Drying, Weighing and Grading

10 | Drying samples
11 | Weighing samples
15 | Sample grading

Ovens and similar equipment, balances and test sieves with related accessories are common equipment that are indispensable for all laboratories for construction materials. We propose a wide range of models which satisfy the requirement of all main International Standards and particularly the EN 932-5 "Tests for general properties of aggregates – Part 5: Common equipment and calibration."

Laboratory ovens

Standards

EN 932-5 | EN 1097-5 |

ASTM C127 | ASTM D1559 | ASTM D698 | ASTM D558 | ASTM D1557 | ASTM C136| ASTM D559 | ASTM D560 |

BS 1924:1

Detail of external stainless lining: "linen patterned" resistant to scratches and shocks

main features

- Digital PID temperature control system
- High temperature uniformity and precision
- Over-heating protection
- Stainless steel internal and external 'linen patterned' lining
- Forced convection airflow
- 200°C maximum temperature
- Supplied complete with three grid shelves

Laboratory ovens

10-D1396

Stainless steel, forced convection, digital laboratory oven, 250 litre capacity. 230 V, 50-60 Hz, 1 ph.

10-D1396/Z

As above but 110 V, 60 Hz, 1 ph.

10-D1397

Stainless steel, forced convection, digital laboratory oven, 450 litre capacity. 230 V, 50-60 Hz, 1 ph.

10-D1397/Z

As above but 220 V, 60 Hz, 3 ph.

10-D1398

Stainless steel, forced convection, digital laboratory oven, 780 litre capacity. 380 V, 50 Hz, 3 ph.

10-D1398/Z

As above but 220 V, 60 Hz, 3 ph.

Models 10-	D1396 D1396/Z	D1397 D1397/Z	D1398
Nominal capacity	250 litres	450 litres	780 litres
Max. temperature	200°C	200°C	200°C
Air convection	Forced	Forced	Forced
Rated power	2100 W	3100 W	4200 W
Internal dimensions (w x d x h)	540 x 650 x 700 mm	600 x 750 x 1000 mm	810 x 800 x 1200 mm
External dimensions (w x d x h) (approx.)	900 x 1020 x 970 mm	1020 x 1120 x 1270 mm	1235 x 1180 x 1450 mm
Number of shelves	3	3	3
Weight (approx.)	130 kg	157 kg	200 kg

Accessories and spares

10-D1396/1

Spare grid shelves for 10-D1396

10-D1397/1

Spare grid shelves for 10-D1397

10-D1398/1

Spare grid shelves for 10-D1398

General purpose drying ovens

main features

- Digital thermo-regulator / indicator
- Forced convection (250 and 400 litre capacity models) and natural convection (100 litre capacity model)
- Complete with safety thermostat to avoid over-heating
- Supplied with two extractable grid shelves
- Ideal for site laboratories

10-D1390/10

Natural convection oven, 100 litre capacity, digital thermo-regulator / indicator. 230 V, 50-60 Hz, 1 ph.
10-D1390/10Z
As above but 110 V, 60 Hz, 1 ph.

10-D1390/25

Forced convection oven, 250 litre capacity, digital thermo-regulator / indicator. 230 V, 50-60 Hz, 1 ph.
10-D1390/25Z
As above but 110 V, 60 Hz, 1 ph.

10-D1390/40

Forced convection oven, 400 litre capacity, digital thermo-regulator / indicator. 230 V, 50-60 Hz, 1 ph.
10-D1390/40Z
As above but 110 V , 60 Hz, 1 ph.

Accessories and spares

10-D1390/T10
Spare grid shelf for 10-D1390/10

10-D1390/T25
Spare grid shelf for 10-D1390/25

10-D1390/T40
Spare grid shelf for 10-D1390/40

Models 10-	D1390/10 D1390/10Z	D1390/25 D1390/25Z	D1390/40 D1390/40Z
Nominal capacity	100 litres	250 litres	400 litres
Max. temperature	200 °C	200 °C	200 °C
Air convection	Natural	Forced	Forced
Rated power	1300 W	2000 W	3000 W
Internal dimensions (w x d x h)	440 x 460 x 498 mm	554 x 680 x 663 mm	604 x 790 x 849 mm
External dimensions (w x d x h) (approx.)	673 x 605 x 765 mm	787 x 908 x 930 mm	1115 x 1018 x 837 mm
Number of shelves	2	2	2
Weight (approx.)	47 kg	52 kg	104 kg

Hot plates

Digital hot plates

Designed to meet routine heating requirements of laboratories, this hot plate has a digital temperature controller and an aluminium heating surface.

10-D1401/E

Digital hot plate, 300 x 400 mm, aluminium alloy/stainless steel plate. 230 V, 50-60 Hz, 1 ph.

Technical specifications

- Temperature range: ambient to 350 °C
- Accuracy: ± 5 °C
- Heating area: 300x 400 mm
- Heating power: 2000 W
- Overall dimensions:
- 400 x 300 x 150 mm
- Weight: 18 kg (approx.)

10-D1401/E

General utility hot plates

Used in laboratories for a wide variety of applications, there are two versions of this hot plate available: 10-D1402 with temperature control via a multi-position switch, and 10-D1402/A with a bi-metallic thermostat.

Technical specifications

- Plate diameter: 160 mm
- Heating power: 1000 W
- Overall dimensions:
- 260 x 260 x 135 mm
- Weight: 3 kg (approx.)

10-D1402

Hot plate, 160 mm diameter, multi-position switch. 230 V, 50-60 Hz, 1 ph.
10-D1402/Z
As above but 110 V, 60 Hz, 1 ph.

10-D1402/A

Hot plate, 160 mm diameter, bi-metallic thermostat. 230 V, 50-60 Hz, 1 ph.

10-D1402, 10-D1402/A

Muffle furnaces | Air drier | Microwave oven

Air drier

Used to dry small quantities of soil and aggregate particles.

Weight: 1.5 kg (approx.)

10-D1425

Warm-air drier. 1000 W, 230 V, 50 Hz, 1 ph.

Microwave oven

10-D1424

Microwave oven, 28 litre capacity, 900 W, 230 V, 50-60 Hz, 1 ph.

Muffle furnaces

This range of muffle furnaces covers practically all requirements of the construction material laboratory, from aggregates to concrete/cement and asphalt testing.

Model 10-D1418/AP is supplied complete with a programmer for setting the temperature ramp.

10-D1418

Muffle furnace, 1100 °C max temperature. 230 V, 50-60 Hz, 1 ph.

10-D1418/A

Muffle furnace, 1200 °C max temperature. 230 V, 50-60 Hz, 1 ph.

10-D1418/AZ

As above but 110 V, 60 Hz, 1 ph.

10-D1418/AP

Muffle furnace, 1200 °C max temperature, complete with temperature ramp programmer. 230 V, 50-60 Hz, 1 ph.

10-D1419

Muffle furnace, 1100 °C max temperature, high capacity, floor mounted model. 220-380 V, 50-60 Hz, 3 ph.

