



Fisher Scientific Accuspin™ Micro 17 and Micro 17R

Economical high-speed microcentrifuges



- » High-speed performance for most common laboratory protocols such as DNA/RNA isolation
- » Spins up to 13,300 rpm (17,000 x G)
- » Small footprint
- » Included 24 x 1.5/2.0mL rotor with ClickSeal biocontainment lid
- » Touch keypad and bright LED digital display
- » Refrigerated Micro 17R for temperature sensitive samples with set range from -9° to +40°C
- » Adjustable timer from 1 min to 99 min + HOLD mode

Specifications

| Model | Micro 17 | Micro 17R |
|------------------------------|---|---|
| Max. capacity | 24 x 1.5/2.0mL | 24 x 1.5/2.0mL |
| Max. speed (rpm) | 13,300 | 13,300 |
| Speed range | 2,000–13,300 rpm adjustable in 100 rpm increments | 2,000–13,300 rpm adjustable in 100 rpm increments |
| Max. RCF (g-force) | 17,000 | 17,000 |
| Drive | Frequency-controlled brushless induction | Frequency-controlled brushless induction |
| Control | Microprocessor controlled | Microprocessor controlled |
| Program memory | Memory retains most-recent settings | Memory retains most-recent settings |
| Dimensions (H x W x D) in/cm | 8.86 x 9.56 x 13.8 in/ 22.5 x 24.3 x 35.2 cm | 12.9 x 11.6 x 17.5 in/ 33 x 29.5 x 44.5 cm |
| Weight (without rotor) lb/kg | 23 lb/10.5 kg | 62 lb/28 kg |
| Run time | 1–99 min. continuous operation, quick-run | 1–99 min. continuous operation, quick-run |
| Temperature range | n/a | -9° to +40°C |
| Safety | Lid locks and lid interlocks | Lid locks and lid interlocks |
| Noise level at max. speed | <56dB(A) | <50dB(A) |
| Power consumption | 180w | 330w |
| Certifications | CSA, CE, IVD | CSA, CE, IVD |

Sleek and compact, the Accuspin Micro 17 and Micro 17R are small enough to fit on the benchtop or in the hood, and pack more than enough power for all your microliter separation processes. Process more samples in less time with fast acceleration and deceleration rates.

Both models are supplied with a 24-place microliter rotor with the exclusive ClickSeal biocontainment lid which “clicks” when a proper seal has been made, providing assurance that your samples are securely contained.

The user-friendly interface has a bright LED screen, which is easy to read even from across the room. Controls are intuitive touch sensitive icons with a flat control panel making cleaning and decontamination easy.

The refrigerated Micro 17R features stand-still cooling to protect samples from freezing and maintains constant temperatures from 0° to 40°C, even during longer runs.

Compact, quiet, and easy-to-use, the Micro 17 and Micro 17R are designed to give you years of dependable service.

Micro 17R



Micro 17



24 x 1.5/2.0ml Replacement Rotor

Ordering Information

| Description | Catalog Number |
|---------------------------------------|----------------|
| Micro 17 (120V, 60Hz)* | 13-100-675 |
| Micro 17R (120V, 60Hz) refrigerated* | 13-100-676 |
| 24 x 1.5/2.0ml Replacement Rotor | 05-375-109 |
| ClickSeal Replacement Lid | 05-375-107 |
| 24 adapters for 0.6/0.5mL microtubes | 76-003-758 |
| 24 adapters for 0.4/0.25mL microtubes | 76-003-759 |
| 24 adapters for 0.2mL microtubes | 76-003-750 |

* Both models come standard with 24-place rotor ClickSeal Biocontainment lid.

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Fisher Scientific™ accuSpin™ Micro 17/Micro 17R Microcentrifuges GSR/VA

Compact, economical high-speed microcentrifuges, ideal for nucleic acid research and other microliter volume separations

\$2082.83 - \$5735.33

Specifications

| | |
|------------|-------------------|
| Capacity | 24 x 1.5/2mL |
| Hertz | 60Hz |
| Max. RCF | 17,000/17,999 x G |
| Max. Speed | 13,300rpm |
| Voltage | 120V |

[View More Specs](#)

Includes : Rotor and biocontainment lid

Feedback

[Products](#) 2[Description & Specifications](#)

- Capacity: 48mL (24 x 1.5/2mL tubes)
- Maximum speed/RCF: 13,300rpm/17,000xG
- Ventilated or refrigerated models
- Easy-to-use controls with digital display
- Adjustable 99 minute timer and quick-spin feature for short runs
- Memory retains last setting for repeatable runs

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Specifications

Capacity
24 x 1.5/2mL

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- Supplied with rotor and biocontainment lid

Micro 17

- Ventilated

Micro 17R

- Refrigerated
- Temperature range -9° to +40°C

Order Info

Replacement microliter rotor (13-100-679), lid (13-100-681), and optional 4 x 8 PCR rotor (13-100-680) available separately.

Warranty

One year, parts and labor

This product(s) resides on a Fisher Scientific GSA or VA contract. If you are viewing this page as a nonregistered user, the price(s) displayed is List Price. To view your GSA or VA contract pricing, log in using your account number, or become a registered user by contacting one of our Customer Service teams. You can also view your contract price by searching for this item(s) on GSA Advantage. To place an order, contact Fisher Scientific Customer Service.

