

Precise measuring instruments for viscosity and surface science

Product range 2024 / 2025

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Viscothermostats

Agence Nord:

ZA Object'Ifs Sud - Lot A3
6 Allée Emilie du Châtelet
14123 Ifs
tél : 02.31.34.50.74
fax : 02.31.34.55.17

Agence Sud:

Bât Le Venango. 392 Rue Jean Dausset
AGROPARC - BP11575
84916 Avignon Cédex 9
tél : 04.90.27.17.95 fax : 04.90.27.17.52



Agence Est:

Parc Club des Tanneries
2 Rue de la Faisanderie
67380 Lingolsheim
tél : 03.88.04.01.81
fax : 03.68.93.01.52

www.deltalabo.fr
info@deltalabo.fr

Viscothermostats

LAUDA Scientific viscothermostats provide accurate tempering for all glass capillary viscometers. A wide range of products are available to support different system configurations when international norm standards require a precise temperature stability (**ASTM 0445**, **ISO 3105**, DIN 51562 and **DIN 53000**).

Control head for viscothermostats Viscocool 6, Viscotemp 18, Viscotemp ET and Viscotemp 15 / 24

Special Features:

- || Built-in cooling coil to connect an external circulation chiller (e.g. MC 250)
- || Colored TFT display for simultaneous indication of actual and set temperature
- || Powerful heater (up to 2,6 kW)

Viscocool 6, Viscotemp 18, Viscotemp ET

For R&D applications close to ambient temperature, the **Viscocool 6** is the perfect selection. With a footprint of only 206x415 mm and an integrated thermoelectric cooler it provides cooling without any additional devices.

The **Viscotemp ET** is a very economic bath made from polycarbonate where a maximum of three glass capillary viscometers for manual measurement using the stop watch or up to two automatic measuring stations for iVisc or S5 (PVS) can be used. If required, when using dilution viscometers for example, up to two magnetic stirrers can be added to the thermostat.

The **Viscotemp 18** had been designed for temperatures up to 100 °C, e.g. for operation with silicone oils and aggressive samples. Cover plates for either five manual measuring units or for one iVisc or S5 measuring stand plus one additional glass capillary viscometer can be provided.



LCD S0289
Viscotemp ET
(Image similar)



LCD S0293
Viscocool 6
(Image similar)



Technical data	Viscocool 6 (LCD S0293)	Viscotemp 18 (LCD S0295)	Viscotemp ET (LCD S0289)
Material bath vessel	Polycarbonate	Glass	Polycarbonate
Working temperature range	15...90 °C	0 ¹⁾ ...105 °C	20 ¹⁾ ...100 °C
Temperature stability	± 0.01 K	± 0.01 K	± 0.01 K
Max. amount measuring stands	1	1	2
Max. amount manual thermost. positions	2	5	3
VRM mounting set available	✗	✗	✓
Heater power	2.6 kW	2.6 kW	2.6 kW
Bath volume	6.5 l	18.5 l	15 l
Voltage	230 V, 50/60 Hz ²⁾	230 V, 50/60 Hz ²⁾	230 V, 50/60 Hz ²⁾
Dimensions (W x D x H)	206 x 415 x 530 mm	Ø 310 x 510 mm	428 x 130 x 532 mm
Supplied cover plate	Cover plate Viscocool A1M1	Cover plate Viscotemp 18 M5	Cover plate Viscotemp ET A2

¹⁾ Can be achieved with external cooling

Viscotemp 15 / 24

The Viscotemp 15 / 24 provides a high-quality stainless steel bath and glass windows and can be used in the most common temperature range from 0 up to 105 °C. The well-arranged single-chamber system with optional backlight allows a crystal-clear view and can be cleaned easily. Typical applications for that products are the determination of the solution viscosity of plastics or the viscosity index of motor oils.

The **Viscotemp 15** can be used with up to four manual measuring stations or two automatic measuring stands, iVisc or S5 (PVS). **Viscotemp 24** offers the capacity to work with maximum seven viscometers or up to four automatic measuring stands. On both versions the VRM 4 cleaning module can be installed. The corrosion-resistant thermostating bath allows the handling with aggressive samples, e.g. polyamides dissolved in sulfuric acid and is approved for the usage of suitable silicon oils (e.g. Therm 180) as heat transfer liquid.

