BOE-THERM

1 x 220-240V / 50Hz

Range: K2

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 rubber legs. These legs are easily removable to enable direct mounting onto customers 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.

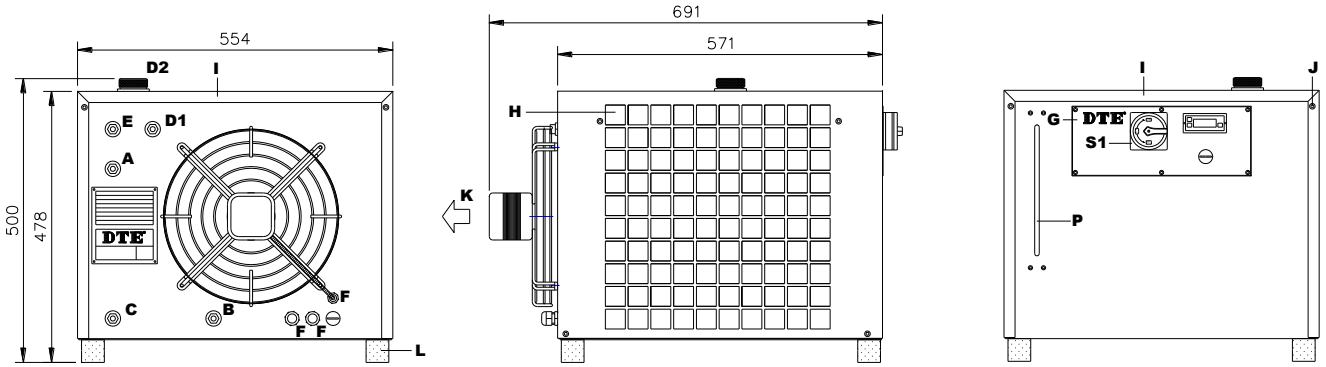
These important DTE constructional features guarantee the long life of the ***CoolMaster***.

The *CoolMaster* includes the following components:

- ✓ ***Tube-coil heat exchanger*** (evaporator) made of ***stainless steel***,
- ✓ digital ***temperature controller*** with adjustable limitation and display for reading out measured values,
- ✓ a pressure limited ***thermostatic expansion valve***, (except. K-001.0 en de K-001.7 capillaire injection)
- ✓ 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***,
- ✓ 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***,
- ✓ a ***switch box*** provided with all necessary ***protections***,
- ✓ connection for ***external start/stop*** (Volts-Free Contact).
- ✓ All **connections** on the back of the machine, no hoses or cables are visual

1 x 220-240V / 50Hz Range: K2

Dimensions in mm.



A = Cooling water inlet, ½" BSP outside thread
B = Cooling water outlet, ½" BSP outside thread
C = Drainvalve, ½" BSP inside thread
D_1 = Filling water inlet, ½" BSP outside thread
D_2 = Manual filling device
E = Overflow water tank, ¾" BSP outside thread
F = Bushing coupling electrical cable, PG-13,5
G = Control panel
H = Ingoing condenser air
I = Removable cover
J = Fixing bolts cover
K = Outgoing condenser air
L = Rubber legs
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:

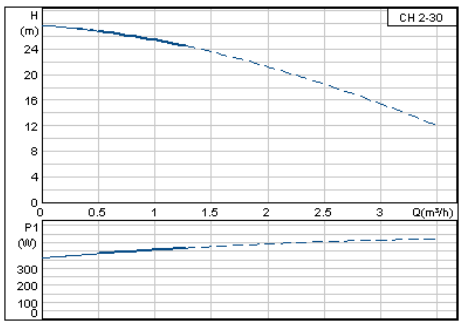
- ✓ full compliance with the country dependent standards and regulations,
- ✓ adaptation to all voltages and frequencies,
- ✓ housing fitted with wheels instead of rubber legs,
- ✓ adaptation to extreme environmental conditions,
- ✓ temperature adjustment and/or readable by remote control,
- ✓ protection against run-dry circulation pump,
- ✓ 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	** Rated power input	** Rated current	* Maximum current	Water-tank volume	Air quantity	
	Watt	Watt	V/Hz	l/h	kW	Amp.	Amp.	litres	m^3/h	~ kg
K-001.0	990	710	1x220-240/50	CH2-20	0,85	4,35	5,05	23	1.180	80
K-001.7	1.720	1.270	1x220-240/50	CH2-20	0,87	4,42	5,17	23	1.180	80
K-003.6	3.550	2.520	1x220-240/50	CH2-30	1,33	6,27	8,47	23	1.180	81
K-004.9	4.850	3.510	1x220-240/50	CH2-30	1,90	9,07	11,47	23	1.180	89

