

The Thermal Bath Fluids

Distributed by:

Tallaght Business Park Whitestown, Dublin 24, Ireland D24 RFK3

Tel: (01) 4523432 Fax: (01) 4523967 Web: www.labunlimited.com Quatro House, Frimley Road, Camberley, United Kingdom GU16 7ER

Tel: 08452 30 40 30 Fax: 08452 30 50 30 E-mail: info@labunlimited.com E-mail: info@labunlimited.co.uk Web: www.labunlimited.co.uk





on JULABO Bath Fluids

JULABO Thermal Bath Fluids are carefully chosen and long-term tested media. They are highly suitable for temperature applications in JULABO units and guarantee safe and reliable operation.

JULABO Thermal Bath Fluids based on silicone...

...are chemically inert substances which do not affect metals like iron, copper, zinc, aluminum, chrome or nickel. Compared to other fluids, JULABO Thermal fluids have an extraordinarily low electrical conductivity. When properly stored, the fluid will keep for at least 12 months as they are not susceptible to climatic influences. When used properly, minimal cracking and oxidation degradation will occur ensuring a long fluid life. When operating fluids at temperatures close to the recommended limits, visually inspect and/or exchange the fluid every 2-3 months. Some JULABO bath fluids based on silicone contain a stabilizer to delay oxidation and thus increase the lifetime of the oil. **Do not use with silicone hoses!** Silicone based bath fluids can swell and dissolve silicone hoses. Therefore use JULABO metal tubing or JULABO Viton tubing or JULABO PTFE tubing for the temperature control of external systems.

JULABO Thermal Bath Fluids based on water-glycol...

...(Monoethylene glycol with anti-corrosion additives) have excellent thermal characteristics and a low viscosity. In addition they provide anti-freeze protection, i.e. they can be applied at temperatures below the freezing point of water.

Observe the mixing ratio! When using water-glycol based bath fluids, the mixing ratio of water to glycol must be checked on a regular basis (50:50). In case of an increased glycol content, the liquid may become flammable. Conversely, an increased water content may cause the liquid to freeze at low temperatures.



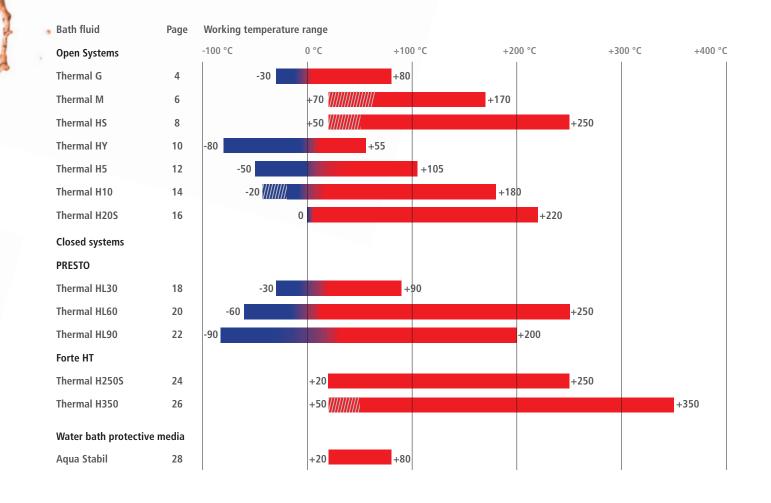
-100 °C



Content

Which Bath Fluid do I need?

The choice of the suitable bath fluid is crucial for optimal temperature control results. The most important criteria for your reliable choice is the working temperature range in which you operate your application. All other properties of the JULABO Thermal Bath Fluids like viscosity, oxidation behavior and heat conductivity are ideally matched for their use with JULABO temperature control instruments. If you need assistance when choosing the bath fluid, a JULABO expert will be glad to support you.



Working temperature range
Heat-up phase
Extended temperature range Thermal H10

+400 °C

+200 °C



Bath fluid Thermal G

JULABO Thermal G is a bath fluid based on water-glycol and features excellent thermal properties. In addition, JULABO Thermal G supplies anti-freeze protection and thus it is most suitable for applications below the freezing point of water.

Check the mixing ratio! When using Thermal G for long time periods, the mixing ratio of water to glycol must be checked regularly (50:50). In case of increased glycol content, the Thermal G may become flammable. Conversely, increased water content may cause the Thermal G to freeze at low temperatures.

Please observe the information in our safety data sheet. You can download the safety data sheet at www.julabo.com or request it from JULABO.

Advantages:

- High stability
- Low viscosity
- Good heat conductivity
- Minimum odor

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Property	Value
Working temperature °C	-30 +80
Flash point °C	not applicable
Fire point °C	not applicable
Viscosity (kinematic at 20 °C) mm ² /s	4.07
Density (at 20 °C) g/cm ³	1.08
Pour point °C	-70
Boiling point °C	+108
Ignition temperature °C	+430
Color	light yellow
Thermal expansion coefficient [g/(ml × K)]	0.0007
Heat conductivity $[W / (m \times K)]$	0.153
Specific volume resistivity [Ohm×cm]	200

Order number	
8 940 125	5 liters
8 940 124	10 liters

+100

Suitable for the following units:

- JULABO Refrigerated Circulators

- JULABO Heating Circulators

- JULABO Chillers/Recirculating Coolers

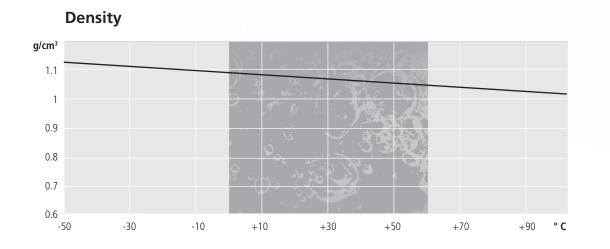


-100 °C

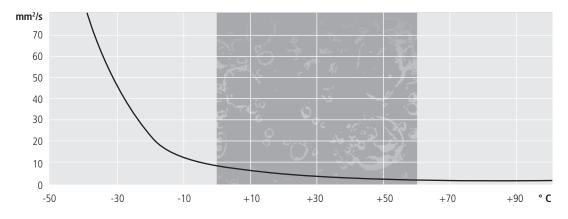
0 °C

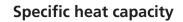
Physical properties of Thermal G

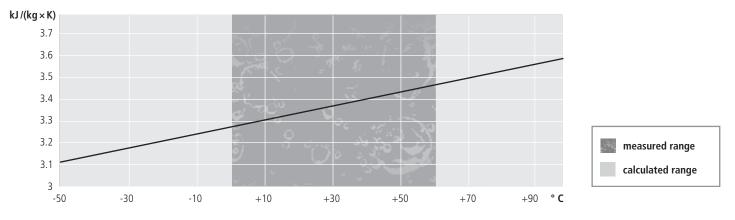
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Viscosity







+300 °C



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Bath fluid Thermal M

JULABO Thermal M is a bath fluid based on alcohol ethoxylate.