10-D1419

Models 10-	D1418	D1418/A D1418/AZ	D1418/AP	D1419
Max. temp., °C	1100	1200	1200	1100
Accuracy, °C	±4	±4	±4	±4
Rated power, W	3900	4200	4200	9000
Internal dimensions, mm	210 x 320 x 145	210 x 280 x 145	210 x 280 x 145	300 x 220 x 500
External dimensions, mm	510 x 750 x 660	510 x 650 x 650	510 x 650 x 650	750 x 1650 x 1100
Weight, kg (appr.)	89	70	70	400
Reference standards	EN 12697-1 EN 13108	EN 196-2 EN 196-1 EN 459-2	EN 196-2 EN 196-1 EN 459-2	EN 1367-5

10-D1418/A,
10-D1418/AP

10-D1418

Climatic chambers

Standards
EN 1367-1 | EN 12390-2 | EN 196-1

Two versions of this advanced climatic chamber are offered:

10-D1429 - temperature controlled from -25 to +70 °C, for testing aggregates in conformance with EN 1367-1 as well as other similar tests on concrete and other construction materials, and

10-D1429/A - temperature and humidity controlled from -25 to +70 °C and 10 to 95% respectively, for aggregates and various other applications such as concrete and cement specimen curing (EN 12390-2, EN 196-1).

Both models can be upgraded with an internal data recording facility, data output port and dedicated PC software. See accessory 10-D1429/REC.
For the determination of resistance to freezing and thawing of aggregates, the accessory 48-D0457 should be used. See accessories.

main features

- Advanced controller with cycle programmer for 50 programs and 1000 segments
- Temperature sensor can be positioned anywhere inside the cabinet or inside the sample, in conformance with requirements of the Standards
- High accuracy: ±1°C, ± 5% RH (RH with 10-D1429/A model only)
- A multipurpose climatic chamber suitable for testing applications in aggregates, cement, concrete, bricks, blocks, asphalt and other construction materials
- Optional internal data recording facility, data output port and dedicated PC software.

Cabinet
Constructed from monobloc stainless steel, the cabinet has four shelves supported on stainless steel guides capable of holding heavy specimens.

Thermostatic unit
The CFC free cooling system is designed to condition the air circulating in the cabinet. The cooling circuit is made entirely of copper and comprises a dewater/receiver filter, spy glass to verify the passage of Freon, high pressure manostat and inlet connectors. The heating element consists of a finned stainless steel tube with a limiting thermostat.

Control console
The front panel includes a large digital display with switches and alarm LEDs. A multifunction control unit simultaneously displays the set points and absolute output values.

Temperature sensor
The PT100 sensor can be moved within the cabinet area and can also be located inside the test sample, in conformance with specific standard requirements.

Humidity sensor
Allows measurement of humidity up to RH 100%.

Technical specifications
- Capacity: 520 litres
- Function controller: cycle programmer for 50 programs and 1000 segments
- Temperature range / accuracy: -25 to +70 °C / ±1 °C
- Humidity range / accuracy (model 10-D1429/A only): from 10 to 95% / ±5%
- Rated power: Cooling system 1000 W, Heating system 1500 W
- Internal air circulation: 450 m^3/hr
- Shelf loading capacity: 60 kg each
- Internal dimensions: 600 x 670 x 1300 mm (w x d x h)
- External dimensions: 720 x 800 x 2020 mm (w x d x h)
- Weight: 180 kg (approx.)

10-D1429
Temperature controlled cabinet, 520 litre capacity, temperature range -25 to +70 °C. 230 V, 50-60 Hz, 1 ph.
10-D1429/Z
As above but 110 V, 60 Hz, 1 ph.

10-D1429/A
Temperature and humidity controlled cabinet, 520 litre capacity, temperature range -25 to +70 °C, humidity range from 10 to 95%. 230 V, 50-60 Hz, 1 ph.
10-D1429/AZ
As above but 110 V, 60 Hz, 1 ph.

Accessories

10-D1429/REC
Upgrade of the cabinet controller with internal data recording facility, data output port and dedicated PC software.
Note: This upgrade must be factory installed.

48-D0457
Metal can, 2000 ml capacity with removable lid and 1 kg ballast. Conforming to EN 1367-1. Used for determining the resistance to freezing and thawing of aggregates including lightweight types.
Weight: 2.5 kg (approx.)

Balances

Balances are a general purpose laboratory apparatus used either for soil, aggregates, cement, concrete or asphalt testing. CONTROLS supply a wide range of electronic models suitable for different applications ranging from large central laboratories and on-site laboratories, to educational facilities. The battery operated models are particularly suitable for use in the field (battery pack can be provided on request). We also offer a range of accessories and calibration weights for periodically checking the balances.

How to select balances

Where specifications for a balance are not stated by the relevant Standard, the tables below may be used to select an appropriate balance that conforms to the general specifications given in the ASTM D4753-95, BS 1377:Part 1 and EN 932-5.

Very often a single specification requires that the balance has a readability and tolerance of 0.1% of the specimen mass to be measured and this can also be used as a choice criteria.

Other Standards covering aggregates and granular materials in general give information about the quantity of aggregate to be tested depending upon its size (UNI 8520 Part 5, BS 812:Part 1, BS 598 etc.). The different standards give practically the same recommendations so we have included this information in a separate table.

Selection guide for weighing in conformance with ASTM, BS and EN standards

Minimum sample weight, g	Standards	Resolution (scale interval or decimal), g	Minimum accuracy (tolerance), g
20 to 200	ASTM C114 (Cement testing)	0.0002	± 0.0002
200	ASTM D4753 (GP2) BS1377:1 EN 932-5	0.1 0.001 0.001	± 0.2 ± 0.005 ± 0.005
1200	ASTM D4753 (GP2) BS1377:1 EN 932-5	0.1 0.01 0.01	± 0.2 ± 0.05 ± 0.05
2000	ASTM D4753 (GP5) BS1377:1 EN 932-5	1 0.1 0.1	± 2 ± 0.3 ± 0.3
5000	ASTM D4753 (GP10) BS1377:1 EN 932-5	5 0.5 0.5	± 5 ± 1 ± 1
10000	ASTM D4753 (GP10) BS1377:1 EN 932-5	5 1 1	± 5 ± 3 ± 3
25000	ASTM D4753 (GP10) BS1377:1 EN 932-5	5 5 5	± 5 ± 10 ± 10
50000	ASTM D4753 (GP10) BS1377:1 EN 932-5	50 10 10	± 50 ± 20 ± 30

Minimum mass of sample for sieve analysis[1]

Nominal size of material, mm	Minimum mass of sample, kg
63	50
50	35
40	15
28	5
20	2
14	1
10	0.5
6	0.2
5	0.2
3	0.2
<3	0.1