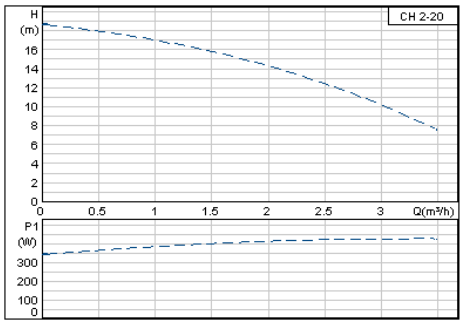
***** Maximum permissible load.
****** At an ambient temperature of 27°C.
******* For head pressure water pump, see pump graphic.

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

CH2-30



CH2-20



Option
Different tensions

1x200V/60Hz
3x110V/60Hz
3x220V/50Hz
3x220V/60Hz
220-240 / 380-415V/50Hz
3x440V/60Hz
3x460V/60Hz
3x480V/60Hz
1x230V/60Hz

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

Range: S1

Water Cooler with Tank and Pump

Automatic & Manual Filling

FOR A PERFECT COOLING IN INDUSTRIAL PROCESS WATER SYSTEMS

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

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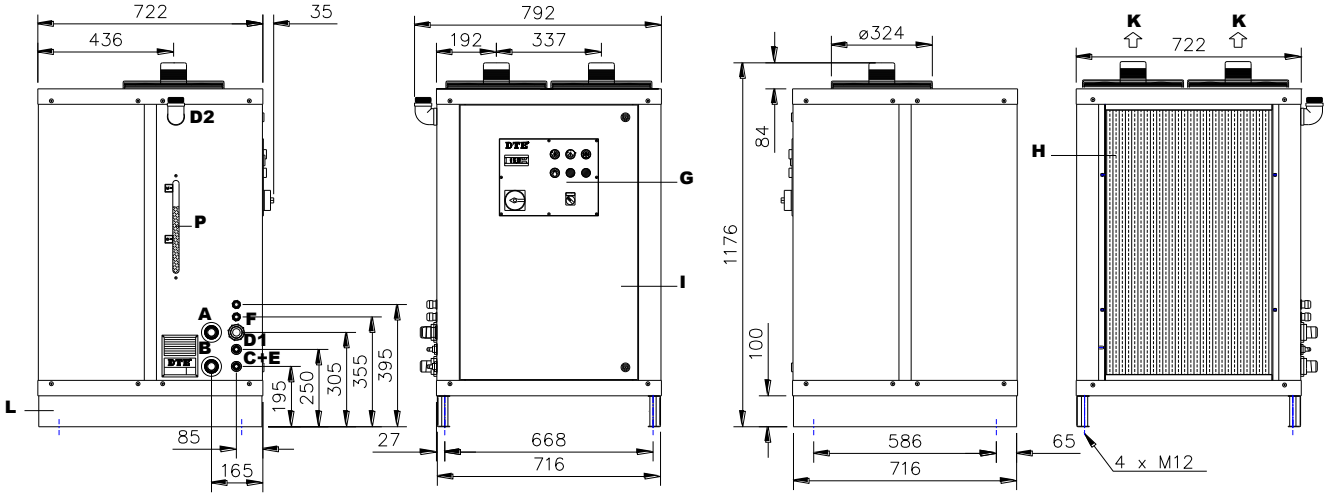
The *CoolMaster* includes the following components:

- ✓ ***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*** 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).

220-240V/380-415V/50Hz Range: S1

Dimensions in mm.



