VELP SCIENTIFICA
Analytical Instruments
Raised To Excellence

UDK Series
Distillation Units

A Full Range of Solutions for Kjeldahl Distillation
UDK Distillation Units

The UDK distillation units are used to perform nitrogen and protein content analysis according to the Kjeldahl method. UDK Series covers a wide range of applications in food and feed industries and for several others in environmental control, chemical and pharmaceutical industries. UDK series works in accordance with a variety of standards such as: AOAC, ISO, EPA, AACC.

UNRIVALED FLEXIBILITY

With the UDK Series it is possible to choose from a complete range of distillers able to address any laboratory requirement from few samples per day to unattended operations with autosampler.

COMPLETE SAFETY

The UDK Series comprises a great set of safety features such as: safety thermostats, sensors, protective transparent door, flow rate detector and more.

UNIQUE TECHNOLOGY

The VELP Distillation Units are the only distillers in the market with the patented steam generator and titanium condenser (patent pending) that enables a low cost per analysis and the best-in-class performance.

PREMIUM ROBUSTNESS

The technopolymer structure of the UDK Series ensures the excellent durability and resistance to chemical attacks.

RELIABLE AND ACCURATE

The UDK Series is engineered to ensure precise results calculation of nitrogen content with an accuracy of ± 0.1 mgN.

VELP SOLUTIONS FOR KJELDAHL ANALYSIS

<table>
<thead>
<tr>
<th>SAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIGESTION</td>
</tr>
<tr>
<td>1 DKL SERIES / DK SERIES DIGESTERS</td>
</tr>
<tr>
<td>2 JP RECIRCULATING WATER VACUUM PUMP</td>
</tr>
<tr>
<td>3 SMS SCRUBBER</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DIGESTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 UDK SERIES DISTILLATION UNITS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TITRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 UDK 149 CONNECTIVITY TO EXTERNAL TITRATION SYSTEMS</td>
</tr>
<tr>
<td>4 UDK 159 / UDK 169 INTEGRATED COLORIMETRIC TITRATION SYSTEM</td>
</tr>
</tbody>
</table>

NITROGEN mg (Protein %)
Unique Features

**PATENTED STEAM GENERATOR**

**SAFE WORKING CONDITIONS**
A thermostat ensures the correct functioning of the steam generator, a safety thermostat eliminates risks for the operator.

**NON-PRESSURIZED**
No chance of leaks occurring even after an intensive use, completely maintenance-free.

**RELIABLE**
The high level of precision and accuracy ensures correct and detailed results.

**TECHNOPOLYMER SPLASH HEAD**

**LONG LIFE**
The best and most durable solution when a large number of samples are processed.

**HIGH CHEMICAL RESISTANCE**
Highly resistant to chemical especially alkalis, used during steam distillation.

**NO RISK OF BREAKAGE**
Ensures safe working conditions in the laboratory and will not cause downtime.

**MAINTENANCE-FREE AND EASY TO REPLACE**
No maintenance required, extremely easy to replace when necessary.

**PATENTED TITANIUM CONDENSER**

**EFFICIENT THERMAL EXCHANGE**
Distillate temperature always below the Kjeldahl threshold value

**LIMITED WATER CONSUMPTION**
From only 0.5 l/min at 15 °C (1 l/min at 30 °C)

**NO NITROGEN LOSS, PRECISE RESULTS**
Cost reduction thanks to high performance, minimal consumption and no external chiller

**MINIMAL MAINTENANCE**
Easy to disassemble and clean
**UDK 139 Distillation Unit**

The UDK 139 is the ideal solution for a laboratory running only a few samples per day and does not need advanced features.

**FEATURES**

- Automatic NaOH addition
- Delay time (Devarda’s alloy analysis)
- Alkali resistant technopolymer housing
- Selectable distillation time
- LCD display
- Safety guard and lever with sensors to protect the user

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**UDK 139 Semi-Automatic Distillation Unit**

The UDK 139 is the semi-automatic model offering greater automation and a wider range of programming options.

**FEATURES**

- Automatic NaOH and H₂O addition
- Steam regulation (10-100%)
- Delay time (Devarda’s alloy analysis)
- 10-program library
- Alkali resistant technopolymer housing
- Reagent level warning via sensors in tanks
- Selectable distillation time
- Distillation residues removal
- 3.5” color touch screen
- 2 x USB ports
- Multiple languages selection
- Safety guard and lever with sensors to protect the user
- Connection to mouse and printer
UDK 149 Automatic Distillation Unit, with Titrator Connection

The UDK 149 is a flexible solution for laboratories performing Kjeldahl distillation. UDK 149 can be connected to several external titrators models.

