



TSU-C/F

Ice thermal storage



Key benefits

- Reliability: constant water supply temperature (1 to 2°C)
- Lowest first cost
- Energy saving

TSU-C/F characteristics

- External or internal ice melt
- Direct refrigerant or glycol feed

Capacity range

325 - 3692 kWh

Typical applications

- Industrial and process cooling
- Food processing
- Breweries
- Dairies



Other benefits are:

- Minimum maintenance
- Environmentally friendly
- Proven technology

Read more about the [TSU benefits](#).

Interested in TSU-C/F ice thermal storage tanks for your cooling project? Contact your local [BAC representative](#) for more information.

Downloads

- [TSU C/F internal and external melt](#)

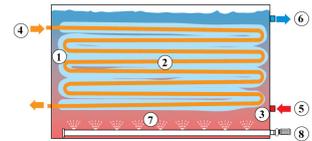


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Principle of operation

The TSU-C/F is an external melt system that produces and builds **ice (1)** around a **coil (2)** submerged in **water (3)**. A **refrigerant or cold glycol (4)** circulates through this, while ice accumulates on the outside. The ice is melted by circulating **warm water (5)** from the load over the coil, which **cools the water (6)**. Low pressure **air (7)** from an **air pump (8)** is distributed below the coil for water agitation.



Want to use the TSU-C/F ice storage system? Contact your local [BAC representative](#) for more information.

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Construction details

1. Material options

- Tank is constructed of heavy-gauge hot-dip **galvanized steel** for unit steel panels and structural elements, all with welded seams. Tank includes high quality **insulation**.
- Baltiplus 810TM coating .



2. Coil

The coil is constructed of continuous length of **prime surface steel**, hot-dip galvanized after fabrication. Designed for maximum 10 bar (glycol) or 22 bar (ammonia) operating pressure according to PED.

3. Construction

- Factory assembled construction (except air pump).
- **Air distribution system** consists of multiple **perforated PVC pipes** and **air pump**.
- **Ice logic ice thickness controller (option)**: sensor on coil for deactivation of refrigerant compressor at full ice build.

Like to know more about the TSU-C/F construction details? Contact your [local BAC representative](#).