



ALPINE AIR JET SIEVE e200 LS

Smart operation – perfect results.

Product catalogue 2015 / 16



HOSOKAWA ALPINE

Process technologies for tomorrow.

A NEW MILESTONE IN AIR JET SIEVING

Intuitive user guidance and powerful hardware for reliable results

As the inventor and worldwide market leader of air jet sieving, HOSOKAWA ALPINE has been setting new standards for over 60 years. The ALPINE air jet sieves have always been characterised by simple operation and reliable results. The new control panel – which not only increases the efficiency but also makes the whole process faster – is just another link in this chain of success. Whether intuitive user guidance, search functions or password-protected settings – the new e200 LS lets you always stay in complete control.

FUNCTION

Because extremely fine particles have a tendency to agglomerate and therefore often clog up the sieve, the air jet sieve is the device of choice for

sieving fine powders. As a result of the air jet principle, the e200 LS offers maximum effectiveness with such materials. The reason for this effectiveness bases on two components: a slotted nozzle which rotates in the sieving chamber and an industrial vacuum cleaner connected up to the sieving chamber. As soon as the vacuum cleaner is switched on, it generates a vacuum inside the sieving chamber. The extremely narrow slot of the slotted nozzle ensures that the incoming air is accelerated and flows against the sieve fabric at high speed from below.

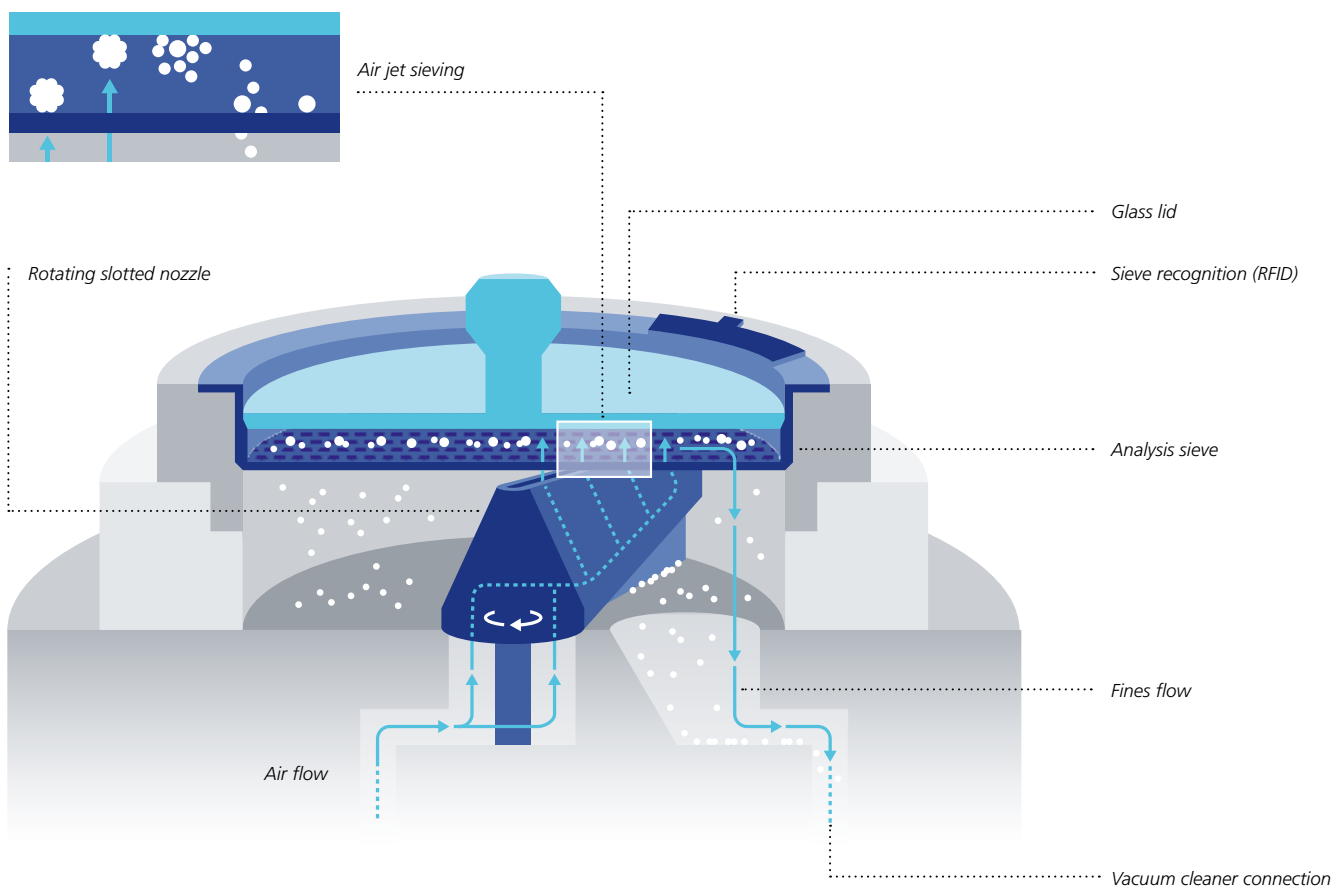
The particles on the sieve fabric are dispersed briefly by the air jet before they are drawn downwards through the sieve apertures by the suction of the vacuum cleaner. The coarse

material remains on the sieve and is re-weighed at the end of the sieving process. The automatic underpressure controller as well as specification of the sieving-relevant parameters guarantee reproducible results.

