

## Air Jet Sieving Machine AS 200 jet

### General Information

The new Air Jet Sieve AS 200 jet is particularly suitable for sieve cuts of powdered materials which require efficient dispersion and desagglomeration. The option to store up to 10 SOPs and the automatic vacuum regulator (accessory) guarantees reproducible and meaningful results.

Innovative features such as the Open Mesh function, the selection of the nozzle speed as well as optional use of standard 2" high test sieves perfects the new air jet technology.



### Application Examples

ceramics, chemical products, cosmetics, food, minerals, pharmaceutical materials, pigments, plastics, powder coating, rubber, toner, washing powder, ...

### Product Advantages

- sieving with air jet technology for dispersion and desagglomeration of fine powders
- Open Mesh Function to reduce the number of near-mesh particles
- high flexibility through adjustable nozzle speed
- operation with standard Retsch sieves, 203 mm (8") Ø or 200 mm Ø (with adapter), 1" or 2" high
- free manual (standard) or automatic (accessory) pressure regulation
- optional software EasySieve for control through RS232 serial interface, easy evaluation and documentation of results
- free digital adjustment of all process parameters (time, vacuum, speed)
- additional Quick Start mode
- silent operation due to integrated silencer
- collection of two fractions possible by use of cyclone
- air jet produced by a powerful industrial vacuum cleaner
- fulfils all criteria for measuring equipment related to ISO 9001
- easy operation, ergonomic design
- maintenance-free
- memory for up to 9 SOPs

### Features

|                            |                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Applications               | separation, fractioning, particle size determination                                                                                            |
| Field of application       | chemistry / plastics, construction materials, environment / recycling, food, geology / metallurgy, glass / ceramics, medicine / pharmaceuticals |
| Feed material              | powders                                                                                                                                         |
| Measuring range*           | 10 µm - ~ 4 mm                                                                                                                                  |
| Sieving motion             | dispersion by air jet                                                                                                                           |
| Max. batch / feed capacity | 0.3 - 100 g                                                                                                                                     |

## Air Jet Sieving Machine AS 200 jet

|                                                |                                                     |
|------------------------------------------------|-----------------------------------------------------|
| Max. number of fractions                       | 1 (by using a cyclone: 2)                           |
| Speed                                          | digital, 5 - 55 min <sup>-1</sup> (nozzle)          |
| Time display                                   | digital, 00:01 - 99:59 min                          |
| Interval operation                             | -                                                   |
| Vacuum                                         | 2,000 - 9,999 Pa / 20 - 99 mbar / 0.3<br>- 1.45 psi |
| Storable SOPs                                  | 9 / Quick Start mode                                |
| Suitable for dry sieving                       | yes                                                 |
| Suitable for wet sieving                       | -                                                   |
| Serial interface                               | yes                                                 |
| Including test certificate / can be calibrated | yes                                                 |
| Suitable sieve diameters                       | 203 mm (200 mm with adapter)                        |
| Max. height of sieve stack                     | 1 sieve (25 mm (1") / 50 mm ( 2"))                  |
| Accessories                                    | cyclone / automatic vacuum regulation               |
| Electrical supply data                         | 100-240 V, 50/60 Hz                                 |
| Power connection                               | 1-phase                                             |
| W x H x D                                      | 460 x 288 x 305 (without cover)                     |
| Net weight                                     | ~ 14 kg                                             |
| Standards                                      | CE                                                  |

### Please note:

\*depending on feed material and instrument configuration/settings

## Videolink



<http://www.retsch.com/as200jet>

## Function Principle

The AS 200 jet is equipped with a rotating slotted nozzle. The sieve and lid are placed above the nozzle. A vacuum generates a strong jet of air which disperses the particles on the sieve through the slotted nozzle. The material which is smaller than the mesh size of the sieve is transported by the back flow of the air to the cyclone or to the vacuum cleaner. The air jet helps to deagglomerate the particles and constantly purges the sieve mesh.

## Air Jet Sieving Machine AS 200 jet

incl. order data

### Air Jet Sieving Machine AS 200 jet

for test sieves 203 mm (8") Ø, with manual vacuum regulation, incl. lids for test sieves 1" and 2" height and rubber mallet (please order test sieve and vacuum cleaner separately)

30.027.0001

AS 200 jet, 100-240 V, 50/60 Hz, incl. test report acc. to EN 10204 2.2

### Cyclone AS 200 jet

32.935.0008

Cyclone with holder and collecting receptacle (250 ml and 500 ml sample bottle) (industrial vacuum cleaner GM 80 recommended)

### Accessories AS 200 jet

32.748.0004

Industrial vacuum cleaner GM 80, 230 V, 50/60 Hz (other electrical versions available)