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C = Drain, ½" BSP inside thread
D_1 = Filling water inlet, ½" BSP outside thread
D_2 = Manual filling device
E = Overflow water tank, ½" BSP outside thread
F = Bushing coupling electrical supply cable, PG-16
G = Control panel
H = Ingoing condenser air
I = Service panel / Switch Box door
K = Outgoing condenser air
L = Stainless steel foot mounts, 2 pieces
P = Sight glass

Options

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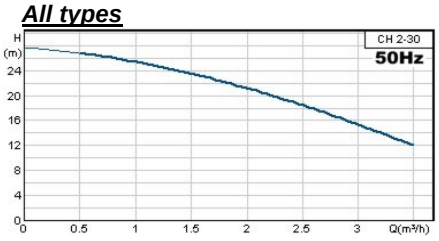
- ✓ a circulation pump of a different capacity,
- ✓ adaptation to all voltages and frequencies,
- ✓ housing fitted with wheels,
- ✓ adaptation to extreme environmental conditions,
- ✓ temperature adjustment and/or readable by remote control,
- ✓ extra feature for outdoor use with frost protection,
- ✓ condenser for external set-up,
- ✓ integration of water-cooled condenser instead of an air cooled condenser,
- ✓ water piping in copper or stainless steel,
- ✓ lamella type air inlet grille for protection of the condenser. See picture ››››››››››››››››››››››

TYPE-NUMBER	**Cooling capacity at 15°C	**Cooling capacity at 5°C	Tension / Frequency	Circulation cooling water at Δp 2,5 bar	** Rated power input	** Rated current	* Maximum current	Water-tank volume	Air quantity	
	Watt	Watt	V/Hz	l/h	kW	Amp.	Amp.	litres	m^3/h	~ kg
K-004.7	4.690	3.140	220-240 / 380-415/50	670	1,64	8,39	11,89	45	2.600	160
K-005.5	5.470	3.930	220-240 / 380-415/50	780	1,71	8,54	12,04	45	2.600	160
K-007.6	7.630	5.410	220-240 / 380-415/50	1.090	2,54	6,98	9,04	45	2.600	176

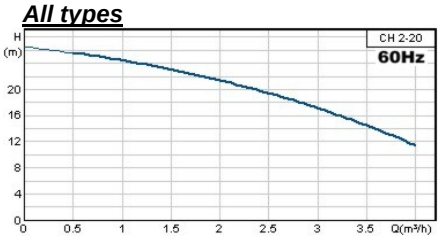
***** Maximum permissible load.
****** At an ambient temperature of 27°C.