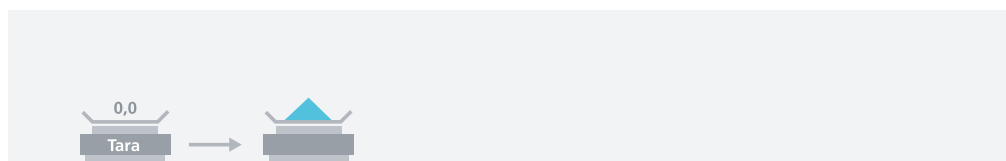
Separation, fractionation and particle size analysis of powders in different sectors:

- Minerals
- Production of chemicals
- Pharmaceuticals – in compliance with 21 CFR Part 11
- Toner production
- Food and nutrition industry
- Cement applications

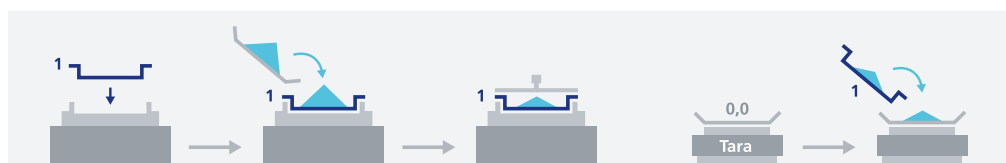




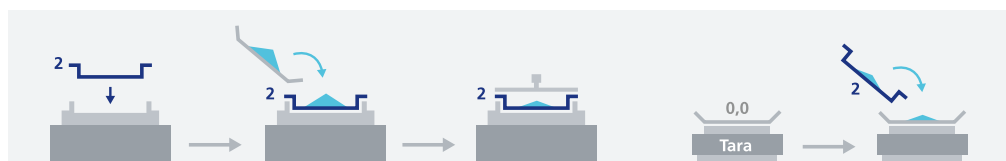
► Batch weight



► Test sieve 1



► Test sieve 2



Sieving process

INNOVATIVE HARDWARE AND SMART SOFTWARE

Optimally matched to each other, components such as the innovative, high-resolution touch screen, the high-performance dual-core processor as well as the interfaces ensure maximum connectivity and make the air jet sieve state of the art.

■ *Forerunner model* ■ **e200 LS**



➤ INTUITIVE USER GUIDANCE

Modern visualisation for fast and precise operation



➤ SECURE RESULTS MANAGEMENT

Analysis and data reports with archiving and search functions as well as automatic back-up



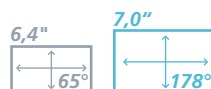
➤ INDIVIDUAL APPLICATIONS

Password-protected settings, individualised display accuracy, migration of old data in XML format



➤ GLARE-FREE PANEL

Readable even in challenging light conditions and from just about any angle



➤ FAST PROCESSOR

ARM Cortex-A9 dual-core CPU with 2 GHz, 4-GB flash and 4-GB SD card memory



➤ IDEAL CONNECTIONS

Ethernet, RS-232 and 3 x USB 2.0, for example for a barcode scanner, keyboard and mouse



➤ SMART TOUCH SCREEN

Touch screen with robust 3-mm-thick safety glass



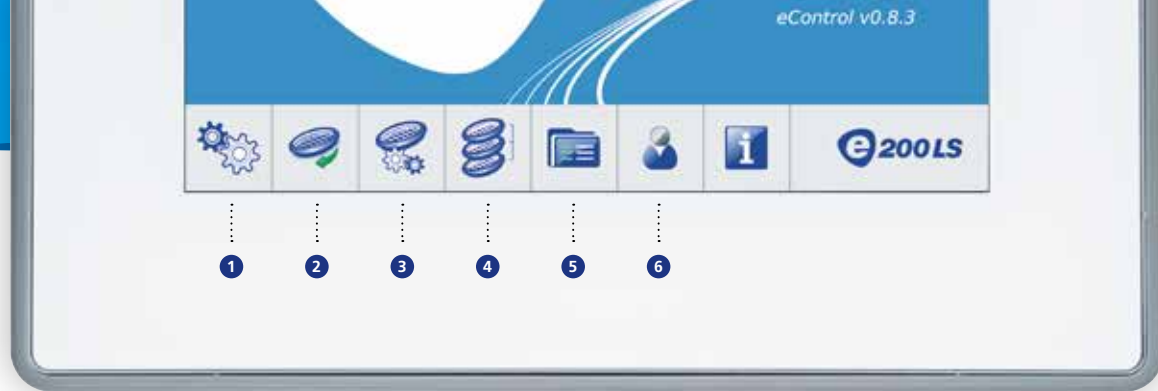
TECHNICAL SPECIFICATIONS

Measuring range (at ø200/203 mm)	20 µm to 4 mm
(at ø76 mm)	10 µm to 2.5 mm
Navigation	High-resolution capacitive 7" IPS multi touch screen
Power supply cable (m)	3.0
Mains connection (V~/Hz/A)	100-250/1/50-60/15-10
Underpressure (Pa)	1500-5500
Air flow rate (m³/h)	30-115
Speed (min⁻¹)	18
Weight incl. power pack (kg)	20
Protection class (IP)	54
Dimensions LxWxH (mm)	503x370x380

DELIVERY SCOPE

- Basic device
- Vacuum cleaner class L
- Acrylic glass lid
- Operating manual
- Tapper, brush





1 SETTINGS

System information, date/time, network, laboratory balances, sieving, numerical formats, units of measurement, etc.

