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INTERNATIONAL
YOUR STATIC CONTROL SPECIALIST

2004 Product Catalog



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AeroBars

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About this Product Catalog

September 2004

This catalog is produced four times a year and distributed on CD ROM.

All information in this catalog is presumed to be accurate and current at the time of publication. Specifications are subject to change without notice.

To request additional copies of this catalog, or to submit feedback about this catalog, contact Ion at info@ion.com.



Ion--the Technology Leader

Since its foundation in 1978, Ion has been recognized as a the technology leader in its field, with leading-edge research scientists, and patented technology.

Ion today is a 100+ employee strong, privately-held company located in Berkeley, California, with offices in Taiwan and Shanghai, China. As an ISO 9001 company, Ion strives to deliver quality ionization solution products that combine over twenty years of research and patented technologies. Ion products offer a complete solution investment and have long been recognized for quality.

For current news and press releases and an in-depth look at the Ion team, please visit www.ion.com.

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CERTIFIED**

Analog AeroBars

AeroBar Model 5285/5285e

BIL-5285

Features

- Pulsed corona DC technology
- Discharge-optimized with emitter point spacing
- Output and balance can be adjusted at each bar
- Variety of lengths
- Model 5285e features an alarm and ion current regulation

Specifications

Size 2.1H x 1.2W x 22, 28, 44, 64, 84L in.
(5.3H x 3.0W x 55.8, 71.1, 111.8,
162.6, or 213.4L cm)

Weight 6 oz per foot of bar length (0.56
kg/m)



AeroBar Model 5685

BIL-5685

Features

- IsoStat technology
- Varying bar lengths
- Can be controlled along with Model 4630 QuadBars from the QuadBar Controller Model 4030

Specifications

Size 2.1H x 1.2W x 11, 22, 44, or 64L in.
(5.3H x 3.0W x 27.9, 55.8, 111.8, or
162.6L cm)

Weight 8.7 oz per foot of bar length
(810g/m)



Digital AeroBars

Digital AeroBar Model 5225

BIL-5225

Features

- Complete integration with process tool
- Fully adjustable digital parameters
- Operates with Interface Module Model 5200-IM6T, which controls up to six ionizers
- Includes software package with open-source sample applications for system integration
- Varying bar lengths: 22, 28, 44, 64, or 84 inches (55.9, 71, 111.8, 162.6, or 213.4 cm)
- AeroBar weight is 1.5 lb for 22" length, 6 oz per added foot (1.02 kg/ 0.17 kg per 30 cm)



Digital AeroBar Model 5585

BIL-5585

Features

- Fully digital communication technology
- e-Diagnostics capability
- Operates with two controller choices and remote controls
- Precise management of AeroBar settings
- Compatible with the 5511 Ceiling Emitter room system

Specifications

- Size** 2.1H x 1.2W x 22, 28, 44, 64, 84 in.
(5.3H x 3.05W x 55.9, 71, 111.8,
162.2, or 213.4L cm)
- Weight** 1.5 lb for 22" length, 6 oz per
added foot (1.02 kg/ 0.17 kg per 30
cm)



Gas Jet AeroBars

Gas Jet AeroBar Model 5290

BIL-5290

Features

- Emitter points continuously sheathed in CDA or N₂
- Low maintenance and cleaner points
- Sealed gas delivery system
- Available with ultraclean emitter points
- Regulated airflow
- Four-nozzle bar or eight-nozzle bar

Specifications

- Size** *Four nozzle: 2.1H x 1.2W x 24L in.*
(5.3H x 3W x 60.9L cm)
Eight nozzle: 2.1H x 1.2W x 36Lin.
(5.3H x 3W x 91.4L cm)
- Weight** *Four nozzle: 1.26 lb (15.1 oz)*
Eight nozzle: 1.72 lb (20.6 oz)



Gas Jet AeroBar Model 5292e-6

BIL-5292

Features

- Control module enables remote management of bar parameters
- Emitter points continuously sheathed in CDA or N₂
- Low maintenance and cleaner points

Specifications

- Size** *Ionizer: 2.1H x 1.2W x 24.5L in.*
(5.33H x 3.05W x 62.2L cm)
Control module: 2.1H x 1.2W x 23.80L in.
(5.33H x 3.05W x 60.45L cm)

Weight 2.1 lb (.91 kg)



