

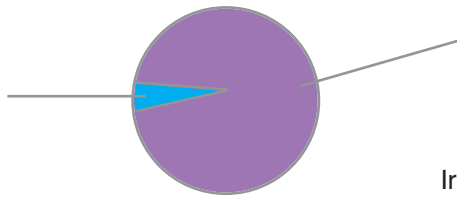
# Fume Extraction Product Selection

SYSTEMS	Volume Extraction	Tip Extraction	Single User	Multiple Users	Portable / Benchtop	Plenum Function	BVX Arms	Omniflex Arms	Particle Extraction*	Gas Extraction	Filter Block Indicator	Analog Unit	Digital Unit	Exhaust Cabinet
BVX-101	✓		✓		✓	✓	✓		✓		✓			
BVX-103	✓		✓		✓	✓	✓			✓	✓			
BVX-201-KIT	✓		✓	✓	✓		✓	✓	✓		✓			
BVX-201-KIT1	✓		✓	✓	✓		✓	✓	✓		✓			
BVX-201	✓		✓	✓	✓		✓	✓	✓		✓			
BVX-203	✓		✓	✓	✓		✓	✓		✓	✓			
BTX-208		✓		✓					✓					
MFX-2200C-A	✓			✓			✓	✓	✓		✓	✓		
MFX-2200C-D	✓			✓			✓	✓	✓		✓		✓	
MFX-2206C-A	✓			✓			✓	✓	✓		✓	✓		
MFX-2206C-D	✓			✓			✓	✓	✓		✓		✓	
MFX-2200G-A	✓			✓			✓	✓		✓	✓	✓		
MFX-2200G-D	✓			✓			✓	✓		✓	✓		✓	
MFX-2206G-A	✓			✓			✓	✓		✓	✓	✓		
MFX-2206G-D	✓			✓			✓	✓		✓	✓		✓	
EC-1800	✓		✓							✓				✓

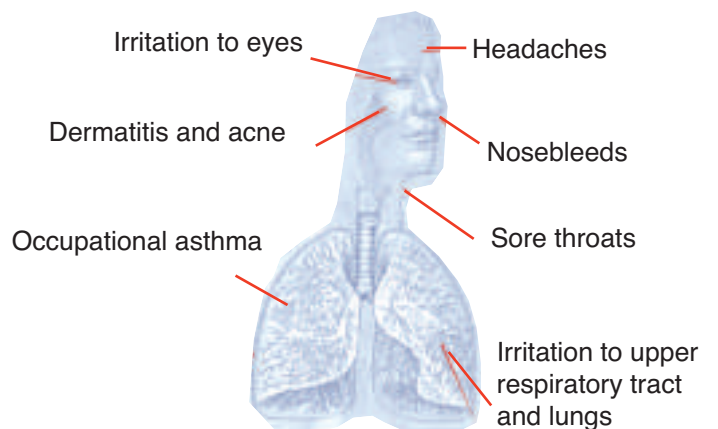
\* all particle filter units are inclusive of a thin gas filter.

## What are Solder Fumes?

5% Gases:  
 Acetone  
 Methyl Alcohol  
 Formaldehyde  
 Carbon Dioxide  
 Diterpine Acid  
 Carbon Monoxide  
 Isopropyl Alcohol



95% Particulates (Fumes)



## Health Implications of Solder Fumes

Largely seen as an irritant, solder smoke can reduce the productivity of workers through a loss of concentration as well as the accompanying onset of fatigue and other health concerns as shown in the illustration.