2 SIEVING

Manual sieving, sieving using SOPs

3 TEST SIEVE MANAGEMENT

Individual assignment of underpressure and sieving time parameters, etc.

4 SOP MANAGEMENT

Standard Operation Procedures (SOPs) for the generation and management of sieving processes

5 ARCHIVE

Retrieval and evaluation of the stored sieving processes

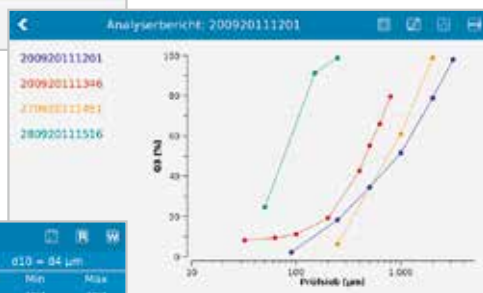
6 USER ADMINISTRATION

Generation and management of users with 5 different authorisation levels

Manual sieving

Weight:	50.00 g	✓
Sieve:	40 µm	✓
Duration:	01:00 min 00:18 min	
Pressure:	1500 Pa 1480 Pa	

Hold



Sieving Record: 92681_5 (Min/Max)

Sieve (µm)	Underpass (%)	Pressure (Pa)	Time (min)	Set value (%)	Min (%)	Max (%)
50	4.66	0	00:00	5.00	20.00	20.00
100	12.92	0	00:00	14.40	0.69	11.11
200	29.82	0	00:00	30.00	6.67	6.67
315	47.76	0	00:00	49.00	2.04	4.08
500	81.30	0	00:00	80.00	3.75	3.75
800	99.98	0	00:01	100.00	2.00	0.44

FOUR HIGH-PERFORMANCE SOFTWARE PACKAGES

BASIC

eControl

- Fast results evaluation (in table form)
- Manual underpressure selection – Sieving lite
- Selection between 10 different languages

PROFES-SIONAL

eControl

- Autom. underpressure control with assignment of underpressure and sieving time
- Units of measurement can be altered (weight, length, underpressure)
- Laboratory balance communication via RS-232 interface
- Sieve set management SOPs

ULTIMATE

eControl

- Results evaluation against set point specifications (in table and graph form)
- Automated back-up
- Graphic evaluation (RRSB, histogram)
- Data export as XML or PDF
- Audio function
- Individual display accuracy adjustable

SECURITY

eControl

- Requirements for software validation according to ISPE GAMP 5, FDA 21 CFR Part 11, EC GMP Annex 11 conform
- User administration
- Password management
- Audit trail - monitoring of user activities and event logging

BASIC

PROFES-
SIONAL

ULTIMATE

SECURITY

BASIC FUNCTIONS	Basic	Professional	Ultimate	Security
User administration with authorisation levels (Level 1 – 5)	2 levels	2 levels	2 levels	up to 5 levels
System data display / device settings	•	•	•	•
10 languages (CZ, DE, US, ES, FR, JP, BR, RU, TR, CN)	•	•	•	•
Alter units of measurement (weight, length, underpressure)	–	•	•	•
Change display accuracy (weight, ratio)	–	•	•	•
Audio (acoustic signal for keyboard feedback)	–	–	•	•
USB keyboard, mouse, bar code scanner	•	•	•	•
Ethernet connection	–	•	•	•
Printer via USB or LAN	–	•	•	•
Screenshot function	–	•	•	•
LABORATORY BALANCES	Basic	Professional	Ultimate	Security
Standard balance connection (Sartorius/Mettler)	•	•	•	•
Balance driver list extendable by update	•	•	•	•
Transmit weight from lab. balance (request event)	–	–	•	•
Balance values can be adjusted with preceding signs	–	–	•	•
TEST SIEVES	Basic	Professional	Ultimate	Security
Test sieve management	•	•	•	•
Test sieve recognition via RFID tag	–	•	•	•
Mesh width unit selectable (µm, mm, ASTM)	–	•	•	•
Parametrisation of underpr. and sieving time per test sieve	•	•	•	•
Test sieve cleaning	•	•	•	•
SIEVING	Basic	Professional	Ultimate	Security
Sieving	manual	manual, SOP	manual, SOP	manual, SOP
Tolerance limit adj. for sieving (relative/absolute value)	Only in %	Only in %	•	•
Automatic underpressure control	central for all sieves	•	•	•
Sieving Lite app	•	•	•	•
SOP	Basic	Professional	Ultimate	Security
Sieve set management (SOPs)	–	•	•	•
Import sieve set	–	•	•	•
Export sieving analysis	–	XML	XML	XML
ARCHIVE MANAGEMENT	Basic	Professional	Ultimate	Security
Output sieving analysis	Screen	Screen, printer, PDF	Screen, printer, PDF	Screen, printer, PDF
External document archive (USB or LAN)	–	•	•	•
EVALUATION	Basic	Professional	Ultimate	Security
Tabular format	•	•	•	•
Graph: cumulative curve	–	•	•	•
Graph: (RRSB, histogram)	–	–	•	•
Calculation d10 / d50 / d90	–	•	•	•
Calculation of 3 individual dx values	–	–	•	•
Compare sieving analyses (<=5) in graph	–	•	•	•
Results evaluation against set point specifications (table)	2 test sieves	•	•	•
Results evaluation against set point specifications (graph)	–	–	•	•
IMPORT / EXPORT / PRINT	Basic	Professional	Ultimate	Security
Lab. information and management systems-capable (LIMS)	–	Manual XML / PDF	On / off for XML / PDF	On / off for XML / PDF
Autoprint (analysis report output to printer)	–	–	•	•
Print-out of analysis report	–	•	•	•
Data export XML / PDF	–	•	•	Only PDF
Summary/daily report can be generated	–	–	•	•
User list can be generated	–	–	–	•
UPDATE / BACKUP / RESTORE	Basic	Professional	Ultimate	Security
Backup	manual	manual	manual / autom.	manual / autom.
Restore	•	•	•	•
Update / upgrade of software, firmware, OS	•	•	•	•
Migration of XML and CSV old data from previous model	–	•	•	•
Audit trail (21 CFR Part 11) incl. electronic signature	–	–	–	•