AeroBar VF

AeroBar VF Model 5353

BIL-5353

Features

- Fully digital communication technology for close distances of 50 to 300 mm away from the target
- Operates with Interface Module Model 5300-IM2 or Model 5300-IM4D
- May be controlled with Handheld Remote Model 5300-HHR (with IM2 only) or Model 5300-HHR2 (with both IM2 and IM4D)
- Closely spaced, high frequency emitter array
- Multiple bar lengths



Specifications

Size 3.06H x 1.34W x 35.4, 53.1, 64.9, 78.7, or 88.6L in.
(78H x 34W x 900, 1350, 1650, 2000, or 2250 mm)

Weight 3.9 lb (1.75 kg)

BIL-5355

AeroBar VF Model 5355

Features

- Fully digital communication technology for distances starting from 300 mm away from the target
- Operates with Interface Module Model 5300-IM2 or Model 5300-IM4D
- Controlled with the Handheld Remote Model 5300-HHR2
- Multiple bar lengths

Specifications

Size 3.06H x 1.34W x 35.4, 53.1, 64.9, 78.7, or 88.6L in.
(78H x 34W x 900, 1350, 1650, 2000, or 2250 mm)

Weight 3.9 lb (1.75 kg)



AeroBar VF Model 5357

BIL-5357

Features

- Large range of settings for the greatest range of distances
- Operates with Interface Module Model 5300-IM2 or Model 5300-IM4D
- Controlled with the Handheld Remote Model 5300-HHR2
- Multiple bar lengths



Specifications

Size 3.06H x 1.34W x 35.4, 53.1, 64.9, 78.7, or 88.6L in.
(78H x 34W x 900, 1350, 1650, 2000, or 2250 mm)

Weight 3.9 lb (1.75 kg)

Alpha Ionizers

- ▶ ***Benchtop Alpha Blowers***
Model 5802 alpha
- ▶ ***Overhead Alpha Ionizers***
Model 5810 Alpha
- ▶ ***Mini-Environment Alpha Ionizers***
Model 6424a
- ▶ ***Alpha Upgrades***
Model 5801



ION

Benchtop Alpha Ionizers

Critical Environment Ionizing Blower Model 5802 Alpha

BIB-5802A

Features

- Zero balance alpha source (Polonium 210, 100% encapsulated)
- External three position fan speed switch or internal pre-set speed on high
- Power cord lock option
- Standard, locking, or wall mounting stands
- Powder-coat aluminum or stainless steel chassis
- Annual renewal of alpha source required

Specifications

- Size** 10.4H x 7.6W x 5D in.
(27H x 19.3W x 12.7D cm)
- Weight** Aluminum: 3.02 lb (1.12 kg)
Stainless steel: 5.41 lb (2.02 kg)



Overhead Alpha Ionizers

Critical Environment Ionizing Blower Model 5810 Alpha

■ Features

- Zero balance alpha source (Polonium 210, 100% encapsulated)
- External three position fan speed switch or internal pre-set speed on high
- Powder-coat aluminum or stainless steel chassis
- Two blower lengths: 32" (2 fans) and 44" (3 fans)
- Annual renewal of alpha source required

BIO-5810A



■ Specifications

Size 3.11H x 6.1D x 32 or 44 in.
(79H x 154D x 813 or 1016L mm)

Weight 32" *aluminum*: 6.1 lb (2.8 kg)
32" *stainless steel*: 9.8 lb (4.5 kg)
44" *aluminum*: 10 lb (4.5 kg)
44" *stainless steel*: 12.5 lb (5.7 kg)

Mini-Environment Alpha Ionizers

Micro Ionizing Blower Model 6424a

BIB-6424A

■ Features

- Zero balance alpha source (Polonium 210, 100% encapsulated)
- Compact size
- Electro-polished stainless steel chassis
- Alpha sources not required to be tracked by NRC

■ Specifications

Size 2.65H x 1.7W x 2.65D in.
(6.7H x 4.3W x 6.7D cm)

Weight 7 oz (198g)



Alpha Upgrades

Alpha Upgrade Kit Model 5801

BIA-5801A

■ Features

- Low cost upgrade solution
- Zero balance alpha source (Polonium 210, 100% encapsulated)
- Allows easy transition from out-dated ionizers
- Annual renewal of alpha source is required

