BOE - THERM



Water Cooler with Tank and Pump Automatic & Manual Filling



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. FOR A PERFECT COOLING IN INDUSTRIAL PROCESS WATER SYSTEMS

CFK and HCFK-free



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 condenser does not remain in the **CoolMaster**, but is blown out directly by a powerful axial fan. 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,
- ✓ an industrial axial fan which directly blows the hot condenser air horizontally to outside,
- a closed water tank make 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).

CooMaster[®] 20-240V/380-415V/50Hz Range: M1

Dimensions in mm.



- E = Overflow water tank, 1/2" BSP outside thread
- F = Bushing coupling electrical supply cable, PG-21
- P = Sight glass

Options

Besides the **CoolMaster** standard programme, DTE also offers customized **CoolMaster**'s which are calculated and built according to your specifications. The modular construction of the **CoolMaster** allows fast and simple adaptation to your specifications. DTE has almost all components for extra features available from stock.

Some of these are:

- ✓ full compliance with the country dependent standards and regulations,
- ✓ a circulation pump of a different capacity,
- ✓ adaptation to all voltages and frequencies,
- ✓ housing fitted with wheels,
- ✓ adaptation to extreme environmental conditions,
- ✓ temperature adjustment and/or readable by remote control,
- ✓ extra feature for outdoor use with frost protection,
- ✓ condenser for external set-up,
- ✓ integration of water-cooled condenser instead of an air cooled condenser,
- ✓ water piping in copper or stainless steel,



TYPE- NUMBER	**Cooling capacity at 15°C	**Cooling capacity at 5°C	Tension / Frequency	Circulation cooling water at ∆p 2,5 bar	** Rated power input	** Rated current	* Maximum current	Water- tank volume	Air quantity	'Y'
	Watt	Watt	V/Hz	l/h	kW	Amp.	Amp.	litres	m³/h	~ kg
K-017.4	17.370	12.420	220-240 / 380-415/50	2.480	5,90	13,06	20,56	84	5.210	299

* Maximum permissible load.

** At an ambient temperature of 27°C.





Conversion values: 1 W = 1 J/s = 0,86 kcal/hTechnical specifications under subject to change.

Option: Different tensions							
3x200V/50Hz	3x400V/50Hz						
3x200V/60Hz	3x415V/50Hz						
3x220V/50Hz	3x440V/60Hz						
3x220V/60Hz	3x460V/50Hz						
220-380V/60Hz	3x460V/60Hz						
3x380V/50Hz	3x480V/60Hz						
3x380V/60Hz	3x575V/60Hz						

TECHSPANGROUP

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