32.524.0010

Main filter for industrial vacuum cleaner GM 80, 1 piece

32.524.0011

HEPA filter unit for industrial vacuum cleaner GM 80, incl. 1 HEPA filter

32.524.0012

HEPA filter for industrial vacuum cleaner GM 80, 1 piece

32.100.0002

Automatic vacuum regulation

02.025.0070

Adapter and lids for test sieves 200 mm Ø x 50 mm and 200 mm Ø x 25 mm

03.107.0487

Spare lid for test sieves 203 mm (8") Ø x 1"

03.107.0448

Spare lid for test sieves 203 mm (8") Ø x 2"

22.523.0001

Sample bottles, 250 ml, 10 pieces

22.523.0002

Sample bottles, 500 ml, 10 pieces

60.142.000010

Test sieve with electroformed sheet (ISO 3310-3), 203 mm Ø, 25 mm height, 10 µm

60.142.000016

Test sieve with electroformed sheet (ISO 3310-3), 203 mm Ø, 25 mm height, 16 µm

99.200.0003

IQ/OQ Documentation for AS 200 jet

### Test Sieves

8" Ø x 1" height

ISO 3310/1

stainless steel with wire gauze

60.140.000020

20 µm \*

## Air Jet Sieving Machine AS 200 jet

|               |           |
|---------------|-----------|
| 60.140.000025 | 25 µm *   |
| 60.140.000032 | 32 µm *   |
| 60.140.000036 | 36 µm     |
| 60.140.000038 | 38 µm     |
| 60.140.000040 | 40 µm *   |
| 60.140.000045 | 45 µm     |
| 60.140.000050 | 50 µm *   |
| 60.140.000053 | 53 µm     |
| 60.140.000056 | 56 µm     |
| 60.140.000063 | 63 µm *   |
| 60.140.000071 | 71 µm     |
| 60.140.000075 | 75 µm     |
| 60.140.000080 | 80 µm *   |
| 60.140.000090 | 90 µm     |
| 60.140.000100 | 100 µm *  |
| 60.140.000106 | 106 µm    |
| 60.140.000112 | 112 µm    |
| 60.140.000125 | 125 µm *  |
| 60.140.000140 | 140 µm    |
| 60.140.000150 | 150 µm    |
| 60.140.000160 | 160 µm *  |
| 60.140.000180 | 180 µm    |
| 60.140.000200 | 200 µm *  |
| 60.140.000212 | 212 µm    |
| 60.140.000224 | 224 µm    |
| 60.140.000250 | 250 µm *  |
| 60.140.000280 | 280 µm    |
| 60.140.000300 | 300 µm    |
| 60.140.000315 | 315 µm *  |
| 60.140.000355 | 355 µm    |
| 60.140.000400 | 400 µm *  |
| 60.140.000425 | 425 µm    |
| 60.140.000450 | 450 µm    |
| 60.140.000500 | 500 µm *  |
| 60.140.000560 | 560 µm    |
| 60.140.000600 | 600 µm    |
| 60.140.000630 | 630 µm *  |
| 60.140.000710 | 710 µm    |
| 60.140.000800 | 800 µm *  |
| 60.140.000850 | 850 µm    |
| 60.140.000900 | 900 µm    |
| 60.140.001000 | 1.00 mm * |

## Air Jet Sieving Machine AS 200 jet

|               |                       |
|---------------|-----------------------|
| 60.140.001120 | 1.12 mm               |
| 60.140.001180 | 1.18 mm               |
| 60.140.001250 | 1.25 mm *             |
| 60.140.001400 | 1.40 mm               |
| 60.140.001600 | 1.60 mm *             |
| 60.140.001700 | 1.70 mm               |
| 60.140.001800 | 1.80 mm               |
| 60.140.002000 | 2.00 mm *             |
| 60.140.002240 | 2.24 mm               |
| 60.140.002360 | 2.36 mm               |
| 60.140.002500 | 2.50 mm *             |
| 60.140.002800 | 2.80 mm               |
| 60.140.003150 | 3.15 mm *             |
| 60.140.003350 | 3.35 mm               |
| 60.140.003550 | 3.55 mm               |
| 60.140.004000 | 4.00 mm *             |
| 60.140.004500 | 4.50 mm               |
| 60.140.004750 | 4.75 mm               |
| 60.140.005000 | 5.00 mm *             |
| 60.140.005600 | 5.60 mm               |
| 60.140.006300 | 6.30 mm *             |
| 60.140.006700 | 6.70 mm               |
| 60.140.007100 | 7.10 mm               |
| 60.140.008000 | 8.00 mm *             |
| 60.140.009000 | 9.00 mm               |
| 60.140.009500 | 9.50 mm               |
| 60.140.010000 | 10.00 mm *            |
| 60140011200   | 60140011200, 11.20 mm |
| 60.140.012500 | 12.50 mm *            |
| 60.140.013200 | 13.20 mm              |
| 60.140.014000 | 14.00 mm              |
| 60.140.016000 | 16.00 mm *            |
| 60.140.018000 | 18.00 mm              |
| 60.140.019000 | 19.00 mm              |
| 60.140.020000 | 20.00 mm *            |
| 60.140.022400 | 22.40 mm              |
| 60.140.025000 | 25.00 mm *            |
| 60.140.026500 | 26.50 mm              |
| 60.140.028000 | 28.00 mm              |
| 60.140.031500 | 31.50 mm *            |
| 60.140.035500 | 35.50 mm              |
| 60.140.037500 | 37.50 mm              |