Please note: Usage of the fluid below the lowest mentioned working temperature may result in temperature fluctuation or high temperature alarm due to hot fluid areas around the heater. Recommendation: Reduce the heater capacity during heating up until the lowest mentioned working temperature is reached.

Please observe the information in our safety data sheet. You can download the safety data sheet at www.julabo.com or request it from JULABO.

Advantages:

- High stability
- Low viscosity
- Good heat conductivity
- Minimum odor
- Long fluid life

Properties	Value
Working temperature °C	+70 +170
Flash point °C	+284
Fire point °C	+306
Viscosity (kinematic at 20 °C) mm ² /s	293
Density (at 20 °C) g/cm ³	1.15
Pour point °C	-39
Boiling point °C	>+170
Ignition temperature °C	>+255
Color	clear
Thermal expansion coefficient [g/(ml × K)]	0.00077
Heat conductivity [W /(m \times K)]	0.2
Specific volume resistivity [Ohm × cm]	n/a

Order number	
8 940 101	5 liters
8 940 100	10 liters

Suitable for the following units: - JULABO TopTech / HighTech Series

°C

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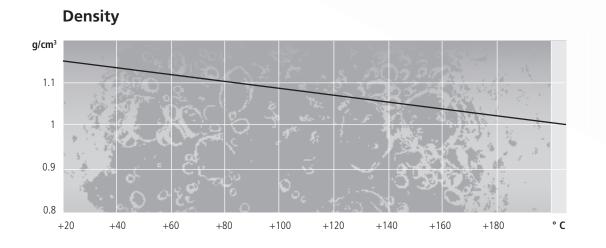
Note the tip on page 30 for the expansion of bath fluids in your application

+100 °C

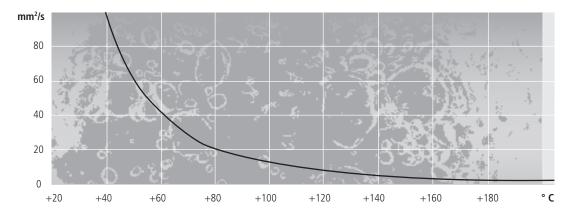
-100 °C



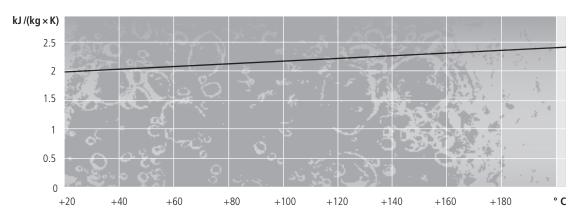
Physical properties of Thermal M



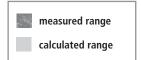
Viscosity



Specific heat capacity



+300 °C









Bath fluid Thermal HS

JULABO Thermal HS is a bath fluid based on silicone.

Please note: Usage of the fluid below the lowest mentioned working temperature may result in temperature fluctuation or high temperature alarm due to hot fluid areas around the heater. Recommendation: Reduce the heater capacity during heating up until the lowest mentioned working temperature is reached.

Do not use with silicone hoses! Silicone-based bath fluids can swell and dissolve silicone hoses. Therefore use JULABO metal tubing or JULABO Viton tubing or JULABO PTFE tubing for the temperature control of external systems.

Please observe the information in our safety data sheet. You can download the safety data sheet at www.julabo.com or request it from JULABO.

Advantages:

- High stability
- Good heat conductivity
- Minimal odor
- Long fluid life

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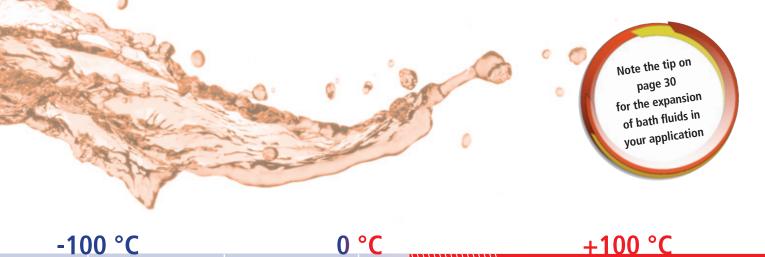
Property	Value
Working temperature °C	+50 +250
Flash point °C	+270
Fire point °C	+360
Viscosity (kinematic at 20 °C) mm ² /s	55
Density (at 20 °C) g/cm ³	0.96
Pour point °C	<-60
Boiling point °C	>300
Ignition temperature °C	>+400
Color	light brown
Thermal expansion coefficient [g/(ml × K)]	0.00089
Heat conductivity [W /($m \times K$)]	0.153
Specific volume resistivity [Ohm×cm]	6 × 10 ¹⁴

Order number	
8 940 103	5 liters
8 940 102	10 liters

Suitable for the following units:

- JULABO Heating Circulators

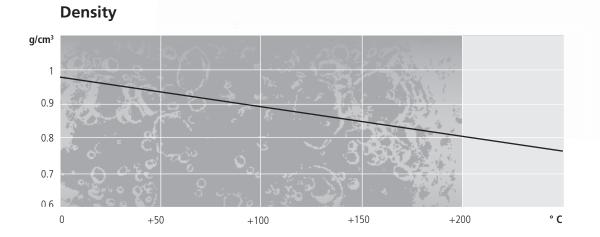
- JULABO Refrigerated Circulators



Physical properties of Thermal HS

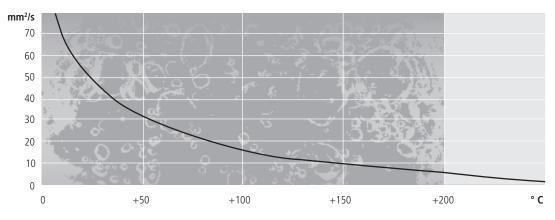
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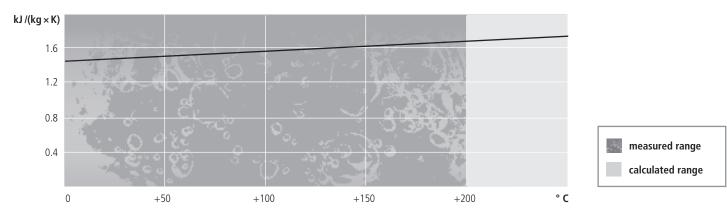


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Specific heat capacity



+300 °C



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Bath fluid Thermal HY

JULABO Thermal HY is a bath fluid based on silicone.

