# ECODryBlock

## Dry block heater

Modular and digital dry block heater designed for accurate sample heating, supporting a wide range of applications in Life Science and Environmental laboratories.

Driven by curiosity




DOCUMENT DU FABRICANT SAS

# ECODryBlock

ECODryBlock is a modular, digital, and precise dry block heater designed for sample preparation, incubation, DNA denaturation, enzymatic reactions, culture media tests, and COD analysis.




## One Modular System

- A single ControlPad manages up to two heating Modules, each with space for up to 2 small aluminum blocks (76x51x95 mm) or 1 big aluminum block (152x51x95 mm)
- Set independent timers and temperatures (up to 165 °C) on each Module
- A wide range of interchangeable aluminum blocks, designed to accommodate different types of vials, tubes, and cuvette

## Uniform, Stable, and Controlled Conditions

- The transparent cover creates a warm air jacket that minimizes heat loss and ensures uniform temperature distribution
- External probes (Pt100 and Pt1000) enable precise monitoring and control directly within the block or the sample vessel
- Possibility to set different temperatures on each Module, effectively working as two dry baths in one

## Advanced User Experience

- Equipped with a 7'' capacitive touch screen with chemical-resistant glass surface
- Modern, user-friendly interface for quick parameter setting and intuitive operation
- Engineered for durability, with a 3-year warranty

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## Configurations



ECODryBlock
System



ECODryBlock
System COD 24



ECODryBlock
System COD 4



ECODryBlock
No ControlPad

# Optional Accessories

| | |
|---|---|
| Clamp with probe support | A00000280 |
| Handle for block removal | A00000351 |
| Support rod | A00001069 |
| Transparent lid | A00000493 |
| Kit ECODryBlock junction | A00000531 |
| Sample rack for A00000529* | A00000532 |
| Air condenser with ground cone* | A00001041 |
| Antisplash bell* | A00001045 |
| PTFE sheaths for 29/32 cones* | A00001042 |
| Test tube COD Ø42x200mm 200ml, 3pcs/box* | A00000145 |
| Condenser 200 mm, type KS* | CA0091667 |
| Holder for 12 round glass cells* | CA0091636 |
| Set of 20 glass test tube Ø 16 mm* | CM0091680 |
| Tube for sample decomposition Ø22 mm* | CA0091666 |
| Absorption attachment for condenser* | 10000002 |

*for COD analysis only

# External Temperature Sensors

Temperature probes ensure precise temperature control for accurate and reproducible results.



**A00000458**
Pt1000
Temperature
Probe AISI 316 Ti
Ø3 mm



**A00000268**
Pt100
Temperature
Probe AISI 316 Ti
Ø3mm

# Instrument - Codes

| | | ECODryBlock |
|---|---|---|
| ECODryBlock System | 115 V - 230 V | SA101A0700 |
| ECODryBlock System COD 24 | 115 V - 230 V | SB101A0700 |
| ECODryBlock System COD 4 | 115 V - 230 V | SC101A0700 |
| ECODryBlock no ControlPad* | 115 V - 230 V | F101A0700 |

*addition to the system

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# Blocks for Standard Test Tubes

Commonly used for general laboratory heating tasks, such as preparing solutions, dissolving substances, or incubating samples in routine chemical and biological analyses.

| Velp code | Description | Suitable for | Well Size | No. of Wells | Well Depth |
|---|---|---|---|---|---|
| A00000495 | STT-W30-D060-A Block | Round bottom tubes (6mm) | Ø 8.3 | 30 | 48.4 |
| A00000496 | STT-W24-D100-A Block | Round bottom tubes (10mm) | Ø 10.7 | 24 | 48.4 |
| A00000497 | STT-W16-D130-A Block | Round bottom tubes (12/13 mm) | Ø 13.9 | 16 | 48.4 |
| A00000498 | STT-W20-D130-A Block | Round bottom tubes (12/13 mm) | Ø 13.9 | 20 | 48.4 |
| A00000499 | STT-W12-D160-A Block | Round bottom tubes (15/16 mm) | Ø 17.5 | 12 | 48.4 |
| A00000500 | STT-W12-D180-A Block | Round bottom tubes (17/18 mm) | Ø 19.1 | 12 | 48.4 |
| A00000501 | STT-W08-D200-A Block | Round bottom tubes (20 mm) | Ø 21 | 8 | 48.4 |
| A00000502 | STT-W06-D250-A Block | Round bottom tubes (25 mm) | Ø 26.2 | 6 | 48.4 |
| A00000503 | STT-W04-D350-A Block | Round bottom tubes (35 mm) | Ø 35 | 4 | 47.6 |

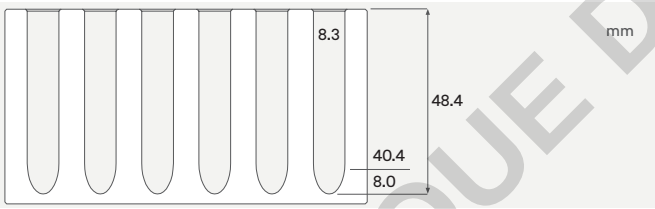
## STT-W30-D060-A

Block for Standard test tubes

Code **A00000495**




- Tube type: 6 mm round-bottom tubes
- Number of wells: 30
- Well depth: 48.4 mm
- Well size: Ø 8.3 mm
- Block dimensions (WxHxD): 76x51x95 mm