Hertz

60Hz

Max. RCF

17,000/17,999 x G

Max. Speed

13,300rpm

Voltage

120V

Display

LED

Electrical Requirements

120V 60Hz

Noise Level

<56dBA

Refrigerated

Yes

Rotor Included

Yes

Timer

1 to 99 min.

Feedback

How can we improve this product information?

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Fisher Scientific™ Analog Vortex Mixer

Variable speed, analog control that allows low rpm start-up for gentle shaking or high-speed mixing for vigorous vortexing of samples

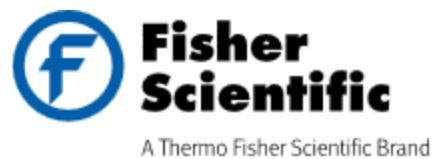
Catalog No. 02-215-414

Includes: Includes both cup head and 3" head with cover. 72 inch (183cm), 3-wire cord and plug.



Specifications

| | |
|---------------------------------|---|
| Speed | 300 to 3200rpm |
| Height (English) Exterior | 5 in. |
| Length (English) Exterior | 7.97 in. |
| Width (English) Exterior | 4.75 in. |
| Height (Metric) Exterior | 12.7cm |
| Length (Metric) Exterior | 20.2cm |
| Width (Metric) Exterior | 12.1cm |
| Shipping Weight (English) | 10 lbs |
| Shipping Weight (Metric) | 4.5kg |
| Voltage | 120V |
| Amperage | 1.2 amps |
| Plug Type | US |
| Warranty and Service | 5 year limited warranty on parts and labor. |
| Offering | |
| Includes | Includes both cup head and 3 inch head with cover. Supplied with a 72 inch, 3-wire cord and plug. |
| Orbit | 4.9mm |
| Wattage | 120V |
| Weight (English) | 10 lb. |
| Weight (Metric) | 4.5kg |
| Dimensions (L x W x H) Exterior | 7.97 x 4.75 x 5 in. (20.2 x 12.1 x 12.7 cm) |



| | |
|-------------------------|---|
| Electrical Requirements | 120V, 1.2 amps, 150 watts |
| Length (Metric) | 20.2cm |
| Length (English) | 7.97 in. |
| Width (English) | 4.75 in. |
| Height (English) | 5 in. |
| Width (Metric) | 12.1cm |
| Height (Metric) | 12.7cm |
| Warranty | 5 year limited warranty on parts and labor. |



Fisher Scientific™ Vortex Mixer Accessories Kits

Tube Holder Kit with Retainer

- Includes 3 tube holders (for 9-13mm, 14-19mm, and 20-25mm tubes), one flat foam insert, two vessel harnesses and one insert retainer (Cat. Nos. 02-215-393, -394, -395, -397, -392, -391)

Microtube and Microwell Plate Holder Kit with Retainer

- Includes one microtube holder, one microwell plate holder, and one insert retainer (Cat. Nos. 02-

215-386, -387, -391)

Microtube Kit:

- Mixes (48) 0.25 to 2mL micro tubes; includes foam insert and insert retainer

Microwell Plate Kit:

For mixing 96-well plates or deep well blocks; includes foam insert and insert retainer

Specifications

Diameter (Metric) 9 to 25mm

Outer

For Use With Vortex mixer

Type Foam Tube Holder Kit with Retainer

Includes Holder for 9 to 13mm, 14 to 19mm and 20 to 25mm tubes, flat form insert, vessel harness, insert retainer



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Fisher Scientific™ Analog MultiTube Vortexer



Catalog No. 02-215-450

Mix up to 50 samples at once

Includes: One 50-place foam rack for 12mm test tubes, one tray pad set for mounting and support plates, 92 in. (234cm) detachable three-wire cord and plug (230V models supplied with European-type plug)

Vortexing action is created by holding the top tray of the vessel securely in place while the bottom tray moves freely in a defined, 3.6mm eccentric orbit.

- Powerful permanent, continuous-duty motor delivers quiet, rattle-free mixing
- Top plate adjusts along two stainless-steel posts; removable for easy sample access
- Rugged corrosion-resistant, stainless-steel base
- Suction-cup feet dampen motion and prevent sliding
- Orbit: 3.6mm
- Speed range: 1200-2400rpm
- Automatic timer (0 to 60 sec. for simple repeat procedures)

Certifications

UL, CUL listed; CE marked.

Warranty

Two year limited



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Specifications

| | |
|------------------------------------|--|
| Speed | 500 to 2500rpm |
| Tube Capacity | 50.0 |
| Shipping Weight (English) | 42 lb. |
| Shipping Weight (Metric) | 19kg |
| Amperage | 5A |
| Certifications/Compliance | UL, CUL, CE |
| Controller Type | Analog |
| Display | LEDLED |
| Includes | 50-place Foam rack, one tray pad set, 92 in. detachable three-wire cord and plug |
| Orbit | 3.6mm |
| Timer | 1 to 60 sec. |
| Type | Multitube vortexer |
| Wattage | 100w |
| Dimensions (L x W x H) Exterior | 9.5 x 15 x 16 in. (24.1 x 38.1 x 40.6cm) |
| Electrical Requirements | 120V 50/60Hz |
| Warranty | 2 Years |

High-throughput Weighing Made Easy



Proper Positioning

The SmartGrid weighing pan and ErgoClip container holders allow the secure positioning of different shaped tare vessels. The SmartGrid weighing pan minimizes the effects of air turbulence so that stabilization time is reduced.



Easy Access

The user can open each door from both sides. This allows easy access to the balance, and the user's preferred hand stays free for dosing.