# BVX-100 Benchtop Single User Arm/Plenum System



## Key Features & Benefits

- ▶ Portable, single user fume extraction system
- ▶ Low noise unit
- ▶ No external ducting or compressor needed
- ▶ Unit easily fits on any bench-top or under-bench
- ▶ Innovative adaptor transforms the plenum into an arm
- ▶ Powerful 85m<sup>3</sup>/hr-airflow rate
- ▶ Immediate extraction of fumes, particles and vapors
- ▶ Two filtration configurations: heavy soldering and light dust or light duty organic solvent and adhesive applications
- ▶ Bi-coloured LED light indicates when the filters are blocked and require replacing
- ▶ **Compatible with BVX Arms (page 30)**



Part No.	Description
BVX-101	Bench-Top, single user arm/plenum system, Pre-HEPA-Gas
BVX-103	Bench-Top, single user arm/plenum system, Pre-Gas

## Filters

FG-BVX	Deep Bed Gas Filter
FM-BVX	Main Filter (Combined HEPA/Gas)
FP-BVX	Pre-Filter (Pack of 5)

## Accessories

BVX-ADT	Replacement Arm-To-Plenum Adaptor
BVX-IADT	Inverted Arm Adaptor, ESD Safe
BVX-BCK	Under Bench Mounting Bracket
BVX-CH01	Connection hose, 50mm (2") diameter, 1.8m (6') long
BVX-TB01	Table bracket with 2 C-clamps

## Technical Specifications

Static Pressure (suction force)	1250 Pa (5"WC)
Fan Capacity	110m <sup>3</sup> /h (65 cfm)
Flow Rate (with filter)	85m <sup>3</sup> /h (50 cfm)
Air Inlets/Number of Stations	1
HEPA Efficiency	99.97% at 0.3 micron
Noise Level	< 55 db A
Dimensions (W x D x H)	300mm x 230mm x 290mm (11.8" x 9.1" x 11.4")
Weight	9kg (20lbs)
Voltage	100-240 VAC
Frequency	50-60 Hz
Power	85 watt
Certification	UL, CSA, CE

# BVX-200 Two Stations Portable Filter Unit



## Key Features & Benefits

- ▶ Two station design for dynamic fume extraction
- ▶ New brushless motor, quiet operation
- ▶ Complete portability, placed under or next to the bench-top
- ▶ Fitted with 2x 50mm (2") Ø arms or 1x 63mm (2.5") Ø arm
- ▶ Main filter has a HEPA efficiency of 99.97% at 0.3 micron, and an activated carbon filter to remove additional gases
- ▶ Deep-bed gas filter for high capacity of gas filtration, such as cleaning with solvents or conformal coatings
- ▶ Audible alarm informs operators when filters need replacing
- ▶ Easy access on/off remote switch

▶ **Compatible with Omniflex Arms and BVX Arms (page 30)**



Part No.	Description
BVX-201	Filter unit for 2 stations, Pre-HEPA-Gas
BVX-203	Filter unit for 2 stations, Pre-Deep Bed Gas
BVX-201-KIT	Filter unit with 2 BVX-ARML, Pre-HEPA-Gas
BVX-201-KIT1	Filter unit with 2 BVX-ARM-K1, Pre-HEPA-Gas

## Filters

FP-BVX200	Pre-Filter (Pack of 5)
FM-BVX200	Main Filter HEPA Carbon
FG-BVX200	Deep Bed Gas Filter

## Accessories

BVX-ARM-K1	1 BVX-ARM 760mm (30") long with 1.8m (6') long hose and table bracket with C-clamps
BVX-ARM-K2	1 BVX-ARM 760mm (30") long and table bracket with C-clamps
BVX-ARM	Arm flexible ESD safe, 760mm (30") long
BVX-ARML	Arm flexible ESD safe, 1.5m (59") long with arm clip
BVX-TB01	Table bracket with 2 C-clamps
BVX-CH01	Connection hose, 50mm (2") diameter, 1.8m (6') long
BVX-CH02	Connection hose, 50mm (2") diameter, 3.6m (12') long
RPS-1	Remote power switch