Do not use with silicone hoses! Silicone-based bath fluids can swell and dissolve silicone hoses. Therefore use JULABO metal tubing or JULABO Viton tubing or JULABO PTFE tubing for the temperature control of external systems.

Please observe the information in our safety data sheet. You can download the safety data sheet at www.julabo.com or request it from JULABO.

Advantages:

- High stability
- Good heat conductivity
- Minimal odor
- Long fluid life

Property	Value
Working temperature °C	-80 +55
Flash point °C	+62
Fire point °C	+80
Viscosity (kinematic at 20 °C) mm ² /s	<4
Density (at 20 °C) g/cm ³	0.9
Pour point °C	-100
Boiling point °C	+228.5
Ignition temperature °C	+335
Color	clear
Thermal expansion coefficient [g/(ml × K)]	0.00098
Heat conductivity [W /(m \times K)]	0.105
Specific volume resistivity [Ohm × cm]	4×10^{14}

Order number	
8 940 105	5 liters
8 940 104	10 liters

Suitable for following units: - JULABO Refrigerated Circulators

0°C

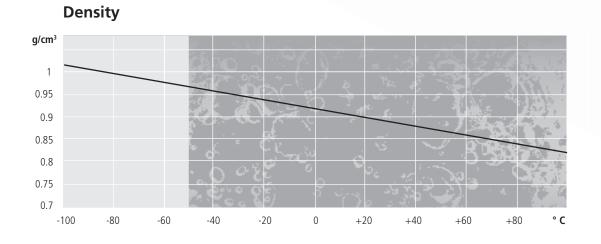
Note the tip on page 30 for the expansion of bath fluids in your application



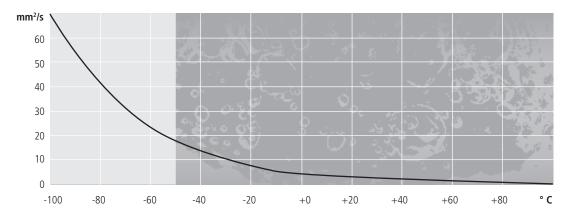
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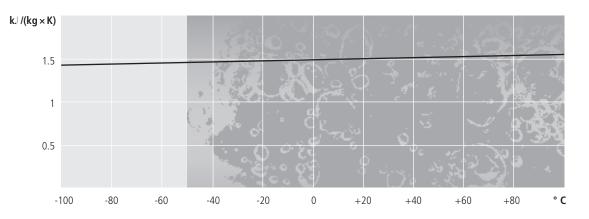
Physical properties of Thermal HY



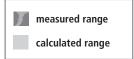
Viscosity



Specific heat capacity



+300 °C





Bath fluid Thermal H5

JULABO Thermal H5 is a bath fluid based on silicone.

Do not use with silicone hoses! Silicone-based bath fluids can swell and dissolve silicone hoses. Therefore use JULABO metal tubing or JULABO Viton tubing or JULABO PTFE tubing for the temperature control of external systems.

Please observe the information in our safety data sheet. You can download the safety data sheet at www.julabo.com or request it from JULABO.

Advantages:

- High stability
- Low viscosity
- Good heat conductivity
- Minimum odor
- Long fluid life

Property	Value
Working temperature °C	-50 +105
Flash point °C	+124
Fire point °C	+142
Viscosity (kinematic at 20 °C) mm ² /s	5.66
Density (at 20 °C) g/cm ³	0.92
Pour point °C	-100
Boiling point °C	+288
Ignition temperature °C	+350
Color	clear
Thermal expansion coefficient $[g/(ml \times K)]$	0.00094
Heat conductivity $[W / (m \times K)]$	0.116
Specific volume resistivity [Ohm×cm]	4×10^{14}

Order number	
8 940 107	5 liters
8 940 106	10 liters

Suitable for the following units:

- JULABO Refrigerated Circulators

- JULABO Heating Circulators

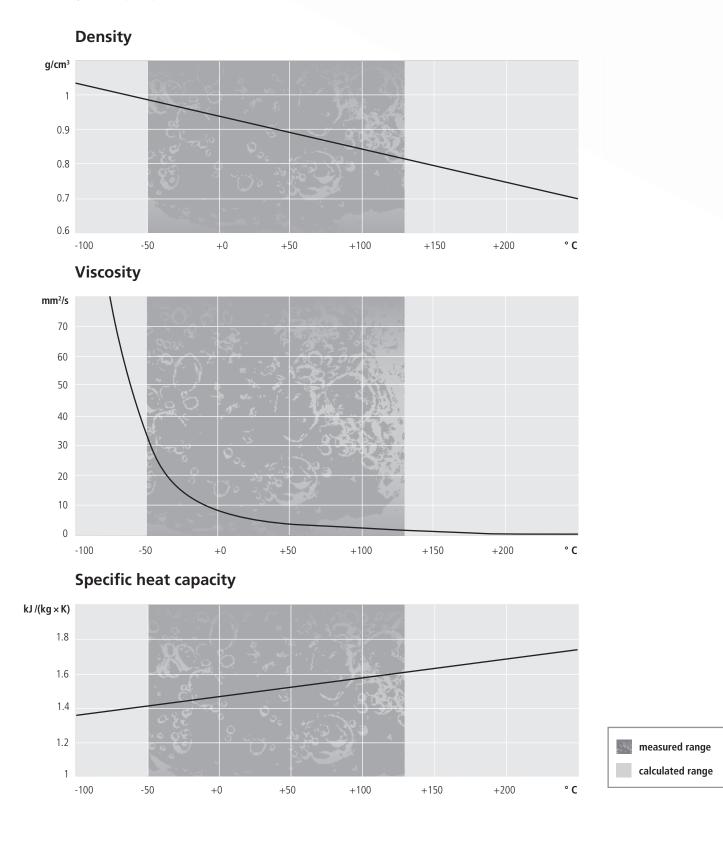
Note the tip on page 30 for the expansion of bath fluids in your application







Physical properties of Thermal H5



+300 °C

+200 °C



Bath fluid Thermal H10

JULABO Thermal H10 is a bath fluid based on silicone.

