

COOLBOX

CENTRAL COOLING UNIT



Central Cooling Unit

These packaged systems can be used in central cooling applications, offices, residential complexes, developments, campuses, public buildings, factories, and industrial facilities—in short, wherever cooling is required.

Coolbox is a packaged system equipped with a wide range of auxiliary components that uses chilled water from the primary circuit (chiller circuit) to provide cooling for the

Coolbox



Coolbox Series Central Cooling Unit

- Designed for full integration with chillers.
- Gasketed plate heat exchangers allow the unit to be configured for any required capacity. Maximum heat transfer is achieved with minimal pressure loss, without mixing the fluids in the primary and secondary circuits.
- Both the primary and secondary circuits are equipped with all required system components of suitable technical specifications—including pumps, control valves, heat meters, pressure gauges, thermometers, expansion vessels, air vents, safety valves, and isolation valves. The unit is supplied with options tailored to the customer's needs and expectations.

Cooling Functions

- Chilled water supplied by the chiller cools the water in the secondary circuit through the cooling heat exchanger, thereby providing cooling to the required spaces.
- Coolbox incorporates all chiller-plant components required for chilled-water circuits. Its compact construction requires minimal space.

High-precision sensors accurately measure temperatures to maximize thermal comfort. Thanks to its standardized packaged design, fault diagnosis, maintenance, and spare-parts replacement are exceptionally easy and fast.

Optional Features

- The automation panel, specially designed and developed by the TANPERA R&D Center, can communicate with the building management system and transmit operating data.
- Thanks to the smart control-panel design and heat-curve function, supply temperatures are automatically adjusted according to the outdoor temperature, maximizing energy efficiency.
- Pressure-independent balancing valves with electric actuators rapidly isolate the central cooling circuits during power failures or faults, protecting the system against unwanted temperature fluctuations and high pressures.
- A chiller can be integrated into the Coolbox system and supplied as a complete package.
- Different operating modes and programmable schedules provide cooling tailored to demand.
- An MID-certified heat meter measures consumption.
- The unit is insulated to prevent condensation and minimize energy losses.

Because the Coolbox central cooling unit is manufactured by our company under factory conditions with all its components, it provides the customer with the following



Advantages

- Can be manufactured in the required capacity.
- Provides economical chilled-water production.
- Delivers high thermal comfort with minimal temperature fluctuations.
- Easy to assemble and install on site, minimizing on-site work and commissioning time.
- The use of standard equipment ensures easy spare-parts availability and fast, practical servicing.
- Its compact design requires minimal space.
- As all cooling-plant equipment is supplied as a packaged unit on a single skid, transportation is easy and cost-effective.
- Provides the customer with a single technical and commercial point of contact, simplifying procurement and operation.
- Before production begins, the Coolbox central cooling unit is fully designed with all its components and submitted for customer approval. This enables the customer to know the unit's construction and complete technical specifications in advance, preventing misunderstandings, technical deficiencies, inadequate performance, and unforeseen issues.
- Its engineering design is developed by a highly qualified team, preventing the use of missing or incorrect equipment.



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