Fast Weighing

Dosing through the small aperture of the MinWeigh Door straight into the flask shortens stabilization and weighing times. Very low minimum weights can be determined even under harsh conditions.



Intuitive Operation

The user-friendly touchscreen makes using the balance intuitive and easy. Time and effort required for typing and programming tasks are reduced to a minimum.



XS Analytical Balances Excellence in Efficiency

The Excellence XS Analytical Balance Line with its innovative accessories sets new standards for fast and efficient weighing processes.

The unique SmartGrid weighing pan shortens stabilization time and the high performance weighing cell ensures accurate and repeatable results. ErgoClips allow direct dosing and avoid sample transfer errors, resulting in significant cost savings, particularly for valuable materials. The touchscreen display with configurable operation fields and other application-specific solutions enable ergonomic weighing processes. Efficiency is increased, saving additional working time.

- Easy and accurate dosing
- Intuitive operation
- Fast and efficient weighing processes

METTLER TOLEDO XS Analytical Balances – focused on high productivity.

METTLER TOLEDO

XS Analytical Balances

Excellence in Efficiency

Technical data

| Models | XS105DU | XS205DU | XS64 | XS104 | XS204 | XS204DR |
|---|----------------|----------------|----------------|----------------|----------------|----------------|
| Part No. | 11106009 | 11106000 | 11106015 | 11106012 | 11106003 | 11106006 |
| Limit values | | | | | | |
| Maximum capacity | 120 g | 220 g | 61 g | 120 g | 220 g | 220 g |
| Maximum capacity, fine range | 41 g | 81 g | — | — | — | 81 g |
| Readability | 0.1 mg | 0.1 mg | 0.1 mg | 0.1 mg | 0.1 mg | 1 mg |
| Readability, fine range | 0.01 mg | 0.01 mg | — | — | — | 0.1 mg |
| Repeatability (at nominal load) ¹⁾ | 0.1 mg (100 g) | 0.1 mg (200 g) | 0.1 mg (60 g) | 0.1 mg (100 g) | 0.1 mg (200 g) | 0.7 mg (200 g) |
| Repeatability (at low load) ¹⁾ | 0.05 mg (10 g) | 0.05 mg (10 g) | 0.07 mg (10 g) | 0.07 mg (10 g) | 0.07 mg (10 g) | 0.5 mg (10 g) |
| Repeatability (at low load), fine range ¹⁾ | 0.02 mg (10 g) | 0.02 mg (10 g) | — | — | — | 0.1 mg (10 g) |
| Linearity deviation | 0.2 mg | 0.2 mg | 0.2 mg | 0.2 mg | 0.2 mg | 1 mg |
| Sensitivity offset (test load) ²⁾ | 0.8 mg (100 g) | 0.8 mg (200 g) | 0.9 mg (60 g) | 1 mg (100 g) | 1 mg (200 g) | 1 mg (200 g) |
| Typical values | | | | | | |
| Repeatability ¹⁾ | 0.04 mg | 0.04 mg | 0.04 mg | 0.04 mg | 0.04 mg | 0.4 mg |
| Repeatability, fine range ¹⁾ | 0.01 mg | 0.01 mg | — | — | — | 0.04 mg |
| Minimum weight (according to USP) | 120 mg | 120 mg | 120 mg | 120 mg | 120 mg | 1200 mg |
| Min. weight (acc. to USP), fine range | 30 mg | 30 mg | — | — | — | 120 mg |
| Minimum weight (U=1%, 2 sd) | 8 mg | 8 mg | 8 mg | 8 mg | 8 mg | 80 mg |
| Min. weight (U=1%, 2 sd), fine range | 2 mg | 2 mg | — | — | — | 8 mg |
| Settling time | 1.5 s | 1.5 s | 1.5 s | 1.5 s | 1.5 s | 1.5 s |
| Linearity deviation | 0.13 mg | 0.13 mg | 0.1 mg | 0.13 mg | 0.13 mg | 0.3 mg |
| Sensitivity offset (test load) ²⁾ | 0.4 mg (100 g) | 0.6 mg (200 g) | 0.6 mg (60 g) | 0.6 mg (100 g) | 0.8 mg (200 g) | 0.8 mg (200 g) |

¹⁾ standard deviation (sd); ²⁾ Stability of sensitivity with FACT self-adjustment switched on. Repeatability and minimum weight can be improved by the following measures: selection of appropriate weighing parameters, choice of a better location and use of smaller tare containers.

Accessories

| | |
|---|----------|
| Printer RS-P42 with RS232C connection | 00229265 |
| Printer BT-P42 with wireless Bluetooth connection | 11132540 |
| Foot-operated switch for balance functions | 11106741 |
| ErgoSens: hands-free sensor for balance functions | 11132601 |
| Terminal extension cable, 4.5 m | 11600517 |
| Density Kit | 11106706 |
| Universal AntiStatic Kit, complete | 11107767 |
| MinWeigh Door | 11106749 |
| ErgoClip Flask (measuring flask holder) | 11106764 |
| ErgoClip Tube (tube holder) | 11106784 |
| ErgoClip Titration Basket | 11106883 |
| ErgoClip Weighing Boat | 11106748 |
| ErgoClip Round Bottom Flask | 11106746 |
| ErgoClip Basket small | 11106747 |
| ErgoClip Filter Holder (Ø110 - 150 mm) | 11140185 |
| Evaporation Trap (20 ml) | 11140043 |
| Evaporation Trap (100 ml) | 11138440 |