■ Specifications

Size 1.8H x 5.1D x 5.1L in.
(4.5H x 13D x 13L cm)

Weight *Shell:* 19.7 oz (58.8g)
Alpa cell: 7.33 oz (180.9g)



Ceiling Emitters

▶ ***Analog Emitters***

Model 5509

▶ ***Digital Emitters***

Model 5511

Model 5512



ION

Analog Emitters

Ceiling Emitter Model 5509

BIC-5509

Features

- Patented pulsed DC technology
- Variety of emitter point options
- Visual alarms at emitter; audible alarm at controller
- Powered and set by Controllers Model 5024 or 5084
- Modular and expandable
- Surface or recessed mounting
- Individual and system wide adjustments for ion emission output and feedback alarms



Specifications

Size 1.25H x 1.5D x 17.5L in.
(3.2H x 3.8D x 44.5L cm)

Weight 1.18 lb (0.6 kg)

Digital Emitters

Ceiling Emitter Model 5511

BIC-5511

Features

- Digital control and precise settings
- Variety of emitter point options
- Full system notification from controller, remote control, or handheld terminal
- Customization for existing airflows and environment conditions
- Modular system with e-Diagnostics capability

Specifications

- Size** 1.2H x 1.4W x 17.5L in.
(3.1H x 3.6W x 44.5L cm)
- Weight** 16.4 oz (465g)
- Required components** Remote Control Model 5570 or
Handheld Terminal Model 5571
Controllers Model 5520 or 5580



Ceiling Emitter Model 5512

BIC-5512

Features

- Steady state DC corona ionization
- Ion emission output settings adjusted with the IR Remote Control Model 5570
- Customized to existing airflow
- Controlled by Controllers Model 5024 or Model 5084
- Varied removable emitter rod lengths

Specifications

- Size** 1.2H x 1.4W x 17.5L in.
(3.1H x 3.6W x 44.5L cm)
- Weight** 16.4 oz (465g)
- Options** Emitter rod lengths:
2.5, 5, 10, 15, 24, 36, and
60 inches
- Required components** Remote control Model 5570,
Controllers Model 5024 or 5084



Controllers

▶ **Analog Controllers**

Model 4030

Model 5024

Model 5084

▶ **Digital Controllers**

Model 5520

Model 5580



ION

Analog Controllers

QuadBar Controller Model 4030

BID-4030

Features

- Capacity for up to 16 Model 4630 QuadBars and two Model 5685 IsoStat AeroBars
- One red alarm indicator per QuadBar string
- Facility Monitoring System (FMS) interface built in

Specifications

Size 9.25L x 2.87D x 2.5H in.
(23.5L x 7.3D x 6.4H cm)

Weight 2.9 lb (1.33 kg)



Controller Model 5024

BID-5024

Features

- Four-emitter capacity with Model 5024; 20-emitter capacity with Model 5024e
- Ion emission output adjustable up to 10 seconds
- Model 5024e includes alarm
- Operated with Model 5090 FMS interface attachment

Specifications

Size 12L x 2.25D x 2.5H
(30.5L x 5.7D x 6.4H cm)

Weight 3.25 lb (1.5 kg)



Controller Model 5084

BID-5084

Features

- Eighty-emitter capacity
- Programmable off times
- Emitter alarm monitoring and FMS communications (Model 5084e only)
- Input Module Model 5080 allows easy timing and output setting
- Input Module Model 5080 allows easy timing and output setting



Specifications

Size 15L x 4.5D x 6.75H in
(38.1L x 11.4D x 17.1H cm)

Weight 9.25 lb (4.2 kg)

Digital Controllers

Digital Controller Model 5520

BID-5520

Features

- Twenty-Emitter or AeroBar capacity
- Digital interface on controller allows ion emission, timing, and sync settings
- Handheld Terminal Model 5571 allows full access of settings
- Visual and audible alarms
- Small size fits into tight confines of tools



Specifications

- Size** 2.76W x 2.96H x 12.42L in.
(7.01 x 7.52 x 31.55 cm)
- Weight** 3.5 lb (1.59 kg)

Digital Controller Model 5580

BID-5580

Features

- Eighty-Emitter or AeroBar capacity
- Digital interface on controller allows ion emission, timing, and sync settings
- Handheld Terminal Model 5571 allows full access of settings
- Visual and audible alarms

