are extremely easy and fast.

Optional Features

- Thanks to the automation panel specially designed and developed by TANPERA R&D Center, it can communicate with the building automation center and send operating values.
- Thanks to the intelligent design of the control panel and the “heat curve” feature, it automatically adjusts the consumption temperatures depending on the outside air temperature. In this way, energy efficiency is kept at the highest level.
- Pressure-independent balancing valves with electric actuators protect against unwanted temperature changes and high pressures by quickly shutting down the central cooling lines in case of power failure or malfunction.
- The chiller can be integrated into the Coolbox system and offered to the customer as a package.
- It provides tailor-made cooling with different operating modes and programmable operating times.
- Measures consumption values with MID certified calorimeter.
- To prevent condensation and minimize energy losses for isolation.

Since Coolbox central cooling unit is produced by our company with all its equipment under factory conditions, the following important advantages are provided to the customer.

Advantages

- Can be produced in the required capacity.
- Provides economical cooling water production.
- Provides high thermal comfort with minimum temperature fluctuation.
- No long working times at the construction site, easy to assemble and install at the construction site.
- Since standard equipment is used, spare parts supply is easy, service is fast and practical.
- It takes up little space thanks to its compact design.
- Since all the equipment of the cooling room is presented as a package on a single chassis, transportation is easy and affordable.
- It provides the customer with a single technical and commercial contact, which makes it easy to purchase and operate.
- Before starting the production of Coolbox central cooling unit, the design of the unit with all the equipment included in it is presented to the customer for approval. In this way, the customer knows exactly the structure and all technical specifications of the unit to be purchased in advance, possible misunderstandings, technical deficiencies or inadequacies and unforeseen bad surprises are prevented.
- Since the technical design is carried out by a superior engineering team, the use of incomplete or faulty equipment is prevented.





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