## Air Jet Sieving Machine AS 200 jet

|               |             |
|---------------|-------------|
| 60.140.040000 | 40.00 mm *  |
| 60.140.045000 | 45.00 mm    |
| 60.140.050000 | 50.00 mm *  |
| 60.140.053000 | 53.00 mm    |
| 60.140.056000 | 56.00 mm    |
| 60.140.063000 | 63.00 mm *  |
| 60.140.071000 | 71.00 mm    |
| 60.140.075000 | 75.00 mm    |
| 60.140.080000 | 80.00 mm *  |
| 60.140.090000 | 90.00 mm    |
| 60.140.100000 | 100.00 mm * |
| 60.140.106000 | 106.00 mm   |
| 60.140.112000 | 112.00 mm   |
| 60.140.125000 | 125.00 mm * |

### 8" Ø x 2" height

#### ASTM E 11

#### stainless steel with wire gauze

|               |                  |
|---------------|------------------|
| 60.150.000020 | 20 µm; 635 Mesh  |
| 60.150.000025 | 25 µm; 500 Mesh  |
| 60.150.000032 | 32 µm; 450 Mesh  |
| 60.150.000038 | 38 µm; 400 Mesh  |
| 60.150.000045 | 45 µm; 325 Mesh  |
| 60.150.000053 | 53 µm; 270 Mesh  |
| 60.150.000063 | 63 µm; 230 Mesh  |
| 60.150.000075 | 75 µm; 200 Mesh  |
| 60.150.000090 | 90 µm; 170 Mesh  |
| 60.150.000106 | 106 µm; 140 Mesh |
| 60.150.000125 | 125 µm; 120 Mesh |
| 60.150.000150 | 150 µm; 100 Mesh |
| 60.150.000180 | 180 µm; 80 Mesh  |
| 60.150.000212 | 212 µm; 70 Mesh  |
| 60.150.000250 | 250 µm; 60 Mesh  |
| 60.150.000300 | 300 µm; 50 Mesh  |
| 60.150.000355 | 355 µm; 45 Mesh  |
| 60.150.000425 | 425 µm; 40 Mesh  |
| 60.150.000500 | 500 µm; 35 Mesh  |
| 60.150.000600 | 600 µm; 30 Mesh  |
| 60.150.000710 | 710 µm; 25 Mesh  |
| 60.150.000850 | 850 µm; 20 Mesh  |
| 60.150.001000 | 1.00 mm; 18 Mesh |

## Air Jet Sieving Machine AS 200 jet

|               |                   |
|---------------|-------------------|
| 60.150.001180 | 1.18 mm; 16 Mesh  |
| 60.150.001400 | 1.40 mm; 14 Mesh  |
| 60.150.001700 | 1.70 mm; 12 Mesh  |
| 60.150.002000 | 2.00 mm; 10 Mesh  |
| 60.150.002360 | 2.36 mm; 8 Mesh   |
| 60.150.002800 | 2.80 mm; 7 Mesh   |
| 60.150.003350 | 3.35 mm; 6 Mesh   |
| 60.150.004000 | 4.00 mm; 5 Mesh   |
| 60.150.004750 | 4.75 mm; 4 Mesh   |
| 60.150.005600 | 5.60 mm; 3.5 Mesh |
| 60.150.006300 | 6.30 mm; 1/4 "    |
| 60.150.006700 | 6.70 mm; 0.265 "  |
| 60.150.008000 | 8.00 mm; 5/16 "   |
| 60.150.009500 | 9.50 mm; 3/8 "    |
| 60.150.011200 | 11.20 mm; 7/16 "  |
| 60.150.012500 | 12.50 mm; 1/2 "   |
| 60.150.013200 | 13.20 mm; 0.530 " |
| 60.150.016000 | 16.00 mm; 5/8 "   |
| 60.150.019000 | 19.00 mm; 3/4 "   |
| 60.150.022400 | 22.40 mm; 7/8 "   |
| 60.150.025000 | 25.00 mm; 1 "     |
| 60.150.026500 | 26.50 mm; 1.06 "  |
| 60.150.031500 | 31.50 mm; 1 1/4 " |
| 60.150.037500 | 37.50 mm; 1 1/2 " |
| 60.150.045000 | 45.00 mm; 1 3/4 " |
| 60.150.050000 | 50.00 mm; 2 "     |
| 60.150.053000 | 53.00 mm; 2.12 "  |
| 60.150.063000 | 63.00 mm; 2 1/2 " |
| 60.150.075000 | 75.00 mm; 3 "     |
| 60.150.090000 | 90.00 mm; 3 1/2 " |
| 60.150.100000 | 100.00 mm; 4 "    |
| 60.150.106000 | 106.00 mm; 4.24 " |
| 60.150.125000 | 125.00 mm; 5 "    |