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

All types



All types



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

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

Range: S2

Water Cooler with Tank and Pump

Automatic & Manual Filling

FOR A PERFECT COOLING IN INDUSTRIAL PROCESS WATER SYSTEMS

CFK and HCFK-free

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- ✓ an industrial ***multi-stage centrifugal pump*** with impellers, shaft and other key components made of ***stainless steel***,
- ✓ ***by-pass*** for water pump protection,
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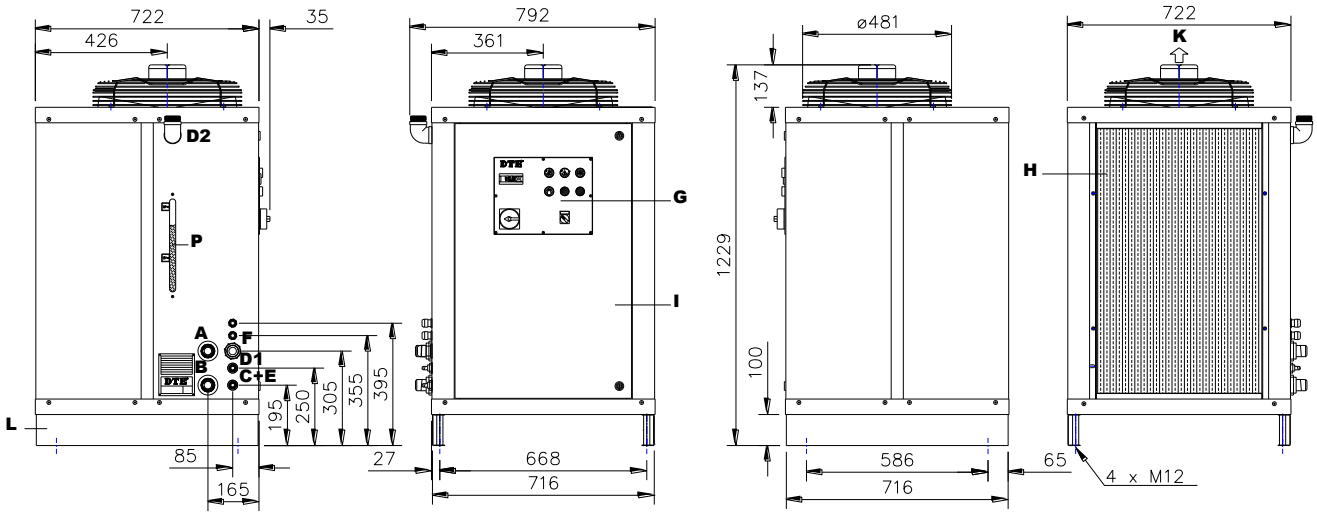
- ✓ a closed ***water tank*** make of ***stainless steel***, which also has been provided with ***insulation***, a ***float*** for automatically refilling, ***manual filling device***, and ***sight glass***,
- ✓ ***Water tank level alarm***, (machine will switch off),
- ✓ a ***switch box*** provided with all necessary ***protections***,
- ✓ connection for ***external start/stop*** (Volts-Free Contact).

220-240V/380-415V/50Hz Range: S2

Dimensions in mm.



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C = Drain, ½" BSP inside thread
D_1 = Filling water inlet, ½" BSP outside thread
D_2 = Manual filling device
E = Overflow water tank, ½" BSP outside thread
F = Bushing coupling electrical supply cable, PG-16
G = Control panel
H = Ingoing condenser air
I = Service panel / Switch Box door
K = Outgoing condenser air
L = Stainless steel foot mounts, 2 pieces
P = Sight glass

Options

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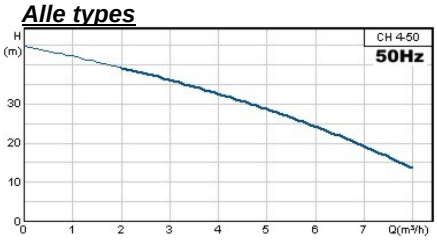
- ✓ condenser for external set-up,
- ✓ integration of water-cooled condenser instead of an air cooled condenser,
- ✓ water piping in copper or stainless steel,
- ✓ lamella type air inlet grille for protection of the condenser. See picture ››››››››››››››››››››

TYPE-NUMBER	**Cooling capacity at 15°C	**Cooling capacity at 5°C	Tension / Frequency	Circulation cooling water at Δp 2,5 bar	** Rated power input	** Rated current	* Maximum current	Water-tank volume	Air quantity	
	Watt	Watt	V/Hz	l/h	kW	Amp.	Amp.	litres	m^3/h	~ kg
K-008.9	8.950	6.370	220-240 / 380-415/50	1.280	3,60	6,69	8,75	45	5.210	197
K-012.1	12.140	8.110	220-240 / 380-415/50	1.730	4,25	7,95	11,35	45	5.210	200
K-014.5	14.530	10.100	220-240 / 380-415/50	2.080	4,67	8,35	11,75	45	5.210	200

