

# BOE – THERM

## CoolMaster®

220-240V/380-415V/50Hz

Range: X1

### Water Cooler with Tank and Pump *Automatic & Manual Filling*



**FOR A PERFECT COOLING  
IN INDUSTRIAL PROCESS  
WATER SYSTEMS**

**CFK and HCFK-free**

The CoolMaster is a complete and plug-in type of DTE product which fully meets all European directives, safety, and quality standards, such as CE, EN 292, EN 1050, EN 60204, EN 378 and PED directive 97/23/EG. All DTE products are developed and constructed in accordance with ISO 9001. Standard documentation supplied with all machines: Pressure test certificate, refrigeration charge/evacuation certificate, leakage testing approval, system check certificate, instruction card and a machine operating and maintenance manual.

All certificates issued in conformance with European and local laws governing construction of refrigeration.



The **CoolMaster** consists of components from the standard production range of well-known suppliers. All building elements are fitted in such a way that they are not only easily accessible but also easily exchangeable. Careful selection, calculation and set-up of the components is achieved using computer programmes DTE designed especially for this purpose. In this way DTE houses the maximum cooling capacity in a minimum of space.

In the **CoolMaster** only durable materials are used. DTE leaves nothing to chance and chooses knowingly for a robust housing fitted with stainless steel foot mounts. These foot mounts are provided with M12 thread holes at the underside to enable direct mounting onto customer's steelwork.

The insulated stainless steel water tank in the **CoolMaster** is sealed tight to prevent any possible algal growth caused by the incidence of light.

Furthermore, the warm air produced by the condensers does not remain in the **CoolMaster**, but is blown out directly by powerful axial fans. These important DTE constructional features guarantee the long life of the **CoolMaster**.

#### The **CoolMaster** includes the following components:

- ✓ **heat exchanger** (evaporator) made of **stainless steel** corrugated plates,
- ✓ digital **temperature controller** with adjustable limitation and display for reading out measured values,
- ✓ a pressure limited **thermostatic expansion valve**,
- ✓ an industrial **multi-stage centrifugal pump** with impellers, shaft and other key components made of **stainless steel**,
- ✓ **by-pass** for water pump protection,
- ✓ hermetically sealed and suction gas cooled **compressor**, protected at high and low pressure by a **pressostat**,
- ✓ an air-cooled **condenser** specially designed by DTE, fitted with copper pipes and aluminium fins,
- ✓ industrial **axial fans** which directly blows the hot condenser air horizontally to outside,
- ✓ a closed **water tank** made of **stainless steel**, which also has been provided with **insulation**, a **float** for automatically refilling, **manual filling device**, and **sight glass**,
- ✓ **Water tank level alarm**, (machine will switch off),
- ✓ a **switch box** provided with all necessary **protections**,
- ✓ connection for **external start/stop** (Volts-Free Contact).