**8" Ø x 1" height**

**ASTM E 11**

**stainless steel with wire gauze**

|               |                 |
|---------------|-----------------|
| 60.141.000020 | 20 µm; 635 Mesh |
| 60.141.000025 | 25 µm; 500 Mesh |
| 60.141.000032 | 32 µm; 450 Mesh |
| 60.141.000038 | 38 µm; 400 Mesh |

## Air Jet Sieving Machine AS 200 jet

|               |                   |
|---------------|-------------------|
| 60.141.000045 | 45 µm; 325 Mesh   |
| 60.141.000053 | 53 µm; 270 Mesh   |
| 60.141.000063 | 63 µm; 230 Mesh   |
| 60.141.000075 | 75 µm; 200 Mesh   |
| 60.141.000090 | 90 µm; 170 Mesh   |
| 60.141.000106 | 106 µm; 140 Mesh  |
| 60.141.000125 | 125 µm; 120 Mesh  |
| 60.141.000150 | 150 µm; 100 Mesh  |
| 60.141.000180 | 180 µm; 80 Mesh   |
| 60.141.000212 | 212 µm; 70 Mesh   |
| 60.141.000250 | 250 µm; 60 Mesh   |
| 60.141.000300 | 300 µm; 50 Mesh   |
| 60.141.000355 | 355 µm; 45 Mesh   |
| 60.141.000425 | 425 µm; 40 Mesh   |
| 60.141.000500 | 500 µm; 35 Mesh   |
| 60.141.000600 | 600 µm; 30 Mesh   |
| 60.141.000710 | 710 µm; 25 Mesh   |
| 60.141.000850 | 850 µm; 20 Mesh   |
| 60.141.001000 | 1.00 mm; 18 Mesh  |
| 60.141.001180 | 1.18 mm; 16 Mesh  |
| 60.141.001400 | 1.40 mm; 14 Mesh  |
| 60.141.001700 | 1.70 mm; 12 Mesh  |
| 60.141.002000 | 2.00 mm; 10 Mesh  |
| 60.141.002360 | 2.36 mm; 8 Mesh   |
| 60.141.002800 | 2.80 mm; 7 Mesh   |
| 60.141.003350 | 3.35 mm; 6 Mesh   |
| 60.141.004000 | 4.00 mm; 5 Mesh   |
| 60.141.004750 | 4.75 mm; 4 Mesh   |
| 60.141.005600 | 5.60 mm; 3.5 Mesh |
| 60.141.006300 | 6.30 mm; 1/4 "    |
| 60.141.006700 | 6.70 mm; 0.265 "  |
| 60.141.008000 | 8.00 mm; 5/16 "   |
| 60.141.009500 | 9.50 mm; 3/8 "    |
| 60.141.011200 | 11.20 mm; 7/16 "  |
| 60.141.012500 | 12.50 mm; 1/2 "   |
| 60.141.013200 | 13.20 mm; 0.530 " |
| 60.141.016000 | 16.00 mm; 5/8 "   |
| 60.141.019000 | 19.00 mm; 3/4 "   |
| 60.141.022400 | 22.40 mm; 7/8 "   |
| 60.141.025000 | 25.00 mm; 1 "     |
| 60.141.026500 | 26.50 mm; 1.06 "  |
| 60.141.031500 | 31.50 mm; 1 1/4 " |



## Air Jet Sieving Machine AS 200 jet

|               |                   |
|---------------|-------------------|
| 60.141.037500 | 37.50 mm; 1 1/2 " |
| 60.141.045000 | 45.00 mm; 1 3/4 " |
| 60.141.050000 | 50.00 mm; 2 "     |
| 60.141.053000 | 53.00 mm; 2.12 "  |
| 60.141.063000 | 63.00 mm; 2 1/2 " |
| 60.141.075000 | 75.00 mm; 3 "     |
| 60.141.090000 | 90.00 mm; 3 1/2 " |
| 60.141.100000 | 100.00 mm; 4 "    |
| 60.141.106000 | 106.00 mm; 4.24 " |
| 60.141.125000 | 125.00 mm; 5 "    |