## Technical Specifications

Static Pressure (suction force)	850 Pa (3.5"WC)
Fan Capacity	250m <sup>3</sup> /h (150 cfm)
Flow Rate (with filter)	2 x 75m <sup>3</sup> /h (45 cfm)
Air Inlets/Number of Stations	2
HEPA Efficiency	99.97% at 0.3 micron
Noise Level	< 55 db A
Dimensions (W x D x H)	508mm x 254mm x 388mm (20" x 10" x 15.3")
Weight	9kg (20lbs)
Voltage	100-240 VAC
Frequency	50-60 Hz
Power	85 watt
Certification	UL, CSA, CE
Max duct run	3.6 m (12')



# MFX-2200C Particle Fume Extraction System



## Controls and Filter Monitor



- ▶ Unit On/Off Switch with power indicator
- ▶ Thermal overload protection
- ▶ Analog models with filter status gauge
- ▶ Digital models with filter status indicator lights and other control options

The multi-user MFX-2200C Fume Extraction System provides the ultimate performance in a compact size that easily fits under most workbenches. It is ideal for removing solder fumes and filtering laser fumes.

## Key Features & Benefits

- ▶ Excellent air flow performance
- ▶ Large, pleated pre-filter
- ▶ HEPA filter rating of 99.97% at 0.3 micron
- ▶ Casters as standard
- ▶ Dust filter seal keeps filter housing clean
- ▶ Minimum operating noise
- ▶ Compact size, unit fits under most workbenches
- ▶ Connects up to 4 Omniflex arms with rectangular nozzle (EA1122) or large hood (EA1126)
- ▶ Connects up to 8 BVX arms or 8 Omniflex arms with tapered nozzle (EA1124)

▶ **Compatible with Omniflex Arms and BVX Arms (page 30)**

Part No.	Description
MFX-2200C-A	Particle Fume Extraction System Analog 110V
MFX-2206C-A	Particle Fume Extraction System Analog 230V
MFX-2200C-D	Particle Fume Extraction System Digital 110V
MFX-2206C-D	Particle Fume Extraction System Digital 230V

## Filters

FIL22P030	Prefilter Pleated 60% Efficiency (Pack of 2)
FIL22H070	Combination Filter HEPA/Carbon

## Accessories

AC2204	Top cover with 2 air inlets Ø100mm (4") and 2 air inlets Ø63mm (2.5")
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## Technical Specifications

	110V Units	230V Units
Air Inlet Openings	4 x Ø2.5"	4 x Ø63mm
Fan Capacity	600 cfm	900m <sup>3</sup> /h
Flow Rate	400 cfm	600m <sup>3</sup> /h
HEPA Efficiency	99.97% at 0.3 micron	99.97% at 0.3 micron
Static Pressure	4.5" WC Max	1075 Pa
Power Supply	100-120VAC, 60Hz	220-240VAC, 50Hz
Power	400 Watt	400 Watt
Noise Level	58 dbA	58 dbA
Dimensions (W x D x H)	17.7" x 20.7" x 26.4"	450 x 525 x 670mm
Weight	93 lbs	43 Kg
Certification	UL, CSA	CE
Max duct run	100'	30 m

# MFX-2200G Gas Fume Filtration System



The MFX-2200G Fume Extraction System has been specifically designed for the removal of gases and vapors from a range of heavy duty bench-top applications, including solvent cleaning, gluing/bonding and conformal coatings.

## Key Features & Benefits

- ▶ High capacity gas filter cartridge ensures a long dwell-time of the gases inside the filter media
- ▶ Large, pleated pre-filter
- ▶ Casters as standard
- ▶ Minimum operating noise
- ▶ Provides air flow for two exhaust cabinets
- ▶ The unit lid features 100mm (4") and 63mm (2.5") air inlet flanges suitable for the connection of exhaust arms or cabinets
- ▶ **Compatible with Omniflex Arms and BVX Arms (page 30)**
- ▶ **Compatible with EC1800 Exhaust Cabinet (page 32)**