**FEATURES**
- Automatic NaOH, H₂O and H₃BO₃ addition
- Steam regulation (10-100%)
- Delay time (Devarda's alloy analysis)
- Automatic titration vessel washing
- Alkali resistant technopolymer housing
- Reagent level warning via sensors in tanks
- Selectable distillation time
- Distillation and titration residues removal
- Distillation in series for repeat analysis
- Archive for on-board data storage
- 3.5” color touch screen
- Ethernet, 2 x USB ports, RS232 and TTL
- Multiple languages selection
- Safety lever and sensors to protect the user
- Connection to external titrators supported
- Connection to mouse, printer and PC

**External Potenziometric Titrator**

The UDK 149 connectivity is optimized for the most common automatic titrators to guarantee fully automated operations.

The optional TITROLINE 5000 Automatic Titrator is a very compact titrator for simple routine titrations. GLP compliant results with titration curve can be documented on a connected printer or USB-memory stick.

**TITRATION FEATURES**
- Automatic Titrination
- Real time volume dosing of the titrant
- Automatic cleaning and washing of the titrant solution vessel
- Titrations to pH, mV - endpoint (2 EP)
- Titrations with dynamic or linear titration solution additions
- Maximum versatility
The colorimetric titration is based on precise chemical reactions of indicators. VELP integrated titrator is maintenance-free and is AOAC recommended. It works by dosing an acidic titrant solution to the boric acid containing the ammonia distilled from the sample. This titration process results in a color change that is evaluated by the system.

### FEATURES
- Automatic NaOH, H₂O and H₃BO₃ addition
- Steam regulation (10-100%)
- Delay time (Devarda’s alloy analysis)
- Washing and blank analysis
- Automatic titration vessel washing
- 55-program library (31 pre-defined + 24 customizable)
- Alkali resistant technopolymer housing
- Reagent level warning via sensors in tanks
- Distillation and titration residues removal
- Distillation in series
- Reporting
- Archive for on-board data storage
- 6” color touch screen
- Ethernet, 2 x USB ports and RS232
- Balance connection
- Electronic user guide
- Multiple languages selection
- Safety lever and sensors to protect the user
- Connection to mouse, printer and PC

### Colorimetric Titration (UDK 159 - 169)
The colorimetric titration is based on precise chemical reactions of indicators. VELP integrated titrator is maintenance-free and is AOAC recommended. It works by dosing an acidic titrant solution to the boric acid containing the ammonia distilled from the sample. This titration process results in a color change that is evaluated by the system.

1 **RED**
Absence of ammonia

2 **GREEN**
Significant amount of ammonia is flowing into the receiving solution

3 **GREY/PINK**
End point of the analysis

### VRECEIVER™
VELP unique Vreceiver™ is a certified formula composed of Boric Acid powder and a mixture of indicators mentioned by AOAC methods (bromocresol green and methyl red) allowing fast and standardized receiving solution preparation for colorimetric titration.
**UDK 169 Distillation & Titration System with Autosampler**

The UDK 169 is the top of the range solution to quantify the nitrogen/protein content with Kjeldahl method. A fully automated Kjeldahl analyzer, with an integrated colorimetric titrator for premium performance and continuous operation. It offers the highest sample throughput available when connected to the AutoKjel autosampler, for the most productive system available. Just load your samples and walk away: the system will carry out analysis of all samples unattended and store the results.

**FEATURES AND BENEFITS**

- Automatic NaOH, H₂O and H₃BO₃ addition
- Steam regulation (10-100%)
- Delay time (Devarda’s alloy analysis)
- Washing and blank analysis
- Automatic titration vessel washing
- 55-program library (31 pre-defined + 24 customizable)
- Alkali resistant technopolymer housing
- Reagent level warning via sensors in tanks
- Tanks included with AutoKjel (2x20-liter, 1x10-liter, 1x5-liter)
- Smart reagent consumptions estimation
- Multi-tasking software with full autosampler control
- Distillation and titration residues removal
- Distillation in series
- Instantaneous reporting
- Archive for on-board data storage
- 6” color touch screen
- Ethernet, 2 x USB ports and RS232
- Balance connection
- Electronic user guide
- Multiple languages selection
- Safety lever and sensors to protect the user
- Connection to mouse, printer and PC