***** Maximum permissible load.
****** At an ambient temperature of 27°C.

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

Alle types



Alle types

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

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

Range: L1

Water Cooler with Tank and Pump

Automatic & Manual Filling

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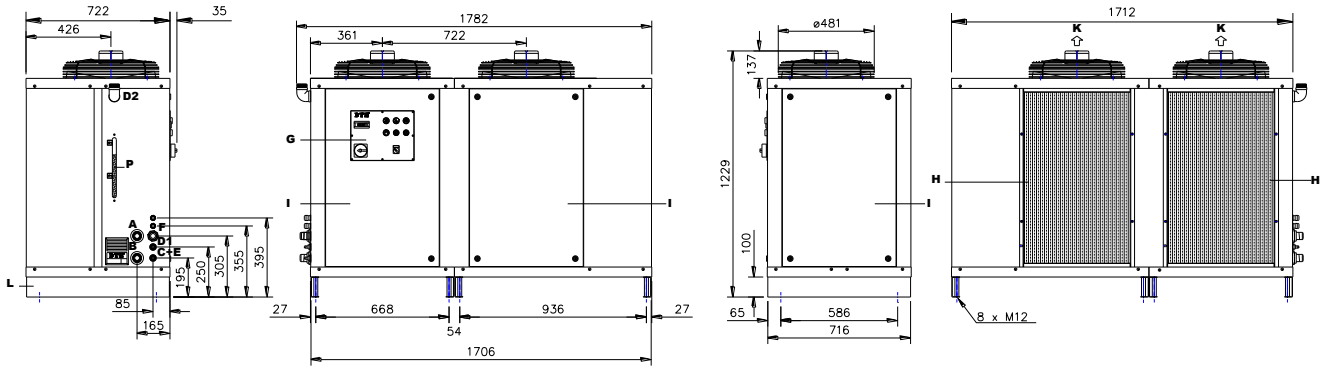
220-240V/380-415V/50Hz Range: L1

Dimensions in mm.



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D_1 = Filling water inlet, ½" BSP outside thread
D_2 = Manual filling device
E = Overflow water tank, ½" BSP outside thread
F = Bushing coupling electrical supply cable, PG-29
G = Control panel
H = Ingoing condenser air
I = Service panel / Switch Box door
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L = Stainless steel foot mounts, 2 pieces
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Options

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	Watt	Watt	V/Hz	l/h	kW	Amp.	Amp.	litres	m^3/h	~ kg
K-019.3	19.260	13.530	220-240 / 380-415/50	2.750	5,51	13,21	21,51	140	10.420	392
K-023.4	23.370	16.320	220-240 / 380-415/50	3.340	6,46	14,61	24,51	140	10.420	394
K-027.8	27.790	19.890	220-240 / 380-415/50	3.970	7,84	16,41	21,51	140	10.420	392
K-032.1	32.110	23.370	220-240 / 380-415/50	4.590	9,64	19,31	24,51	140	10.420	394

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****** At an ambient temperature of 27°C.

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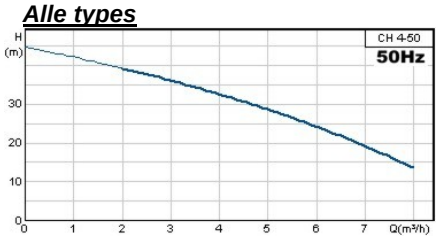
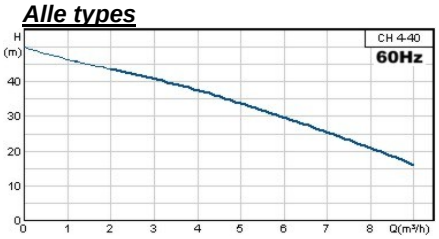
Technical specifications under subject to change.

Alle types



Alle types



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

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

Range: X1

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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.

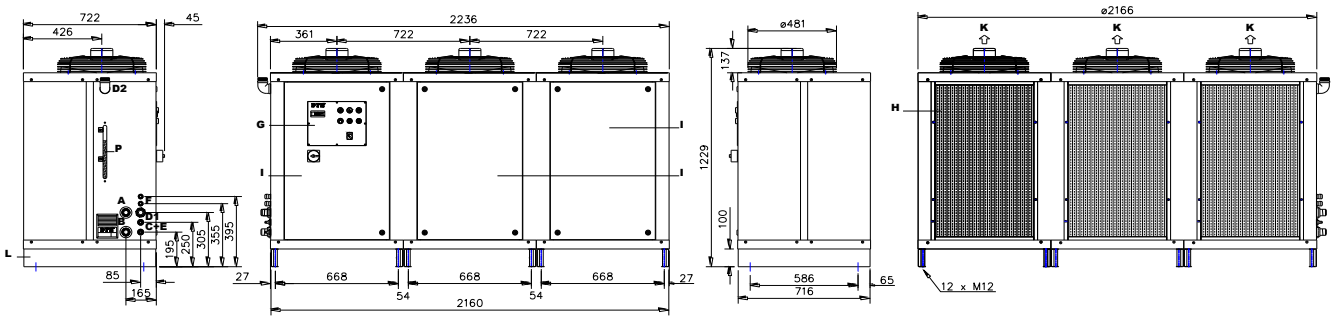
Furthermore, the warm air produced by the condensers does not remain in the ***CoolMaster***, but is blown out directly by powerful axial fans. These important DTE constructional features guarantee the long life of the ***CoolMaster***.