Specifications

- Size** 4.37W x 6.20H x 13.2L in.
(11.10 x 15.75 x 33.53 cm)
- Weight** 7 lb (3.18 kg)



Critical Environment Ionizers

▶ ***Benchtop Blowers***
Model 5802i
Model 5802 Alpha

▶ ***Overhead Blowers***
Model 5810i
Model 5810 Alpha



ION

Benchtop Blowers

Critical Environment Ionizer Model 5802i

BIB-5802i

Features

- Sensor input achieves ± 1 volt balance
- Stainless steel or aluminum chassis
- Management control features include a power cord lock and internal preset fan speed
- Patent-pending collimator for specific cones of air direction
- Eight emitter points provide more ions

Specifications

- Size** 10.5H x 6.5W x 5D in.
(27H x 17W x 13D cm)
- Weight** *Aluminum:* 3.52 lb (42.36 oz)
Stainless steel: 4.81 lb (76.96 oz)



Overhead Blowers

Critical Environment Ionizing Blower Model 5810i

BIO-5810i

■ Features

- Sensor input achieves ± 1 volt balance
- Management control features include a power cord lock and internal preset fan speed
- Aluminum or stainless steel chassis
- Eight emitter points provide more ions
- Two lengths: 40 and 44" (101.6 and 111.8 cm)



■ Specifications

Size 3.1H x 6W x 40 or 44L in.
(7.87H x 15.24W x 101.6 or 111.76L cm)

Weight *Aluminum (44")*: 10.25 (4.55 kg)
Stainless steel (44"): 14.85 lb (6.74 kg)

General Electronics Blowers

▶ **Wide Coverage**

Model 6460

▶ **Benchtop and Local Area Blowers**

Model 6420

Model 6421

Model 6432

Model 6442



ION

Full Coverage Blowers

Full Coverage Ionizing Blower Model 6460

BIO-6460

■ Features

- IsoStat technology
- Two-speed fans
- Optional Auto-Clean System
- Achieves a discharge time of < 8 seconds at 24" from the blower



■ Specifications

Size 36L x 6W x 4H inches
(91.44L x 15.4W x 10.16H cm)

Weight 8 lb (3.6 kg)

Benchtop and Local Area Blowers

Point of Use Ionizing Blower Model 6420

BIB-6420

■ Features

- IsoStat technology
- Shielded emitter points
- Compact design is ideal for IC packaging and marking, device testing, circuit board assembly, medical device, and film processing applications

■ Specifications

- Size** 4.5H x 3.3W x 2.5D in.
(11.4H x 8.4W x 6.4D cm); 5" (12.7 cm)
high with bracket
- Weight** 0.75 lb (341 g)



Point of Use Ionizing Blower Model 6421

BIB-6421

■ Features

- IsoStat technology
- Shielded emitter points
- Battery operated with quick recharging power pack

■ Specifications

- Size** 4.5H x 3.3W x 2D in.
(11.4 x 8.4 x 5.1 cm)
- Weight** 7.7 oz (220g) with mounting stand;
12 oz (345g) without stand
- Power Pack size** 4.4H x 3.3W x 1.4D in.
(11.2 x 8.4 x 3.6 cm)
- Power Pack weight** 8.2 oz (235g)



Local Area Ionizing Blower Model 6432/6432e

BIB-6432

Features

- IsoStat technology
- 24 VDC or 24 VAC input
- In-tool or benchtop mounting stand options
- Model 6432e features an operational failure alarm and FMS output
- Ideal for particle reduction applications including circuit board assembly, medical device assembly, and film processing
- Ideal for IC packaging and marking, surface mount equipment and device testing applications

Specifications

- Size** 5.3H x 5.0W x 2.5D in.
(133H x 127W x 63D mm); in-tool stand base is 1.8" (45 mm), benchtop stand base is 4.1" (108 mm)
- Weight** 21 oz (595g) with benchtop stand



Benchtop Ionizing Blower Model 6442

BIB-6442

Features

- IsoStat technology
- Patented Auto-Clean System option
- Operational failure alarm
- Ideal for electronics assembly, QA inspection, IC packaging and marking, surface mount equipment, robotic workstations, and printing or film processing applications

Specifications

- Size** 10.5H x 7.6W x 5D in.
(26.7H x 19.3W x 5.7D cm)
- Weight** 3.4 lb (1.36 kg)