Standard Equipment:

- GWPEXcellence™ routine testing procedures
- Protect settings with password
- Different weighing units available, plus define your own custom units
- Built-in applications: percent weighing, dynamic weighing, statistics, piece counting, formulation, density determination and factor calculation
- The MinWeigh function warns if the minimum weight requirement is violated
- Operation of the balance can be easily configured to accommodate harsh weighing conditions
- Overload protection
- Removable terminal
- Operates in different languages: EN, DE, FR, IT, ES, RU, JP, CN, CS, PL, HU
- Easy connection to PC software



Variable Connectivity

The second interface offers seven options for easy integration into individual workflows.

www.mt.com/XS-Analytical

For more information



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GWP®

Good Weighing Practice™

The global weighing guideline GWP® reduces risks associated with your weighing processes and helps you to

- choose the appropriate balance
- reduce costs by optimizing testing procedures
- comply with the most common regulatory requirements

► www.mt.com/GWP

Worry-free Weighing Ergonomic, Reliable and Accurate



Fast Results

SmartGrid™ minimizes the effects of air currents to dramatically reduce stabilization times. Spilled substances fall through the grid and don't influence your weighing results. Continuous weighing with fewer breaks for cleaning is guaranteed.



Easy Cleaning

The full weighing chamber, including SmartGrid and the drip tray underneath, dismantles in seconds and all parts go in the dishwasher.



Ergonomic Dosing

Thanks to the unique ErgoClip accessories, you can dose directly into your tare container in one easy step – this not only speeds up weighing processes but saves valuable substances too.



Intuitive Operation

The touchscreen is bright and clear to read. Fatigue and eye strain are greatly reduced thanks to a terminal that can be adjusted to individual comfort levels – brightness, contrast and the size of the digits are all configurable.



XS Analytical Balances Fast Routine Weighing

The XS analytical balance line, with its innovative accessories, sets new standards for fast and efficient weighing processes. Unique features on XS analytical balances make balance operation as comfortable and as safe as possible.

For example, the special draft shield eliminates strains from awkward dosing processes by enabling you to open the right-hand door with the left hand, or vice versa, so dosing is relaxed and straightforward.

With balance users benefiting from truly ergonomic weighing processes, work can be carried out much faster, increasing productivity in your laboratory.

METTLER TOLEDO XS analytical balances – focused on high productivity.

METTLER TOLEDO

XS Analytical Balances

| Limit Values | XS204DR | XS64 | XS104 | XS204 | XS304 | XS105DU | XS205DU | XS225DU | XS105 |
|--|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Maximum capacity | 220 g | 62 g | 120 g | 220 g | 320 g | 120 g | 220 g | 220 g | 120 g |
| Readability | 0.1 mg | 0.1 mg | 0.1 mg | 0.1 mg | 0.1 mg | 0.1 mg | 0.1 mg | 0.1 mg | 0.01 mg |
| Readability, fine range | 1 mg | - | - | - | - | 0.01 mg | 0.01 mg | 0.01 mg | - |
| Tare range (from ... to) | 0 ... 220 g | 0 ... 62 g | 0 ... 220 g | 0 ... 220 g | 0 ... 320 g | 0 ... 120 g | 0 ... 220 g | 0 ... 220 g | 0 ... 120 g |
| Maximum capacity, fine range | 81 g | - | - | - | - | 41 g | 81 g | 121 g | - |
| Repeatability (nominal) (sd) | 0.7 mg (200g) | 0.1 mg (60g) | 0.1 mg (100g) | 0.1 mg (200g) | 0.1 mg (300g) | 0.1 mg (100g) | 0.1 mg (200g) | 0.1 mg (200g) | 0.1 mg (100g) |
| Repeatability (5% load) (sd) | 0.1 mg | 0.07 mg | 0.07 mg | 0.07 mg | 0.12 mg | 0.02 mg | 0.02 mg | 0.02 mg | 0.02 mg |
| Linearity deviation | 1 mg | 0.2 mg | 0.2 mg | 0.2 mg | 0.2 mg | 0.2 mg | 0.2 mg | 0.2 mg | 0.2 mg |
| Eccentricity (test load) ¹ | 0.3 mg (100 g) | 0.15 mg (100 g) | 0.3 mg (100 g) | 0.3 mg (100 g) | 0.3 mg (100 g) | 0.3 mg (50 g) | 0.3 mg (100 g) | 0.3 mg (100 g) | 0.3 mg (50 g) |
| Sensitivity offset (test weight) | 1 mg (200 g) | 0.9 mg (200 g) | 1 mg (200 g) | 1 mg (200 g) | 1 mg (200 g) | 0.8 mg (100 g) | 0.8 mg (200 g) | 0.8 mg (200 g) | 0.8 mg (100 g) |
| Sensitivity temperature drift ² | 0.00015%/°C | 0.00015%/°C | 0.00015%/°C | 0.00015%/°C | 0.00015%/°C | 0.00015%/°C | 0.00015%/°C | 0.00015%/°C | 0.00015%/°C |
| Sensitivity stability ³ | 0.0002%/a | 0.0002%/a | 0.0002%/a | 0.0002%/a | 0.0002%/a | 0.0002%/a | 0.0002%/a | 0.0002%/a | 0.0002%/a |
| Typical Values | | | | | | | | | |
| Repeatability (5% load) (sd) | 0.04 mg | 0.04 mg | 0.04 mg | 0.04 mg | 0.04 mg | 0.01 mg | 0.01 mg | 0.01 mg | 0.008 mg |
| Linearity deviation | 0.3 mg | 0.1 mg | 0.13 mg | 0.13 mg | 0.15 mg | 0.13 mg | 0.13 mg | 0.13 mg | 0.13 mg |
| Eccentricity (test load) ¹ | 0.16 mg (100g) | 0.06 mg (20g) | 0.16 mg (100g) | 0.16 mg (100g) | 0.16 mg (100g) | 0.15 mg (50g) | 0.16 mg (100g) | 0.1 mg (100g) | 0.1 mg (50g) |
| Sensitivity offset (test weight) | 0.8 mg (200g) | 1.2 mg (200g) | 0.8 mg (200g) | 0.8 mg (200g) | 0.8 mg (200g) | 0.4 mg (100g) | 0.6 mg (200g) | 0.6 mg (200g) | 0.4 mg (100g) |
| USP minimum sample weight (5% load, k=2, U=0.1%) | 82 mg | 82 mg | 82 mg | 82 mg | 120 mg | 20 mg | 20 mg | 20 mg | 16 mg |
| Minimum sample weight (5% load, k=2, U=1%) | 8.2 mg | 8.2 mg | 8.2 mg | 8.2 mg | 12 mg | 2 mg | 2 mg | 2 mg | 1.6 mg |
| Settling time | 1.5 s | 1.5 s | 1.5 s | 1.5 s | 1.5 s | 1.5 s | 1.5 s | 1.5 s | 3 s |
| Settling time, fine range | 1.5 s | - | - | - | - | 3 s | 3 s | 3 s | - |

