ALPINE AIR JET SIEVE® e200 LS
THE LAST WORD IN PARTICLE SIZE ANALYSIS
ALPINE Air Jet Sieve® e200 LS
Easier to use, faster and more reliable: enter a new age with the world’s market leader.

Delivery scope:
Whether eControl Basic, Professional or Ultimate – select the software package that is tailored perfectly to your needs. The functions can be upgraded any time to a higher-level version. The software includes a comprehensive package of accessories.

Technical Specifications

<table>
<thead>
<tr>
<th>Analysis range (ø 200/203 mm)</th>
<th>20 µm to 4 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analysis range (ø 76 mm)</td>
<td>10 µm to 2.5 mm</td>
</tr>
<tr>
<td>Navigation</td>
<td>High-resolution, resistive 6.4&quot; TFT touch screen</td>
</tr>
<tr>
<td>Power cable (m)</td>
<td>3.0</td>
</tr>
<tr>
<td>Mains connection (V~/~/Hz/A)</td>
<td>100 - 250/1/50-60/15-10</td>
</tr>
<tr>
<td>Underpressure (Pa)</td>
<td>1500 - 5500</td>
</tr>
<tr>
<td>Air flow rate (m³/h)</td>
<td>30 - 115</td>
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<tr>
<td>Speed (rpm)</td>
<td>18</td>
</tr>
<tr>
<td>Weight incl. power pack (kg)</td>
<td>20</td>
</tr>
<tr>
<td>Protection class (IP)</td>
<td>54</td>
</tr>
<tr>
<td>Dimensions LxBxH (mm)</td>
<td>503 x 370 x 380</td>
</tr>
</tbody>
</table>

The basic functions
Alone the standard equipment of ALPINE’s Air Jet Sieve e200 LS sets standards:
• The software can be upgraded to a higher version at any time
• Innovative and high-resolution 6.4” TFT touch screen
• Intuitive operation thanks to the easily understandable menu structure
• Operating comfort with individual language selection
• Fully automatic identification of the test sieve mesh widths*
• Easily comprehensible information regarding system data and settings
• Direct connection of a laboratory balance via interface
• USB, Ethernet and RS232C data interfaces are standard
• Integrated 1-GB analysis protocol memory
• Ergonomic industrial design
• plus many more features.....

*Only in combination with original ø-203-mm ALPINE test sieves

ALPINE Air Jet Sieve® e200 LS
NEW incl. vacuum cleaner

incl. Multi PSU power pack
incl. class-L vacuum cleaner
incl. sieve adapter eLS
incl. slotted nozzle
incl. Plexiglas cover
incl. suction filter
incl. hammer, brush,
“EU” power connection cable
and “RS485” power connections
incl. operating manual

eControl Basic
eControl Basic is the first choice in production or for quick individual analyses.
No. 397475

eControl Professional
eControl Professional is indispensable for everyday routine tasks in the laboratory.
No. 397476

eControl Ultimate
eControl Ultimate offers maximum operating comfort and analysis reliability.
No. 397477

The AIR JET SIEVE. An ALPINE invention. For more than 50 years now, our technology has counted as THE standard in the field of particle size analysis.

And to make sure that this remains so in the future, we make continual improvements to our air jet sieve. The result: ALPINE’s Air Jet Sieve e200 LS. What lies behind the ergonomic design is a combination of faster and simpler operating comfort with a much higher analysis reliability. The innovative accessories are complemented by the three software packages available: eControl Basic, Professional and Ultimate. They cover the entire range of modern particle analysis. And in doing so, fulfil your high requirements.
ALPINE Air Jet Sieve® e200 LS
Three software packages, one aim: highest possible efficiency as a result of the demand-oriented range of functions.

Whether standardised analysis methods or individualised management and configuration of data, options and many other parameters — the three software packages for the ALPINE Air Jet Sieve e200 LS are tailored to cover all analysis demands perfectly.

Even if you decide on the basic software package: our special software upgrades allow you to extend the range of functions at any time.

ALPINE Air Jet Sieve® e200 LS eControl Basic
No. 397475
Your perfect start in the world of air jet sieving. The software and range of functions can be upgraded at any time to eControl Professional or eControl Ultimate (at an extra charge)

• includes all basic functions
• intuitive in operation
• fast-track analysis evaluations can be stored in table form
• manual underpressure preselection
• laboratory balance interface with Sartorius TE series
• results are evaluated against the setpoint value specifications (in table form)
• plus many more features.....

