power to transform



The base.line

The inexpensive ones!

base.line



Appreciated around the globe:

our product portfolio.



Cold-water

temperature

controllers



Compact water chillers



Industrial cooling equipment



Free cooling systems



Central cooling

systems





Water treatment systems

Process monitoring with vortex or

HotCooled solutions -

in a unique temperature spectrum.



controllers

Cooling and water supply systems

Innovative, efficient, sustainable.



Basic standard

temperature

controllers



Innovative standard temperature controllers

Temperature control units

Highly efficient premium temperature

Temperature

controllers with

water distributors



Customised premium temperature controllers





Customised premium temperature control machines





Temperature control systems



Variothermal temperature control systems

We have the perfect solution for you!

Our temperature control units are divided into four product lines: **base.line**, **high.line**, **eco.line** and **flex.line**. These temperature control units differ essentially in their operating concept with regard to comfort, analysis functions, and the efficiency technology that is being applied. The temperature controller series of the **base.line**, **high.line** and **eco.line** is largely preconfigured with extensive features and can be customized with individual options.

The performance range of the preconfigured temperature controllers includes units with a heating capacity of up to 36 kW, a flow rate of up to 230 l/min and a media temperature of up to 180 °C.

In the **flex.line** series, the temperature controller can be individually and flexibly configured on request with extensive features and numerous options. The performance range of the flexible temperture controllers includes units with a heating capacity of up to 72 kW, a flow rate of up to 350 l/min and a media temperature of up to 350 °C.

A special feature of almost all standard technotrans temperature control units is the longlife heater with zero-loss heat transfer. Together, all four product lines and both degrees of individualisation stand for high quality and reliability, as well as the "MADE IN GERMANY" label.

The "longlife" stainless steel heating cartridges used in the **high.line** and **eco.line** come with an additional 10-year long-term guarantee.

Our product lines and their key features!

base.line

high.line

⊖eco.line



flex.line

Efficient

Ø

Reduced energy and operating costs through the use of high-efficiency pump designs, performancecontrolled pump drives, and optimized heat transfer.

Sustainable

Ø)

Both customers and the climate benefit in the long term from resource- saving operation – efficient cooling and tem-perature control solutions not only reduce operating costs, but also protect the environment.

The inexpensive ones!

In terms of its efficiency and user-friendliness, the **base.line** series is in line with the current "simpler" market standard which is based on peripheral pumps.

The individual ones!

In terms of its efficiency and user-friendliness, the **high.line** series is in line with the current "more sophisticated" market standard which is based on peripheral or centrifugal pumps.

The efficient ones!

The **eco.line**, with its peripheral impeller and highly efficient centrifugal pumps, in combination with speed control, sets new standards in the market in terms of efficiency and ease of use.

The flexible ones!

The **flex.line** allows a high degree of freedom in unit configuration. Customer requirements can be met individually from a comprehensive modular system.

\bigcirc

Reliable

High process and operational reliability – in combination with proven technology – ensure high quality, availability, and reproducibility; for example, extremely precise tem- perature control ensures reliable processes.



Innovative

Efficient cooling and temperature control systems ensure consistent performance and extend the service life of the processes. Low-vibration, smoothrunning, and efficient solutions reduce the CO2 footprint.

Features of the product lines!

The devices, designed in a modern industrial design, stand for high-quality but affordable technology, high availability, ease of operation and ease of service.

The temperature control units of the **base.line** are our investment-cost-optimized standard units for an economical temperature control with water at temperatures up to 180 °C and flow rates up to 200 I/min. The **base.line** unit with its simple operation via a membrane keypad with 7-segment display is the preferred solution for many applications with an excellent price/performance ratio.

The basic equipment includes the microprocessor control technotrans basicControl with display of set and actual temperatures, automatic replenishment, automatic mold draining, an energy-saving continuous heating control and much more.

For individualization, among other things, different interfaces, individual coloring and labeling, mounting on rubber buffers or rails instead of rollers and other useful options are offered.