Special Features:

- II Corrosion-resistant stainless steel bath with 19 to 27 liter bath volumes
- II For up to 4 automatic stands or 7 manual measuring stations
- II Clear design makes quick cleaning possible
- II Variopump with six pumping levels and pump flow distribution for perfect homogeneity
- II Display with standards-compliant resolution of 0.01 K, intuitive operation via cursor and soft-keys

LCD S0299
Viscotemp 24
(Image similar)



Technical data	Viscotemp 15 (LCD S0297)	Viscotemp 24 (LCD S0299)
Working temperature range	0 ¹⁾ ...105 °C	0 ¹⁾ ...105 °C
Temperature stability	± 0.01 K	± 0.01 K
Max. amount measuring stands	2	4
Max. amount of manual thermostating positions	4	7
VRM mounting set available	✓	✓
Heater power	2.6 kW	2.6 kW
Bath volume	19 l	27 l
Glass pane size (W x H)	152 x 233 mm	329 x 233 mm
Voltage	230 V, 50/60 Hz ²⁾	230 V, 50/60 Hz ²⁾
Dimensions (W x D x H)	532 x 233 x 552 mm	708 x 233 x 552 mm
Supplied cover plate	Cover plate Viscotemp 15 A2	Cover plate Viscotemp 24 A4

¹⁾ Can be achieved with external cooling

²⁾ Other power supply variants on request

Viscotemp Pro 15 / 24 / 36

LAUDA Scientific Viscotemp Pro viscothermostats provide an outstanding temperature stability and homogeneity over the full temperature range for all typical viscosity applications. As such, they are ideal for use with the fully automated PVS-S5 or iVisc viscometer and they are mandatory for the use with the VAS autosampler systems. Thanks to the double-chamber principle, a constant liquid level in the measuring section is guaranteed – even when changing the temperatures.

The special **Viscotemp Pro L models** are equipped with five layers of insulating glass. By connecting a LAUDA PRO circulation thermostat RP 250 or RP 290, they are suited for low-temperature measurements down to -40 or -60 °C.

LCD S0278
Viscotemp
Pro 24

(Image similar)



LCD S0276
Viscotemp
Pro 15

(Image similar)



LCD S0302
Viscotemp Pro 15

With ball bearing when using
silicon oil heat transfer liquids

Special Features:

- || Corrosion-resistant stainless steel bath with 15, 24 or 36 liter bath volume
- || Double-chamber system for constant liquid level in the measuring chamber of bath
- || Multi-glazing with optional heating avoids fogging of glass panes
- || For up to 6 automatic or 9 manual measuring stations
- || Integrated heat exchanger for counter-cooling, can be combined with LAUDA circulation thermostats
- || High control precision thanks to adaptive PID regulation
- || Optional external sensor controls the temperature at the measuring location
- || Integration of magnetic stirrers and combination with VAS systems possible

Technical data	Viscotemp Pro 15 (LCD S0276)	Viscotemp Pro 24 (LCD S0278)	Viscotemp Pro 36 (LCD S0280)	Viscotemp Pro 15 L (LCD S0282)	Viscotemp Pro 24 L (LCD S0284)
Working temperature range	0 ¹⁾ ...150 °C	0 ¹⁾ ...150 °C	0 ¹⁾ ...150 °C	-60 ³⁾ ...100 °C	-60 ³⁾ ...100 °C
Temperature stability	± 0.01 K	± 0.01 K	± 0.01 K	± 0.01 K	± 0.01 K
Max. amount measuring stands	2	4	6	2	4
Max. amount manual positions	3	7	9	3	7
Heater power	3.5 kW	3.5 kW	3.5 kW	3.5 kW	3.5 kW
Bath volume	11...15 l	19...24 l	28...36 l	11...15 l	19...24 l
Glass pane size (W x H)	149 x 230 mm	326 x 230 mm	506 x 230 mm	149 x 230 mm	326 x 230 mm
Voltage	230 V, 50/60 Hz ²⁾	230 V, 50/60 Hz ²⁾	230 V, 50/60 Hz ²⁾	230 V, 50/60 Hz ²⁾	230 V, 50/60 Hz ²⁾
Dimensions (W x D x H)	506 x 282 x 590 mm	740 x 282 x 590 mm	1,040 x 282 x 590 mm	506 x 282 x 590 mm	740 x 282 x 590 mm

¹⁾ Can be achieved with additional LAUDA cooler ³⁾ Can be achieved with LAUDA RP 290