Extended temperature range: Thermal H10 can be used within the temperature range from -40° C to $+180^{\circ}$ C with circulators of the TopTech and HighTech series as well as CF31 and CF41.

Do not use with silicone hoses! Silicone-based bath fluids can swell and dissolve silicone hoses. Therefore use JULABO metal tubing or JULABO Viton tubing or JULABO PTFE tubing for the temperature control of external systems.

Please observe the information in our safety data sheet. You can download the safety data sheet at www.julabo.com or request it from JULABO.

Advantages:

- High stability
- Low viscosity
- Good heat conductivity
- Minimum odor
- Long fluid life

Property	Value
Working temperature °C	(-40) -20 +180
Flash point °C	>+170
Fire point °C	+220
Viscosity (kinematic at 20 °C) mm ² /s	10.8
Density (at 20 °C) g/cm ³	0.94
Pour point °C	<-60
Boiling point °C	+288
Ignition temperature °C	+370
Color	clear
Thermal expansion coefficient $[g/(ml \times K)]$	0.00092
Heat conductivity $[W /(m \times K)]$	0.14
Specific volume resistivity [Ohm × cm]	8 × 10 ¹⁴

Order number	
8 940 115	5 liters
8 940 114	10 liters

Suitable for the following units::

- JULABO Refrigerated Circulators

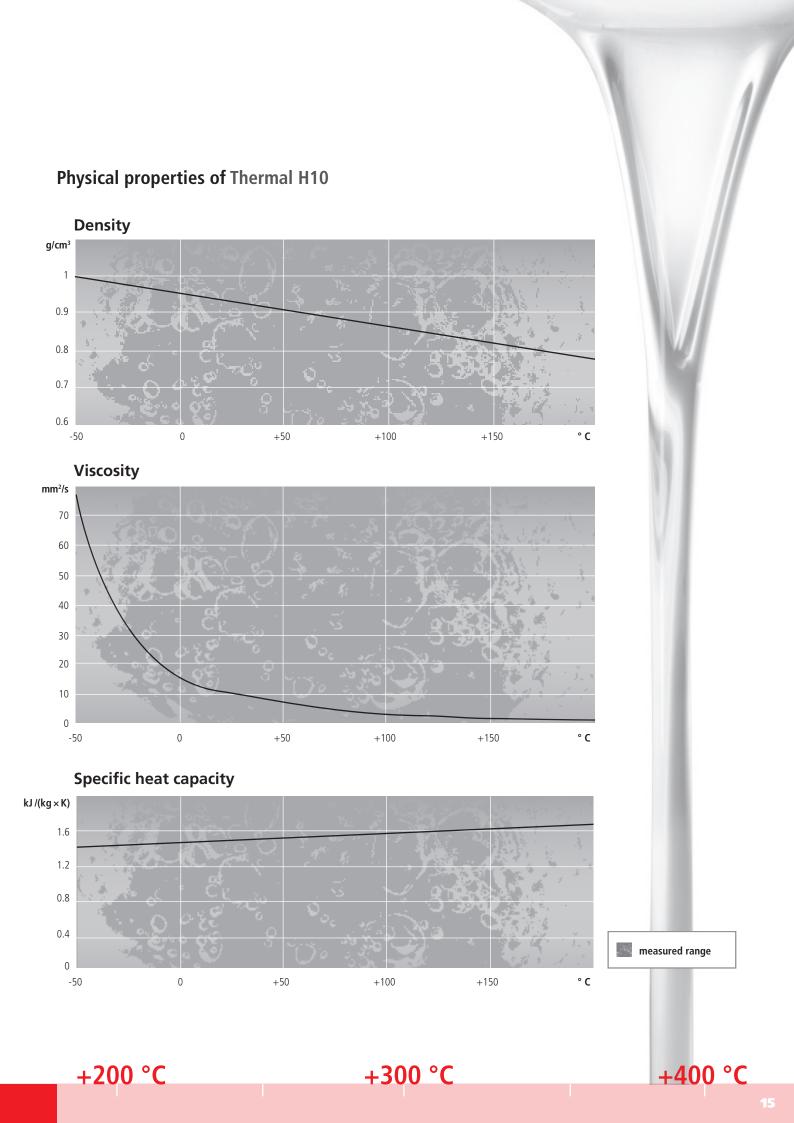
- JULABO Heating Circulators

- JULABO Chillers / Recirculating Coolers



0 °C







Bath fluid Thermal H20S

JULABO Thermal H20S is a bath fluid based on silicone.

Do not use with silicone hoses! Silicone-based bath fluids can swell and dissolve silicone hoses. Therefore use JULABO metal tubing or JULABO Viton tubing or JULABO PTFE tubing for the temperature control of external systems.

Please observe the information in our safety data sheet. You can download the safety data sheet at www.julabo.com or request it from JULABO.

