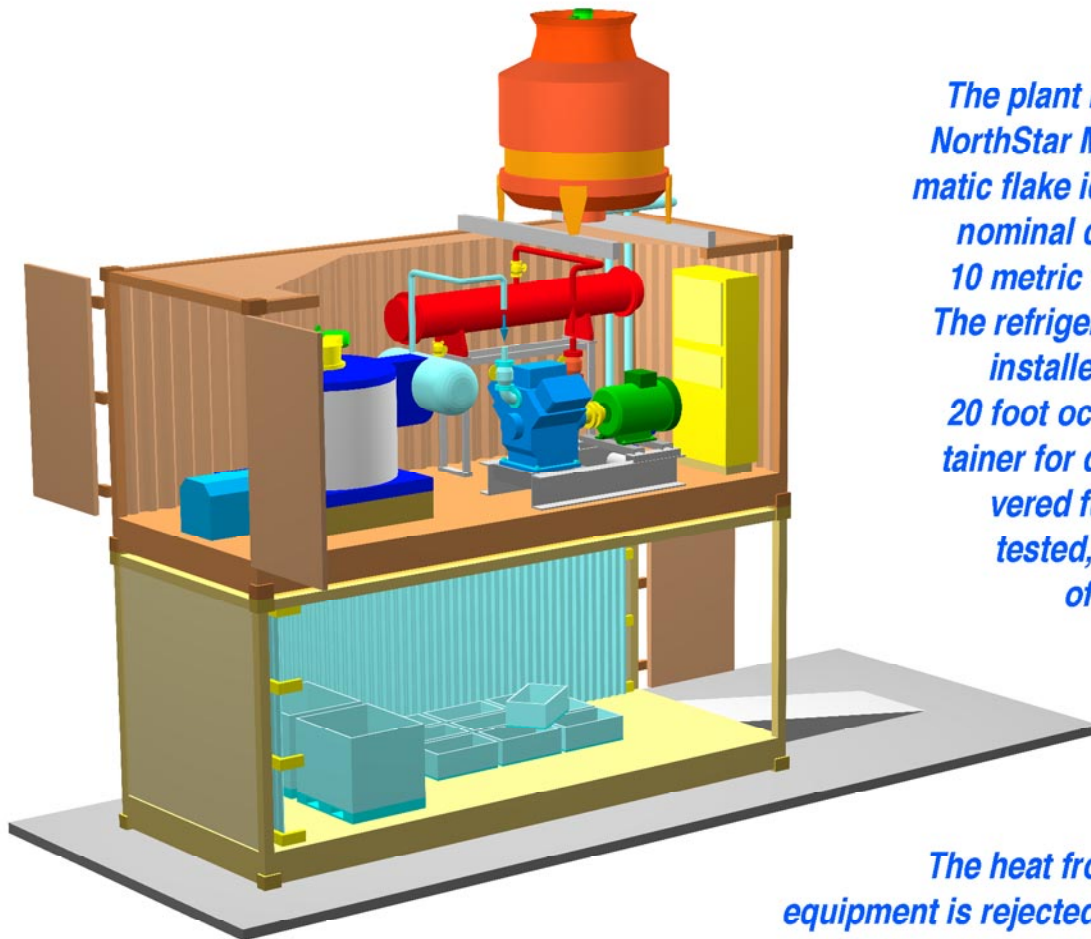


# Automatic Flake Ice Plant

Production Capacity: 10 mTonnes/24h

Storage Capacity: 12-15 mTonnes

**Packaged and Movable** (Transportable)

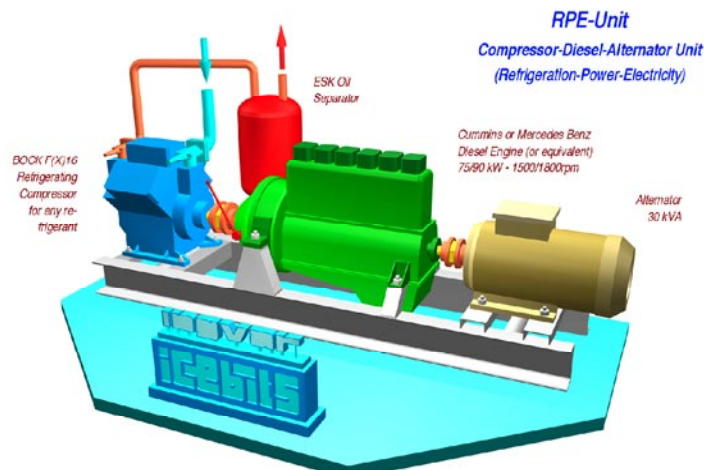


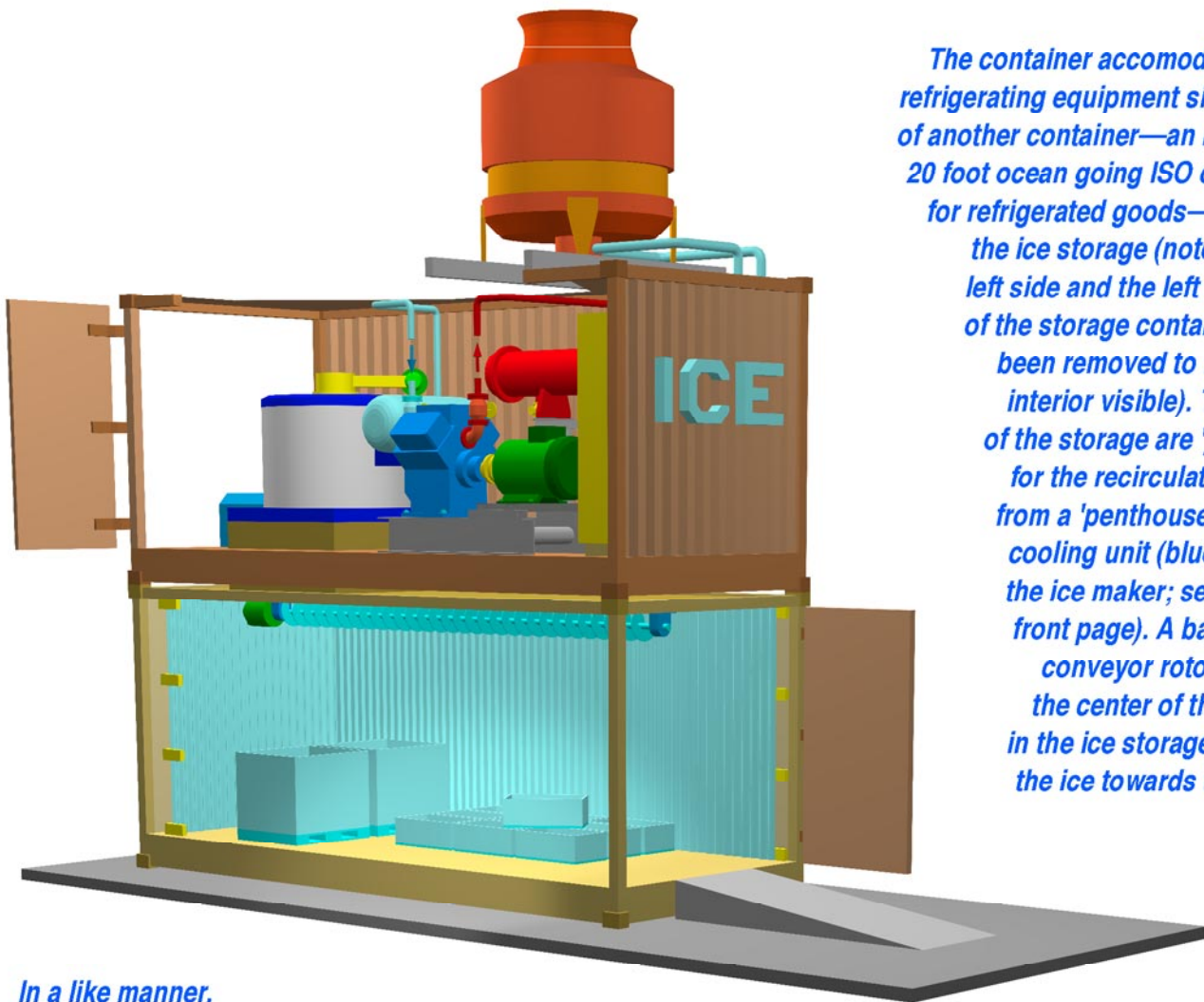
The plant is built up around a NorthStar Model M-20CS automatic flake ice maker. It has the nominal capacity to produce 10 metric tonnes in 24 hours. The refrigeration equipment is installed in a conventional 20 foot ocean going ISO container for dry goods. It is delivered fully assembled and tested, ready for charging of the refrigerant and commissioning.

The heat from the refrigerating equipment is rejected to the atmosphere through the cooling tower on top of the container.

## The RPE Arrangement

Replacing the conventional compressor package with an **RPE Unit** will make the flake ice factory self-sufficient and independent of other sources of energy than diesel fuel. The **RPE Unit** is built up from a reciprocating compressor, directly coupled to the flywheel end of an industrial diesel engine over a manual disengaging clutch. Off the front end, the engine drives an alternator generating electric power for auxilliary motors in the plant—such as pumps, fans and the ice conveyor—and for lighting.





*The container accomodating the refrigerating equipment sits on top of another container—an insulated 20 foot ocean going ISO container for refrigerated goods—housing the ice storage (note that the left side and the left door leaf of the storage container have been removed to make the interior visible). The walls of the storage are 'jacketed' for the recirculation of air from a 'penthouse' type air cooling unit (blue, next to the ice maker; see picture front page). A bare screw conveyor rotor—along the center of the ceiling in the ice storage—draws the ice towards the front.*

*In a like manner, a flake ice factory with a capacity to produce 25 mTonnes in 24 hours, with a storage space for 30 mTonnes, can be accomodated in two 40 foot containers—one on top of the other. For larger outputs, the refrigerating machinery would with preference be delivered packaged or skidded, or in a separate container, and the ice maker(s) installed on top of a locally erected storage room with remote controlled ice rake and delivery systems.*

*The factories are built up from 2ndH Equipment (used and reconditioned) - or **NEW***

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