ACCESSORIES

Individualisation and maintenance with ALPINE's extensive range of accessories.

Adapt the possibilities of the ALPINE air jet sieve e200 LS exactly to your analysis needs and on-site conditions with useful accessories, operating supplies and spare parts designed to ensure

reliable operation as well as a unique range of services. All this to ensure that you can depend on the reliable and constantly high measurement accuracy for years to come.

DUST EXTRACTION: VACUUM CLEANER

HIGH-PERFORMANCE INDUSTRIAL VACUUM CLEANER TYPE L

no. 397358 – included in delivery scope

ROBUST AND HIGH-EFFICIENCY DEVICE FOR THE RELIABLE GENERATION OF WORKING AIR

- Dust class L (max. permeability 1% as defined in EN 60335-2-69)
- Washable PET fleece filters reduce the maintenance costs
- 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 LxWxH (mm)	450 x 380 x 595

DELIVERY SCOPE

- Antistatic suction hose DN 32 x 2000 mm (ø x L)
- Connection cable 2.5 m with special connector
- 1 dust bag
- 1 filter element

ADDITIONAL INFORMATION

Upgrade possible at any time for an additional charge. The vacuum cleaner is not suitable for continuous operation. To this end, we recommend ordering our side-channel compressor (order no. 424344).

120-V vacuum cleaner for ALPINE's e200 LS air jet sieve available on request!



➤ High-performance industrial vacuum cleaner type L

DUST EXTRACTION: VACUUM CLEANER

HIGH-PERFORMANCE INDUSTRIAL SAFETY 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 class-H toxic dusts
- 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 LxWxH (mm)	450 x 380 x 595

DELIVERY SCOPE

- Antistatic suction hose DN 32 x 2000 mm (ø x L)
- Connection cable 2.5 m with special connector
- 1 safety dust bag
- 1 H-class filter element

ADDITIONAL INFORMATION

Certified H-class filter with collection efficiency certificate.



➤ High-performance industrial safety vacuum cleaner type H

SIDE-CHANNEL COMPRESSOR WITH FREQUENCY CONVERTER

no. 424344

SUITABLE FOR CONTINUOUS OPERATION AS WELL AS BEING A RELIABLE ALTERNATIVE FOR PROCESSING LARGE QUANTITIES OF PRODUCT.

- Reliable and durable, practically maintenance-free
- Highly robust at low weight
- Completely configured for simple connection to the e200 LS

TECHNICAL SPECIFICATIONS

Mains connection (V/~ /Hz/A)	400/2/86/5.5
Weight (kg)	22
Noise level (dB(A))	74
Dimensions LxWxH (mm)	324 x 285 x 401

DELIVERY SCOPE

- Suction hose DN 32 x 2000 mm
- Control box (CBX)
- Integrated frequency converter

ADDITIONAL INFORMATION

Operation without a filter is not permitted!

We recommend ordering our small filter type 150/36 at the same time.



➤ Side-channel compressor with frequency converter

DUST COLLECTION: SMALL FILTER AND HIGH-PERFORMANCE CYCLONE

ALPINE SMALL FILTER, DUST CLASS L, TYPE 150/36

no. 336197

FOR ACTIVE DEDUSTING OF THE PROCESS AIR

- Star filter with 1.3 m² filter surface
- Mechanical filter cleaning
- Capacity approx. 25 litres

TECHNICAL SPECIFICATIONS

Dimensions Ø x H (mm) | 360 x 630

DELIVERY SCOPE

- Antistatic suction hose DN 32 x 2000 mm (Ø x L)

ALPINE SMALL FILTER, DUST CLASS M, TYPE 150/36

no. 360753

SPECIFICATIONS AS FOR ARTICLE NO. 336197

- PTFE star filter with 0.7 m² filter surface for sticky, ultrafine powders

ALPINE SMALL FILTER, DUST CLASS H, TYPE 150/36

no. 429592

SPECIFICATIONS AS FOR ARTICLE NO. 336197

- PTFE star filter with 0.7 m² filter surface for sticky, ultrafine powders
- HEPA H14 air filter
- Without automatic filter cleaning



➤ ALPINE small filter
Dust class L type 150/36

ALPINE HIGH-PERFORMANCE CYCLONE GAZ 120

no. 408808

PERMITS RELIABLE AND CLEAN RECOVERY OF THE FINES

- Almost complete recovery of the material batch
- No contamination caused, e.g. by filter lint
- Suitable for material quantities up to 1 litre
- Stainless steel design, can be dismantled and washed