Instrumentation

▶ ***Charge Plate Monitors and Meters***

Model 210 CPM
Model 280 CPM
Model 115 AIDM

▶ ***Handheld Measurement Devices***

Model 775
Model 775PVS

▶ ***Remote Controls***

Model 5570
Model 5571



ION

Charge Plate Monitors and Meters

Charge Plate Monitor Model 210

BIM-0210

Features

- Selectable charging levels (1 or 5 kV) and stop levels (50, 100, or 500V)
- Unique LED bar graph for easy positive and negative balancing
- Displays floating offset voltage, peak voltage swing, and long-term average balance

Specifications

- Size** 6H x 9W x 10D in.
(15.2H x 22.9W x 25.4D cm)
- Weight** 7.5 lb (3.4 kg)



Digital Charge Plate Monitor Model 280

BIM-0280

Features

- Portable and battery operated
- Analog and digital LCD display
- User programmable test protocol
- Detachable plate with varying sizes

Specifications

- Size** 9L x 11W x 5D in.
(22.86L x 12.7W x 27.94D cm)
- Weight** 12.5 lb (5.7 kg)



Air Ion Density Meter Model 115

BIM-0115

Features

- Electrostatically shielded measuring cell
- Bipolar collection cell with two ultra-low current electrometers
- Simultaneously measures both ion polarities
- Analog output

Specifications

Size 7H x 12W x 10D in.
(17.8H x 30.5W x 25.4D cm)

Weight 20 lb (9.1g)



Handheld Measurement Devices

Electrostatic Fieldmeter Model 775

BIM-0775

Features

- Digital display
- Distance-ranging lights
- Battery-powered and pocket sized
- SAMPLE and HOLD buttons allow measurements in places difficult to reach with other instruments

Specifications

- Size** 4.2L x 2.4W x 0.9D in.
(10.7L x 6.1W x 2.3D cm)
- Weight** 5 oz with battery
(414.8g)



Periodic Verification System Model 775PVS

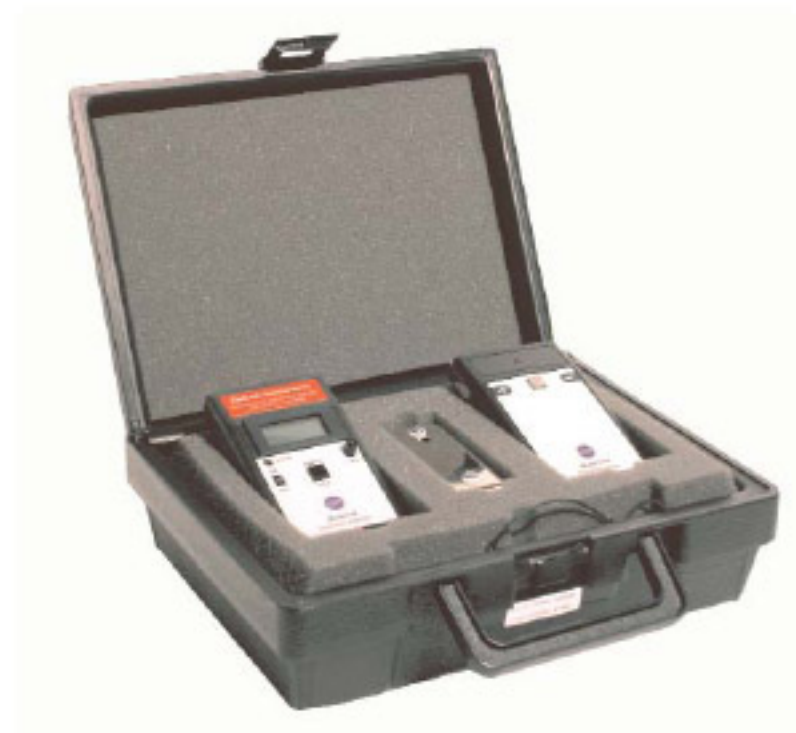
BIM-0775P

Features

- Handheld alternative to a large CPM
- Consists of three components: fieldmeter, detachable plate, and a charger.
- Plate can be calibrated
- Battery powered
- Convenient system goes where CPMs can't