The temperature control units of the **high.line** are also investment-cost-optimized standard units for economical and at the same time particularly convenient temperature control with water at temperatures up to 180 °C and flow rates up to 230 l/min.

The **high.line** and **eco.line** series with the innovative technotrans compactControl controller is equipped with a fast 32-bit processor.

This features the independent, self-developed logotherm display and operating unit with 7-inch multitouch display, intuitive user interface and user-friendly menu navigation.

ø base.line	Тур	Medium	Temperature- range [°C]	Heating power max. [kW]	Cooling power max. [kW]	Pump capacity Modulating duty max. [l/min / bar]
Direct cooling	teco cd 95 base 60	water	95	9	52	60 (6,0)
(cd)						

Indirect cooling (ci/cw/ct)

teco ci 95 base 60 se	water	95	9	23 (75)	60/3,8 (60)
teco ci 95 base 60	water	95	9	23 (75)	60/3,8 (6,0)
teco ci 140 base 60	water	140	9	120	60/6,3
teco ci 160 base 60	water	160	9	120	60/6,0
teco ci 180 base 60	water	180	9	120	60/6,0
teco ci 95 base 150	water	95	9/10/27/36	250	150/5,0
teco ci 95 base 200	water	95	9/10/27/36	250	200/5,0
teco ct 130 base 60	thermal oil	130	6	30	57/6,8
teco cw 25 base 4	water	0 – 25	-	4	60/3,5
teco cw 25 base 10	water	0 – 25	-	10	60/5,8

Our temperature control units at a glance!

95 °C



95 °C teco ci base (indirectly cooled)

teco cd base

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(indirectly cooled) 130 °C teco cw base

teco ct base



Page 15

(indirectly cooled) Cooling unit [glycol-free water] 0 bis 25 °C

teco ci base se (indirectly cooled) Temperature control unit [water]

base.line

(directly cooled) Temperature control unit [water]

Temperature control unit [water] 95 °C, 140 °C, 160 °C, 180 °C

Temperature control unit [thermal oil]

The product line **b**ase.line se



The base.line se are our "low-profile" devices as an all-in-one solution with an optimal price-performance ratio. The series is optimal for global use. A 50 Hz version, a 60 Hz version and a flexible bifrequency version are available. The 60 Hz and bifrequency versions are characterized by an by an enlarged heat exchanger surface with high cooling capacity.

» All-in-one solution for global deployment «

teco ci base se - temperature control units with indirect cooling in 95 °C version



- stainless steel "longlife" heating cartridge
- Long-life peripheral impeller pump without mechanical seal
- Stainless steel tank

- Profinet or OPC UA)

- Customised paint on request

N	Model teco	ci 95 base 60 se (01)	ci 95 base 60 se (02)	ci 95 base 60 se (03)	
N	Medium	water	water	water	
Т	「emperature max. [°C]	95	95	95	
P	Pump capacity max. [I/min / bar]	60/3,8	60/3,8	60 / 6,0	
	Dperating voltage	380-415V / 50 Hz	380-415V / 50 Hz 415-480V 60 Hz	380-415V / 50 Hz 415-480V / 60 Hz	
P	Pump mode	constant	constant	constant	
F	Heating capacity [kW]	7,5-9 kW (380-415V)	8,2-9,8 kW (440-480V)	6,1-9,8 kW (380-480V)	
	Cooling	indirect	indirect	indirect	
	Cooling capacity [kW] ¹⁾	23	75	75	
V	Neight [kg]	44	48	49	
C	Circulating medium supply and return connections	G 1/2"	G 1/2"	G 1/2"	
C	Cooling water supply and return connections	G 1/2"	G 1/2"	G 1/2"	
	Dimensions without attachechment parts in mm [D x W x H]	678x250x594	678x250x594	678x250x594	
N	Membrane keyboard with 7-segment display	•	•	•	
2 S	Stainless steel "longlife" heating cartridge	•	•	•	
	Continuous heating control via solid state relays	•	•	•	
	Automatic filling and replenishing	•	•	•	
A	Additional manual filling option for conditioned water	•	•	•	
D S	Strainer in cooling water connection	•	•	•	
	Netted parts made of corrosion-resistant materials	•	•	•	
	Acoustic alarm	•	•	•	
" N	Mold draining	•2)	•2)	•2)	
S	Sealless pump	•	•	•	