[1] BS 812:1

Top loading electronic balances

Standards EN 932-5 | ASTM D4753

Specifications and ordering information

Models 11-	Capacity, g	Resolution g	Pan dimensions mm	Calibration	Power adapter, V	Weight, kg (approx.)
D0630/04	420	0.001	80 diameter	DKD	230	2.5
D0630/04Z	420	0.001	80 diameter	DKD	110	2.5
D0630/06	600	0.01	130 diameter	Traceable	230/110	1.5
D0630/4	4200	0.01	150 diameter	DKD	230	2.3
D0630/4Z	4200	0.01	150 diameter	DKD	110	2.3
D0630/6	6000	0.1	140 x 150	Traceable	230/110	3
D0630/10	10000	0.1	150 x 170	DKD	230	1.1
D0630/10Z	10000	0.1	150 x 170	DKD	110	1.1
D0630/15	15000	0.2	225 x 300	Traceable	230/110	5.1
D0630/16	16000	0.1	210 x 230	Traceable	230	7.2
D0630/16Z	16000	0.1	210 x 230	Traceable	110	7.2
D0630/24	24100	0.1	160 x 200	DKD	230	4
D0630/24Z	24000	0.1	160 x 200	DKD	110	2.7
D0630/30	30000	0.5	225 x 300	Traceable	230/110	5.1
D0630/30A	30000	1	340 x 240	DKD	230	6.5
D0630/30AZ	30000	1	340 x 240	DKD	110	6.5
D0630/60	65000	1	340 x 240	DKD	230	6.5
D0630/60Z	65000	1	340 x 240	DKD	110	6.5
D0632/30 Dual range	4500 32000	0.1 1	210 x 230	Traceable	230	7.2
D0632/30Z Dual range	4500 32000	0.1 1	210 x 230	Traceable	110	7.2
D0632/150 Dual range	60000 150000	2 5	318 x 308	DKD	230	4
D0632/150Z Dual range	60000 150000	2 5	318 x 308	DKD	110	4

main features

- Mains and rechargeable battery operated (battery pack not included)
- Under balance weighing facility (except for the 150 kg model)
- RS232 serial port
- Supplied complete with traceable or DKD (DeutscherKalibrierdienst, the German Accreditation Authority calibration certificate

11-D0630/04

11-D0630/24

11-D0630/30A

11-D0630/6, /15, /30

11-D0630/06

11-D0630/150

11-D0630/10

11-D0630/16

Analytical and moisture determination balances | Standard calibration weights

Analytical balance

This balance is particularly suitable for testing the heat of hydration of cement, where a high accuracy is requested.

11-D0613/B

Electronic analytical balance,
210 g capacity, 0.1 mg resolution.
110-230 V, 50-60 Hz, 1 ph.

Technical specifications

- Capacity: 210 g
- Resolution: 0.1 mg
- Accuracy: ±0.3 mg
- Tare range: by subtraction up to full capacity
- Display: seven-character LCD
- Data interface: bi-directional RS 232
- Pan diameter: 80 mm
- Dimensions: 215 x 345 x 345 mm (w x d x h)
- Weight: 5.9 kg (approx.)

19-D0602/B

Specific gravity determination

Standards

EN 12697, EN 12390-7, EN 1097-6 | ASTM C127, ASTM C128 | AASHTO T84 | BS 812:2, BS 1881:14

11-D0612/B

Specific gravity frame

Note
For more details and information see page 204

11-D0612/B with balance and accessories

Moisture determination balance

This model automatically and simultaneously dries and weighs solid samples for the determination of moisture content. With a built-in timer, the balance provides a continuous direct readout for both weight and percentage moisture loss throughout the entire cycle.

19-D0602/B

Moisture determination balance,
160 g capacity, 1 mg resolution.
230 V, 50-60 Hz, 1 ph.

Specifications

- Capacity: 160 g
- Resolution: 1 mg
- Timer: 0-99 minutes
- Dimensions:
- 194 x 340 x 235 mm (w x d x h)
- Weight: 11.5 kg (approx.)

Standard calibration weights M1 Class, 50 g to 20kg

Used for periodic checking of balances. The standard weights 11-D0700/C to 11-D0707/C are supplied complete with a manufacturer's certificate of conformity. Calibrated models, with ACCREDIA certificate also available and are identified adding suffix 1 to the code. Ex.: 11-D0700/C1.

11-D0700/C

50 g calibration weight, M1 Class, ±3 mg tolerance.

11-D0701/C

100 g calibration weight, M1 Class, ±5 mg tolerance.

11-D0702/C

200 g calibration weight, M1 Class, ±10 mg tolerance.

11-D0703/C

500 g calibration weight, M1 Class, ±25 mg tolerance.

11-D0704/C

1 kg calibration weight, M1 Class, ±50 mg tolerance.

11-D0705/C

2 kg calibration weight, M1 Class, ±100 mg tolerance.

11-D0706/C

5 kg calibration weight, M1 Class, ±250 mg tolerance.

11-D0707/C

10 kg calibration weight, M1 Class, ±500 mg tolerance.
calibration certificate.

11-D0708/C

20 kg cast iron calibration weight, M1 class, ± 1 g tolerance

11-D0700/C - D0707/C

Accessories

11-D0708

Wooden box for single weights up to 500 g

11-D0708/1

Wooden box for 1 kg weight

11-D0708/2

Wooden box for 2 kg weight

11-D0708/3

Wooden box for 5 kg weight

11-D0708/4

Wooden box for 10 kg weight

Set of weights 1mg to 50 g

11-D0709/C

Set of weights, 1 mg to 50 g, 20 pieces in total.

Testing Sieves

We propose a complete range of full depth testing sieves with 200 mm, 8", 250 mm, 300 mm, 12", 315 mm and 450 mm dia., with woven wire cloth and perforated plate conforming to the different Standards. On request we can also supply models with round holes perforated plate from 1 to 100 mm dia.
All frames except the 450 mm dia., and wire cloth sieves are manufactured from stainless steel. Perforated plates are made from tinned steel. Sieves having the same nominal diameter are designed to nest one in each other. Using 200 mm (8") sieves it is possible to test up to 1000 g of aggregates and 3000 g with 300 mm (12") dia.

Standards

European

Conforming to the new European EN Standards all sieves for the construction industry are specified by the following Standards:

EN 933-2
Test for geometrical properties of aggregates
Determination of particle size distribution
Test sieves, nominal size of apertures

ISO 3310-1
Test sieves of woven wire cloth

ISO 3310-2
Test sieves of perforated metal plate

ISO 565
Nominal size of openings for woven wire and perforated plate sieves.

The most common national Standards including BS 410, NF X11-504, DIN 4187-1, UNI 2331 - 2333, UNE 7050 are practically identical to the ISO 3310-1 and 2, except for some missing openings which have been included in the list for those users who prefer to complete or substitute existing old sets. The new European Standards also specify that: "Sieves with aperture size of 4 mm and above shall be perforated plate square hole test sieves. Below that size they shall be woven wire test sieves."

American

The sieves are conforming to the following Standards:

ASTM E11
Wire-cloth sieves for testing purposes.

Note. *The sieve specifications are clearly marked on the label comprising the serial number and other information for the identification and traceability of the product as requested by the international specifications.*

Traceable certificate of calibration

All sieves can be supplied, on request, with traceable certificate of calibration. In that case just add to the code number the suffix "C". Example: for an ISO 3310-1 test sieve, 200 mm dia. 1 mm opening, the code becomes 15-D2215/JC.