**Automatic Addition of**

**NaOH . H₂O . H₃BO₃ Titrant Solution**

**Integrated Colorimetric Titrator**

AOAC Recommended

24-position carousel
250 ml tubes (standard)

21-position carousel
400 ml tubes (optional)
**Main Applications and Methods**

UDK Series complies with many official methods for different applications such as the determination of ammoniacal nitrogen, protein determination, nitrogen content (Kjeldahl or direct alkaline distillation), nitric nitrogen (after reduction/Devarda), phenols, volatile acids, sulphur, cyanides and alcohol content. A short list of the most common samples with the corresponding references follows, but many others can be tested according to official methods (AOAC, ISO, DIN, EPA, AACC etc.).

### Nitrogen / Protein on Food&Feed Samples

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>METHODS (main reference, many others are complied)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal feed and pet food</td>
<td>AOAC 984.13, EN ISO 5983-2 (AOAC 2001:11)</td>
</tr>
<tr>
<td>Beer (and its ingredients: barley, malt, wort)</td>
<td>AOAC 920.53, AOAC 950.09</td>
</tr>
<tr>
<td>Bread and baked products</td>
<td>AOAC 950.36</td>
</tr>
<tr>
<td>Cereals and grains (wheat, oats, barley, corn, rice, soy beans, lupins, etc.)</td>
<td>AOAC 979.09 EN ISO 5983-2 (AOAC 2001:11)</td>
</tr>
<tr>
<td>Malt</td>
<td>AOAC 950.09</td>
</tr>
<tr>
<td>Meat and derived products (bacon, ham, salami, sausage, liver paté, etc.)</td>
<td>ISO 937 (AOAC 981.10)</td>
</tr>
<tr>
<td>Nuts and nut products (almonds, coconuts, peanuts, etc.)</td>
<td>AOAC 950.48</td>
</tr>
<tr>
<td>Pasta (e.g. Macaroni, etc.)</td>
<td>AOAC 930.25</td>
</tr>
<tr>
<td>Plants (vegetables, forage, straw, seeds, tea, etc.)</td>
<td>AOAC 978.04</td>
</tr>
<tr>
<td>Yeast</td>
<td>AOAC 962.10</td>
</tr>
<tr>
<td>Oil seeds</td>
<td>EN ISO 5983-2 (AOAC 2001:11)</td>
</tr>
</tbody>
</table>

### Nitrogen on Other Samples

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>METHODS (main reference, many others are compiled)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal</td>
<td>ISO 333:1996</td>
</tr>
<tr>
<td>Fertilizers</td>
<td>AOAC 920.03</td>
</tr>
<tr>
<td>Lubricating oils and fuel oils</td>
<td>ASTM D3228-96</td>
</tr>
<tr>
<td>Paper and paperboard (gelatin, casein)</td>
<td>TAPPI STD T418 05-61</td>
</tr>
<tr>
<td>Rubber, raw natural, and rubber latex</td>
<td>ISO 1656:1996</td>
</tr>
<tr>
<td>Soil</td>
<td>“Method of soil analysis” part 2 – Chemical and microbiological properties, 2 ed.</td>
</tr>
<tr>
<td>Urea</td>
<td>ISO 1592:1977</td>
</tr>
<tr>
<td>Water</td>
<td>AOAC 973.48</td>
</tr>
</tbody>
</table>

### Other Applications

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>METHODS (main reference, many others are compiled)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol determination</td>
<td>Reg. (CEE) 2670/2000, EBC 9.2.1</td>
</tr>
<tr>
<td>Cyanides in waste water</td>
<td>EPA 9010C</td>
</tr>
<tr>
<td>Nitric nitrogen on water after reduction (devarda method)</td>
<td>ISO 10048:1991</td>
</tr>
<tr>
<td>Phenols in water, saline water, domestic and industrial wastes</td>
<td>EPA 9065; APAT CNR IRSA 5070</td>
</tr>
<tr>
<td>Total volatile basic nitrogen (tvbn) in fresh/frozen fish</td>
<td>Conway &amp; Byrne Method (1933)</td>
</tr>
<tr>
<td>Urea and ammoniacal nitrogen in animal feed</td>
<td>AOAC 941.04</td>
</tr>
<tr>
<td>Volatile acidity of tomato paste</td>
<td>Reg. (CEE) 1764/86</td>
</tr>
<tr>
<td>Volatile acidity of wines</td>
<td>Reg. (CEE) 266/90</td>
</tr>
<tr>
<td>Sulphur</td>
<td>AOAC 962.16, AOAC 990.28</td>
</tr>
</tbody>
</table>