¹) according to OIML R76; ²) in the temperature range 10 to 30°C; ³) Stability of sensitivity with proFACT self-adjustment switched on; s: seconds; a: year (annum); sd: standard deviation

Features

| | |
|------------------|---|
| Accurate Results | FACT internal adjustment with advanced features |
| | SmartGrid hanging weighing pan SmartTrac dosing guide Big numbers on display Easy cleaning |
| | TestManager embedded software MinWeigh function FACT and GWP history Password protection |
| Seamless Process | LabX ready |

Accessories



ErgoClips

ErgoClip holders enable direct dosing into tare containers. Avoid transfer errors and get the lowest minimum weight.



SmartPrep™

SmartPrep™ single-use, antistatic funnels enable safe and fast weighing-in of powders. Simply weigh, transfer and rinse



Printers

The robust P-50 series lab printers produce archival-quality printouts on paper as well as continuous and peel-off labels.



AntiStatic kits

Pass your sample and tare container through the U-shaped electrode to eliminate electrostatic charge.



Connectivity

In addition to the built in RS232, a second interface provides options for Ethernet, Bluetooth or RS232 connections.

For further information on accessories, please visit www.mt.com/lab-accessories

GWP®
Good Weighing Practice™
www.mt.com/GWP



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Subject to technical changes
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www.mt.com/xs-analytical

For more information



Refrigerator/Freezer Thermometer/Alarm

Catalog No.: 06-664-11 **GSA/VA**

Specifications

| | |
|---------------------------|---|
| Accuracy | ±1°C |
| Certifications | ISO 17025, A2LA, NIST |
| Display Type | LCD |
| For Use With Application | Monitoring temperature in freezers, refrigerators, incubators, heating blocks |
| English Height | 0.75 in. |
| Metric Height | 19mm |
| Includes | Velcro™ and magnetic mounting strip, one AA battery, ABS Plastic case, alarm set in 1° increments alerts user with visual and audible signals if temperature goes out |
| English Length | 2.75 in. |
| Metric Length | 69.85mm |
| Resolution | 1° |
| English Temperature Range | -58° to +158°F |
| Metric Temperature Range | -50° to +70°C |
| English Weight | 4 oz. |
| Metric Weight | 0.11kg |
| English Width | 2.75 in. |
| Metric Width | 70mm |

Scotsman
ICE THE WORLD DEMANDS

AFE424 - 400lb Flake Ice Machine

Self Contained Undercounter Flaker with Storage



Features and Benefits

- Improved design for higher reliability.
- Completely serviceable from the front side.
- Cabinet constructed of durable rust-free rotocast plastic.
- Delivers steady flow of ice for fast recovery of ice supply.
- 7ft. power cord for quick installation.
- 3 piece cabinet is easily removable from the front.
- Front air flow allows for placement in tight spaces.



Slide away access door provides convenient and easy access to ice.



24 Hour Volume Production

| Air Cooled | | Water Cooled | |
|------------------------|------------------|------------------------|------------------|
| 70°F/21°C 50°F/10°C | Air Water | 70°F/21°C 50°F/10°C | Air Water |
| 90°F/32°C 70°F/21°C | | 90°F/32°C 70°F/21°C | |
| 395/180 lb/kg | 250/113 lb/kg | 395/180 lb/kg | 300/136 lb/kg |



Flake Ice



Cools more quickly than other ice forms. Ideal for seafood and produce displays.