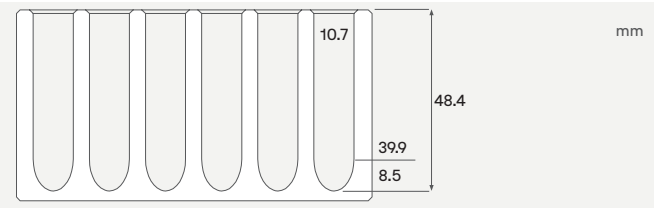

## STT-W24-D100-A

Block for Standard test tubes

Code **A00000496**




- Tube type: 10 mm round-bottom tubes
- Number of wells: 24
- Well depth: 48.4 mm
- Well size: Ø 10.7 mm
- Block dimensions (WxHxD): 76x51x95 mm



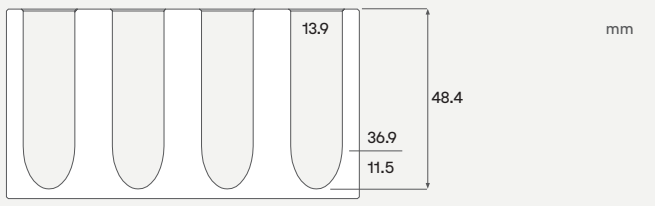

## STT-W16-D130-A

Block for Standard test tubes

Code **A00000497**




- Tube type: 12/13 mm round-bottom tubes
- Number of wells: 16
- Well depth: 48.4 mm
- Well size: Ø 13.9 mm
- Block dimensions (WxHxD): 76x51x95 mm



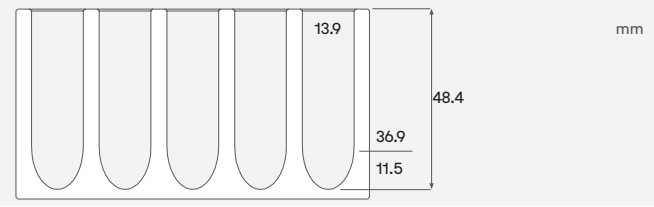

## STT-W20-D130-A

Block for Standard test tubes

Code **A00000498**




- Tube type: 12/13 mm round-bottom tubes
- Number of wells: 20
- Well depth: 48.4 mm
- Well size: Ø 13.9 mm
- Block dimensions (WxHxD): 76x51x95 mm




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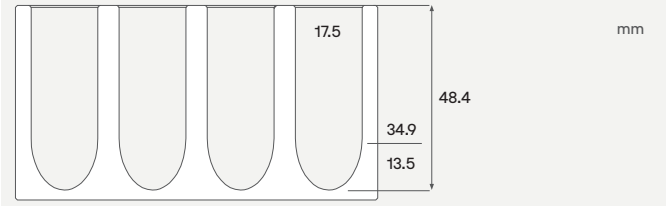
## STT-W12-D160-A

Block for Standard test tubes

Code **A00000499**

- Tube type: 15/16 mm round-bottom tubes
- Number of wells: 12
- Well depth: 48.4 mm
- Well size: Ø 17.5 mm
- Block dimensions (WxHxD): 76x51x95 mm





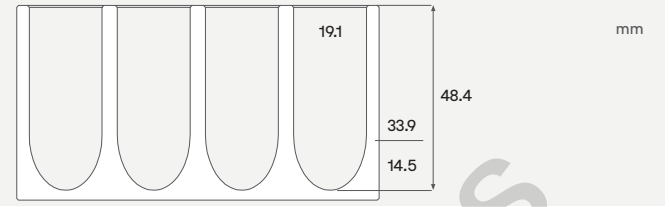

## STT-W12-D180-A

Block for Standard test tubes

Code **A00000500**

- Tube type: 17/18 mm round-bottom tubes
- Number of wells: 12
- Well depth: 48.4 mm
- Well size: Ø 19.1 mm
- Block dimensions (WxHxD): 76x51x95 mm





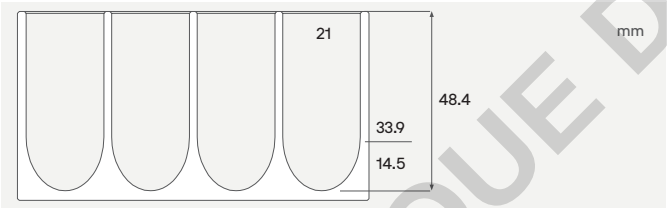

## STT-W08-D200-A

Block for Standard test tubes

Code **A00000501**

- Tube type: 20 mm round-bottom tubes
- Number of wells: 8
- Well depth: 48.4 mm
- Well size: Ø 21 mm
- Block dimensions (WxHxD): 76x51x95 mm





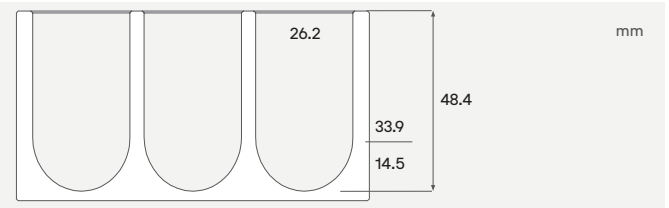

## STT-W06-D250-A

Block for Standard test tubes

Code **A00000502**

- Tube type: 25 mm round-bottom tubes
- Number of wells: 6
- Well depth: 48.4 mm
- Well size: Ø 26.2 mm
- Block dimensions (WxHxD): 76x51x95 mm