TECHNICAL SPECIFICATIONS

Dimensions LxWxH (mm) | 275 x 155 x 770

DELIVERY SCOPE

- Stand
- 1-litre screw-cap jar
- Electrically conductive wire spiral hose, abrasion-proof, largely smooth on inside, DN 32 x 2000 mm (Ø x L)

20-L PRODUCT BIN FOR HIGH-PERFORMANCE CYCLONE GAZ 120

no. 294396

IDEAL FOR LARGE QUANTITIES

- Product bin with two drop handles, inspection glass and welded 2" TC socket
- Material: 1.4435 (except for clamping ring and base ring)
- Seal: white silicon

TECHNICAL SPECIFICATIONS

Dimensions Ø x H (mm) | 315 x 325

DELIVERY SCOPE

- 20-litre product bin
- Cover with clamping ring

- ALPINE high-performance cyclone GAZ 120



SIEVING: ANALYSIS SIEVES WITH STAINLESS STEEL FRAME

ALPINE TEST SIEVES

no.: see table

STAINLESS STEEL SIEVES FROM 20 µm TO

4000 µm WITH RFID CHIP ELIMINATE MIX-UPS

- Fully automatic sieve identification by means of RFID chip
- High-quality, stainless steel design

TECHNICAL SPECIFICATIONS

Sieve deck	Stainless steel
Sieve frame	Stainless steel
Standards	DIN ISO 3310, ASTM E11
Dimensions ø (mm)	203

DELIVERY SCOPE

- Transponder in plastic clip
- Certificate of conformity 2.1 as defined in DIN EN 10204

SPECIAL FEATURE

RFID technology saves having to manually input the sieve mesh width and prevents sieve insert errors! Inspection certificate 3.1 on request.

INDIVIDUAL INSPECTION CERTIFICATE 3.1 FOR ALPINE TEST SIEVES AS PER DIN EN 10204

no.: see table

DELIVERY SCOPE

- Computer screen analysis
- Record of results (in tabular and graphical form)

➤ Test sieve



ALPINE TEST SIEVES Ø 203 MM DIN ISO 3310			ALPINE TEST SIEVES Ø 203 MM ASTM E 11		
Mesh width	Certificate of conformity 2.1	Inspection certificate 3.1	Mesh width (No. #)	Certificate of conformity 2.1	Inspection certificate 3.1
20 µm	409067	409069	635	409276	409313
25 µm	409087	409154	500	409277	409314
32 µm	409088	409156	450	409278	409315
36 µm	409089	409157	—	—	—
38 µm	409092	409158	400	409279	409316
40 µm	409095	409159	—	—	—
45 µm	409096	409161	325	409281	409317
50 µm	409097	409163	—	—	—
53 µm	409098	409164	270	409282	409319
56 µm	409099	409165	—	—	—
63 µm	409101	409167	230	409283	409320
71 µm	409102	409169	—	—	—
75 µm	409103	409170	200	409284	409322
80 µm	409104	409173	—	—	—
90 µm	409105	409174	170	409285	409324
100 µm	409106	409175	—	—	—
106 µm	409108	409176	140	409286	409325
112 µm	409109	409177	—	—	—
125 µm	409110	409178	120	409288	409327
140 µm	409111	409179	—	—	—
150 µm	409112	409180	100	409289	409328
160 µm	409113	409181	—	—	—
180 µm	409114	409182	80	409290	409329
200 µm	409115	409183	—	—	—
212 µm	409116	409185	70	409366	409331
224 µm	409117	409186	—	—	—
250 µm	409118	409187	60	409292	409332
280 µm	409120	409188	—	—	—
300 µm	409121	409189	50	409294	409333
315 µm	409122	409190	—	—	—
355 µm	409125	409191	45	409295	409334
400 µm	409126	409192	—	—	—
425 µm	409127	409197	40	409296	409335
450 µm	409129	409198	—	—	—
500 µm	409131	409199	35	409297	409336
560 µm	409132	409200	—	—	—
600 µm	409133	409201	30	409298	409337
630 µm	409134	409202	—	—	—
710 µm	409135	409203	25	409299	409338
800 µm	409137	409204	—	—	—
850 µm	409138	409205	20	409301	409339
900 µm	409139	409206	—	—	—
1000 µm	409140	409207	18	409302	409341
1120 µm	409141	409208	—	—	—
1180 µm	409142	409209	16	409304	409342
1250 µm	409143	409210	—	—	—
1400 µm	409144	409212	14	409305	409343
1600 µm	409145	409213	—	—	—
1700 µm	409146	409214	12	409306	409344
1800 µm	409147	409215	—	—	—
2000 µm	409148	409216	10	409307	409346
2240 µm	410574	410579	—	—	—
2360 µm	410575	410580	8	409308	409347
2500 µm	409150	409217	—	—	—
2800 µm	410576	410581	7	409309	409348
3150 µm	409151	409218	—	—	—
3350 µm	410577	410582	6	409310	409349
3550 µm	410578	410583	—	—	—
4000 µm	409153	409219	5	409311	409350

SIEVING: SPECIAL SIEVES AND MICRO-SIEVING UNITS

MICRO-SIEVING UNIT Ø 76 MM FOR e200 LS

no. 424370

The micro-sieving unit is suitable for use of special sieves of 76 mm in diameter. Every e200 LS air jet sieve can be converted for operation with micro-precision sieves by means of this accessory.

