

## General description

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This plant is a cooling plant for production of flake ice (artificial snow). The cooling plant is designed as compression refrigeration system. All components of the cooling plant are installed in or on a sea freight container as a functional unit. The sea freight container is the refrigerator machine room. This containerized cooling plant is a mobile unit and can be operated at different installation locations.

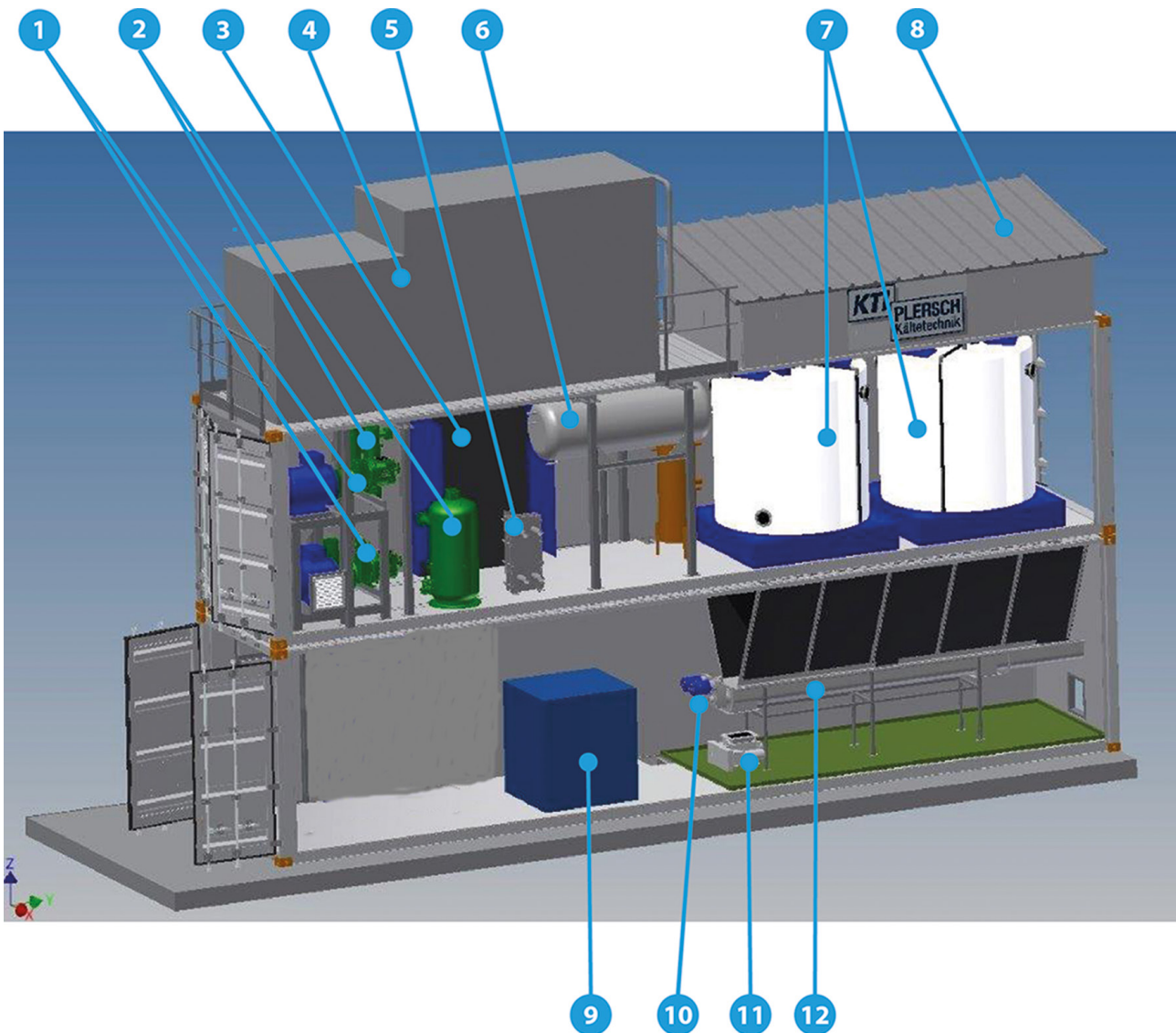
## Operating principle

The flake ice plant works with capacity regulated compressors. The control of the compressors is done suction pressure dependent.

The operation of the flake ice plant is controlled by a PLC control system in conjunction with pressure transmitter, flow rate monitor, maximum level limiter, temperature sensors, etc.

The oil supply of the screw compressor is done from the oil separator as well as from the oil management system of the screw compressor.

Overview



Position	Description
1	Compressors (3x)
2	Oil separators (2x)
3	Switch board
4	Evaporative condenser
5	Oil cooler
6	Refrigerant separator
7	Ice makers (2x)
8	Exhaust ventilator (below roof)
9	Blower
10	Motor double screw conveyer
11	Rotary valve
12	Double screw conveyer