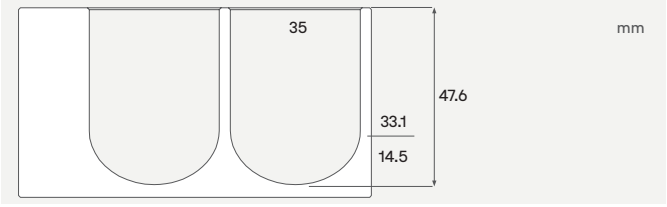

## STT-W04-D350-A

Block for Standard test tubes

Code **A00000503**

- Tube type: 35 mm round-bottom tubes
- Number of wells: 4
- Well depth: 47.6 mm
- Well size: Ø 35 mm
- Block dimensions (WxHxD): 76x51x95 mm






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# Blocks for Micro Centrifuge Tubes

Designed for small-volume samples, typically employed in molecular biology and biochemistry for DNA, RNA, or protein preparation and analysis.

| Velp code | Description | Suitable for | Well Size | No. of Wells | Well Depth |
|---|---|---|---|---|---|
| A00000504 | MCT-W30-V005-A Block | PCR tubes (0.5 ml) | Ø 7.9 | 30 | 27.6 |
| A00000505 | MCT-W20-V015-A Block | Microcentrifuge tubes (1.5 ml) | Ø 11.5 | 20 | 36.9 |
| A00000506 | MCT-W20-V015-B Block | Microcentrifuge tubes (1.5 ml) | Ø 10.9 | 20 | 39.1 |
| A00000507 | MCT-W20-V020-A Block | Microcentrifuge tubes (2.0 ml) | Ø 10.9 | 20 | 38.1 |
| A00000508 | MCT-W20-V020-B Block | Microcentrifuge tubes (2.0 ml) | Ø 10.9 | 20 | 38.1 |

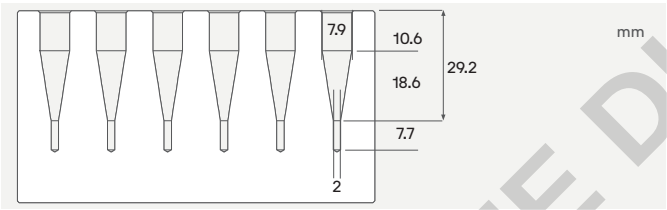
## MCT-W30-V005-A

Block for Micro centrifuge tubes

Code **A00000504**

- Tube type: PCR tubes (0.5 ml)
- Number of wells: 30
- Well depth: 27.6 mm
- Well size: Ø 7.9 mm
- Block dimensions (WxHxD): 76x51x95 mm



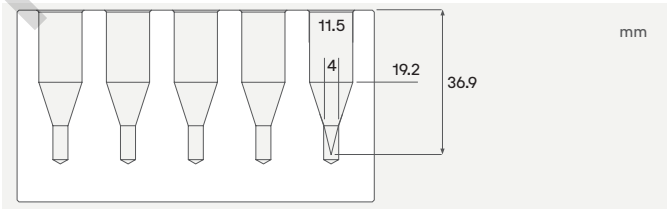

## MCT-W20-V015-A

Block for Micro centrifuge tubes

Code **A00000505**

- Tube type: Microcentrifuge tubes (1.5 ml)
- Number of wells: 20
- Well depth: 36.9 mm
- Well size: Ø 11.5 mm
- Block dimensions (WxHxD): 76x51x95 mm



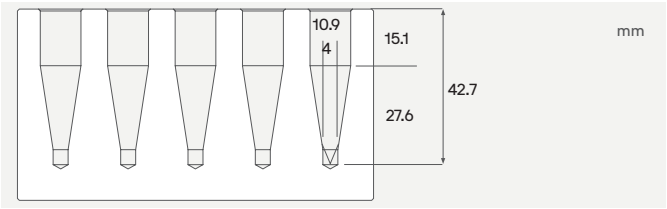

## MCT-W20-V015-B

Block for Micro centrifuge tubes

Code **A00000506**

- Tube type: Microcentrifuge tubes (1.5 ml)
- Number of wells: 20
- Well depth: 39.1 mm
- Well size: Ø 10.9 mm
- Block dimensions (WxHxD): 76x51x95 mm



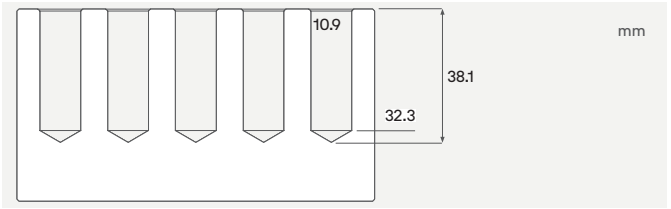

## MCT-W20-V020-A

Block for Micro centrifuge tubes

Code **A00000507**

- Tube type: Microcentrifuge tubes (2.0 ml)
- Number of wells: 20
- Well depth: 38.1 mm
- Well size: Ø 10.9 mm
- Block dimensions (WxHxD): 76x51x95 mm




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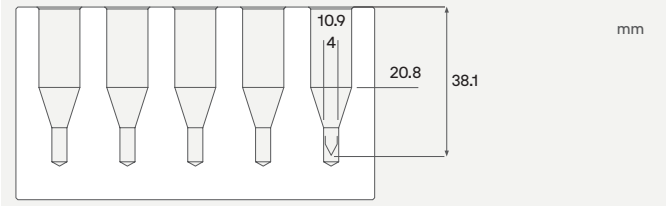
## MCT-W20-V020-B