TECHNICAL SPECIFICATIONS

Adapter material	Stainless steel
Nozzle material	Stainless steel
Lid material	PMMA

DELIVERY SCOPE

- Short slotted nozzle
- Adapter to accommodate ALPINE Ø 76 mm special sieves
- Acrylic glass lid Ø 76 mm

ADDITIONAL INFORMATION

Suitable for mini batches of feed material

SPECIAL SIEVES FOR e200 LS

no.: see table

TECHNICAL SPECIFICATIONS

Sieve deck	Stainless steel / electroformed sheet
Standards	DIN ISO 3310-1, -3
Dimensions Ø (mm)	76 (3")
Effective height (mm)	25

DELIVERY SCOPE

- Certificate of conformity 2.1 as defined in DIN EN 10204

ADDITIONAL INFORMATION

No sieve identification possible!

- Micro-sieving unit Ø 76 mm for e200 LS
- Special sieves for e200 LS



ALPINE SPECIAL SIEVES Ø 76 MM INCL. CERTIFICATE OF CONFORMITY 2.1

Mesh width	Stainless steel metal wire cloth as per DIN ISO 3310-1 76 x 25 mm	Electroformed sheet as per DIN ISO 3310-3 76 x 25 mm
10 µm	—	454118
15 µm	—	454119
20 µm	424397	454120
25 µm	424398	454121
32 µm	424399	—
36 µm	424401	—
38 µm	424402	—
40 µm	424403	—
45 µm	424404	—
50 µm	424405	—
53 µm	424406	—
56 µm	424407	—
63 µm	424408	—
71 µm	424409	—
75 µm	424410	—
80 µm	424411	—
90 µm	424412	—
100 µm	424413	—
106 µm	424414	—
112 µm	424415	—
125 µm	424416	—
140 µm	424417	—
150 µm	424418	—
160 µm	424419	—
180 µm	424420	—
200 µm	424421	—
212 µm	424422	—
224 µm	424427	—
250 µm	424428	—
280 µm	424429	—
300 µm	424430	—
315 µm	424431	—
355 µm	424432	—
400 µm	424433	—
425 µm	424434	—
450 µm	424435	—
500 µm	424436	—
560 µm	424437	—
600 µm	425384	—
630 µm	424438	—
710 µm	424439	—
800 µm	424440	—
850 µm	424441	—
900 µm	424442	—
1000 µm	424443	—
1120 µm	424444	—
1180 µm	424445	—
1250 µm	424446	—
1400 µm	424447	—
1600 µm	424448	—
1700 µm	424449	—
1800 µm	424450	—
2000 µm	424451	—
2240 µm	424452	—
2360 µm	424453	—
2500 µm	424454	—

SIEVE HOLDER: ADAPTERS & COVERS

UNIVERSAL SIEVE ADAPTER

Whether ALPINE's previous model of test sieve or another make entirely: with the different sieve adapters, many 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 A 200 LS« AND »HAVER & BOECKER«

no. 396531

PERMITS THE USE OF EXISTING ALPINE SIEVES AND SIEVES OF A DIFFERENT MAKE

- For Ø 200 mm sieves made by Haver & Boecker
- Significant cost savings as opposed to buying new sieves
- Available for sieves of all ALPINE air jet sieve forerunner models (A 200 LS)

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

ADAPTER FOR TEST SIEVES Ø 203 MM / 8" »RETSCH«

no. 398375

- Adapter for test sieves Ø 200 mm
»ALPINE A 200 LS« and »Haver & Boecker«



ACRYLIC GLASS LID, TYPE 200 FOR »A200 LS TEST SIEVES«

no. 009883

Suitable for test sieves of the A200 LS generation

ACRYLIC GLASS LID FOR TEST SIEVES 200 X 50 MM

no. 439683

Suitable for Haver & Boecker test sieves 50 mm high



➤ Plexiglas lid

PERIPHERAL UNITS: LABORATORY BALANCES

METTLER TOLEDO ME 1002T LABORATORY BALANCE

no. 414610

**HIGH-PRECISION LABORATORY BALANCE UP TO 1200 g
IN A HIGH-QUALITY ALUMINIUM CAST HOUSING**

- Max. capacity: 1,200 g
- Reading resolution: 0.01 g
- Force compensation measuring cell
- Internal adjustment at the touch of a button
- Operation via touch screen

TECHNICAL SPECIFICATIONS

Connection	230 V, 50/60 Hz
Dimensions LxWxH (mm)	319 x 200 x 100

DELIVERY SCOPE

- 1 special serial data cable
- Sample pan ø 130 mm

SARTORIUS PRACTUM® 1102-1S LABORATORY BALANCE

no. 308073

**COMPATIBLE HIGH-PRECISION LABORATORY BALANCE
TO 1,100 g WITH WEIGHING PAN SUITABLE FOR ALL TEST
SIEVES UP TO Ø 220 mm**

- Max. capacity: 1,100 g
- Reading resolution: 0.01 g
- Touch screen with Sartorius user interface

TECHNICAL SPECIFICATIONS

Connection	100-240 V, 50/60 Hz
Dimensions LxWxH (mm)	360 x 216 x 95

DELIVERY SCOPE

- 1 serial data cable
- Sample pan ø 130 mm

- Mettler Toledo laboratory balance ME 1002T



- Sartorius laboratory balance Practum® 1102-1S



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

TECHNICAL SPECIFICATIONS

Dimensions LxWxH (mm)	300 x 253 x 167
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ADDITIONAL INFORMATION

Suitable for old and new sieve generations up to Ø 203 mm x 45 mm in width!