²⁾ Further power supply variants

Cover plates for viscothermostats

Viscotemp 18

LCZ 0737 Cover plate Viscotemp 18 A1M1

For 1 measuring stand and 1 manual / thermostating position

LCZ 0736 Cover plate Viscotemp 18 M5

For 5 manual / thermostating positions



Viscotemp ET

LCZ 041 Cover plate Viscotemp ET A2

For 2 measuring stands

LCZ 040 Cover plate Viscotemp ET A1M2

For 1 measuring stand and 2 manual / thermostating positions

LCZ 0685 Cover plate Viscotemp ET M3

For 3 manual / thermostating positions



Viscotemp 15

LCZ 0730 Cover plate Viscotemp 15 A2

For 2 measuring stands

LCZ 0731 Cover plate Viscotemp 15 A1M2

For 1 measuring stand and 2 manual / thermostating positions

LCZ 0729 Cover plate Viscotemp 15 M4

For 4 manual / thermostating positions



Viscotemp 24

LCZ 0733 Cover plate Viscotemp 24 A4

For 4 measuring stands

LCZ 0734 Cover plate Viscotemp 24 A2M4

For 2 measuring stands and 4 manual / thermostating positions

LCZ 0732 Cover plate Viscotemp 24 M7

For 7 manual / thermostating positions



Viscotemp Pro 15

LTZ 045 Cover plate Viscotemp Pro 15 A2

For 2 measuring stands

LTZ 048 Cover plate Viscotemp Pro 15 A1M2

For 1 measuring stand and 2 manual / thermostating positions

LTZ 017 Cover plate Viscotemp Pro 15 M3

For 3 manual / thermostating positions



Cover plates for viscothermostats



Viscotemp Pro 24

LTZ 046 Cover plate Viscotemp Pro 24 A4

For 4 measuring stands



LTZ 049 Cover plate Viscotemp Pro 24 A3M3

For 3 measuring stands and 3 manual / thermostating positions



LTZ 019 Cover plate Viscotemp Pro 24 M5

For 5 manual / thermostating positions



LTZ 023 Cover plate Viscotemp Pro 24 M7

For 7 manual / thermostating positions



Viscotemp Pro 36

LTZ 047 Cover plate Viscotemp Pro 36 A6

For 6 measuring stands



LTZ 021 Cover plate Viscotemp Pro 36 M9

For 9 manual / thermostating positions



General

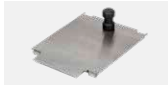
LTZ 052 Adapter M for cover plates A

Conversion kit for manual measurements



HDR 016 Cover M complete

Use for cover plates M



HDQ 090 Cover A complete

Use for cover plates A



HDQ 093 Cover A for measuring stands

Use for stand position A

Accessories for viscothermostats



LCZ 9681 Heatable window frame for Viscotemp Pro 15 L

Avoids fogging of glass panes, LiBus (optional, installing by factory)

LCZ 9682 Heatable window frame for Viscotemp Pro 24 L

Avoids fogging of glass panes, LiBus (optional, installing by factory)

Backlight

LCZ 9738 Backlight BL 15

LED back-light panel for Viscotemp 15 and Viscotemp Pro 15 (L)

LCZ 9739 Backlight BL 24

LED back-light panel for Viscotemp 24 and Viscotemp Pro 24 (L)

LCZ 9740 Backlight BL 36

LED back-light panel for Viscotemp Pro 36

EKS 068 Extension cable LiBus

5 m, for Background lighting BL 36 (LCZ 9740)

LCZ 9738 | LCZ 9739 | LCZ 9740

Accessories for viscothermostats

LRZ 913 RS 232/485 Interface for viscothermostats

Plug-in module upgrading viscothermostat with a RS 232/485 interface, necessary for temperature control via PC with PVS software module TEMP-DLL (LDVM2023)

ETP 059 External temperature probe PT100-94

For viscothermostats

LRZ 918 Pt 100 LiBus module

Plug-in unit for use with external temperature probe PT100-94 (ETP 059)



LRZ 913

Magnetic stirrer equipment for dilution viscometry

LMZ 841 Single-place magnetic stirrer set

For Viscotemp ET (retrofitting possible)

LMVZ967-1 Two-place magnetic stirrer set

For Viscotemp Pro 15 with control unit, installing by factory

LMVZ968-1 Four-place magnetic stirrer set

For Viscotemp Pro 24 with control unit, installing by factory

UD 1190 Spirit level

For viscometer alignment



UD 1190

Add. external cooling equipment

L001046 LAUDA Microcool MC 250 (230 V / 50 Hz)