Advantages:

- With additional stabilizer
- Good heat conductivity
- Minimum odor
- Long fluid life

Property	Value
Working temperature °C	0 +220
Flash point °C	+230
Fire point °C	+264
Viscosity (kinematic at 20 °C) mm²/s	22.3
Density (at 20 °C) g/cm ³	0.95
Pour point °C	-70
Boiling point °C	+424
Ignition temperature °C	+385
Color	light brown
Thermal expansion coefficient [g/(ml × K)]	0.00091
Heat conductivity $[W / (m \times K)]$	0.14
Specific volume resistivity [Ohm×cm]	4 × 10 ¹⁵

Order number	
8 940 109	5 liters
8 940 108	10 liters

Suitable for the following units:

- JULABO Refrigerated Circulators

- JULABO Heating Circulators

0 °C

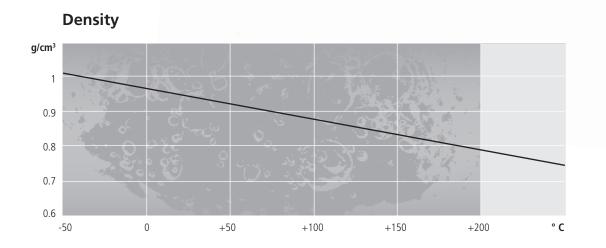
Note the tip on page 30 for the expansion of bath fluids in your application



-100 °C

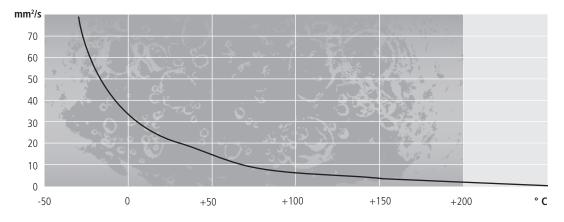
Physical properties of Thermal H20S

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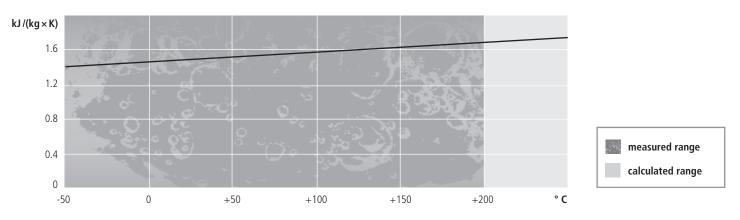


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Viscosity



Specific heat capacity



+300 °C





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Bath fluid Thermal HL30

JULABO Thermal HL30 is a bath fluid based on water-glycol and features excellent thermal properties. In addition, JULABO Thermal HL30 supplies anti-freeze protection and thus it is most suitable for applications below the freezing point of water.

Check the mixing ratio! When using Thermal HL30 for long time periods, the mixing ratio of water to glycol must be checked regularly (50:50). In case of increased glycol content, the Thermal HL30 may become flammable. Conversely, increased water content may cause the Thermal HL30 to freeze at low temperatures.

Please observe the information in our safety data sheet. You can download the safety data sheet at www.julabo.com or request it from JULABO.

Advantages:

- High stability
- Low viscosity
- Good heat conductivity
- Minimal odor
- Long fluid life

Property	Value
Working temperature °C	-30 +90
Flash point °C	not applicable
Fire point °C	not applicable
Viscosity (kinematic at 20 °C) mm ² /s	4.07
Density (at 20 °C) g/cm ³	1.08
Pour point °C	-70
Boiling point °C	+108
Ignition temperature °C	+430
Color	light yellow
Thermal expansion coefficient $[g/(ml \times K)]$	0.0007
Heat conductivity $[W / (m \times K)]$	0.153
Specific volume resistivity [Ohm×cm]	200

Order number	
8 940 139	5 liters
8 940 138	10 liters

Suitable for following units:

- PRESTO[™] A30
- PRESTO[™]A40 - PRESTO[™]W40
- PRESTO[™]A45
- PRESTO[™]A45t
- PRESTO[™]W50
- PRESTO[™]W50t

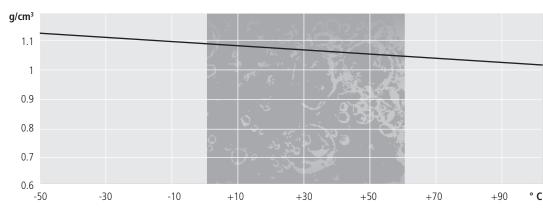
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Note the tip on page 30 for the expansion of bath fluids in your application

<u>+1</u>00 °C

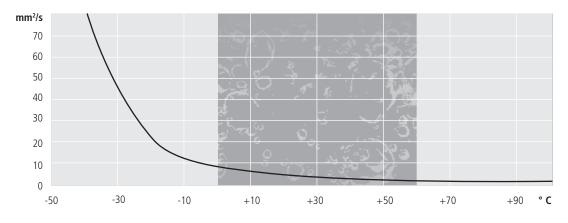
-100 °C

Physical properties of Thermal HL30

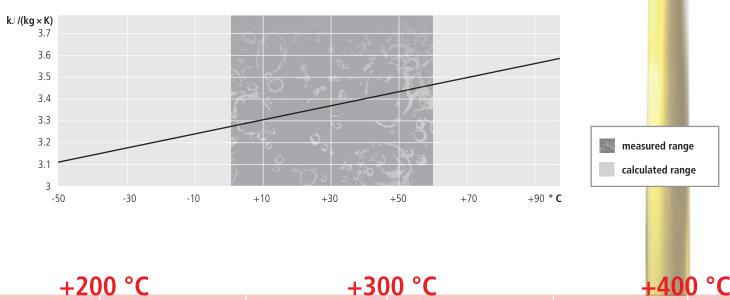


Density

Viscosity









Bath fluid Thermal HL60

JULABO Thermal HL60 is a bath fluid based on silicone with a wide working temperature range from -60 °C to +250 °C.

Do not use with silicone hoses! Silicone-based bath fluids can swell and dissolve silicone hoses. Therefore use JULABO metal tubing or JULABO Viton tubing or JULABO PTFE tubing for the temperature control of external systems.

Please observe the information in our safety data sheet. You can download the safety data sheet at www.julabo.com or request it from JULABO.

Advantages:

- Wide temperature range
- High stability
- Low viscosity
- Good heat conductivity
- Minimal odor
- Long fluid life

Property	Value
Working temperature °C	-60 +250
Flash point °C	+124
Fire point °C	+142
Viscosity (kinematic at 20 °C) mm ² /s	5.66
Density (at 20 °C) g/cm ³	0.92
Pour point °C	-100
Boiling point °C	+288
Ignition temperature °C	+350
Color	clear
Thermal expansion coefficient [g/(ml × K)]	0.00094
Heat conductivity [W /($m \times K$)]	0.116
Specific volume resistivity [Ohm×cm]	4×10^{14}

Order number	
8 940 141	5 liters
8 940 140	10 liters

Suitable for the following units: - PRESTO[™]