➤ ALPINE sieve holder type 203 SH



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

Ultrasonic frequency (kHz)	37
Power consumption (W)	1500
Effective ultrasonic output (W)	300
Max. ultrasonic peak power (W)	1200
Heating power (W)	1200
Mains connection (V~/Hz/A)	230/1/50-60/16
Tank inside dims. L x W 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 LxWxH (mm)	340 x 568 x 321

DELIVERY SCOPE

- "EU" connection cable
- Operating manual

STAINLESS STEEL BASKET FOR S 300 H

no. 395226

TECHNICAL SPECIFICATIONS

Inside dimensions (mm)	455 x 250
Material	Stainless steel

ADDITIONAL INFORMATION

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 50 R

no. 429174

PROFESSIONAL CLEANING FOR ONE TEST SIEVE

- Tried-and-tested ultrasonic system
- Reliable cleaning
- Simple handling

TECHNICAL SPECIFICATIONS

Ultrasonic frequency (kHz)	37
Power consumption (W)	150
HF peak power (W)	600
Mains connection (V/~ /Hz/A)	230/1/50-60/16
Tank inside dimensions D / H (mm)	240 / 130
Max. capacity (litres)	5.3
Weight (kg)	5.0
Material (tank)	Stainless steel
Material (housing)	Stainless steel
Dimensions ø x H (mm)	260 x 350

DELIVERY SCOPE

- Operating manual

ADDITIONAL INFORMATION

Designed for the intensive cleaning of analysis and micro-precision sieves.

HOLDER FOR TEST SIEVE S 50 R

no. 437258

COVER FOR S 50 R

no. 429178

CLEANING CONCENTRATE TEC CLEAN A4

no. 441521

UNIVERSAL ALKALINE CLEANER

- Suitable for cleaning metals, glass, ceramics and plastic and rubber surfaces.
- Thoroughly removes oil, grease, carbon black and dust. Has a demulsifying effect on most mineral oils and greases.
- Contents: 2.5 litres

➤ Cleaning concentrate
Tec Clean A4



➤ Ultrasonic cleaning unit,
type S 50 R



➤ Ultrasonic cleaning unit,
type S 300 H



SPARE PARTS & SUPPLIES

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

It makes good sense to 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.

MACHINE

ACRYLIC GLASS LID TYPE 203

no. 340463

Specially coated to permit quick cleaning after analysis

SUCTION FILTER TYPE 120

no. 401477

Effective noise reduction and process air cleaning

ADAPTER FOR Ø 203 MM TEST SIEVE SERIES

no. 396530

Easy and quick accommodation of all test sieves

TAPPER

no. 009932

For tapping off any deposits from the Plexiglas lid

BRUSH

no. 328110

Natural bristle brush for cleaning test sieve and lid

MULTI-PSU POWER PACK

no. 397421

Wide-voltage-range power pack from 100 – 250 V 50/60 Hz

POWER CONNECTION RS-485

no. 402615

Connects the Multi-PSU power pack with the e200 LS

VACUUM CLEANER

SPARE FLEECE FILTER BAGS, DUST CLASS L

no. 380059

5 to a package, standard design

SPARE SAFETY FILTER BAGS, DUST CLASS H

no. 387015

5 to a package, standard design

SPARE FILTER ELEMENT, DUST CLASS L

no. 317304

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)

CLOTH FILTER FOR VACUUM CLEANER L

no. 324816

FOR THE RELIABLE FILTERING OF PROBLEMATIC DUST

- For extremely fine, hygroscopic or adhesive dust
- Especially suitable for cement powder
- Polymer-coated needle felt

ADDITIONAL INFORMATION

Substitute for the fleece filter bag, dust class L No. 380059

DUST COLLECTION

**SPARE STAR FILTER 1.3 M² DUST CLASS L
FOR SMALL FILTER 150/36**

no. 345988

**SPARE STAR FILTER 0.7 M² PTFE DUST CLASS M
FOR SMALL FILTER 150/36**

no. 443555

**SPARE HOSE FOR SMALL FILTER 150/36
DUST CLASSES L AND M**

no. 345747

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 wire spiral hose, abrasion-proof, largely smooth on inside

DN 32 x 2000 mm (ø x L)

LABORATORY BALANCES

DATA CABLE USB-RS232

no. 446526

SPARE CABLE FOR METTLER TOLEDO

no. 251850

SPARE SAMPLE PAN Ø 130 MM

no. 279119

SERVICE

Fast service instead of worry lines with ALPINE's spare parts and maintenance options.

Quality and reliability for users and analysis results take priority. Which is why the ALPINE air jet sieve e200 LS has been the last word in particle size analysis for more than 50 years.

If in spite of this, you experience problems: our spare parts and maintenance options are there to assist you – quickly and without hassle.

MAINTENANCE CONTRACTS QUALIFICATION

The ALPINE air jet sieve e200 LS is a particle size analyser that is used in many cases for quality assurance applications. The DIN ISO 9000 ff. standard mandates that these types of analysers be tested at regular intervals.