Block for Micro centrifuge tubes

Code **A00000508**




- Tube type: Microcentrifuge tubes (2.0 ml)
- Number of wells: 20
- Well depth: 38.1 mm
- Well size: Ø 10.9 mm
- Block dimensions (WxHxD): 76x51x95 mm




# Blocks for Cuvette

Allow controlled heating of cuvettes for spectrophotometric analysis, supporting kinetic studies, enzyme reactions, or temperature-dependent absorbance measurements.

| Velp code | Description | Suitable for | Well Size | No. of Wells | Well Depth |
|---|---|---|---|---|---|
| A00000526 | CUV-W12-D125-A Block | 2 x 6 cuvettes (12.5 mm) | - | 2 | 25.4 |

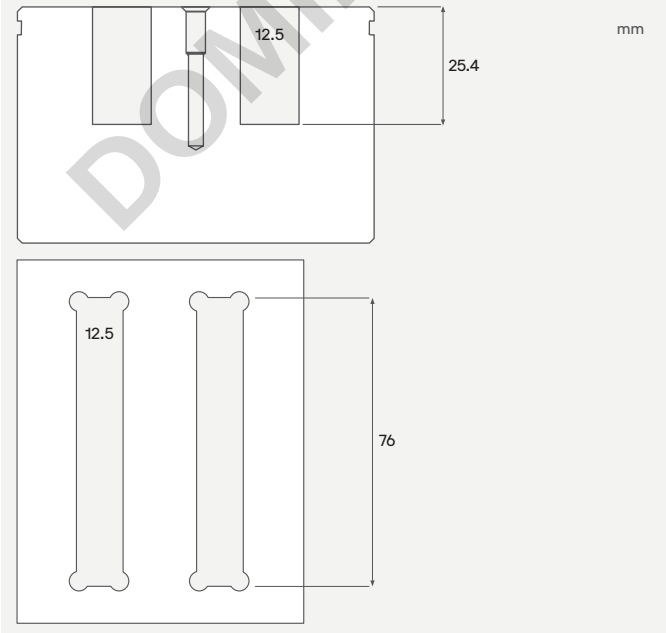
## CUV-W12-D125-A

Block for Cuvette

Code **A00000526**




- 2 x 6 cuvettes (12.5 mm)
- Number of wells: 2
- Well depth: 25.4 mm
- Block dimensions (WxHxD): 76x51x95 mm




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# Blocks for Conical Bottom Centrifuge Tubes

Used for medium to large capacity centrifugations, ideal for separating cells, particles, or biological components, as well as for preparing and collecting pellets.

| Velp code | Description | Suitable for | Well Size | No. of Wells | Well Depth |
|---|---|---|---|---|---|
| A00000509 | CCT-W12-V150-A Block | Conical centrifuges tube (15 ml) | Ø 17.1 | 12 | 44.5 |
| A00000510 | CCT-W05-V500-A Block | Conical centrifuges tube (50 ml) | Ø 29 | 5 | 47.6 |

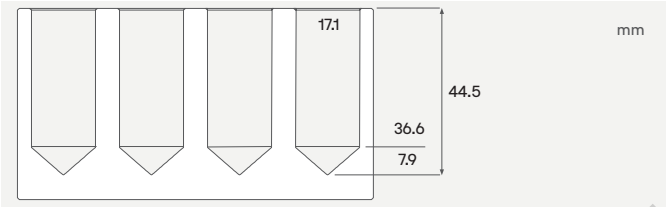
## CCT-W12-V150-A

Block for conical centrifuges tube

Code **A00000509**

- Conical centrifuges tube (15 ml)
- Number of wells: 12
- Well depth: 44.5 mm
- Well size: Ø 17.1 mm
- Block dimensions (WxHxD): 76x51x95 mm



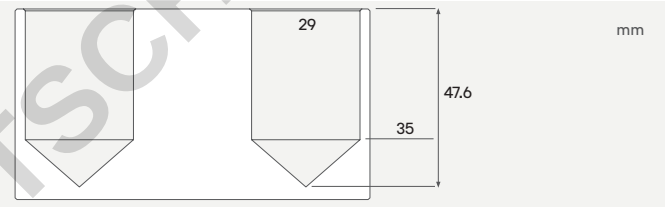

## CCT-W05-V500-A

Block for conical centrifuges tube

Code **A00000510**

- Conical centrifuge tubes (50 ml)
- Number of wells: 5
- Well depth: 47.6 mm
- Well size: Ø 29 mm
- Block dimensions (WxHxD): 76x51x95 mm




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# Combination Blocks

Provide maximum flexibility, allowing simultaneous heating of different tube formats, ideal for multipurpose laboratories handling diverse workflows.

| Velp code | Description | Suitable for | Well Size | No. of Wells | Well Depth |
|---|---|---|---|---|---|
| A00000511 | STT-W14-COMBO Block | Test tube combination, 6 / 12 / 13 / 25 mm | Ø 8.3<br>Ø 13.9<br>Ø 26.2 | 6<br>5<br>3 | 48.4<br>48.4<br>48.4 |
| A00000512 | CCT-W09-COMBO Block | Centrifuge tube combination, 1.5 / 15 / 50 ml | Ø 11.1<br>Ø 17.1<br>Ø 29 | 4<br>3<br>2 | 39.1<br>44.5<br>47.6 |
| A00000513 | MCT-W21-COMBO Block | Microcentrifuge tube combination, 0.5 / 1.5 / 2.0 ml | Ø 7.9<br>Ø 11.1<br>Ø 11.5 | 6<br>10<br>5 | 27.6<br>39.1<br>38.1 |