Graphical evaluation plotted in a cumulative curve

Representation of residual fines concentration and relevant information

Intuitive menu guidance makes for easy and reliable operation

ALPINE Air Jet Sieve® e200 LS eControl Professional
No. 397476
This is the all-rounder for both simple and demanding sieving analyses. Extended application range with many additional functions. Can be upgraded to eControl Ultimate at any time (at an extra charge).

• includes all basic functions
• includes the full function range of eControl Basic
• automatic underpressure control with allocation of underpressure and sieving time
• sieve identification for each test sieve for underpressure and sieving time
• laboratory balance communication via RS 232 interface
• export and print function of analysis reports
• LIMS-capable software link
• sieve set management
• plus many more features.....

The ALPINE Air Jet Sieve e200 LS with Ethernet connection for printer, remote control and network

ALPINE Air Jet Sieve® e200 LS eControl Ultimate
No. 397477
The last word in air jet sieving. Maximum operating reliability and highest operating comfort under observance of different regulations — especially those of the pharmaceuticals industry.

• includes all basic functions
• includes the full range of functions of eControl Basic and Professional
• interface for communication with special laboratory balances (USB/LAN)
• the results are evaluated against the setpoint value specifications (in table and graph form)
• individual assignment of underpressure and sieving time parameters per test sieve using RFID technology
• intelligent determination of the sieving time using eTimeSave (coming soon)
• Ethernet connection for printer, remote control and network
• print-out of analysis protocols (PDF / hard copy) with individual company logo
• user administration with password management and event logging
• 21 CFR Part 11 conform incl. Electronic Records and Audit Trail
• plus many more features.....
### e200 LS eControl Software Upgrades

<table>
<thead>
<tr>
<th>Upgrade</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upgrade from Basic to Professional</td>
<td>404317</td>
</tr>
<tr>
<td>Upgrade from Professional to Ultimate</td>
<td>404318</td>
</tr>
<tr>
<td>Upgrade from Basic to Ultimate</td>
<td>404319</td>
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</table>

#### Optional Accessories with additional charge

<table>
<thead>
<tr>
<th>Feature</th>
<th>Order no.</th>
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</thead>
<tbody>
<tr>
<td>High-performance industrial vacuum cleaner type L - 150/36 50/60 Hz</td>
<td>397477</td>
</tr>
<tr>
<td>High-performance industrial vacuum cleaner type M - 230 V</td>
<td>397476</td>
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</tbody>
</table>

#### Accessories

<table>
<thead>
<tr>
<th>Feature</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALPINE small filter, dust class L, type 155/L</td>
<td>336379</td>
</tr>
<tr>
<td>ALPINE small filter, dust class M, type 150/M</td>
<td>360753</td>
</tr>
<tr>
<td>ALPINE high-performance filter type 120</td>
<td>416899</td>
</tr>
<tr>
<td>Container volume 30 litres</td>
<td></td>
</tr>
<tr>
<td>Washable PET fleece filters reduce maintenance costs</td>
<td></td>
</tr>
<tr>
<td>Unique range of services to guarantee ongoing analysis quality for many years to come.</td>
<td></td>
</tr>
</tbody>
</table>

### 1. Accessories • 2. Dust extraction: vacuum cleaners

#### 2.1 Dust extraction: vacuum cleaners

**Sturdy and highly efficient vacuum cleaner for the reliable generation and cleaning of the working air**
- Dust class L (max. permeability 1% as defined in EN 60335-2-69)
- Washable PET fleece filters reduce maintenance costs
- Container volume 30 litres
- Hold for ALPINE Multi-PSU power pack

<table>
<thead>
<tr>
<th>Technical specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Pmax (W)</td>
<td>1500</td>
</tr>
<tr>
<td>Output Pic (W)</td>
<td>1200</td>
</tr>
<tr>
<td>Mains connection (V~/~/Hz/A)</td>
<td>230~/1~/50-60/16</td>
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<tr>
<td>Air flow rate (l/min)</td>
<td>3700</td>
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<tr>
<td>Underpressure (mbar/kPa)</td>
<td>2500S</td>
</tr>
<tr>
<td>Noise level (dB(A))</td>
<td>59</td>
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<tr>
<td>Max. container volume (l)</td>
<td>30</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>10</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>450 x 380 x 595 (L x W x H)</td>
</tr>
</tbody>
</table>

#### Delivery scope of high-performance industrial vacuum cleaner L

- 1x antistatic suction hose DN 32 x 2000 mm (Ø x L) 445850
- 1x power cable with plug for ALPINE Air Jet Sieve® e200 LS | 404674
- 1x filter bag for vacuum cleaner | 416899