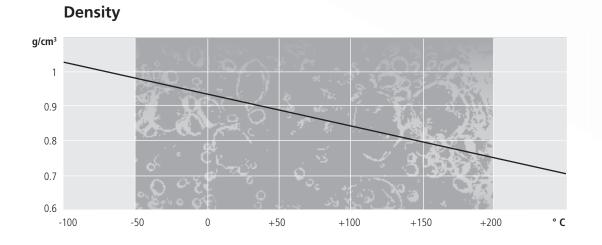


0 °C

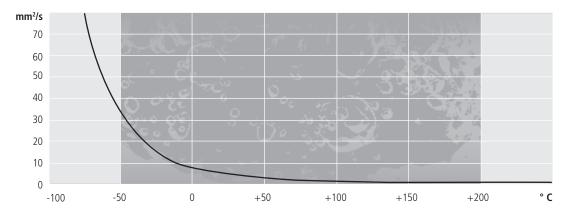




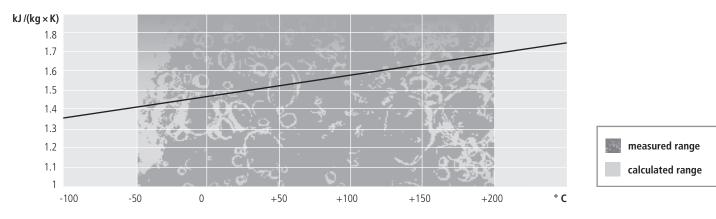
Physical properties of Thermal HL60



Viscosity







+300 °C





Bath fluid Thermal HL90

JULABO Thermal HL90 is a bath fluid based on silicone with a wide working temperature range.

Do not use with silicone hoses! Silicone-based bath fluids can swell and dissolve silicone hoses. Therefore use JULABO metal tubing or JULABO Viton tubing or JULABO PTFE tubing for the temperature control of external systems.

Please observe the information in our safety data sheet. You can download the safety data sheet at www.julabo.com or request it from JULABO.

Advantages:

- Low viscosity
- High stability
- Minimum odor
- Good heat conductivity
- Wide temperature range

Property	Value
Working temperature °C	-90 +200
Flash point °C	>+82
Fire point °C	+126
Viscosity (kinematic at 20 °C) mm ² /s	2.16
Density (at 20 °C) g/cm ³	0.91
Pour point °C	<-120
Boiling point °C	+220
Ignition temperature °C	+300
Color	clear
Thermal expansion coefficient $[g/(ml \times K)]$	0.00101
Heat conductivity[W /($m \times K$)]	0.125
Specific volume resistivity [Ohm×cm]	4 × 10 ¹⁴

Order number	
8 940 143	5 liters
8 940 142	10 liters

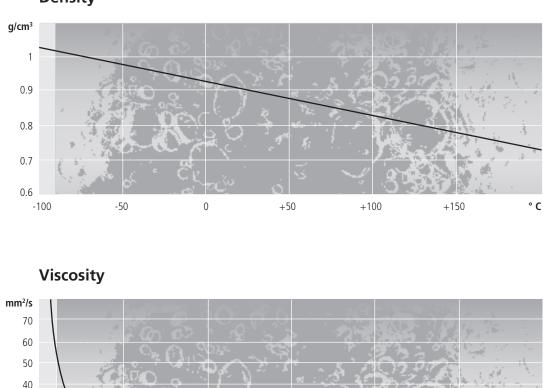
Suitable for following units: - PRESTO[™]

> Note the tip on page 30 for the expansion of bath fluids in your application

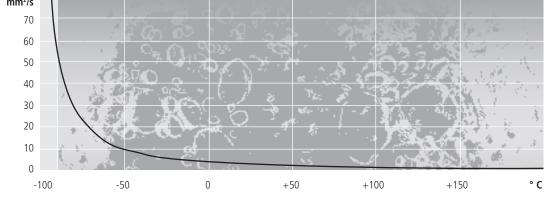




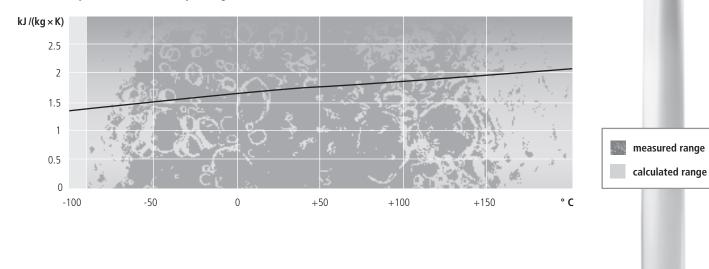
Physical properties of Thermal HL90



Density



Specific heat capacity



+300 °C





Bath fluid Thermal H250S

JULABO Thermal H250S is a bath fluid based on silicone. It has a wide working temperature range and can be used for high temperatures up to +250 °C.

Do not use with silicone hoses! Silicone-based bath fluids can swell and dissolve silicone hoses. Therefore use JULABO metal tubing or JULABO Viton tubing or JULABO PTFE tubing for the temperature control of external systems.

Please observe the information in our safety data sheet. You can download the safety data sheet at www.julabo.com or request it from JULABO.

Advantages

- Wide temperature range
- With additional stabilizer
- Good heat conductivity
- Minimal odor
- Long fluid life

Property	Value
Working temperature °C	+20 +250
Flash point °C	+230
Fire point °C	+264
Viscosity (kinematic at 20 °C) mm ² /s	22.3
Density (at 20 °C) g/cm ³	0.95
Pour point °C	-70
Boiling point °C	+424
Ignition temperature °C	+385
Color	light brown
Thermal expansion coefficient $[g/(ml \times K)]$	0.00091
Heat conductivity $[W / (m \times K)]$	0.14
Specific volume resistivity [Ohm × cm]	4 × 10 ¹⁵

Order number	
8 940 133	5 liters
8 940 132	10 liters

Suitable for following units:

- Forte HT

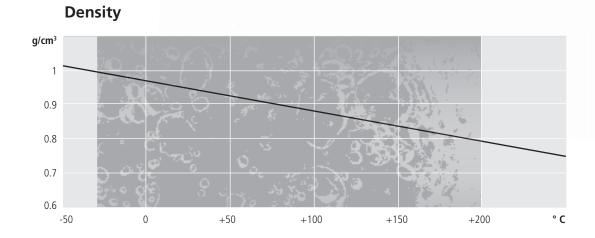
Note the tip on page 30 for the expansion of bath fluids in your application