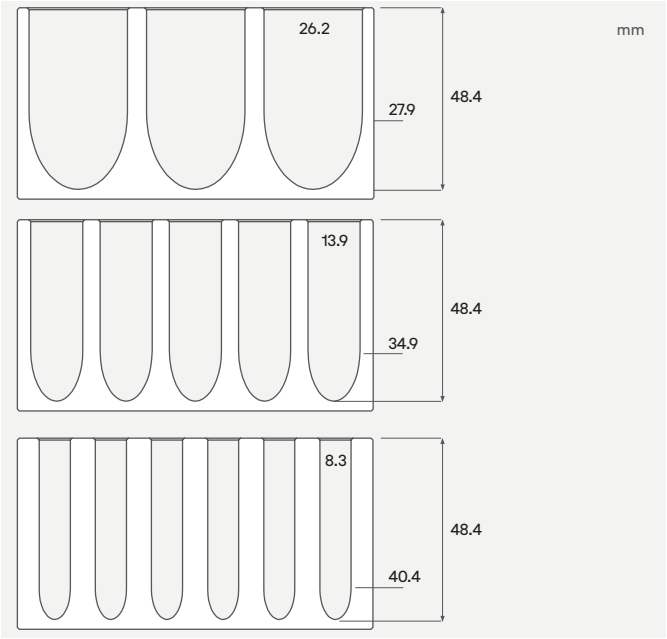
## STT-W14-COMBO Block

Block for Standard test tubes

Code **A00000511**




- Test tube combination, 6/12/13/25 mm
- Number of wells: 6/5/3
- Well depth: 48.4/ 48.4/ 48.4 mm
- Well size: Ø 8.3/13.9/26.2 mm
- Block dimensions (WxHxD): 76x51x95 mm



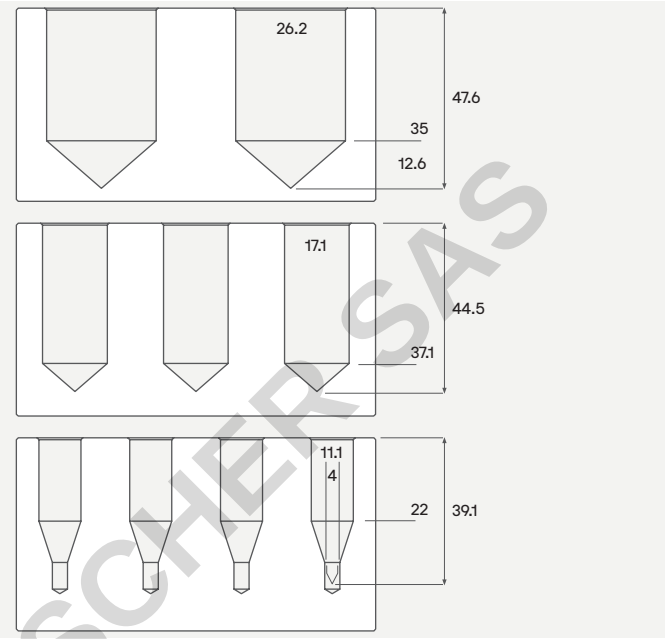

## CCT-W09-COMBO Block

Block for Conical centrifuges tubes

Code **A00000512**




- Centrifuge tube combination 1.5/15/50 ml
- Number of wells: 4/3/2
- Well depth: 39.1/44.5/47.6 mm
- Well size: Ø 11.1/17.1/29 mm
- Block dimensions (WxHxD): 76x51x95 mm



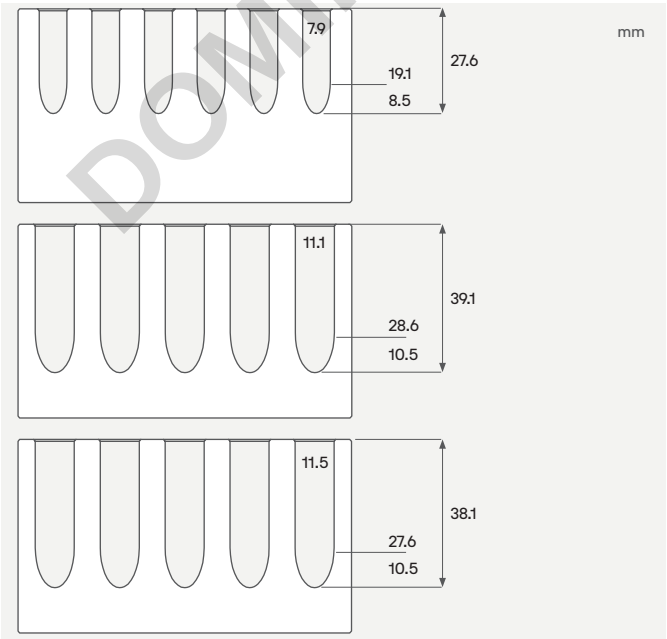

## MCT-W21-COMBO

Block for microcentrifuge tube

Code **A00000513**




- Centrifuge tube combination 7.9/11.1/11.5 ml
- Number of wells: 6/10/5
- Well depth: 27.6/39.1/38.1 mm
- Well size: Ø 7.9/11.1/11.5 mm
- Block dimensions (WxHxD): 76x51x95 mm