ISO 3310-1* Test sieves of woven cloth

Nominal aperture	Code 200 mm dia.	Code 250 mm dia.	Code 300 mm dia.	Code 315 mm dia.	Code 450 mm dia.
20 µm	15-D2365/J	15-D2365/F	15-D3365/J	15-D3365/F	15-D4365/J
38 µm	15-D2360/J	15-D2360/F	15-D3360/J	15-D3360/F	15-D4360/J
40 µm	15-D2355/J	15-D2355/F	15-D3355/J	15-D3355/F	15-D4355/J
45 µm	15-D2350/J	15-D2350/F	15-D3350/J	15-D3350/F	15-D4350/J
50 µm	15-D2345/J	15-D2345/F	15-D3345/J	15-D3345/F	15-D4345/J
53 µm	15-D2340/J	15-D2340/F	15-D3340/J	15-D3340/F	15-D4340/J
63 µm	15-D2335/J	15-D2335/F	15-D3335/J	15-D3335/F	15-D4335/J
75 µm	15-D2330/J	15-D2330/F	15-D3330/J	15-D3330/F	15-D4330/J
80 µm	15-D2325/J	15-D2325/F	15-D3325/J	15-D3325/F	15-D4325/J
90 µm	15-D2320/J	15-D2320/F	15-D3320/J	15-D3320/F	15-D4320/J
100 µm	15-D2315/J	15-D2315/F	15-D3315/J	15-D3315/F	15-D4315/J
106 µm	15-D2310/J	15-D2310/F	15-D3310/J	15-D3310/F	15-D4310/J
125 µm	15-D2305/J	15-D2305/F	15-D3305/J	15-D3305/F	15-D4305/J
150 µm	15-D2300/J	15-D2300/F	15-D3300/J	15-D3300/F	15-D4300/J
160 µm	15-D2295/J	15-D2295/F	15-D3295/J	15-D3295/F	15-D4295/J
180 µm	15-D2290/J	15-D2290/F	15-D3290/J	15-D3290/F	15-D4290/J
200 µm	15-D2285/J	15-D2285/F	15-D3285/J	15-D3285/F	15-D4285/J
212 µm	15-D2280/J	15-D2280/F	15-D3280/J	15-D3280/F	15-D4280/J
250 µm	15-D2275/J	15-D2275/F	15-D3275/J	15-D3275/F	15-D4275/J
300 µm	15-D2270/J	15-D2270/F	15-D3270/J	15-D3270/F	15-D4270/J
315 µm	15-D2265/J	15-D2265/F	15-D3265/J	15-D3265/F	15-D4265/J
355 µm	15-D2260/J	15-D2260/F	15-D3260/J	15-D3260/F	15-D4260/J
400 µm	15-D2255/J	15-D2255/F	15-D3255/J	15-D3255/F	15-D4255/J
425 µm	15-D2250/J	15-D2250/F	15-D3250/J	15-D3250/F	15-D4250/J
500 µm	15-D2245/J	15-D2245/F	15-D3245/J	15-D3245/F	15-D4245/J
600 µm	15-D2240/J	15-D2240/F	15-D3240/J	15-D3240/F	15-D4240/J
630 µm	15-D2235/J	15-D2235/F	15-D3235/J	15-D3235/F	15-D4235/J
710 µm	15-D2230/J	15-D2230/F	15-D3230/J	15-D3230/F	15-D4230/J
800 µm	15-D2225/J	15-D2225/F	15-D3225/J	15-D3225/F	15-D4225/J
850 µm	15-D2220/J	15-D2220/F	15-D3220/J	15-D3220/F	15-D4220/J
1 mm	15-D2215/J	15-D2215/F	15-D3215/J	15-D3215/F	15-D4215/J
1.18 mm	15-D2210/J	15-D2210/F	15-D3210/J	15-D3210/F	15-D4210/J
1.25 mm	15-D2205/J	15-D2205/F	15-D3205/J	15-D3205/F	15-D4205/J
1.4 mm	15-D2200/J	15-D2200/F	15-D3200/J	15-D3200/F	15-D4200/J
1.6 mm	15-D2195/J	15-D2195/F	15-D3195/J	15-D3195/F	15-D4195/J
1.7 mm	15-D2190/J	15-D2190/F	15-D3190/J	15-D3190/F	15-D4190/J
2 mm	15-D2185/J	15-D2185/F	15-D3185/J	15-D3185/F	15-D4185/J
2.36 mm	15-D2180/J	15-D2180/F	15-D3180/J	15-D3180/F	15-D4180/J
2.5 mm	15-D2175/J	15-D2175/F	15-D3175/J	15-D3175/F	15-D4175/J
2.8 mm	15-D2170/J	15-D2170/F	15-D3170/J	15-D3170/F	15-D4170/J
3.15 mm	15-D2165/J	15-D2165/F	15-D3165/J	15-D3165/F	15-D4165/J
3.35 mm	15-D2160/J	15-D2160/F	15-D3160/J	15-D3160/F	15-D4160/J
4 mm	15-D2155/J	15-D2155/F	15-D3155/J	15-D3155/F	15-D4155/J
4.75 mm	15-D2150/J	15-D2150/F	15-D3150/J	15-D3150/F	15-D4150/J
5 mm	15-D2145/J	15-D2145/F	15-D3145/J	15-D3145/F	15-D4145/J
5.6 mm	15-D2140/J	15-D2140/F	15-D3140/J	15-D3140/F	15-D4140/J
6.3 mm	15-D2135/J	15-D2135/F	15-D3135/J	15-D3135/F	15-D4135/J
6.7 mm	15-D2130/J	15-D2130/F	15-D3130/J	15-D3130/F	15-D4130/J
7.1 mm	15-D2128/J	15-D2128/F	15-D2128/J	15-D2128/F	15-D2128/J
8 mm	15-D2125/J	15-D2125/F	15-D3125/J	15-D3125/F	15-D4125/J
9.5 mm	15-D2120/J	15-D2120/F	15-D3120/J	15-D3120/F	15-D4120/J
10 mm	15-D2115/J	15-D2115/F	15-D3115/J	15-D3115/F	15-D4115/J
11.2 mm	15-D2110/J	15-D2110/F	15-D3110/J	15-D3110/F	15-D4110/J
12.5 mm	15-D2105/J	15-D2105/F	15-D3105/J	15-D3105/F	15-D4105/J
13.2 mm	15-D2100/J	15-D2100/F	15-D3100/J	15-D3100/F	15-D4100/J
14 mm*	15-D2096/J	15-D2096/F	15-D3096/J	15-D3096/F	15-D4096/J
16 mm	15-D2095/J	15-D2095/F	15-D3095/J	15-D3095/F	15-D4095/J
18 mm*	15-D2091/J	15-D2091/F	15-D3091/J	15-D3091/F	15-D4091/J
19 mm	15-D2090/J	15-D2090/F	15-D3090/J	15-D3090/F	15-D4090/J
20 mm	15-D2085/J	15-D2085/F	15-D3085/J	15-D3085/F	15-D4085/J
22.4 mm	15-D2080/J	15-D2080/F	15-D3080/J	15-D3080/F	15-D4080/J
25 mm	15-D2075/J	15-D2075/F	15-D3075/J	15-D3075/F	15-D4075/J
26.5 mm	15-D2070/J	15-D2070/F	15-D3070/J	15-D3070/F	15-D4070/J
31.5 mm	15-D2065/J	15-D2065/F	15-D3065/J	15-D3065/F	15-D4065/J
37.5 mm	15-D2060/J	15-D2060/F	15-D3060/J	15-D3060/F	15-D4060/J
40 mm	15-D2055/J	15-D2055/F	15-D3055/J	15-D3055/F	15-D4055/J
45 mm	15-D2050/J	15-D2050/F	15-D3050/J	15-D3050/F	15-D4050/J
50 mm	15-D2045/J	15-D2045/F	15-D3045/J	15-D3045/F	15-D4045/J
53 mm	15-D2040/J	15-D2040/F	15-D3040/J	15-D3040/F	15-D4040/J
56 mm	15-D2035/J	15-D2035/F	15-D3035/J	15-D3035/F	15-D4035/J
63 mm	15-D2030/J	15-D2030/F	15-D3030/J	15-D3030/F	15-D4030/J
75 mm	15-D2025/J	15-D2025/F	15-D3025/J	15-D3025/F	15-D4025/J
80 mm	15-D2020/J	15-D2020/F	15-D3020/J	15-D3020/F	15-D4020/J
90 mm	15-D2015/J	15-D2015/F	15-D3015/J	15-D3015/F	15-D4015/J
100 mm	15-D2010/J	15-D2010/F	15-D3010/J	15-D3010/F	15-D4010/J
125 mm	15-D2005/J	15-D2005/F	15-D3005/J	15-D3005/F	15-D4005/J
Pan and cover	15-D2004/J	15-D2004/F	15-D3004/J	15-D3004/F	15-D4004/J
Pan only	15-D2003/J	15-D2003/F	15-D3003/J	15-D3003/F	15-D4003/J
Cover only	15-D2002/J	15-D2002/F	15-D3002/J	15-D3002/F	15-D4002/J
Frame only	15-D2001/J	15-D2001/F	15-D3001/J	15-D3001/F	15-D4001/J
Receiver/Separator	15-D2000/J	15-D2000/F	15-D3000/J	15-D3000/F	15-D4000/J