#### High-performance industrial vacuum cleaner, type L

<table>
<thead>
<tr>
<th>No.</th>
<th>397/358</th>
</tr>
</thead>
<tbody>
<tr>
<td>e200 LS! Upgrade possible at any time for an additional charge.</td>
<td></td>
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</tbody>
</table>

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**Note:** This vacuum cleaner is included in the delivery scope of ALPINE’s Air Jet Sieve® e200 LS Upgrade possible at any time for an additional charge.
High-performance industrial vacuum cleaner type L – 120 V
No. 397362
Sturdy and highly efficient vacuum cleaner for the reliable generation and cleaning of the working air
• Dust class L (max. permeability 1% as defined in EN 60335-2-69)
• Washable PET fleece filters reduce maintenance costs
• Container volume 30 litres
• Holder for ALPINE Multi PSU power pack

Technical specifications
Output Pmax (W) 1000
Mains connection (V/~Hz/A) 120/1/60/15
Air flow rate (l/min.) 3700
Underpressure (mbar/kPa) 250/25
Noise level (dB(A)) 59
Max. container volume (l) 30
Weight (kg) 10
Dimensions 450 x 380 x 595 mm (L x W x H)

Delivery scope of high-performance industrial vacuum cleaner L
• incl. antistatic suction hose DN 32 x 2000 mm (ø x L)
• incl. connection cable 2.5 m with special plug
• incl. 1x dust bag
• incl. 1x filter element

Note: Other 120-V vacuum cleaners for ALPINE’s Air Jet Sieve e200 LS available upon request!

High-performance industrial vacuum cleaner type H
No. 397360
Protective filter system for toxic dusts
• Dust class H (max. permeability 0.005% as defined in EN 60335-2-69)
• Approved for operation with toxic dusts of class H
• Container volume 30 litres
• Holder for ALPINE Multi PSU power pack

Technical specifications
Output Pmax (W) 1500
Output Piec (W) 1200
Mains connection (V/~Hz/A) 230/1/50-60/16
Air flow rate (l/min.) 3700
Underpressure (mbar/kPa) 250/25
Noise level (dB(A)) 59
Max. container volume (l) 30
Weight (kg) 10
Dimensions 450 x 380 x 595 mm (L x W x H)

Delivery scope of high-performance industrial vacuum cleaner H
• incl. antistatic suction hose DN 32 x 2000 mm (ø x L)
• incl. connection cable 2.5 m with special plug
• incl. 1x safety dust bag
• incl. 1x H-class filter element

Note: Certified H-class filter with collection efficiency certificate.

2.1 Dust extraction: vacuum cleaners

2.2 Dust collection: small filters and high-performance cyclones

ALPINE small filter, dust class L, type 150/36
No. 336197
For active dedusting of the process air
• Dust class L
• Star filter with 1.3 m² filter surface
• Mechanical filter cleaning
• Capacity approx. 25 litres

Dimensions 360 x 630 mm (ø x H)

Delivery scope ALPINE small filter, dust class L, type 150/36
• incl. antistatic suction hose DN 32 x 2000 mm (ø x L)

ALPINE high-performance cyclone GAZ 120
No. 408808
Permits reliable and clean recovery of the fines
• Almost complete recovery of the fines
• No contamination caused, e.g. by filter lint
• Suitable for material quantities up to 1 litre
• Stainless steel design, can be dismantled and washed

Dimensions 275 x 155 x 770 mm (L x B x H)

Delivery scope ALPINE high-performance cyclone GAZ 120
• incl. stand
• incl. 1-litre screw-cap jar
• incl. electrically conductive wire spiral hose, abrasion-proof, largely smooth on inside, DN 32 x 2000 mm (ø x L)

ALPINE small filter, dust class M, type 150/36
No. 360753
For reliable avoidance of fine dust
• Dust class M
• GORE-TEX® star filter with 1.3 m² filter surface
• Mechanical filter cleaning
• Capacity approx. 25 litres

Dimensions 360 x 630 mm (ø x H)

Delivery scope ALPINE small filter, dust class M, type 150/36
• incl. antistatic suction hose DN 32 x 2000 mm (ø x L)
2.3 Peripheral units: laboratory balances

**Sartorius TE 802 laboratory balance**

No.: 3080/73

Compatible high-precision laboratory balance to 820 g in a high quality aluminium cast housing

- Max. capacity: 820 g
- Reading resolution: 0.01 g
- High-performance MonoBloc weighing cell
- Adjust your balance with just one Keystroke