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# Blocks for Vials

Suitable for reaction vials, often used in chemistry and pharmaceutical applications for compound synthesis, extraction, or sample preparation.

| Velp code | Description | Suitable for | Well Size | No. of Wells | Well Depth |
|---|---|---|---|---|---|
| A00000514 | VLS-W20-D120-A Block | 12 mm vials | Ø 12.7 | 20 | 30 |
| A00000515 | VLS-W20-D150-A Block | 15 mm vials | Ø 15.8 | 20 | 35 |
| A00000516 | VLS-W15-D160-A Block | 16 mm vials | Ø 16.4 | 15 | 45 |
| A00000517 | VLS-W12-D170-A Block | 17 mm vials | Ø 17.8 | 12 | 45 |
| A00000518 | VLS-W12-D190-A Block | 19 mm vials | Ø 19.7 | 12 | 45 |
| A00000519 | VLS-W09-D210-A Block | 21 mm vials | Ø 21.7 | 9 | 45 |
| A00000520 | VLS-W08-D230-A Block | 23 mm vials | Ø 23.8 | 8 | 45 |
| A00000521 | VLS-W08-D250-A Block | 25 mm vials | Ø 25.8 | 8 | 45 |
| A00000522 | VLS-W06-D280-A Block | 28 mm vials | Ø 28.8 | 6 | 45 |

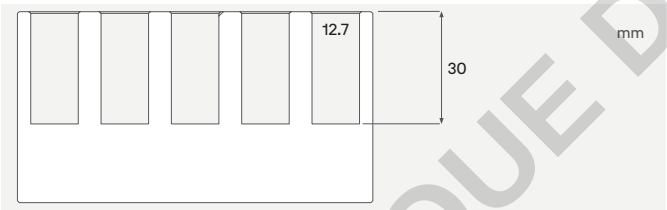
## VLS-W20-D120-A

Block for Vials

Code **A00000514**

- Tube type: 12 mm vials
- Number of wells: 20
- Well depth: 30 mm
- Well size: Ø 12.7 mm
- Block dimensions (WxHxD): 76x51x95 mm



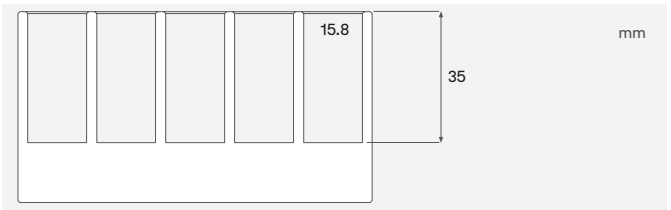

## VLS-W20-D150-A

Block for Vials

Code **A00000515**

- Tube type: 15 mm vials
- Number of wells: 20
- Well depth: 35 mm
- Well size: Ø 15.8 mm
- Block dimensions (WxHxD): 76x51x95



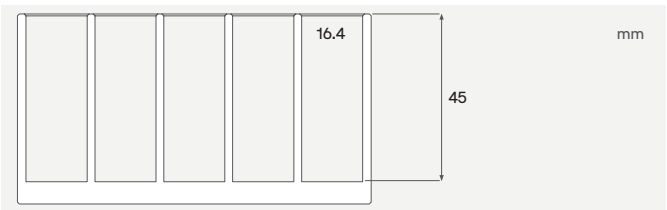

## VLS-W15-D160-A

Block for Vials

Code **A00000516**

- Tube type: 16 mm vials
- Number of wells: 15
- Well depth: 45 mm
- Well size: Ø 16.4 mm
- Block dimensions (WxHxD): 76x51x95 mm



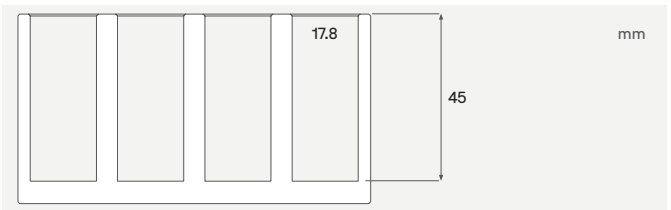

## VLS-W12-D170-A

Block for Vials

Code **A00000517**

- Tube type: 17 mm vials
- Number of wells: 12
- Well depth: 45 mm
- Well size: Ø 17.8 mm
- Block dimensions (WxHxD): 76x51x95 mm




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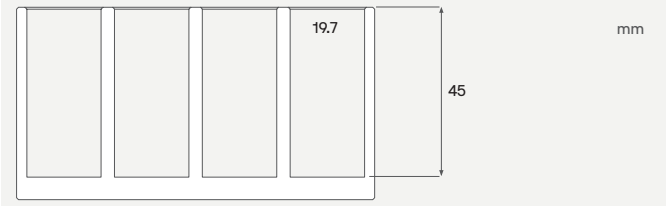
## VLS-W12-D190-A

Block for Vials

Code **A00000518**




- Tube type: 19 mm vials
- Number of wells: 12
- Well depth: 45 mm
- Well size: Ø 19.7 mm
- Block dimensions (WxHxD): 76x51x95 mm