* Apertures conforming also to BS, NF, DIN, UNE, UNI Standards. See introduction

ISO 3310-2* Test sieves of perforated metal plate

Nominal aperture	Code 200 mm dia.	Code 250 mm dia.	Code 300 mm dia.	Code 315 mm dia.	Code 450 mm dia.
4 mm	15-D2550/J	15-D2550/F	15-D3550/J	15-D3550/F	15-D4550/J
4.75 mm	15-D2545/J	15-D2545/F	15-D3545/J	15-D3545/F	15-D4545/J
5 mm	15-D2540/J	15-D2540/F	15-D3540/J	15-D3540/F	15-D4540/J
5.6 mm	15-D2535/J	15-D2535/F	15-D3535/J	15-D3535/F	15-D4535/J
6.3 mm	15-D2530/J	15-D2530/F	15-D3530/J	15-D3530/F	15-D4530/J
6.7 mm	15-D2525/J	15-D2525/F	15-D3525/J	15-D3525/F	15-D4525/J
7.1 mm	15-D2520/J	15-D2520/F	15-D3520/J	15-D3520/F	15-D4520/J
8 mm	15-D2515/J	15-D2515/F	15-D3515/J	15-D3515/F	15-D4515/J
9 mm	15-D2514/J	15-D2514/F	15-D3514/J	15-D3514/F	15-D4514/J
9.5 mm	15-D2510/J	15-D2510/F	15-D3510/J	15-D3510/F	15-D4510/J
10 mm	15-D2505/J	15-D2505/F	15-D3505/J	15-D3505/F	15-D4505/J
11.2 mm	15-D2500/J	15-D2500/F	15-D3500/J	15-D3500/F	15-D4500/J
12.5 mm	15-D2495/J	15-D2495/F	15-D3495/J	15-D3495/F	15-D4495/J
13.2 mm	15-D2490/J	15-D2490/F	15-D3490/J	15-D3490/F	15-D4490/J
14 mm	15-D2485/J	15-D2485/F	15-D3485/J	15-D3485/F	15-D4485/J
16 mm	15-D2480/J	15-D2480/F	15-D3480/J	15-D3480/F	15-D4480/J
18 mm*	15-D2479/J	15-D2479/F	15-D3479/J	15-D3479/F	15-D4479/J
19 mm	15-D2475/J	15-D2475/F	15-D3475/J	15-D3475/F	15-D4475/J
20 mm	15-D2470/J	15-D2470/F	15-D3470/J	15-D3470/F	15-D4470/J
22.4 mm	15-D2465/J	15-D2465/F	15-D3465/J	15-D3465/F	15-D4465/J
25 mm	15-D2460/J	15-D2460/F	15-D3460/J	15-D3460/F	15-D4460/J
26.5 mm	15-D2455/J	15-D2455/F	15-D3455/J	15-D3455/F	15-D4455/J
28 mm	15-D2450/J	15-D2450/F	15-D3450/J	15-D3450/F	15-D4450/J
31.5 mm	15-D2445/J	15-D2445/F	15-D3445/J	15-D3445/F	15-D4445/J
37.5 mm	15-D2440/J	15-D2440/F	15-D3440/J	15-D3440/F	15-D4440/J
40 mm	15-D2442/J	15-D2442/F	15-D3442/J	15-D3442/F	15-D4442/J
45 mm	15-D2435/J	15-D2435/F	15-D3435/J	15-D3435/F	15-D4435/J
50 mm	15-D2430/J	15-D2430/F	15-D3430/J	15-D3430/F	15-D4430/J
53 mm	15-D2425/J	15-D2425/F	15-D3425/J	15-D3425/F	15-D4425/J
56 mm	15-D2426/J	15-D2426/F	15-D3426/J	15-D3426/F	15-D4426/J
63 mm	15-D2420/J	15-D2420/F	15-D3420/J	15-D3420/F	15-D4420/J
75 mm	15-D2415/J	15-D2415/F	15-D3415/J	15-D3415/F	15-D4415/J
80 mm	15-D2416/J	15-D2416/F	15-D3416/J	15-D3416/F	15-D4416/J
90 mm	15-D2410/J	15-D2410/F	15-D3410/J	15-D3410/F	15-D4410/J
100 mm	15-D2402/J	15-D2402/F	15-D3402/J	15-D3402/F	15-D4402/J
106 mm	15-D2405/J	15-D2405/F	15-D3405/J	15-D3405/F	15-D4405/J
125 mm	15-D2400/J	15-D2400/F	15-D3400/J	15-D3400/F	15-D4400/J
Pan and cover	15-D2004/J	15-D2004/F	15-D3004/J	15-D3004/F	15-D4004/J
Pan only	15-D2003/J	15-D2003/F	15-D3003/J	15-D3003/F	15-D4003/J
Cover only	15-D2002/J	15-D2002/F	15-D3002/J	15-D3002/F	15-D4002/J
Frame only	15-D2001/J	15-D2001/F	15-D3001/J	15-D3001/F	15-D4001/J
Receiver/Separator	15-D2000/J	15-D2000/F	15-D3000/J	15-D3000/F	15-D4000/J