Specifications

- Size** *Fieldmeter and Charger:* 4.2L x 2.4W x 0.9D in. (10.7 x 6.1 x 2.3 cm)
Plate assembly: 1.0H x 3.0W x 1.3D in. (2.5 x 7.6 x 3.3 cm)
- Weight** 5 oz with battery (414.8g), plate is 2.5 oz (71g)



Point of Use Ionizers

▶ ***QuadBars***

Model 4630

Model 4632

▶ ***In-line Gas Ionizers***

Model 4210(u/un)

Model 4620k

▶ ***AirGuns and Cartridges***

Model 6110

Model 6115



ION

Remote Controls

BID-5570

IR Handheld Remote Model 5570

Features

- Bi-directional infrared communication
- Alphanumeric LCD display
- Battery-powered and pocket sized
- Easy scroll menu structure
- Operates with Model 5511 emitters and Model 5585 AeroBars

Specifications

Size4.2L x 2.4W x 0.9D in.
(10.7L x 6.1W x 2.3D cm)
Weight 5 oz with battery (414.8g)



BID-5571

Handheld Terminal Model 5571

Features

- Expanded ionizer setting choices
- Connects directly to controller
- Four-line LCD screen and 30 key
- Two access levels: master and user for greater access control
- Operates with the following Controllers: Model 5084e, 5520, or 5580

Specifications

Size7.15H x 4.10W x 1D in.
(181.6H x 104W x 25.4D mm)
Weight 8 oz (227g)



QuadBars

QuadBar Ionizer Model 4630

BIS-4630

Features

- Quadropole emitter point configuration
- IsoStat technology
- Alarm output to FMS or process tool
- Fast discharge and stable balance at close distances
- Small size is ideal for tight confines

Specifications

Size 1.3H x 1.3W x 3.6L in.
(3.3H x 3.3W x 9.1L cm)

Weight 3.44 oz (100.3g)



QuadBar Ionizer with Air Assist Model 4632

BIS-4632

Features

- Original designs
- Patent-pending air assist cartridge
- Independent airflow increases performance and lengthens cleaning periods
- Quadropole emitter point configuration
- IsoStat technology

Specifications

Size 1.3H x 1.3W x 3.6L in.
(3.3H x 3.3W x 9.1L cm); with air
connection elbow width is 1.92"
(4.88 cm)

Weight 3.44 oz (100.3g)



In-line Gas Ionizers

In-line Gas Ionizer Model 4210 (u/un)

BIS-4210

Features

- Ionizes either Clean Dry Air or nitrogen
- IsoStat technology
- Single-crystal silicon emitter points
- Applications include steppers, spin rinse dryers, load and unload stations, wafer management systems, and disk certifiers

Specifications

Size 4.75L x 2.5D x 3.2W in.
(12.1L x 6.3D x 8.1W cm)

Weight 37 oz (1.04 kg)



In-line Ionization Kit Model 4620k

BIS-4620

Features

- IsoStat technology
- Shielded emitter points
- Power and failure alarms
- Ultraclean, low maintenance reliability

Specifications

Size **Ionization chamber:** 3.16W x 2.65D x 0.82H in
(11.4 x 8.4 x 5.1 cm)

Inlet/outlet fittings: 1 x 0.75"
(2.54 x 1.90 cm)

Controller: 6W x 4.3D x 2H in
(15.24 x 11 x 5 cm)

Weight 4 lb (1.5 kg), complete system.



AirGuns and Cartridges

Air Ionizing Cartridge Model 6110(a)

BIG-6110

Features

- IsoStat technology
- Internal airflow sensor
- Optional blow-off gun kit
- Adapts to compressed air lines
- Ideal for IC packaging and marking, surface mount equipment, and device testing applications

Specifications

Size 2.2D x 3.1L in.
(5.6D x 7.9L cm) not including fittings

Weight 6 oz (170.1g)



AirForce Ionizing Blow-off Gun Model 6115

BIG-6115

Features

- IsoStat technology
- Ergonomic, user-friendly design
- Flexible hose
- Quick-eject emitter point replacement
- Perfect for particle removal with an average discharge time of 0.5 seconds

Specifications

Size **Gun:** 8.0L x 3.0W x 1.0D in.
(20.3 x 7.6 x 2.54 cm)
Console: 8.5L x 3.0W x 1.6D in.
(21.6 x 7.6 x 4.1 cm)

Weight **Gun:** 12 oz (341g) with 7' air hose
Console: 11.5 oz (326g)