¹⁾ at 15 °C cooling water temperature and 90 °C flow temperature ²) by reversing the direction of pump rotation

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- Simple operation via membrane keyboard
- with 7-segment display
- basicControl micro controller
- Splash-proof control cabinet
- Ready for connection with supply cable and CEE socket
- Interface port integrated in the front of the unit
- (e.g. for optional interface analog, serial, Profibus,
- Housing and hood: RAL 7012 basalt grey
- Side panels: RAL 260 40 45 LED blue

• = standard / • = option

Technical modifications reserved.

The product line **(b** base.line



The temperature control units of the base.line are our investment-cost-optimized standard units for economical temperature control with water at temperatures up to 180 °C and flow rates up to 60 l/min.

The **base.line** unit with its simple operation via membrane keypad with 7-segment display is the preferred solution for many applications.

» Excellent price / performance ratio «

teco cd base - temperature control units with direct cooling in 95 °C version



- Long-life peripheral pump without mechanical seal • Stainless steel tank
- Splash-proof control cabinet acc. to IP 54
- Ready for connection with supply cable and CEE socket

		95 °C
	Model teco	cd 95 base 60
	Medium	water
	Temperature max. [°C]	95
	Pump capacity amx. [I/min / bar]	60 / 6,0
Technical data	Pump mode	constant
Ц Ц	Heating capacity [kW] ³⁾	9
<u>i</u>	Cooling	direct
۲ <u>ط</u>	Cooling capacity [kW] ¹⁾	52
Teo	Weight [kg]	44
1	Circulating medium supply and return connections	G 1/2"
	Cooling water supply and return connections	G 1/2"
	Dimensions without attachment parts in mm [D x W x H]	662x280x611
	Membrane keyboard with 7-segment display	•
	Stainless steel "longlife" heating cartridge	•
	Continuous heating control via solid state relays	•
suc	Automatic filling and replenishment	•
ţ	Additional manual filling option for conditioned water	•
ŏ	Strainer in cooling water connection	•
f	Strainer in the circulation medium return	0
ne	Shut-off valves in the circulating media and cooling water circuits	٥
ip	Wetted parts made of corrosion-resistant materials	•
Equipment/Options	Acoustic alarm	•
	Mold draining	•2)
	Low maintenance flow measurement	0
	Sealless pump	0
	0 at 15 °C cooling water temperature and 90 °C flow temperature	Technical modification

¹⁾ at 15 °C cooling water temperature and 90 °C flow temperature ²⁾ by reversing the direction of pump rotation ³⁾ depending on voltage

- Simple operation via membrane keyboard
- with 7-segment display
- basicControl micro-controller
- Stainless steel "longlife" heating cartridge
- Interface port integrated in the front of the unit
- (e.g. for optional interface analog, serial, Profibus,
- Profinet or OPC UA)
- Optional external sensor connection
- Housing and hood: RAL 7012 basalt gray
- Side panels: RAL 260 40 45 LED blue
- Customised paint on request

• = standard $/ \circ$ = option

Technical modifications reserved.