+100 °C

Physical properties of Thermal H250S

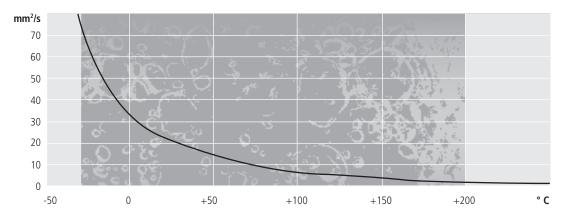
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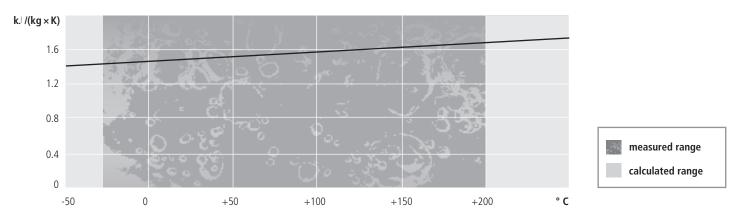
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Viscosity



Specific heat capacity



+300 °C



Bath fluid Thermal H350

JULABO Thermal H350 is a very stable hydrocarbon based bath fluid. It has a wide working temperature range and can be used for high temperatures up to +350 °C.

Please note: Usage of the fluid below the lowest mentioned working temperature may result in temperature fluctuation or high temperature alarm due to hot fluid areas around the heater.

Recommendation: Reduce the heater capacity during heating up until the lowest mentioned working temperature is reached.

Use of silicone hoses: Silicone hoses are suitable only for limited use with liquids based on hydrocarbons as their plasticizer dissolves and the hoses become brittle. Especially at high temperatures this may entail risk of injury.

Please observe the information in our safety data sheet. You can download the safety data sheet at www.julabo.com or request it from JULABO.

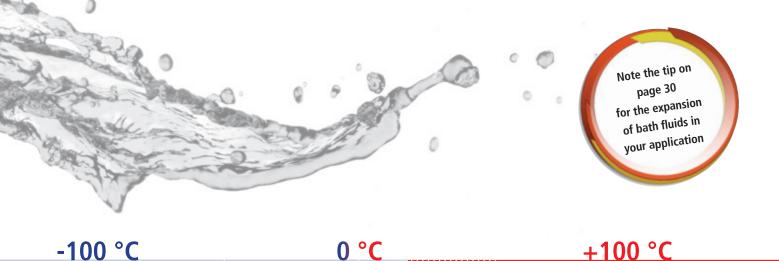
Advantages:

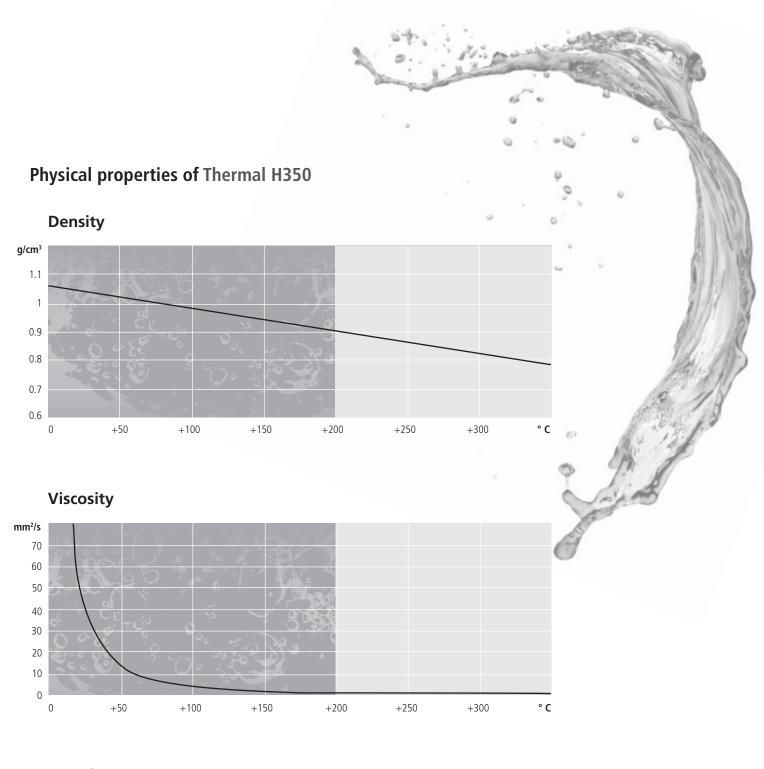
- Wide temperature range
- Very high stability
- Good heat conductivity
- Minimal odor
- Long fluid life

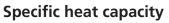
Property	Value
Working temperature °C	+50 +350
Flash point °C	+200
Fire point °C	+235
Viscosity (kinematic at 20 °C) mm ² /s	48.3
Density (at 20 °C) g/cm ³	1.04
Pour point °C	-34
Boiling point °C	+371
Ignition temperature °C	+450
Color	clear
Thermal expansion coefficient [g/(ml × K)]	0.0008
Heat conductivity [W /(m \times K)]	0.131
Specific volume resistivity [Ohm×cm]	1.6 × 10 ¹⁵

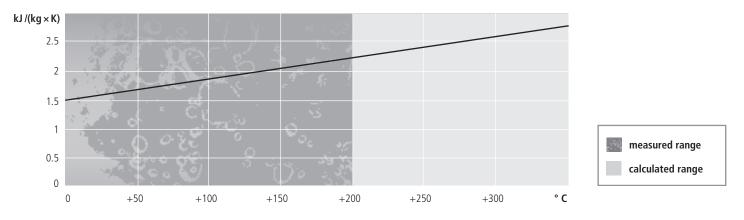
Order number	
8 940 111	5 liters

Suitable for following units: - Forte HT















Water bath protective media AQUA STABIL

JULABO AQUA STABIL is a water disinfectant for open baths. It prevents the pollution of the bath fluid and stops the growths of algae, bacteria, and other microorganisms with its germicidal effectiveness. It increases the service life of water used for temperature control.

Application: Add 2 ml AQUA STABIL per 1 liter of water. Change the water every three month even if the blue coloration has not faded. If the coloration fades before three months, exchange the water and AQUA STABIL immediately.

Please observe the information in our safety data sheet. You can download the safety data sheet at www.julabo.com or request it from JULABO.