Certification



Warranty

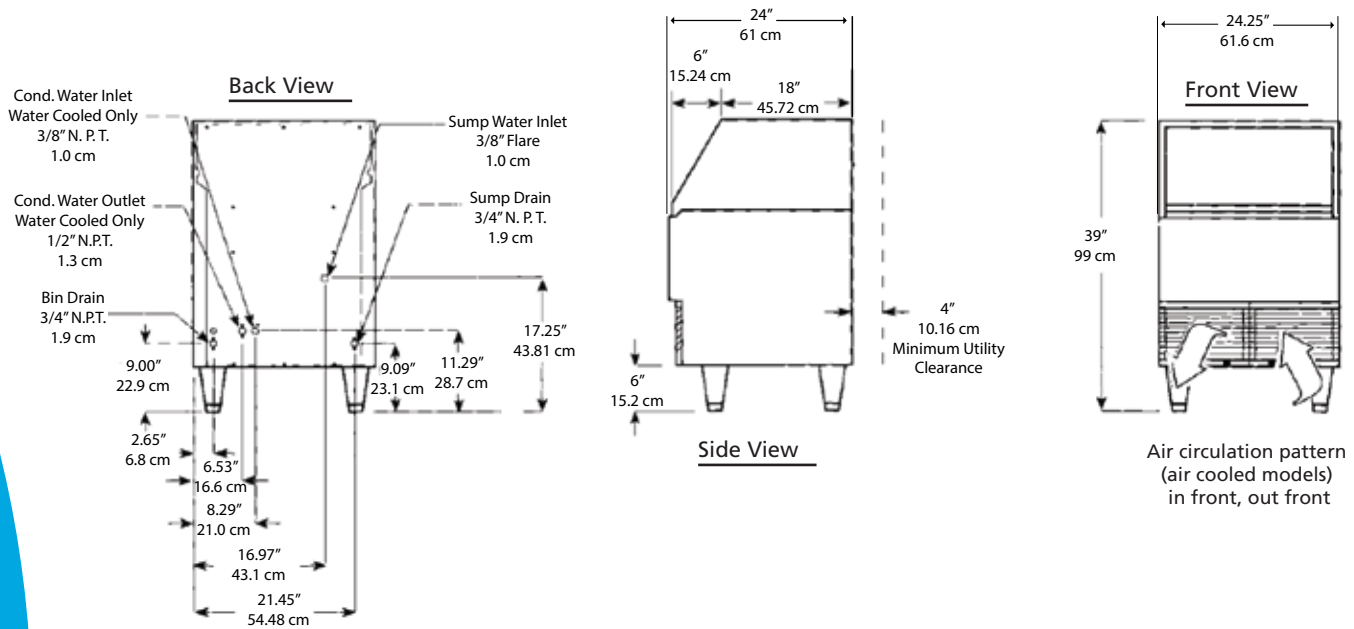
- 2 years parts and labor on all components.
- 5 years parts on the compressor.
- Warranty valid in North, South & Central America for commercial installations.
- Contact factory for warranty in other regions.

Scotsman
ICE THE WORLD DEMANDS

AFE424 - 400lb Flake Ice Machine

Self Contained Undercounter Flaker with Storage

AFE424 - 400lb Flake Ice Machine



Specifications

| Model Number | Condenser Unit | Storage Capacity lb/kg | Basic Electrical Volts/Hz/Phase | Max. Fuse Size or HACR Circuit Breaker (amps) | Circuit Wires | Min. Circuit Ampacity | Energy Consumption kWh/100 lb (45.4 kg) 90°F(32°C)/70°F(21°C) | Water Usage Gallons/100 lb (liters/45.4 kg) | |
|--------------|----------------|------------------------|---------------------------------|---|---------------|-----------------------|---|---|---------------------------------|
| | | | | | | | | Potable 90°F(32°C)/70°F(21°C) | Condenser 90°F(32°C)/70°F(21°C) |
| AFE424A-1 | Air | 80/36 | 115/60/1 | 15 | 2 | Cord | 6.0 | 12.0/45.5 | - |
| AFE424W-1 | Water | 80/36 | 115/60/1 | 15 | 2 | Cord | 5.5 | 12.0/45.5 | 131.0/495.9 |



All Models

Dimensions (W x D x H):

Unit: 24.25" x 24" x 33"
(61.6 x 61.0 x 83.8 cm)

Shipping Carton: 27" x 27.5" x 38"
(68.6 x 69.9 x 96.5 cm)

Shipping Weight: 185lb / 84kg

BTUs per hour: 3,000

Refrigerant: R-134A



Accessories

| Model Number | Description |
|--------------|------------------------------|
| KLP8S | Kit, Leg 6", Stainless Steel |
| KBC1 | Kit, Casters |



Operating Requirements

| | Minimum | Maximum |
|--------------------|-------------------|-------------------|
| Air Temperatures | 50°F (10°C) | 100°F (38°C) |
| Water Temperatures | 40°F (4.4°C) | 100°F (38°C) |
| Water Pressures | 20 PSIG (1.4 bar) | 80 PSIG (5.5 bar) |
| Electrical Voltage | -5% | +10% |

Specifications and design are subject to change without notice.

Scotsman recommends all ice machines have water filtration. See Scotsman water filter specification sheet for details.

Scotsman
ICE THE WORLD DEMANDS

• 775 Corporate Woods Parkway, Vernon Hills, IL 60061 •

• 1-800-SCOTSMAN • Fax: 847-913-9844 • www.scotsman-ice.com • customer.relations@scotsman-ice.com •

Non JA Item 18 (specs or equivalent below) must be compatible with the flake ice machines purchased (Non JA Item 17 - R4650_TCHDTA_49302 ice machine document)

CurranTaylor™ Scotsman™ Filters and Filter Cartridges for Ice Makers GSA/VA

Scotsman™ Filters and Filter Cartridges for Ice Makers keeps ice makers cleaner while reducing failures due to lime scale, dirt, and excessive chlorine.