* Apertures conforming also to BS and DIN Standards. See introduction

Test sieves of perforated metal plate

The new European Standards also specify that: "Sieves with aperture size of 4 mm and above shall be perforated plate square hole test sieves. Below that size they shall be woven wire test sieves."

main features

> Each sieve is supplied complete with certificate of conformity

ASTM E11 US Sieve series

Woven wire cloth sieves (coarse)

Aperture mm/in.		Code 8" dia.	Code 12" dia.
100 mm	4 in.	15-D0100/2J	15-D0100/3J
90 mm	3½ in.	15-D0101/2J	15-D0101/3J
75 mm	3 in.	15-D0102/2J	15-D0102/3J
63 mm	2½ in.	15-D0103/2J	15-D0103/3J
53 mm	2.12 in.	15-D0104/2J	15-D0104/3J
50 mm	2 in.	15-D0105/2J	15-D0105/3J
45 mm	1¾ in.	15-D0106/2J	15-D0106/3J
37.5 mm	1½ in.	15-D0107/2J	15-D0107/3J
31.5 mm	1¼ in.	15-D0108/2J	15-D0108/3J
26.5 mm	1.06 in.	15-D0109/2J	15-D0109/3J
25.0 mm	1 in.	15-D0110/2J	15-D0110/3J
22.4 mm	7/8 in.	15-D0111/2J	15-D0111/3J
19.0 mm	3/4 in.	15-D0112/2J	15-D0112/3J
16.0 mm	5/8 in.	15-D0113/2J	15-D0113/3J
13.2 mm	.530 in.	15-D0114/2J	15-D0114/3J
12.5 mm	½ in.	15-D0115/2J	15-D0115/3J
11.2 mm	7/16 in.	15-D0116/2J	15-D0116/3J
9.5 mm	3/8 in.	15-D0117/2J	15-D0117/3J
8.0 mm	5/16 in.	15-D0118/2J	15-D0118/3J
6.7 mm	.265 in.	15-D0119/2J	15-D0119/3J
6.3 mm	1/4 in.	15-D0120/2J	15-D0120/3J
5.6 mm	No. 3½	15-D0121/2J	15-D0121/3J
4.75 mm	No. 4	15-D0122/2J	15-D0122/3J
4.00 mm	No. 5	15-D0123/2J	15-D0123/3J

Woven wire cloth sieves (fine)

Aperture mm/in.		Code 8" dia.	Code 12" dia.
3.35 mm	No. 6	15-D0124/2J	15-D0124/3J
2.8 mm	No. 7	15-D0125/2J	15-D0125/3J
2.36 mm	No. 8	15-D0126/2J	15-D0126/3J
2 mm	No. 10	15-D0127/2J	15-D0127/3J
1.7 mm	No. 12	15-D0128/2J	15-D0128/3J
1.4 mm	No. 14	15-D0129/2J	15-D0129/3J
1.18 mm	No. 16	15-D0130/2J	15-D0130/3J
1 mm	No. 18	15-D0131/2J	15-D0131/3J
850 µm	No. 20	15-D0132/2J	15-D0132/3J
710 µm	No. 25	15-D0133/2J	15-D0133/3J
600 µm	No. 30	15-D0134/2J	15-D0134/3J
500 µm	No. 35	15-D0135/2J	15-D0135/3J
425 µm	No. 40	15-D0136/2J	15-D0136/3J
355 µm	No. 45	15-D0137/2J	15-D0137/3J
300 µm	No. 50	15-D0138/2J	15-D0138/3J
250 µm	No. 60	15-D0139/2J	15-D0139/3J
212 µm	No. 70	15-D0140/2J	15-D0140/3J
180 µm	No. 80	15-D0141/2J	15-D0141/3J
150 µm	No. 100	15-D0142/2J	15-D0142/3J
125 µm	No. 120	15-D0143/2J	15-D0143/3J
106 µm	No. 140	15-D0144/2J	15-D0144/3J
90 µm	No. 170	15-D0145/2J	15-D0145/3J
75 µm	No. 200	15-D0146/2J	15-D0146/3J
63 µm	No. 230	15-D0147/2J	15-D0147/3J
53 µm	No. 270	15-D0148/2J	15-D0148/3J
45 µm	No. 325	15-D0149/2J	15-D0149/3J
38 µm	No. 400	15-D0150/2J	15-D0150/3J

Pan and cover	15-D0151/2J	15-D0151/3J
Pan only	15-D0152/2J	15-D0152/3J
Cover only	15-D0153/2J	15-D0153/3J
Frame only	15-D0154/2J	15-D0154/3J
Receiver/Separator	15-D0155/2J	15-D0155/3J

Sieve shakers

Digital Air Jet sieve shaker

Standards EN 933-10

15-D0413
Digital Air Jet sieve shaker.
230 V, 50-60 Hz, 1 ph

This apparatus is ideal for dry sample grading of powders, fragile samples and material with particle sizes from 5 µm to 4 mm that cannot be wet sieved. The device achieves highly effective sieving thanks to the air flow which forces fine particles to pass through the sieve by producing a controlled suction effect.

The Air Jet shaker is manufactured from anodized aluminium with a polyurethane resin shell. It has a digital control panel with a timer and vacuum meter and also features a suction regulation valve so that multiple tests can be performed with the same time and suction conditions. The shaker is supplied with a vacuum unit capable of producing a negative pressure of up to -20 kPa. The special airtight sieves are not included and have to be ordered separately (see accessories).

Technical specifications

- Sieving range: from 5 µm to 4 mm
- Product motion: airstream
- Minimum pressure: -20 kPa
- Time display: 1-99 minutes
- Sieve capacity: One 200 mm diameter
- Sieve (see accessories)
- Power rating: 1200 W (approx.)
- Voltage*: 230 V, 50-60 Hz, 1ph
- Total weight: 25 kg (approx.)
- *110 V, 60 Hz, available on request

15-D0413 with sieves

Accessories

Air Jet test sieves, 200 mm diameter:

Nylon cloth mesh type

Model 15-D0413/	Mesh size
005	5 µm
010	10 µm
015	15 µm
020	20 µm
025	25 µm
028	28 µm

Stainless steel mesh type

Model 15-D0413/	Mesh size
030	30 µm
037	37 µm
041	41 µm
048	48 µm
050	50 µm
053	5 3 µm
055	55 µm
058	58 µm
060	60 µm
063	63 µm
065	65 µm
070	70 µm
071	71 µm
075	75 µm
080	80 µm
090	90 µm
100	100 µm
106	106 µm
112	112 µm
125	125 µm
140	140 µm
150	150 µm

Model 15-D0413/	Mesh size
160	160 µm
180	180 µm
200	200 µm
212	212 µm
224	224 µm
250	250 µm
280	280 µm
300	300 µm
315	315 µm
355	355 µm
400	400 mm
425	425 µm
450	450 µm
500	500 µm
560	560 µm
600	600 µm
630	630 µm
710	710 µm
800	800 µm
850	850 µm
900	900 µm
1000	1.00 mm

Spares

15-D0413/1
Pack of 5 replacement bags for vacuum unit

15-D0413/2
Reusable plastic bag for vacuum unit

Sieve shakers

Standards EN 932-5

Electro-mechanical sieve shaker 15-D0410, 15-D0410/A series

This new electro-mechanical shaker combines efficient sieving action with a simple but heavy duty design.