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*** 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).

220-240V/380-415V/50Hz Range: X1

Dimensions in mm.



A = Cooling water inlet, 1¼" BSP outside thread
B = Cooling water outlet, 1¼" BSP outside thread
C = Drain, ½" BSP inside thread
D_1 = Filling water inlet, ½" BSP outside thread
D_2 = Manual filling device
E = Overflow water tank, ½" BSP outside thread
F = Bushing coupling electrical supply cable, PG-29
G = Control panel
H = Ingoing condenser air
I = Service panel / Switch Box door
K = Outgoing condenser air
L = Stainless steel foot mounts, 2 pieces
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:

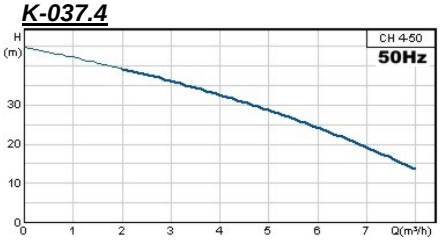
- ✓ full compliance with the country dependent standards and regulations,
- ✓ a circulation pump of a different capacity,
- ✓ adaptation to all voltages and frequencies,
- ✓ housing fitted with wheels,
- ✓ adaptation to extreme environmental conditions,
- ✓ temperature adjustment and/or readable by remote 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,
- ✓ lamella type air inlet grille for protection of the condenser. See picture ››››››››››››››››››››

TYPE-NUMBER	**Cooling capacity at 15°C	**Cooling capacity at 5°C	Tension / Frequency	Circulation cooling water at Δp 2,5 bar	** Rated power input	** Rated current	* Maximum current	Water-tank volume	Air quantity	
	Watt	Watt	V/Hz	l/h	kW	Amp.	Amp.	litres	m^3/h	~ kg
K-037.4	37.370	26.320	220-240 / 380-415/50	5.340	9,82	23,77	39,77	140	15.630	608
K-044.7	44.740	31.470	220-240 / 380-415/50	6.390	12,23	26,87	45,97	140	15.630	613
K-050.5	50.530	36.840	220-240 / 380-415/50	7.220	15,77	30,37	39,77	140	15.630	608

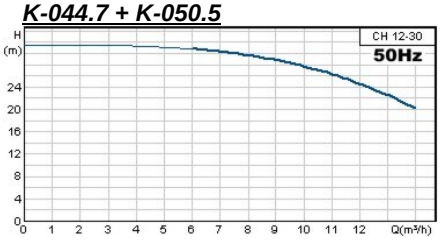
***** Maximum permissible load.
****** At an ambient temperature of 27°C.

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

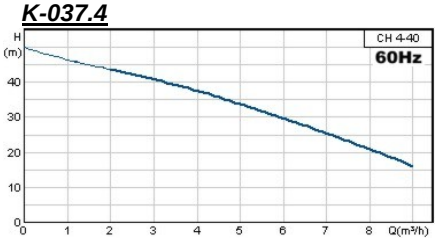
K-037.4



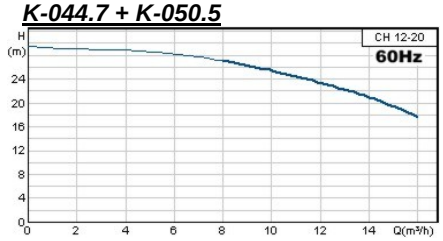
K-044.7 + K-050.5



K-037.4



K-044.7 + K-050.5



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

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