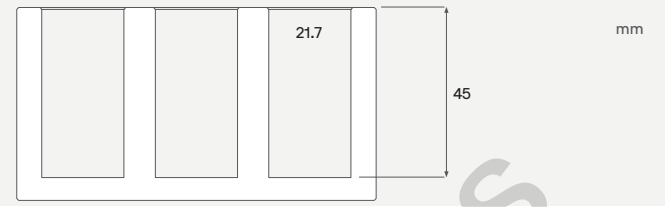

## VLS-W09-D210-A

Block for Vials

Code **A00000519**




- Tube type: 21 mm vials
- Number of wells: 9
- Well depth:45 mm
- Well size: Ø 21.7 mm
- Block dimensions (WxHxD): 76x51x95 mm



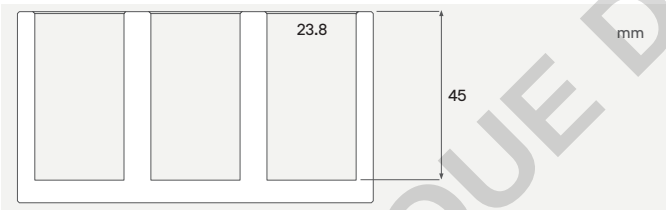

## VLS-W08-D230-A

Block for Vials

Code **A00000520**




- Tube type: 23 mm vials
- Number of wells: 8
- Well depth: 45 mm
- Well size: Ø 23.8 mm
- Block dimensions (WxHxD): 76x51x95 mm



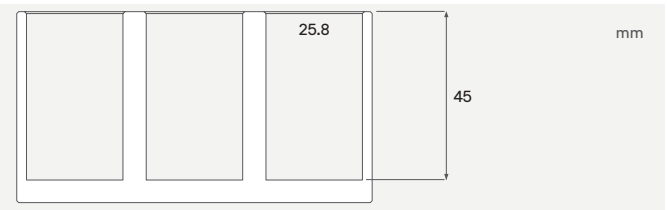

## VLS-W08-D250-A

Block for Vials

Code **A00000521**




- Tube type: 25 mm vials
- Number of wells: 8
- Well depth: 45 mm
- Well size: Ø 25.8 mm
- Block dimensions (WxHxD): 76x51x95 mm



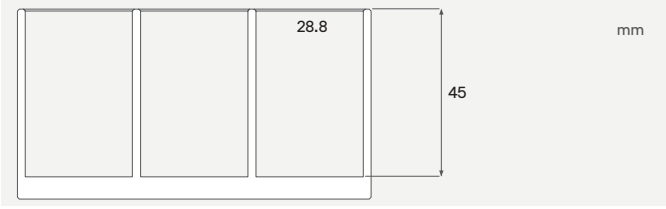

## VLS-W06-D280-A

Block for Vials

Code **A00000522**




- Tube type: 28 mm vials
- Number of wells: 6
- Well depth: 45 mm
- Well size: Ø 28.8 mm
- Block dimensions (WxHxD): 76x51x95 mm




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# Blocks for PCR

Specially designed for PCR (Polymerase Chain Reaction) applications, ensuring uniform heating and precise temperature control during DNA amplification and related molecular biology workflows, as well as diagnostics and genetic research.

| Velp code | Description | Suitable for | Well Size | No. of Wells | Well Depth |
|---|---|---|---|---|---|
| A00000523 | PCR-W64-V002-A Block | 64 x individual PCR tubes (0.2 ml tubes) | Ø 6.6 | 64 | 20.2 |
| A00000524 | PCR-W80-V002-A Block | 10 x 8 individual PCR tube strips (0.2 ml tubes) | Ø 6.6 | 80 | 15.5 |
| A00000525 | PCR-W96-V002-A Block | 1 x 96 – well PCR plate (0.2 ml tubes) | Ø 6.6 | 96 | 15.5 |

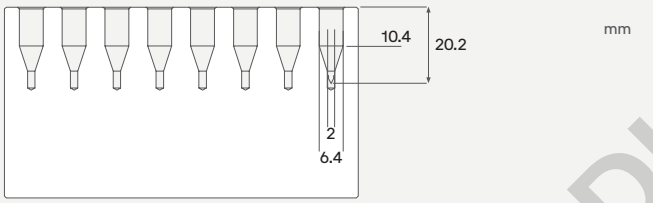
## PCR-W64-V002-A

Block for PCR

Code **A00000523**

- Tube type: Individual PCR tubes (0.2 ml tubes)
- Number of wells: 64
- Well depth: 20.2 mm
- Well size: Ø 6.4 mm
- Block dimensions (WxHxD): 76x51x95 mm



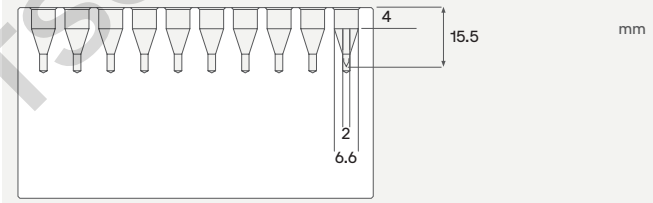

## PCR-W80-V002-A

Block for PCR

Code **A00000524**

- Tube type: Individual PCR tube strips (0.2 ml tubes)
- Number of wells: 80
- Well depth: 15.5 mm
- Well size: Ø 6.6 mm
- Block dimensions (WxHxD): 76x51x95