The shaker must be secured to the base cabinet using the four holes in the base. Alternatively, if floor-mounting the shaker, it can be fitted with the Steel base plate for better stability. A Noise reduction cabinet is also available for housing the shaker. See accessories.

Two versions of this shaker are available:

15-D0410, for sieves up to 315 mm diameter, and 15-D410/A, for sieves up to 450 mm diameter.

15-D0410 with sieves *15-D0410/A with sieves*

main features

- Dual effect electro-mechanical sieving
- High sieve capacity
- Accommodates sieves up to 315 mm (15-D0410) and 450 mm dia. (15-D410/A)
- Ergonomic and fast clamping system
- Timer function included
- Noise reduction cabinet available. See accessories.
- Wet sieving attachments available. See accessories

Ordering information

15-D0410

Electro-mechanical sieve shaker for sieves up to 315 mm diameter. 230 V, 50 Hz, 1 ph.

15-D0410/Y
As above but 220 V, 60 Hz, 1 ph.

15-D0410/Z
As above but 110 V, 60 Hz, 1 ph.

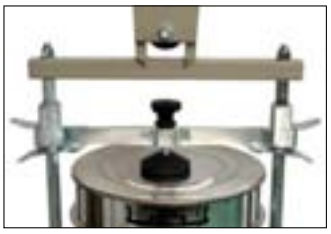
15-D0410/A

Electro-mechanical sieve shaker for sieves up to 450 mm diameter. 230 V, 50 Hz, 1 ph.

15-D0410/AY
As above but 220 V, 60 Hz, 1 ph.

15-D0410/AZ
As above but 110 V, 60 Hz, 1 ph.

Model 15-	D0410 D0410/Y D0410/Z	D0410/A D0410/AY D0410/AZ
Max no. of sieves / diameter, mm	12 / 200 - 203 10 / 300 - 315	10 / 200 - 203 8 / 300 - 315 6 / 450
Power, W	200	200
Timer scale, minutes	30	30
Dimensions, mm (w x d x h)	660 x 500 x 1510	740 x 640 x 1510
Weight, kg (approx.)	60	70



Detail of the fast clamping system

Accessories

15-D0400/CB

Noise reduction cabinet for the 15-D0410 shaker. Ideal for reducing noise in the laboratory and essential for working within CE limits. The cabinet is manufactured from sheet steel and lined internally with soundproofing material.
Overall dimensions: 870 x 672 x 1562 mm (w x d x h)
Weight: 90 kg (approx.)

15-D0410/1

Steel base plate for floor-mounting the 15-D0410 shaker.

15-D0410 installed inside the Noise reduction cabinet 15-D0400/CB. Easy ergonomic double access door and foldable top cover

Detail of the adjustable base for 200 to 450 mm diameter sieves

Electro-mechanical, triple motion sieve shaker 15-D0411 series

This shaker features a unique combination of jarring and rotational action, providing superb sieving and grading performance. It can be completed with the noise reduction cabinet and wet sieving accessories. See accessories.

Technical specifications

- Sieve capacity:
- up to ten 200 - 203 mm (8") diameter sieves plus pan and cover;
- up to six 300 - 315 mm (12") diameter sieves plus pan and cover
- Maximum sample weight: from 1500 to 4500 g depending on the sieve size
- Rotational action: 327 oscillations per minute (approx.)
- Jarring action: 40 vertical blows per minute
- Power: 250 W
- Dimensions: 540 x 372 x 1013 mm (w x d x h)
- Weight: 75 kg (approx.)

Ordering information

15-D0411

Electro-mechanical, triple motion sieve shaker. 230 V, 50-60 Hz, 1 ph.

15-D0411/Z
As above but 110 V, 60 Hz, 1 ph.

15-D0411

main features

- > Vertical two way jarring action
- > Rotational action
- > Quick release clamps
- > Robust and efficient sieving motion
- > Timer included

15-D0407/B

Electro-magnetic sieve shaker 15-D0407/B series

15-D0407/B

Electromagnetic sieve shaker.
230 V, 50-60 Hz, 1 ph.

15-D0407/BZ
As above but 110 V, 60 Hz, 1 ph.

This unit has a vertical sieving motion provided by a very effective electro-magnetic unit.

The shaker has a built-in timer, and can be used with the wet sieving attachment for washing fine materials through the sieves without any loss of sample. The noise reduction cabinet is recommended for use in CE countries. See accessories.

Technical specifications

- Sieve capacity:
- up to twelve 203 mm (8") diameter sieves plus pan and cover;
- up to eight 300 - 315 mm (12") diameter sieves plus pan and cover
- Power: 400 W (approx.)
- Dimensions: 496 x 406 x 946 mm (w x d x h)
- Weight: 30 kg (approx.)

Accessories

15-D0400/CAB

Noise reduction cabinet for 15-D0407 and 15-D0411 shakers.
Ideal for reducing noise in the laboratory and essential for working within CE limits. The cabinet is manufactured from sheet steel and is lined internally with soundproofing material.

- Overall dimensions: 770 x 772 x 1415 mm (w x d x h)
- Weight: 60 kg (approx.)

Wet sieving attachments (for all sieve shakers)

This set comprises a locking lid with a spray nozzle, a stainless steel base pan with a drainage plate and spout, a location plate and 10 watertight seals (O-rings). Three models are available:

15-D0400/A1

Wet sieving attachment for 200 mm diameter sieves. Weight 2.5 kg (approx.).

15-D0400/A2

Wet sieving attachment for 203 mm (8") diameter sieves. Weight 2.5 kg (approx.).

15-D0400/A3

Wet sieving attachment for 300 mm diameter sieves. Weight 5 kg (approx.).

15-D0400

High capacity Shaker and Screen trays

Standards EN 932-5

High capacity screen shaker

15-D0420/A

High capacity mechanical screen shaker.
230 V, 50-60 Hz, 1 ph.
15-D0420/AZ
As above but 110 V, 60 Hz, 1 ph.

The screen shaker has a capacity of about 30 litres (1 ft^3) of sample and is ideal for sizing large quantities of crushed stones, sand, gravel, slag, coal, coke, ores, pellets and similar materials. Able to perform between two and six separations simultaneously, the vibrating unit consists of interlocking sections, which support and separate the screen trays. An equal clearance between trays allows each tray to be removed independently. The unit can hold six screen trays (which are ordered separately - see Screen trays) of 457 x 660x 75 mm size, and one dustpan. For a complete system adhering to CE country regulations, use of the soundproof safety cabinet is recommended. See accessories.

Technical specifications

- Power: 250/300 W (250 W at 220 V, 60 Hz)
- Overall dimensions: 548 x 787 x 850 mm (w x d x h) (approx.)
- Tray dimensions: 457 x 660 x 75 mm
- Sample capacity: up to 30 litres (1ft^3)
- Weight: 170 kg (approx.)