**TEMS**

**TIME SAVING:** Fast and frequent analyses; no heating delay between runs.

**ENERGY SAVING:** Cooling water consumption starting from only 0.5 l/min; excellent insulation of internal parts.

**MONEY SAVING:** Cost reduction is substantial, in line with reduced power consumption.

**SPACE SAVING:** The extremely compact footprint saves useful laboratory bench space.
OPTIONAL ACCESSORIES

- Spacer for test tube Ø 48x260 mm
  A00000206
- Test tube connection Ø 26 mm, Ø 48 mm and 500 ml Kjeldahl balloon
  A00000043
- Printer Adapter (UDK 139, 149, 159, 169)
  A00000195
- UDK 129 IQ/OQ/PO Manual
  A00000205
- UDK 139 IQ/OQ/PO Manual
  A00000204
- UDK 149 IQ/OQ/PO Manual
  A00000203
- UDK 159 IQ/OQ/PO Manual
  A00000202
- UDK 169 IQ/OQ/PO Manual
  A00000254
- AutoKjel IQ/OQ Manual
  A00000256
- Waterproof mouse (for UDK 139, 149, 159, 169)
  A00000215
- Titrator Titroline Easy K for UDK 149
  R30800194
- Acid pump kit UDK1X9 230V
  A00000220
- Kjeldahl balloon, 500 ml
  A00000082
- Glass splash head kit UDK129
  A00000238
- Acid pump kit UDK129 115V
  A00000259
- NaOH tank with caps (UDK1X9)
  A00000265
- H2O tank with caps
  A00000266
- Alcoholic strength kit
  A00000285
- Vreceiver TKN formula for 1L sol., 40g (1-25 bags)
  A00000316
- Glass splash head kit UDK
  A00000216
- Residues tank with caps
  A00000267
- Printer
  A00001009
- Connect. kit Mettler DL50-55-58 TTL
  A00000208
- Connect. kit Metrohm 848-877 TTL
  A00000209
- Connect. kit Metrohm 848-877 RS232
  A00000210
- Connect. kit Schott RS232
  A00000211
- Kit Mettler DL15-22-28, T50-70-90, G20 TTL
  A00000212
- Connect. kit KEM AT500-510
  A00000213
- Connect. kit Mettler T50,70,90,G20 RS232
  A00000214
- H3BO3 tank with caps (UDK149,159,169)
  A00000264
- Serial cable RS232
  A00000005
- AUTOJKEL carousel for 21x400 ml tubes
  A00000247
- Guide for test tube Ø50 AUTOJKEL
  A00000255
- Printer (UDK 139, 149, 159, 169)
  A00001009

INSTRUMENT - CODE

<table>
<thead>
<tr>
<th>UDK</th>
<th>Voltage / Frequency</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>129</td>
<td>230 V / 50-60 Hz</td>
<td>F3020120</td>
</tr>
<tr>
<td>129</td>
<td>115 V / 50-60 Hz</td>
<td>F30210120</td>
</tr>
<tr>
<td>139</td>
<td>230 V / 50-60 Hz</td>
<td>F30200130</td>
</tr>
<tr>
<td>149</td>
<td>230 V / 50-60 Hz</td>
<td>F30200140</td>
</tr>
<tr>
<td>159</td>
<td>230 V / 50-60 Hz</td>
<td>F30200150</td>
</tr>
<tr>
<td>169</td>
<td>230 V / 50-60 Hz</td>
<td>F30200160</td>
</tr>
<tr>
<td>AutoKjel</td>
<td>230 V / 50-60 Hz</td>
<td>F30200430</td>
</tr>
<tr>
<td>UDK 169 &amp; AutoKjel</td>
<td>230 V / 50-60 Hz</td>
<td>S30200160</td>
</tr>
</tbody>
</table>

SUPPLIED WITH

A0001080 Test tube Ø 42x300 mm
10001106 Collecting Tank 250 ml

A0000247 Inlet tube, discharge tube and protective film for touch screen are supplied with the instrument

TEST TUBES

- A00001083 Test tube Ø 60x300 mm
- A0001088 Test tube Ø 48x260 mm
- A00000144 Test tube Ø 42x300 mm
- A00000146 Test tube Ø 26x300 mm
- A00000185 Test tube Ø 50x300 mm