Manufacturer: CurranTaylor™ ICE120S

- [Specifications](#)
- [Documents](#)

Specifications

| | |
|----------------------------|---|
| Capacity | 34069L (9000 gal.) |
| For Use With (Application) | Provides consistent high quality water for commercial ice by reducing the effects of sediment, chlorine, and odor and scale |
| Includes | Built-in scale inhibitor, sanitary quick change encapsulated cartridge, 0.065 in. FNPT horizontal inlet and outlet ports, head assembly with integral mounting bracket, pressure gauge and single cartridge filter, internal automatic 0.25 turn shut-off valve, NSF performance data sheet |
| Capacity (Metric) | 34069L |
| Certifications/Compliance | NSF, FDA CFR-21 |
| For Use With (Equipment) | Ice makers |
| Capacity (English) | 9000 gal. |
| Product Type | Small System Filter Package |



30.20

The perfect solution for: Exchange System, Par Level Storage, Bulk Storage in Central Supply, Pharmacy Admixture, I.C.U. and E.R. Storage. Baskets have semi-open front for easy access. Dividers adjust horizontally within the basket to accept various sizes of I.V. bags. Continuous label holders identify basket contents.

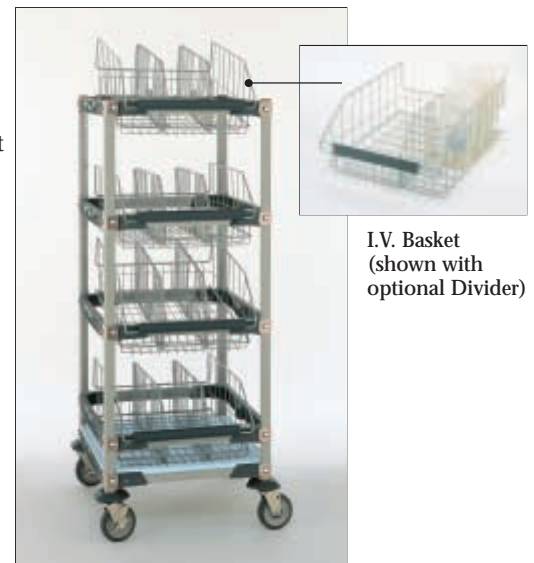
| Description | Width/Length/Height (in.) | | Width/Length/Height (mm) | Total Baskets Per Cart | Casters | Cat. No. |
|--------------------------|------------------------------|---------------|-----------------------------|------------------------------|---------|--------------------|
| Open Cart | 24x24x60 | 610x610x1524 | | 4 | * | MIV1X2 |
| Open Cart with Top Shelf | 24x24x69 | 610x610x1753 | | 4 | * | MIV2X2 |
| Open Cart | 24x42x60 | 610x1066x1524 | | 8 | † | MIV4X2 WT: 280 Lbs |
| Open Cart with Top Shelf | 24x42x69 | 610x1066x1753 | | 8 | † | MIV5X2 |
| Open Cart | 24x60x60 | 610x1524x1524 | | 12 | † | MIV6X2 |
| Open Cart with Top Shelf | 24x60x69 | 610x1524x1753 | | 12 | † | MIV7X2 |

*Four 5" (127mm) poly casters; two swivel, two with brakes.

†5" (127mm) poly casters on dolly frame; two swivel, one swivel with brake, and one rigid.

Accessories

| Description | (in.) | Size (mm) | Cat. No. |
|--------------------------|------------------|--------------|----------|
| Basket with Label Holder | 18 1/2x24 1/2x10 | 470x622x254 | IVB1 |
| Divider | 9 | 229 | IVBD |



I.V. Basket
(shown with
optional Divider)

MIV1X2



Item # _____

Job _____

MetroMax® I.V. TRANSPORT/ STORAGE SYSTEM

The Perfect Solution for:

Exchange System

Par Level Storage

Bulk Storage in Central Supply

Pharmacy Admixture

I.C.U. and E.R. Storage

- **Comprehensive System:** Six models of carts are constructed from a combination of state-of-the-art polymer components and epoxy-coated open-wire baskets and dividers.
- **Easily Accessible:** Baskets have semi-open front for easy access. Baskets fit level on frame for bulk storage or at a 10° angle for stock rotation. Dividers adjust horizontally within the basket to accept various sizes of I.V. bags.
- **Organized/Identifiable:** Dedicate an entire basket or a basket section by I.V. bag content or size. Continuous label holders identify baskets contents. Open-wire construction promotes quick visual inventory.
- **Corrosion-Resistant:** The I.V. Transport/Storage System superstructure is rust and corrosion proof.
- **Strong and Durable:** Reinforced polymers give the cart's superstructure incredible strength, which enhances rigidity and eliminates swaying found in other I.V. storage and transport systems.
- **Easily Maneuverable:** 5" (127mm) casters, two with brakes, roll easily over thresholds and around corners.