Connection: 230 V, 50/60 Hz
Dimensions: 290 x 184 x 84 mm (L x W x H)
Delivery scope: Sartorius TE 802 laboratory balance
- incl. 1 special serial data cable
- incl. sample dish ø 130 mm

**Laser Printer Brother HL-2150N**

Nr.: 4035087

Compatible Laser Printer with network connectivity built-in as standard

- 10/100 BaseTX PrintServer
- Paper capacity up to 250 sheets
- Plug & Play connection to e200 LS

Connection: 230 V, 50/60 Hz
Dimensions: 361 x 368 x 170 mm (L x W x H)
Delivery scope: Laser Printer Brother HL-2150N
- incl. 1 data cable LAN
- incl. 1 toner cartridge TN-2110

2.4 Sieving: test sieves and sieving aids

**ALPINE test sieves ø 203 mm**

Certificate of Conformity 2.1

*No.: see table*

**DIN ISO 3310 ø 203 mm**

**ASTM E 11 ø 203 mm**

<table>
<thead>
<tr>
<th>Mesh width</th>
<th>No.</th>
<th>Mesh width m</th>
<th>No.</th>
</tr>
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<td>25 µm</td>
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<tr>
<td>36 µm</td>
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<td>56 µm</td>
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<td>71 µm</td>
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<tr>
<td>4000 µm</td>
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</tr>
</tbody>
</table>

**Inspection certificate 3.1 for ALPINE test sieves**

*No.: see table*

**Sieve mesh width**

- inspected as defined in DIN EN 10204

**Standards**

DIN ISO 3310, BS 410, ASTM E 11

**Dimensions:** ø 203 mm

Special feature: RFID technology saves having to manually input the sieve mesh width and prevents sieve insert errors

Inspection certificate 3.1 on request.

**Delivery scope:** individual test certificate 3.1 as per DIN EN 10204

- incl. computer screen analysis
- incl. record of results (tabular and graph form)
2.5 Sieve holder: adapters & covers

Universal sieve
Whether Alpine’s previous model of test sieve or another make entirely: with the different sieve adapters, all test sieves currently on the market can be used in ALPINE’s air jet sieve e200 LS. Handling is simple, fast and cost-effective.

Adapter for test sieves ø 200 mm “ALPINE A200 LS” and “Haver & Boecker”
No. 396537
Permits the use of existing Alpine sieves and sieves of a different make
- Significant cost savings as opposed to buying new sieves
- Available for sieves of all ALPINE air jet sieve forerunner models (A200 LS)
- For ø 200 mm sieves made by Haver & Boecker

Adapter for test sieves ø 200 mm “Retsch”
No. 396532

Adapter for test sieves ø 203 mm / 8” “W.S. Tyler”
No. 398251

Adapter for test sieves ø 203 mm / 8” “Haver & Boecker”
No. 398292

Flexiglas cover, type 200 for “A200LS test sieves”
No. 009883
Suitable for test sieves of the A200 LS generation

2.6 Sieve handling: storage & cleaning

ALPINE sieve holder, type 203 SH
No. 354369
Secure and space-saving storage of your valuable test sieves
- for up to 5 test sieves
- optimum storage
- space-saving design
- clear arrangement of sieve sizes
- simple assembly
Dimensions: 300 x 253 x 167 mm (L x W x H)
Note: suitable for old and new sieve generations up to ø 203 mm x 45 mm in width!

Ultrasonic cleaning unit, type TS 540
No. 016319
Professional test sieve cleaning
- tried-and-tested ultrasonic system
- reliable cleaning
- simple handling

Technical specifications
Ultrasound frequency (kHz) 35
Power consumption (W) 160
HF peak power (W) 320
Mains connection (V/~/Hz/A) 230/1/50-60/16
Tank inside dimensions D / H (mm) 280 x 300 x 285 mm (L x W x H)
Max. capacity (litres) 6.4
Weight (kg) 4.4
Material (tank) stainless steel
Material (housing) stainless steel
Liquid run-off 3/8”
Protection class IP 20
Dimensions: 340 x 568 x 321 mm (L x W x H)
Delivery scope: ultrasonic cleaning unit type S 300 H
- incl. “EU” connection cable
- incl. operating manual

Stainless steel basket for TS 540
No. 370512
Inside dimensions ø 215 mm
Material: stainless steel
Note: special accessory to permit cleaning small components such as the e200 LS nozzle.