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teco ci base - temperature control units with indirect cooling in 95 °C, 140 °C, 160 °C and 180 °C version



Sealless pump

- Simple operation via membrane keyboard
- with 7-segment display
- basicControl micro controller
- Stainless steel "longlife" heating cartridge
- Long-life peripheral impeller pump (also sealless)
- Stainless steel tank (up to 95 °C) / closed circuit from 140 °C)
- Splash-proof control cabinet acc. to IP 54
- Ready for connection with supply cable and CEE socket
- Interface port integrated in front of device (e.g. for optional interface analog, serial, Profibus, Profinet or OPC UA)
- Optional external sensor connection
- Housing and hood: RAL 7012 basalt gray
- Side panels: RAL 260 40 45 LED blue

»The **base.line** device with its simple operation is the preferred solution for many applications with an excellent price/performance ratio.«

	95°C			
Model teco	ci 95 b	ase 60	ci 95 base 150	ci 95 base 200
Medium	water	water	water	water
Temperature amx. [°C]	95	95	95	95
Pump capacity max. [l/min / bar]	60 / 3,8	60 / 6,0	150 / 5,0	200 / 5,0
Pump mode	constant	constant	constant	constant
Heating capacity [kW] 4)	9	9	9 / 18 / 27 / 36	9 / 18 / 27 / 36
Cooling	indirect	indirect	indirect	indirect
Cooling capacity [kW] ¹⁾	23	75	250	250
Weight [kg]	50	50	95	100
Circulating medium siupply and return connections	G 1/2"	G 1/2"	G1	G1
Cooling water supply andreturn connections	G 1/2"	G 1/2"	G ³ /4"	G ³ / ₄ "
Dimensions without attachment parts in mm [D x W x H]	662 x 280 x 611	662 x 280 x 611	849 x 399 x 752	849 x 395 x 752
Membrane keyboard with 7-segment display	•	•	•	•
Stainless steel "longlife" heating cartridge	•	•	•	•
Continuous heating control via solid state relays	•	•	•	•
Automatic filling and replenishment	•	•	•	•
Additional manual filling option for conditioned water	•	•	•	•
Strainer in cooling water connection	•	•	•	•
Strainer in the circulation medium return	0	0	0	0
Shut-off valves in the circulating media and cooling water circuits	0	0	0	•
Wetted parts made of corrosion-resistant materials	•	•	•	•
Acoustic alarm	٠	•	•	•
Mold draining	• ^{2) 3)}	• ^{2) 3)}	•2)	•2)
Low maintenance flow measurement	0	0	0	0

• = standard $/ \circ$ = option

max. [°C] ity max. [l/min / bar] acity [kW] 5) ucity [kW] ¹⁾ nedium supply and return connections er supply and return connections vithout attachment parts in mm [D x W x H] eyboard with 7-segment display l "longlife" heating cartridge eating control via solid state relays ling and replenishment akeup pump olina water connection e circulation medium return es in the circulating media and cooling water circuits made of corrosion-resistant materials o function Sealless, magnetically coupled stainless steel pump

¹⁾ at 15 °C cooling water temperature and 130 °C flow temperature ²⁾ by reversing the direction of pump rotation ³⁾ not in conjunction with leak stop function ⁴⁾ not in conjunction with mold drainage ⁵⁾ depending on voltage

• = standard	/ ∘ = option	/ – = not available

140 °C	160 °C	180 °C
ci 140 base 60	ci 160 base 60	ci 180 base 60
water	water	water
140	160	180
60 / 6,3	60 / 6,0	60 / 6,0
constant	constant	constant
9	9	9
indirect	indirect	indirect
120	120	40
62	62	62
G 1/2"	G 1/2"	G 1/2"
G 1/4"	G 1/4"	G 1/4"
807 x 280 x 611	807 x 280 x 611	807 x 280 x 611
•	•	•
•	•	•
•	•	•
•	•	•
-	•	•
٠	•	•
0	0	0
0	0	0
•	•	•
•	•	•
o ^{2) 3)}	o ^{2) 3)}	o ^{2) 3)}
•4)	•4)	•4)
-	•	•

Technical modifications reserved.