FIELDS OF APPLICATION

- Food, Feed and Beverage Industry
- Environmental Industry
- Pharmaceutical and Chemical Industry
**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>UDK 129</th>
<th>UDK 139</th>
<th>UDK149</th>
<th>UDK159</th>
<th>UDK 159</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ANALYSIS TIME</strong></td>
<td>5 min (for 100ml)</td>
<td>4 min (for 100ml)</td>
<td>3 min (for 100ml)</td>
<td>for 4 min (titration included)$</td>
</tr>
<tr>
<td><strong>MEASURING RANGE</strong></td>
<td>0.1 - 200 mgN</td>
<td>0.1 - 200 mgN</td>
<td>0.1 - 200 mgN</td>
<td>0.1 - 200 mgN</td>
</tr>
<tr>
<td><strong>REPRODUCIBILITY (RSD)</strong></td>
<td>± 1%</td>
<td>± 1%</td>
<td>± 1%</td>
<td>± 1%</td>
</tr>
<tr>
<td><strong>RECOVERY</strong></td>
<td>≥ 99.5 %</td>
<td>≥ 99.5 %</td>
<td>≥ 99.5 %</td>
<td>≥ 99.5 %</td>
</tr>
<tr>
<td><strong>DETECTION LIMIT</strong></td>
<td>≥ 0.1 mg N</td>
<td>≥ 0.1 mg N</td>
<td>≥ 0.1 mg N</td>
<td>≥ 0.1 mg N</td>
</tr>
<tr>
<td><strong>AUTOMATIC SODIUM HYDROXIDE ADDITION</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>AUTOMATIC DILUTION WATER ADDITION</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>AUTOMATIC BORIC ACID ADDITION</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>SELECTABLE DISTILLATION TIME</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>not necessary with titration</td>
</tr>
<tr>
<td><strong>DISTILLATION RESIDUES REMOVAL</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>STEAM FLOW REGULATION</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>DELAY TIME (DEVARDA ALLOY ANALYSIS)</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>DISTILLATION IN SERIES</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>LIMITED WATER CONSUMPTION</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>DISPLAY</strong></td>
<td>LCD</td>
<td>3.5’’ touch screen</td>
<td>3.5’’ touch screen</td>
<td>6’’ touch screen</td>
</tr>
<tr>
<td><strong>PROGRAMS</strong></td>
<td>1</td>
<td>10</td>
<td>20</td>
<td>55</td>
</tr>
<tr>
<td><strong>LANGUAGE SELECTION</strong></td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>ARCHIVE (on-board data storage)</strong></td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>PASSWORD (user / super user)</strong></td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>TITRATION RESIDUES REMOVAL</strong></td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>AUTOMATIC TITRATION VESSEL WASHING</strong></td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>MOUSE</strong></td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>PRINTER</strong></td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>PC (FOR DATA STORAGE)</strong></td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>PEN DRIVE (FOR DATA TRANSFER)</strong></td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>BALANCE</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>AUTOSAMPLER</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>OVERALL DIMENSIONS (WxHxD)</strong></td>
<td>385x780x416 mm 15.2x30.7x16.4 in</td>
<td>385x780x416 mm 15.2x30.7x16.4 in</td>
<td>385x780x416 mm 15.2x30.7x16.4 in</td>
<td>385x780x416 mm 15.2x30.7x16.4 in</td>
</tr>
<tr>
<td><strong>OVERALL WEIGHT</strong></td>
<td>24 Kg 52.9 lb</td>
<td>26 Kg 57.3 lb</td>
<td>27 Kg 59.5 lb</td>
<td>31 Kg 69.3 lb</td>
</tr>
<tr>
<td><strong>POWER SUPPLY</strong></td>
<td>230 V / 115 V</td>
<td>230 V</td>
<td>230 V</td>
<td>230 V</td>
</tr>
<tr>
<td><strong>POWER</strong></td>
<td>2100 W / 1700 W</td>
<td>2100 W</td>
<td>2100 W</td>
<td>2100 W</td>
</tr>
</tbody>
</table>

**SERVICE & SUPPORT**

VELP Scientifica 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:**

- Installation
- Preventive Maintenance
- Help-desk and Remote support
- Technical Assistance
- Analytical Support
- Calibration Certification

We reserve the right to make technical alterations
We do not assume liability for errors in printing, typing or transmission

**DEIGNED AND MANUFACTURED IN ITALY**

VELP Official Partner

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