MIV4



MIV1



InterMetro Industries Corporation
North Washington Street
Wilkes-Barre, PA 18705
www.metro.com

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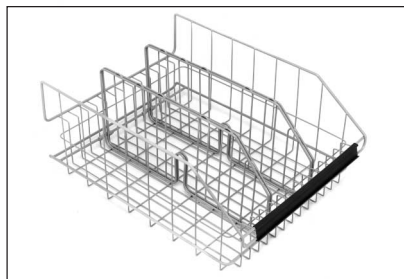


**METROMAX®
I.V. Transport/Storage System**

30.20

Job _____

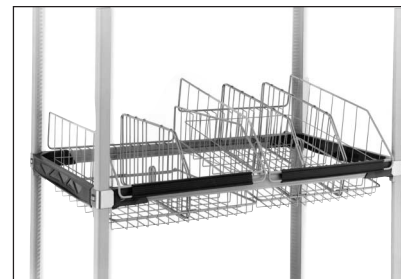
METROMAX® I.V. TRANSPORT/STORAGE SYSTEM



IVB1 (Dividers sold separately)



MIV7



Baskets fit on frames level or at a 10° angle

Dimensions

| Cat. No. | Description | Width (in.) (mm) | | Length (in.) (mm) | | Height (in.) (mm) | | Total Baskets Per Cart | Casters |
|----------|--------------------------|---------------------|-----|----------------------|------|----------------------|------|---------------------------|---------|
| MIV1 | Open Cart | 24 | 610 | 24 | 610 | 60 | 1525 | 4 | * |
| MIV2 | Open Cart w/Top Shelf | 24 | 610 | 24 | 610 | 69 | 1753 | 4 | * |
| MIV4 | Open Cart | 24 | 610 | 42 | 1060 | 60 | 1525 | 8 | † |
| MIV5 | Open Cart w/Top Shelf | 24 | 610 | 42 | 1060 | 69 | 1753 | 8 | † |
| MIV6 | Open Cart | 24 | 610 | 60 | 1525 | 60 | 1525 | 12 | † |
| MIV7 | Open Cart w/Top Shelf | 24 | 610 | 60 | 1525 | 69 | 1753 | 12 | † |

NOTE: Each basket sold with cart includes two dividers.

* Four 5" (127mm) poly casters; two swivel, two with brake.

† 5" (127mm) poly casters on dolly frame; two swivel, one swivel with brake, and one rigid.

Accessories

| Cat. No. | Description | Size (in.) (mm) | |
|----------|-------------------------------|-------------------------|--------------------------|
| IVB1 | I.V. Basket w/Label Holder | 18½ W. x 24½ D. x 10 H. | 470 W. x 622 D. x 254 H. |
| IVBD | Divider | 9 | 229 |

Manufactured by:



InterMetro Industries Corporation

North Washington Street, Wilkes-Barre, PA 18705

Phone: 570-825-2741 • Fax: 570-825-2852

For Product Information Call: 1-800-433-2232

Visit Our Web Site: www.metro.com

L02-148
Rev. 4/01
Printed in U.S.A.

Information and specifications are subject to change without notice. Please confirm at time of order.

IV storage cart salient characteristics

Must be an IV storage cart of the following design:

Open Cart

24x42x60in

Have castors

No more than WT: 300 Lbs when empty unless modified

Ideally provides the following features:

Level Storage , Bulk Storage in Central Supply, Pharmacy mixture, I.C.U. and E.R. Storage . Baskets have semi-open front for easy access.

Dividers adjust horizontally within the basket to accept various sizes of I.V . bags. Continuous label holders identify basket contents.

Strong, durable, corrosion-resistant and easily maneuverable.



A Thermo Fisher Scientific Brand

Amana™ Commercial Microwave Oven: Model: RCS10DS

High-quality, durable construction provides many years of dependable commercial food service use

Manufacturer: Nordon, Inc. RCS10DSE



Specifications

| | |
|---------------------------------|--|
| Amperage | 15A |
| Cabinet Material | Stainless Steel |
| Depth (English) | 19 in. |
| Interior | |
| Depth (Metric) Interior | 48.3cm |
| Dimensions (L x W x H) Exterior | 19 x 22 x 13.75 in. (48.3 x 54.9 x 34.9cm) |
| Height (English) | 13.75 in. |
| Interior | |
| Hertz | 60Hz |
| Height (Metric) | 34.9cm |
| Interior | |
| Shipping Weight (English) | 48.06 lb. |
| Shipping Weight (Metric) | 21.8kg |
| Voltage | 120V |
| Wattage | 1550w |
| Width (English) | 22" |
| Interior | |
| Width (Metric) Interior | 54.9cm |
| Electrical Requirements | 120V 60Hz |
| Includes | Automatic voltage sensor, x2 multiple braille touch pads, removable air filter with clean filter reminder, interior lights, 5 ft. l power cord |
| Plug Type | NEMA 5-15 |
| Product Type | Model: RCS10DS Microwave Oven |

MICROWAVE is needed for reagent heating and R&D-approved protocol use.
MICROWAVE must be high-quality and of durable construction to provides many years of dependable service use

| | |
|---------------------------------|---|
| Cabinet Material | Stainless Steel |
| Depth (English) Interior | 19 in. |
| Depth (Metric) Interior | 48.3cm |
| Dimensions (L x W x H) Exterior | 19 x 22 x 13.75 in. (48.3 x 54.9 x 34.9cm) |
| Hertz | 60Hz |
| Voltage | 120V |
| Wattage | 1550w |
| Electrical Requirements | 120V 60Hz |
| Should Include: | Automatic voltage sensor, x2 multiple braille touch pads, removable air filter with clean filter reminder, interior lights, 5 ft. l power cord |
| Plug Type | NEMA 5-15 |