15-D0420/A with trays

15-D0420/A fitted with15-D0420/A1 Dust cover

main features

- Can separate up to 30 litres (1ft^3) of aggregates (approx. 65 kg)
- Also suitable for sizing crushed stones, slag, coal, coke, ores, pellets etc.
- Large selection of screen trays available, ASTM and EN standards. See Screen trays.

15-D0420/A installed inside cabinet 15-D0420/A2

Accessories

15-D0420/A2

Soundproof safety cabinet, manufactured from sheet steel and lined internally with soundproofing material to reduce noise and for protection from dust. Complete with electrical safety device which automatically stops the machine when the door is opened. The control panel of the shaker is mounted inside the cabinet.
Overall dimensions:
900 x 900 x 1250 mm (w x d x h) (approx.)
Weight approx: 120 kg

15-D0420/A1

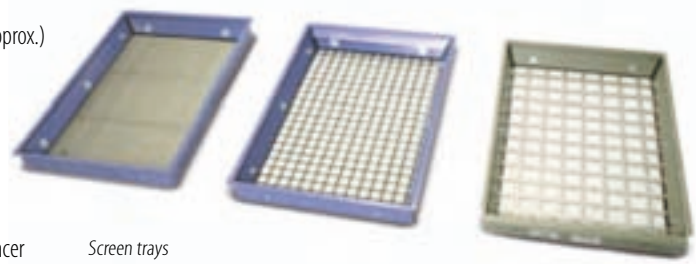
Dust cover.

15-D0428/10

Tray only, without mesh. Used as spacer between trays.

15-D0428/09

Dustpan tray.



Screen trays

Screen trays for use with 15-D0420/A Shaker

Made from steel, the trays are available in several versions:
ASTM E11, woven wire mesh: coarse, intermediate, fine and fine with reinforced mesh, made from stainless steel;
ISO 3310-1 and 3310-2: woven wire stainless steel mesh and perforated steel metal plate.

Tray dimensions:
457 x 660 x 75 mm (w x d x h)
Weight: 6.5 kg (approx.)

Screen trays conforming to ASTM E11

Woven wire mesh type

15-D0425 Coarse series

Model 15-D0425/	Mesh opening	
	mm	inches
01	101.6	4
02	90.5	3 ½
03	76.1	3
04	64.0	2½
05	53.8	2.12
06	50.8 (•)	2
07	45.3	1¾
08	38.1 (•)	1½
09	32.0	1¼
10	26.9	1.06
11	25.4 (•)	1
12	22.6	7/8
13	19.0 (•)	3/4
14	16.0	5/8
15	13.5	.530
16	12.7 (•)	1/2
17	11.2	7/16
18	9.51	3/8
19	8.00	5/16
20	6.73	.265
21	6.35	1/4
	mm	US Std
22	5.66	No.3½
23	4.76	No. 4

(•) Standard set recommended by ASTM

15-D0426 Intermediate series

Model 15-D0426/	Mesh opening	
	mm	US std
01	4.00	No. 5
02	3.36	No. 6
03	2.83	No. 7
04	2.38	No. 8
05	2.00	No. 10
06	1.68	No. 12
07	1.41	No. 14

15-D0427 Fine series

Model 15-D0427/	Mesh opening	
	mm	US std
01	1.190	No. 16
02	1.000	No. 18
03	0.841	No. 20
04	0.707	No. 25
05	0.595	No. 30
06	0.500	No. 35
07	0.420	No. 40
08	0.354	No. 45
09	0.297	No. 50
10	0.250	No. 60
11	0.210	No. 70
12	0.177	No. 80
13	0.149	No. 100

15-D0428 Fine series with reinforced mesh

Model 15-D0428/	Mesh opening	
	mm	US std
01	0.125	No. 120
02	0.105	No. 140
03	0.088	No. 170
04	0.074	No. 200

Screen trays conforming to ISO 3310-1

Woven wire mesh type

15-D0427 Series

Model 15-D0427/	Mesh opening
E02	80 µm
E04	100 µm
E08	160 µm
E10	200 µm
E12	250 µm
E14	315 µm
E15	355 µm
E16	400 µm
E20	630 µm
E22	800 µm
E26	1.25 mm
E28	1.60 mm
E34	3.15 mm

Screen trays conforming to ISO 3310-2

Perforated metal plate type

15-D0425 Series

Model 15-D0425/	Nominal aperture
	mm
E04	4.0
E05	5.6
E08	7.1
E09	8.0
E12	10.0
E13	11.2
E14	12.5
E16	14.0
E17	16.0
E18	18.0
E19	20.0
E20	22.4
E24	31.5
E26	40.0
E28	50.0
E30	56.0
E31	63.0
E33	80.0

Wet washing sieves | Ultrasonic cleansing apparatus | Sieve brushes

Wet washing sieves

Standards ASTM E11

Used for wet sieving fine granular materials, these sieves have a stainless steel frame and woven mesh base and are available in 200 mm and 203 mm (8") diameter versions, 100 or 200 mm high, with75 or 63 µm mesh size.

Weight: 0.5 kg (100 mm high versions), 0.9 kg (200 mm high versions) (approx.).

100 mm high versions

15-D0160
Wet washing sieve, 203 mm (8") diameter, 75 µm opening.

15-D0160/1
As above but 200 mm diameter.

15-D0160/2
Wet washing sieve, 200 mm diameter, 63 µm opening.

200 mm high versions

15-D0160 /A
Wet washing sieve, 203 mm (8") diameter, 75 µm opening.

15-D0160/A1
As above but 200 mm diameter.

15-D0160/A2
Wet washing sieve, 200 mm diameter, 63 µm opening.

Ultrasonic cleansing apparatus

15-D0405
Ultrasonic cleansing apparatus for sieves up to 203 mm (8") diameter. 230 V, 50-60 Hz, 1 ph.

15-D0405/B
Ultrasonic cleansing apparatus for sieves up to 315 mm diameter. 230 V, 50-60 Hz, 1 ph.

Used to thoroughly clean test sieves without causing distortion, this apparatus is particularly suitable for fine mesh sieves which could be damaged by ordinary cleaning methods (using brushes or knocking the frame). Complete with timer, sieve rack and lid.

Two models are available: 15-D0405, suitable for 200 and 203 mm (8") diameter sieves and 15-D0405/B suitable for sieves up to 315 mm diameter.

Accessories

15-D0405/3
Cleaning liquid, 5 litre can.

15-D0405


15-D0405/B

Models 15-	Power, W	Internal tank dimensions mm, (diameter x height)	Weight, kg (approx.)
D0405	240	245x130	6
D0405/B	500	410x200	10


15-D0160/A, 15-D0160

Sieve Brushes

86-D1672
Soft hair brush, 3 mm diameter (BS 812).

86-D1673/G
Brass sieve brush.

86-D1673/G1
Double ended brass/nylon sieve brush.

86-D1675
Round bristle brush, 33 mm diameter.

86-D1685
Nylon sieve brush 33 mm diameter.

86-D1685/G
Double ended nylon sieve brush.


86-D1685, 86-D1675, 86-D1672, 86-D1673/G1, 86-D1685/G