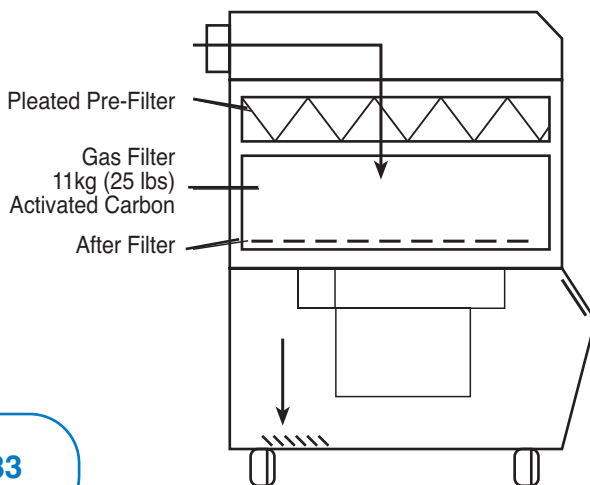
Part No.	Description
MFX-2200G-A	Gas Fume Extraction System Analog 110V
MFX-2206G-A	Gas Fume Extraction System Analog 230V
MFX-2200G-D	Gas Fume Extraction System Digital 110V
MFX-2206G-D	Gas Fume Extraction System Digital 230V

## Filters

FIL22P040	Pre-filter Pleated 85% Efficiency
FIL22G010	Gas Filter Cartridge 11kg (25lbs)
FIL22G020	Carbon Refill Kit 11kg (25lbs)

## Accessories

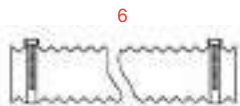
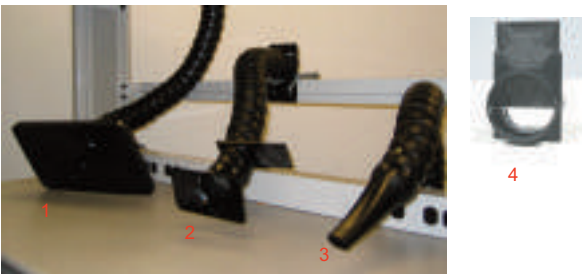
AC2202	Top cover with 4 air inlets Ø 63mm (2.5")
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## Technical Specifications

	110V Units	230V Units
Air Inlet Openings	2xØ4" & 2xØ2.5"	2xØ100mm & 2xØ63mm
Fan Capacity	600 cfm	900m <sup>3</sup> /h
Flow Rate	350 cfm	550m <sup>3</sup> /h
Static Pressure	4.5" WC Max	1075 Pa
Power Supply	100-120VAC, 60Hz	220-240VAC, 50Hz
Power	400 Watt	400 Watt
Noise Level	58 dbA	58 dbA
Dimensions (W x D x H)	17.7" x 20.7" x 26.4"	450 x 525 x 670mm
Weight	115 lbs	52 Kg
Certification	UL, CSA	CE
Max duct run	100'	30 m

## Omniflex & BVX Arms



The **Omniflex Arms** (Ø63mm) are designed for higher airflow rates and effective fume capture from greater distances. A unique ball/socket design provides an unmatched flexibility in manoeuvring and positioning. The arms can be adjusted in working length or radius, simply by adding or removing Omniflex components. ESD conformance is ensured through the use of fully conductive material.

### Key Features & Benefits

- ▶ 140m<sup>3</sup>/h (85cfm) air flow rating (varies with nozzle)
- ▶ 63mm (2.5") diameter
- ▶ 0.6m (24") long with optional extensions of 300mm (12")
- ▶ **Omniflex Arms are compatible with BVX-200\* and MFX units**

Part No.	Description
EA1122	2 Omniflex Arm ESD with Rectangular Nozzle
EA1124	3 Omniflex Arm ESD with Tapered Nozzle
EA1126	1 Omniflex Arm ESD with Large Hood 350 x 212mm (14" x 8.5")
AC1101	4 Damper for Omniflex Arm
AC1102	Omniflex Arm Extension 30cm (12")

*\*BVX-200 series is only rated for one EA1122 arm, one EA1126 arm or two EA1124 arms.*

The **BVX Arms** (Ø50mm) are most economic solution while providing good airflow rates and high flexibility. The spiral rolled duct can be tightened in stiffness and can be positioned precisely. The BVX Arm-K2 kit includes a mounting plate and c-clamps for universal mounting. A Y-connection piece is available to connect two BVX Arms to one hose.