Property		Value
Working temperature °C +20		+20 +80

Order number	
8 940 006	6 bottles, 100 ml each
8 940 012	12 bottles, 100 ml each

Suitable for the following units:

- JULABO Heating Circulators (bath fluid: water)
- JULABO Water Baths
- JULABO Shaking Water Baths

Advantages:

- excellent heat conductivity
- minimum odor

TERMINOLOGY for JULABO Thermal Bath Fluids

The recommended **working temperature range** defines the lowest and the highest temperature for the use of the respective bath fluid. Exact and stable operation of your JULABO unit is guaranteed within the given range over a long period.

The **specific heat capacity** is the thermal energy required to raise the temperature of 1 kg of liquid by 1 K.

Viscosity indicates the flow characteristics of the bath fluid and it is very dependant on temperature. When operating a JULABO unit, the viscosity has a decisive influence on the temperature stability and the pump capacity.

The **firepoint** is the temperature at which bath fluids continue to burn after ignition (>5 sec). According to standard, the maximum working temperature must always be 25 °C below the fire point. (Exemption: Closed systems by JULABO).

The **flash point** is the lowest temperature at which emerging vapors can temporarily ignite (<5 sec). The highest operating temperature specifications for JULABO bath fluids are always below the flash point and therefore exclude these risks. (Exemption: Closed systems by JULABO)



The **boiling point** is the temperature at which a liquid begins to boil (referring to an ambient pressure of 1 bar).

The **ignition temperature** is the lowest temperature at which the bath fluid ignites spontaneously and continues to burn without heat supply.

In **closed systems** by JULABO there is no contact between the bath fluid and oxygen in ambient air. Therefore, the flash and fire point indicated for these systems can be easily exceeded. Due to its construction, contact to ambient air cannot be avoided in the internal expansion tank. To avert the danger of ignition, the expansion tank of **°** JULABO units is actively cooled (cold oil superimposition).



Tip

Use the thermal coefficient of expansion to define the expansion of the bath fluid in your application. Based on your average working temperature you can define the average density (see the diagram 'density' of the relevant bath fluid). Now you can use the formula listed below to calculate the expansion. The result will help you when sizing an expansion vessel.

Please note!

The filling volume is more than just the volume in the JULABO unit. The volume in the external application and fluid hoses should also be considered in this calculation.

 $\Delta V = \frac{\beta \times \Delta T \times V_0}{D_{\text{average}}}$

 $\Delta V = change of volume$

Formula:

- β = Thermal expansion coefficient
- $\Delta T =$ Working temperature difference (Difference from t_1 final temperature - t_0 starting temperature)

+100 °C

$V_0 = Filling volume$

 $D_{mittel} = medium density (readable at t_{averane})$

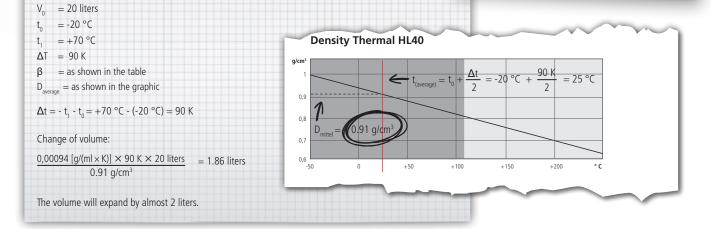
Example calculation:

What is the volume of 20 L of Thermal HL40 when heated from -20 °C to +70 °C?

 $[g/(ml \times K)]$

Thermal expansion coefficient

higkoit [M/m/K)



ansparent

5,000

0 116

-100 °C

The **Juicho** advantages at a glance.

JULABO temperature control solutions – high-precision and speed

JULABO products include high-quality temperature control solutions to cover the temperature range -95 °C to +400 °C.



Refrigerated Circulators

The JULABO Refrigerated Circulators are suitable for internal and external applications and can be used within the temperature range -95 °C to +200 °C.



Water Baths and Shaking Water Baths

JULABO Water Baths and Shaking Water Baths can be used for a variety of applications within the temperature range +18 °C to +99.9 °C.



Heating Circulators

Heating Circulators are available in various designs including Heating Immersion Circulators, Open Heating Bath Circulators, or Heating Circulators and cover the temperature range +20 °C to +300 °C.



Additional Products

0

In addition, the JULABO product portfolio offers instruments for special requirements such as Calibration Baths, Visco Baths, Beer Forcing Test Baths, Immersion / Flow-Through Coolers, Temperature Controllers and Refrigerators for Chemicals.



Highly Dynamic Temperature Control Systems

The Highly Dynamic Temperature Control Systems from JULABO can be used for demanding temperature applications ranging from -92 °C to +400 °C. The PRESTO series offers unique high-performance specifications to meet these requirements.



Wireless Communication & Software Solutions

JULABO facilitates the automation of applications. The temperature control instruments can be comfortably controlled and monitored via PC.



Recirculating Coolers

JULABO Recirculating Coolers are highly efficient and therefore offer an environmentally friendly and economic alternative to tap water cooling in the temperature range -25 °C to +130 °C.



Accessories

The extensive range of instrument accessories ensures JULABO products are adaptable for research and industry use.

Comprehensive service and on-site support

JULABO takes pride in offering customers expert advice for pairing the proper JULABO temperature control solution to their specific application. JULABO service and support options include installation and calibration, equipment qualification documentation and application training. These invaluable services ensure customer confidence in the operation and maintenance of any JULABO unit.

Individual requirements - individual products

JULABO's wide product range offers a solution for almost any application. However, if a specific application needs more than a standard product can offer, the JULABO specialists will work out an individual solution with you.





+400



GERMAN Headquarters

JULABO GmbH

Gerhard-Juchheim-Strasse 1 77960 Seelbach Germany

Tel. +49 7823 51-0 Fax +49 7823 2491 info.de@julabo.com www.julabo.com

Distributed by:



Tallaght Business Park Whitestown, Dublin 24, Ireland **D24 RFK3**

Tel: (01) 4523432 Fax: (01) 4523967 Web: www.labunlimited.com

Quatro House, Frimley Road, Camberley, United Kingdom **GU16 7ER**

Tel: 08452 30 40 30 Fax: 08452 30 50 30 E-mail: info@labunlimited.com E-mail: info@labunlimited.co.uk Web: www.labunlimited.co.uk