BASIC MAINTENANCE CONTRACT

Price on request

PERFORMANCE SCOPE

- Annual inspection of the analyser in your factory
- General check for function and damage
- Pressure test
- Test run
- Preparation of a system log

FULL-SERVICE MAINTENANCE CONTRACT

Price on request

PERFORMANCE SCOPE

- Annual inspection of the analyser in our Augsburg factory
- General check for function and damage
- Pressure test
- Loan of an air jet sieve during maintenance
- Shipping/return transport of the units within the EU
- Replacement of defective parts
- Support if problems arise in between scheduled maintenance measures
- Quickest possible reaction brought about by the fast shipment of spare parts
- Inspection of analysis sieves

QUALIFICATION DOCUMENTATION FOR e200 LS

no. 414639

The qualification is the "documented proof that the equipment, systems and units in the installed or modified design correspond to the approved design and to the manufacturer's recommendations." (ZLG – Aide Memoire 2010.)

- Qualification master plan
- Risk analysis/evaluation as per FMEA

Qualification templates for:

- Installation qualification (IQ)
- Operation qualification (OQ)
- Performance qualification (PQ)

The above-named qualification templates are supplied without performance of the tests.

TRAINING AND QUALIFICATION ON SITE

Price on request

If required, we offer a number of additional services for the e200 LS:

- Training of operators
- Test run and inspection of qualification documents (IQ, OQ)
- Execution on site

OVERVIEW

UPGRADE OF e200 LS eControl SOFTWARE

Upgrade	Order no.
Upgrade from Basic to Professional	404317
Upgrade from Professional to Ultimate	404318
Upgrade from Basic to Ultimate	404319
Upgrade from Basic/Professional/Ulimate to Security	on request

OPTIONAL ACCESSORIES / VARIANTS (ADDITIONAL CHARGE)

Dust extraction	Order no.
High-performance industrial vacuum cleaner type L - 120 V; 50/60 Hz	397362*
High-performance ind. safety vacuum cleaner type H - 230V; 50/60 Hz	397360*
Side-channel compressor with frequency converter	424344*

ACCESSORIES

Dust collection	Order no.
ALPINE small filter, dust class L, type 150/36	336197
ALPINE small filter, dust class M, type 150/36	360753
ALPINE small filter, dust class H, type 150/36	429592
ALPINE high-performance cyclone GAZ 120	408808
20-l product bin for GAZ 120 cyclone	294396

Peripheral units	Order no.
Sartorius Praxum® 1102-1S laboratory balance	308073
Mettler Toledo ME 1002T laboratory balance - 230 V; 50/60 Hz	414610

Sieving	Order no.
ALPINE micro-sieving unit (D) 76mm	424370

Sieve holders	Order no.
Adapter for test sieves ø 200 mm »ALPINE A200LS«/»Haver & Boecker«	396531
Adapter for test sieves ø 200 mm »Retsch«	396532
Adapter for test sieves ø 203 mm / 8" »W.S. Tyler«	398251
Adapter for test sieves ø 203 mm / 8" »Haver & Boecker«	398292
Adapter for test sieves ø 203 mm / 8" »Retsch«	398375
Plexiglas lid, type 200 for »A200LS test sieves«	009883
Plexiglas lid type 200/50 for »Haver & Boecker« test sieves	439683

Sieve handling	Order no.
ALPINE sieve holder type 203 SH	354369
Ultrasonic cleaning unit, type S 50 R - 230 V; 50/60 Hz	429174
Test sieve holder for type S 50 R	437258
Cover for S 50 R	429178
Ultrasonic cleaning unit, type S 300 H - 230 V; 50/60 Hz	253339
Stainless steel basket for S 300 H	395226
Cover for S 300 H	395228
Cleaning concentrate Tec Clean A4 - 2.5 litres	441521

SPARE PARTS FOR STANDARD ACCESSORIES

Standard accessories	Order no.
Plexiglas lid type 203	340463
Suction filter type 120	401477
Standard adapter for ø 203 mm test sieves	396530
Tapper	009932
Brush	328110
Multi-PSU power pack	397421
Power connection RS-485	402615

SPARE PARTS & OPERATING SUPPLIES

Vacuum cleaner	Order no.
Packet of 5 spare fleece filter bags, dust class L	380059
Packet of 5 spare safety filter bags, dust class H	387015
Cloth filter for vacuum cleaner L	324816
Spare filter element, dust class L	317304
Spare filter element, dust class H	314852
Spare hose for dust classes L and H - incl. sleeve	311929

Dust collection	Order no.
Spare star filter 1.3 m² dust class L for small filter 150/36	345988
Spare star filter 0.7 m² PTFE dust class M for small filter 150/36	443555
Spare hose for small filter 150/36 dust classes L and M - incl. sleeve	345747
Screw-cap jar for high-performance cyclone GAZ 120 incl. screw cap	009968
Spare wire spiral hose for high-performance cyclone GAZ 120	007087

Laboratory balances	Order no.
Spare cable for Sartorius laboratory balance	446526
Spare cable for Mettler Toledo laboratory balance	251850
Spare sample pan ø 130 mm	279119

SERVICE

Maintenance contracts	Order no.
Basic and full-service maintenance contracts	on request
Data security	Order no.
Qualification documentation	414639
Qualification service	on request

* = Additional charge compared with the vacuum cleaner (dust class L - 230 V; 50/60 Hz) already included in the package.
Unit price on request.



HOSOKAWA ALPINE

Process technologies for tomorrow.

HOSOKAWA ALPINE AKTIENGESELLSCHAFT

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