Cover for TS 540
No. 370510

Cleaning concentrate RW 77
No. 011893
Reliably removes all kinds of contaminants, regardless of whether slight or stubborn
- Reliable removal of resin, carbon black, grease, oil, wax, pigments, paint bloom, silicon oil, flux powder, oxides and non-ferrous heavy metals
- Ideal for metal, glass, ceramic, plastic, rubber, etc.
Contents: 5 litres

Stainless steel basket for S 300 H
No. 395226
Inside dimensions 455 x 250 mm
Material stainless steel
Note: special accessory to permit cleaning small components such as the e200 LS nozzle.

Cover for S 300 H
No. 395228

Ultrasonic cleaning unit, type S 300 H
No. 253339
Professional cleaning of up to 5 test sieves
- tried-and-tested ultrasonic system
- simple handling
- LED indication of set time and remaining time
- temperature-controlled cleaning process of up to 5 test sieves

Technical specifications
Ultrasound frequency (kHz) 37
Total power consumption (W) 1500
Effective ultrasound output (W) 150
Max. ultrasound peak power (W) 1200
Heating power (W) 1200
Mains connection (V/~/Hz/A) 230/1/50-60/16
Tank inside dimensions L x B x H (mm) 300 x 505 x 200
Max. capacity (litres) 28
Weight (kg) 11.0
Material (tank) stainless steel
Material (housing) stainless steel
Liquid run-off 3/8”
Protection class IP 20
Dimensions: 300 x 568 x 321 mm (L x W x H)
Delivery scope: ultrasonic cleaning unit type S 300 H
- incl. “EU” connection cable
- incl. operating manual
Air Jet Sieve® e200 LS spare parts & supplies

The ALPINE Air Jet Sieve is irreplaceable. But not its spare parts and supplies.

Order any especially stressed components and disposables at the same time you order your air jet sieve! Whether filter elements, cables, hoses or test sieves — we offer you a wide range of products to ensure the long-term reliability and cost-effective application of your ALPINE air jet sieve.

3.1 Machine

Plexiglas cover type 203
No. 340463
Specially coated for quick cleaning after analysis

Suction filter type 120
No. 394193
Effective noise reduction and process air cleaning

Adapter for ø 203 mm test sieve series
No. 236530
Easy and quick accommodation of all test sieves

Hammer
No. 009932
For tapping off any deposits from the Plexiglas cover

Brush
No. 328110
Natural bristle brush for cleaning test sieve and cover

Multi-PSU power pack
No. 39/421
Wide-voltage-range power pack from 100 – 250 V 50/60 Hz

Power connection RS485
No. 402615
Connects the Multi-PSU power pack with the e200 LS

“EU” power cable
No. 212301

“USA” power cable
No. 220741

“UK” power cable
No. 404874

“CH” power cable
No. 226173

3.2 Vacuum cleaners

Spare fleece filter bag, dust class L
No. 380059
5 to a package, standard design

Spare safety filter bag, dust class H
No. 387015
5 to a package, multi-layer design

Cloth filter for vacuum cleaner L
No. 324476
For the reliable filtering of difficult dust
• for extremely fine, hygroscopic or adhesive dust
• especially suitable for cement powder
• polymer-coated needle felt
Note: substitute for fleece filter bag, dust class L No. 380059

Spare filter element, dust class L
No. 314852
PET fleece, washable

Spare filter element, dust class H
No. 314852
Paper/glass fibre

Spare hose for dust classes L and H
No. 311929
incl. sleeve, antistatic, DN 32 x 2000 mm (ø x L)

3.3 Dust collection

Spare star filter 1.3 m² dust class L
No. 345988
for small filter 150/36

Spare star filter 1.3 m² GORE-TEX®
dust class M for small filter 150/36
No. 345987

Spare hose for small filter 150/36
dust classes L and M
No. 345767
incl. sleeve, antistatic, DN 32 x 2000 mm (ø x L)

Screw-cap jar for high-performance cyclone
GAZ 120
No. 009968
incl. screw cap

Spare wire spiral hose for high-performance cyclone
GAZ 120
No. 007087
electrically conductive, abrasion-proof, largely smooth on inside DN 32 x 2000 mm (ø x L)

3.4 Laboratory balances

Spare cable for Sartorius TE 802
No. 226033

Spare cable for Mettler Toledo ML802
No. 251850

Spare sample pan ø 130 mm
No. 279119
Hosokawa Alpine is a member of the Hosokawa Micron Group, a high-performance manufacturer of systems for powder and particle processing, systems for the confectionery industry as well as plastics processing machines and systems. The group is known and reputed the world over for its power of innovation, constant product care and market-oriented R&D. The most important group resources are R&D, engineering and manufacturing as well as customer service in all global markets.

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