teco ct - oil temperature control unit in 130°C



- Simple operation via membrane keyboard
- with 7-segment display
- basicControl micro controller
- Stainless steel "longlife" heating cartridge
- Longlife peripheral impeller pump
- Stainless steel tank
- Splash-proof control cabinet acc. to IP 54
- Ready for connection with supply cable and CEE socket
- Interface port integrated in the front of the unit (e.g. for optional interface analog, serial, Profibus, Profinet or OPC UA)
- Optional external sensor connection
- Housing and hood: RAL 7012 basalt gray
- Side panels: RAL 260 40 45 LED blue
- Customised paint on request

teco cw - cold water unit 0 - 25 °C no glycol use, no waste heat into the hall



- glycol.
- The generated waste heat can be used for heat recovery via the central cooling system
- The production hall's ventilation system can be relieved because no waste heat enters the hall via the air.
- »Integrated cold water generation«
- With natural refrigerant propane R290.

130 °C ct 130 base 60 lodel tecc Medium thermal oil Temperature max. [°C] 130 Pump capacity max. (I/min / bar] 47 / 5,5 / 50 Hz | 57 / 6,8 /60 Hz Pump mode constant Heating capacity [kW] 6 indirect Cooling Cooling capacity [kW] ¹⁾ 30 Weight [kg] 37 G 1/2" Circulating medium siupply and return connections G 1/2" Cooling water supply and return connections 662 x 280 x 611 Dimensions without attachment parts in mm $[T \times B \times H]$ Membrane keyboard with 7-segment display • Stainless steel "longlife" heating cartridge ٠ . Continuous heating control via solid state relays . Film temperature monitoring Strainer in the circulation medium return . Wetted parts made of corrosion-resistant materials . Acoustic alarm . Suitable for several voltage and frequency ranges Sealless pump . ⁾ at 15 °C cooling water temperature and 130 °C flow temperature Technical modifications

		0 – 25 °C		
	Model teco	teco cw 25 base 4	teco cw 25 base 10	
	Medium	water	water	
	Temperature max. [°C]	0 - 25	0 - 25	
σ	Pump capacity max. [I/min / bar]	60 / 3,5	60 / 5,8	
Technical data	Pump mode	constant	constant	
	Heating capacity [kW]	-	-	
ji.	Cooling	indirect	indirect	
chr	Cooling capacity [kW] ¹⁾	4	10	
۳,	Weight. [kg]	90	130	
	Circulating medium supply and return connections	G 1/2"	G 1/2"	
	Cooling water supply and return connections	G 1/4"	G 1/4"	
	Dimensions without attachment parts in mm [D x W x H]	921 x 250 x 611	1281 x 399 x 752	
	Membrane keyboard with 7-segment display	•	•	
S	Automatic filling and replenishment	•	•	
io	Additional manual filling option for conditioned water	•	•	
<u>a</u>	Strainer in cooling water connection	•	•	
ž	Strainer in the circulation medium return	0	0	
Equipment/Options	Shut-off valves in the circulating media and cooling water circuits	0	0	
	Wetted parts made of corrosion-resistant materials	•	•	
ju.	Acoustic alarm	•	•	
ш	Mold draining / leakage stop function	•2) 3)	• ^{2) 3)}	
	Low maintenance flow measurement	0	0	

¹⁾ at 30 °C cooling water temperature and 10 °C flow temperature ²⁾ by reversing the direction of pump rotation ³⁾ not in conjunction with return flow protection

• = standard / • = option

reserved

If the central cooling system is fully utilized or the piping effort is too high, a decentralized solution directly on the machine is suitable for cooling of consumers.

technotrans offers a unique concept with the teco cw cooling unit, because it can be used like a temperature control unit. Sustainability is also in the focus of this series:

• The teco cw unit can be operated without the use of

• = standard $/ \circ$ = option / - = not available

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Technical modifications reserved.

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technotrans solutions GmbH Scherl 10 · D-58540 Meinerzhagen Tel. +49 2354 7060-0 · Fax +49 2354 7060-150 info-solutions@technotrans.de · **www.temperiergeraete-tt.com**