Circulation chiller, working temp. range -10...+40°C, temperature stability 0.5 ± K, other power supply variants on request, requires silicone tubing (LZS 007)

LMVZ884 Cool.Fix

Heat exchanger for temperatures up to -50°C, incl. 2x metal tubing MK 100 (LZM 053)

Requires external cooling-heating circulator (e.g. LAUDA PRO RP 290 E)

L000022 LAUDA PRO RP 245 E (230 V / 50 Hz)

Compact circulation thermostat for use with Viscothermostats Viscotemp Pro L 15/24, working temp. range -45...+200°C, temperature stability 0.05 ± K, heater power max. 2.5 kW, cooling output (at 20°C) 0.8 kW, (at -30°C) 0.15 kW, other power supply variants on request

L002502 LAUDA PRO RP 290 E (230 V / 50 Hz)

Compact circulation thermostat for use with Viscothermostats Viscotemp Pro L 15/24, working temp. range -90...+200°C, temperature stability 0.05 ± K, heater power max. 2.5 kW, cooling output (at 20°C) 0.8 kW, (at -60°C) 0.39 kW, other power supply variants on request



LAUDA Microcool MC 250



**LMVZ884
Cool.Fix**

Accessories for additional external cooling equipment



LZS 007

Tubings

For connecting circulation chillers with the cooling coil of viscothermostats

LZS 001 Silicone tubing

8 mm inner diameter (9 mm insulated), price per meter

LZS 007 Silicone tubing

11 mm inner diameter (9 mm insulated), price per meter

LZM 053 Metal tubing MK 100

Connector M16X1, length 100 cm, for temperatures -90...150°C, 2 pcs. needed per each thermostat

LZM 055 Metal tubing MK 200

Connector M16X1, length 200 cm, for temperatures -90...150°C, 2 pcs. needed per each thermostat

LZS 018 Viton tubing

12 mm inner diameter (10 mm insulated), price per meter for temperatures -20...150°C

HKA 068 Adapter

M16X1 – M14X1,5

EZS 012 Tubing clamp

For silicon and viton tubings (LZS 001, LZS 007, LZS 018)

LCZ 0719 Cooling coil set

For use with circulating chillers and viscothermostats ET 15 S and Viscotemp series, also suitable for direct use with tap water

Heat transfer liquids



LZB 114 | LZB 214 | LZB 314

Silicon oil

Temperature ranges: 0...180°C¹⁾ | **10...110°C²⁾**

LZB 114 Therm 180, 5 l

LZB 214 Therm 180, 10 l

LZB 314 Therm 180, 20 l

Temperature ranges: 90...200°C¹⁾ | **90...150°C²⁾**

LZB 122 Therm 250, 5 l

LZB 222 Therm 250, 10 l

LZB 322 Therm 250, 20 l

Temperature ranges: -20...180°C¹⁾ | **-20...100°C²⁾**

LZB 116 KRYO 20, 5 l

LZB 216 KRYO 20, 10 l

LZB 316 KRYO 20, 20 l

Temperature ranges: -50...120°C¹⁾ | **-40...50°C²⁾**

LZB 121 KRYO 51, 5 l

LZB 221 KRYO 51, 10 l

LZB 321 KRYO 51, 20 l

¹⁾ Temperature range technically approved

²⁾ Temperature range recommended for viscosity measurement

Heat transfer liquids

Silicon oil

Temperature ranges: -70...30 °C¹⁾ | -60...30 °C²⁾

LZB 130 KRYO 95, 5 l

LZB 230 KRYO 95, 10 l

LZB 330 KRYO 95, 20 l

LZB 929 Aqua Stab water stabilizer, 100 ml

Algicide for viscothermostats, not suitable for Viscocool 6 and Viscotemp ET



LZB 929
Aqua Stab

Agence Nord:

ZA Object'Ifs Sud - Lot A3
6 Allée Emilie du Châtelet
14123 Ifs
tél : 02.31.34.50.74
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Agence Est:

Parc Club des Tanneries
2 Rue de la Faisanderie
67380 Lingolsheim
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Agence Sud:

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tél : 04.90.27.17.95 fax : 04.90.27.17.52

www.deltalabo.fr
info@deltalabo.fr



www.lauda-scientific.de/en

LAUDA Scientific GmbH
Laudaplatz 1
97922 Lauda-Königshofen
Germany

Phone: +49 (0) 9343 503-340
E-Mail: info@lauda-scientific.de

LAUDA

scientific