### Key Features & Benefits

- ▶ 75m<sup>3</sup>/h (45cfm) air flow rating
- ▶ 50mm (2") ducting with 40mm (1.75") nozzle
- ▶ 710mm (28") long
- ▶ **BVX Arms compatible with all units**

Part No.	Description
BVX-ARM-K1	5 1 BVX-ARM 760mm (30") long with 1.8m (6') long hose and table bracket with C-clamps
BVX-ARM-K2	1 BVX-ARM 760mm (30") long and table bracket with C-clamps
BVX-ARM	Arm flexible ESD safe, 760mm (30") long
BVX-ARML	Arm flexible ESD safe, 1.5m (59") long with arm clip

### Connection Hoses for Omniflex and BVX Arms

CH0251	6 Connection Hose 2.5m xØ63mm (8" x 2.5") with clamps
CH0252	6 Connection Hose 3.5m xØ63mm (12" x 2.5") with clamps
CH0253	6 Connection Hose 7.5m xØ63mm (25" x 2.5") with clamps
AC2025	7 Y-Piece for Ø63mm (2.5") hose with clamps

# BTX-208 Portable Tip Extraction Unit



## Key Features & Benefits

- ▶ High performance extraction directly from the tip of any iron
- ▶ Easy extraction network configuration for up to 8 benches
- ▶ Complete portability. Designed for under-bench installation
- ▶ Main filter has a HEPA efficiency of 99.97% at 0.3 micron, and an activated carbon filter to remove gases
- ▶ Both pre- and main- filters can be changed independently
- ▶ Plug-and-play ducting system for simple, flexible low cost solution and fast installations
- ▶ Universal hose connection kit



Part No.	Description
BTX-208	Filter Unit for 8 Tip Extraction Stations, Pre/HEPA/Gas

### Filters

FP-BVX200	Pre-Filters (pack of 5)
FM-BVX200	Main Filter, HEPA 99.95% / Carbon

### CONNECTION KITS:

BTX-CK2-25	Connection Kit for 2-4 stations with 2.5m (8') Long Hose
BTX-CK4-50	Connection Kit for 4-8 stations with 5m (16') Long Hose
BTX-CK4-75	Connection Kit for 4-8 stations with 7.5m (25') Long Hose

### Individual Parts

CH0121	1	Flexible Hose Ø35mm x 2.5m (8') Long
CH0122	1	Flexible Hose Ø35mm x 5m (16') Long
CH0123	1	Flexible Hose Ø35mm x 7.5m (25') Long
AC-TX001-4	2	Couplings with 2 Glands 5.6mm (pack of 4)
18566S-5	3	End Plug (Pack of 5)
AC-TX002-2	4	T-Piece Connector (pack of 2)
19115S-10	5	Pipe Clip (pack of 10)

CONNECTION KITS		BTX-CK2-25	BTX-CK4-50	BTX-CK4-75
Max number of stations	single-row bench	2	4	4
	when using 5.6mm tubes	4	8	8
		Qty	Qty	Qty
1	Flexible Hose Ø35mm (1.25")	2.5m (8")	5.0m (16")	7.5m (25')
2	Coupling with 2 Glands 5.6mm	2	4	4
3	End Plug	1	2	2
4	T-piece Connector	0	1	1
5	Pipe Clip	2	5	5
-	Roll of Vinyl Tape	1	1	1