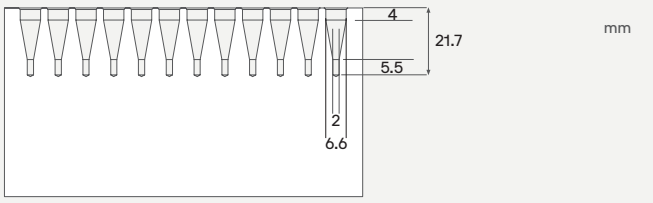

## PCR-W96-V002-A

Block for Vials

Code **A00000525**

- Tube type: PCR plate (0.2 ml tubes)
- Number of wells: 96
- Well depth: 15.5 mm
- Well size: Ø 6.6 mm
- Block dimensions (WxHxD): 152x51x95 mm




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# Blocks for COD

Dedicated to COD (Chemical Oxygen Demand) analysis in environmental testing, ensuring accurate digestion of water and wastewater samples under controlled conditions.

| Velp code | Description | Suitable for | Well Size | No. of Wells | Well Depth |
|---|---|---|---|---|---|
| A00000529 | COD-W04-D420-A Block | Round bottom COD test tube (42mm) | Ø 42 | 4 | 51 |
| A00000530 | COD-W20-COMBO Block | Round bottom COD test tube (16/22mm) | Ø 16<br>Ø 22 | 18<br>2 | 47<br>45.5 |
| A00000494 | COD-W24-D160-A Block | Round bottom COD test tube (16mm) | Ø 16 | 24 | 47 |

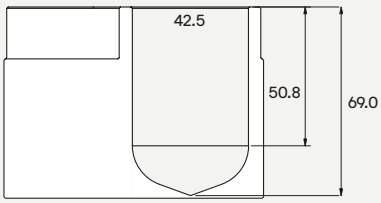
## COD-W04-D420-A

Block for COD

Code **A00000529**




- Tube type:Round bottom COD test tube (42mm)
- Number of wells: 4
- Well depth: 42 mm
- Well size: Ø 51 mm
- Block dimensions (WxHxD): 152x51x95 mm



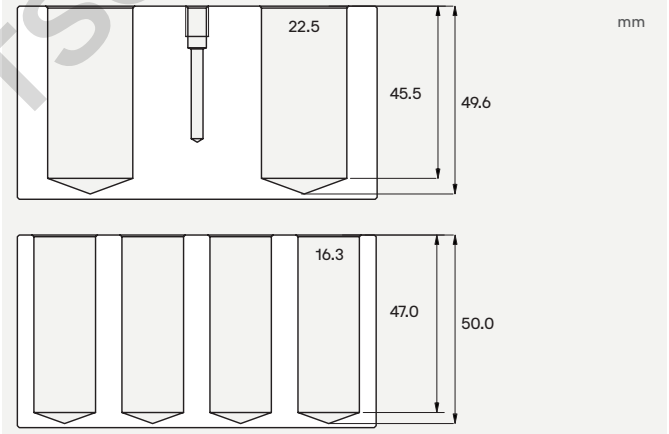

## COD-W20-COMBO

Block for COD

Code **A00000530**




- Tube type: Round bottom COD test tube (6 / 22mm)
- Number of wells: 20
- Well depth: 47 / 45.5 mm
- Well size: Ø 16 / 22 mm
- Block dimensions (WxHxD): 152x51x95 mm



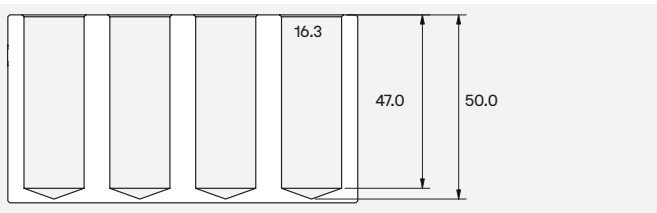

## COD-W24-D160-A

Block for COD

Code **A00000494**




- Tube type: Round bottom COD test tube (16mm)
- Number of wells: 24
- Well depth: 47 mm
- Well size: Ø 16
- Block dimensions (WxHxD): 152x51x95 mm




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# Technical Data

| | ECODryBlock |
|---|---|
| User interface | Digital |
| Set-up plate material | Aluminium alloy |
| Temperature range | Room temp. +5°C - 165°C (0,5 °C steps) |
| External temperature sensor connection | Pt100, Pt1000 Probes |
| Temperature stability within the blocks at 37°C | ±0.2 °C |
| Temperature homogeneity at 37°C | ±0.2 °C |
| Temperature stability within the blocks at 60°C | ±0.4 °C |
| Temperature homogeneity at 60°C | ±0.4 °C |
| Temperature stability within the blocks at 165°C | ±0.5 °C |
| Temperature homogeneity at 165°C | ±0.5 °C |
| Timer | Yes – 1 min - 99 h 59 min |
| Hot plate warning system | On Display (when the temperature is above 50 °C) |
| Weight | 2.1 kg (4.6 lb) |
| Weight no ControlPad | 1.3 kg (2.9 lb) |
| Dimensions (WxHxD) | 228x92.5x350 mm<br>(8.97x3.64x13.77 in) |
| Dimensions (WxHxD) no ControlPad | 207x92.5x195 mm<br>(8.15x3.64x7.68 in) |

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## Service & Support

Velp products are designed by our engineers to resist years of laboratory use.

Our products are manufactured with premium materials to guarantee the best performance with maximum safety.

According to our experience, a proper and regular maintenance is necessary to ensure the highest performance of analytical instrument. Velp Service Department and Velp Official Partners are always ready to offer you maintenance and service support tailored to your needs.

Get the support you need choosing the options:

- Help-desk and Remote support
- Technical Assistance
- Analytical Support

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Rev 3.1.2026