

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
- 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
- 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)
- memory for up to 9 SOPs, additional Quick Start mode
- silent operation due to integrated silencer



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
Max. number of fractions	1 (by using a cyclone: 2)

Air Jet Sieving Machine AS 200 jet

Speed	digital, 5 - 55 min ⁻¹ (nozzle)
Time display	digital, 00:00 - 99:59
Interval operation	-
Vacuum	2000 - 9999 Pa / 20 - 100 mbar
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
Documentation	Operation & Application Video
Standards	CE

*depending on feed material and instrument configuration/settings

Air Jet Sieving Machine AS 200 jet

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.

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

Air Jet Sieving Machine AS 200 jet

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 *
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 *

Air Jet Sieving Machine AS 200 jet

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 *
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

Air Jet Sieving Machine AS 200 jet

60.140.010000	10.00 mm *
60.140.011200	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
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

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

Air Jet Sieving Machine AS 200 jet

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
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 "

Air Jet Sieving Machine AS 200 jet

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 "

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
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

Air Jet Sieving Machine AS 200 jet

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 "
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 "

125.00 mm; 5 "