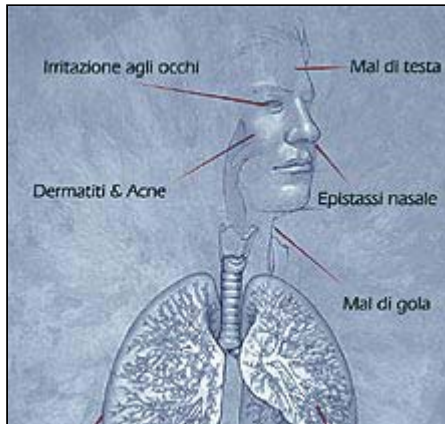


Why Fume Extraction?

A healthy work environment is not only safe, but it has been proven to reduce staff turnover and absenteeism, control healthcare costs and increase operator productivity.

Lead-Free Solders Are The Worst

Most solders contain fluxes that, when heated, emit fumes and gases, called colophony, which degrade the air quality in and around the bench-top. Lead-free solders are the worst offenders, as they contain a higher concentration of chemicals which generate more fumes and vapours.



Ironically, the smoke and particulates you can see emanating from a work bench are not the ones that do the most damage. It's what you can't see that carries the greatest potential danger. Inefficient systems may remove the obvious, but they don't capture the most harmful fumes. For real extraction, it takes a powerful system

coupled with a well designed series of special HEPA filters. Anything less will not eliminate the fumes and gases that can cause the worst short-and long-term health problems.

Metcal, The Intelligent, Dependable Choice

Metcal, in conjunction with sister company Impell, has developed a unique, cost-effective approach to protecting operators from hazardous fumes. The BVX-100 and BVX-200 Series Fume Extraction Systems offer innovative blower designs in small, portable units that are whisper quiet, but deliver the power to extract all harmful fumes.

Powerful, Portable Fume Extraction

Metcal's BVX-100 Series Fume Extraction Systems are powerful, but low noise, units that need no external ducting or compressor. Simply move these light weight systems from station to station, plug them in and switch them on for instant fume extraction. Just 279mm (11") tall, with a 305mm x 229mm (12" x 9") plenum chamber, the units easily fit on any bench-top or, when space is at a premium, take advantage of the under-bench mounting bracket.

Rated at 85-Watts, the systems deliver high quality filtration without compromise. A powerful 85m³/hr-airflow rate provides immediate extraction of fumes, particles and vapours from operator breathing areas. When a larger capture range is needed, an innovative adaptor quickly transforms the plenum into an arm extraction system.



Two filtration configurations are available for heavy soldering and light dust applications, or light duty organic

solvent and adhesive applications. A bi-coloured LED light indicates when the filters are blocked and require replacing.

Two Station Design For Dynamic Fume Extraction

The new BVX-200 Series Fume Extraction Systems are revolutionary two-arm units that combine powerful fan performance with efficient filtration, quiet operation and complete portability. They can be placed under or next to the bench-top and fitted with either two 50mm (2") diameter BVX arms or one Omniflex arm.

Using the proven fan motor of the BVX-100 Series Fume Extraction Systems, the BVX-200 Series Fume Extractions Systems add a proprietary one-stage impeller design that doubles the total free-blowing airflow. The result is a maximum free-blowing airflow of 250m³ /h (150cfm), with a maximum suction force of 850 Pa (3.5"WC). This suction force provides ample capability in reserve to handle any clogging that may occur during the normal life of the filter. It is, in fact, the best suction rating in the units' class and the highest offered by such compact and portable systems.



The BVX-201 Fume Extraction System is designed mainly for solder fumes and incorporates both pre-and main filters which can be changed independently to maximise the working life of each filter and lower the total cost of ownership. The main filter has a HEPA efficiency greater than 99.5%, plus an activated carbon filter to remove additional gases. For applications that require a high capacity of gas filtration, such as cleaning with solvents or conformal coatings, the BVX-203 Fume Extraction System features a deep-bed gas filter.

TECHNICAL SPECIFICATIONS		
Series	BVX-100	BVX-200
Static Pressure		
(suction force)	1250 Pa (5"WC)	850 Pa (3.5"WC)
Fan Capacity	110m 3/h (65 cfm)	250m 3/h (150 cfm)
Flow Rate		
(with filter)	85m 3/h (50 cfm)	2 x 75m 3/h (45 cfm)
Air Inlets / No. of Stations	1	2
Noise Level	<55 db A	<55 db A
Dimensions (W x D x H)	300mm x 230mm x 290mm (11.8"x 9.1"x 11.4")	508mm x 254mm x 388mm (20"x 10"x 15.3")
Weight	9kg (20 lbs)	9kg (20 lbs)
Voltage	100-240 VAC	100-240 VAC
Frequency	50-60 Hz	50-60 Hz
Certification	UL,CSA,CE	UL,CSA,CE



ACCESSORIES	
BVX-ADT	Replacement Arm-To-Plenum Adaptor*

SYSTEMS	
BVX-101 Bench-Top,Single User Arm/Plenum System, Pre-HEPA-Gas,100-240 VAC	
BVX-101-S Bench-Top, Single User Plenum System Without Arm, Pre-HEPA-Gas,100-240 VAC	
BVX-103 Bench-Top, Single User Arm/Plenum System, Pre-Gas,100-240 VAC	
BVX-103-S Bench-Top, Single User Plenum System Without Arm, Pre-HEPA-Gas,100-240 VAC	
BVX-201-KIT Filter Unit With 2 Flexible Arms, 1.2m long,Pre-HEPA-Gas	
BVX-201 Filter Unit For 2 Stations, Pre-HEPA-Gas	
BVX-203 Filter Unit For 2 Stations, Pre-Deep Bed Gas	
FILTERS	
FG-BVX	Deep Bed Gas Filter*
FM-BVX	Main Filter (Combined HEPA/Gas)*
FP-BVX	Pre-Filter (Pack of 5)*
FP-BVX200	Pre-Filter (Pack of 5)**
FM-BVX200	Main Filter,HEPA 99.95%/Carbon**
FG-BVX200	Deep Bed Gas Filter**
(*BVX-100,**BVX-200)	

BVX-IADT	Inverted Arm Adaptor,ESD Safe*
BVX-BCK	Under Bench Mounting Bracket*
BVX-NOZ1	Nozzle,40mm (1.57")Diameter*
BVX-ARM	Arm Flexible ESD Safe,610mm (24")Long
BVX-ARML	Arm Flexible ESD Safe,1220mm (48")Long
BVX-ARM-K1	1 BVX Arm 610mm (24")Long with 1829mm (6 ')Long Hose and Table Bracket**
BVX-TB01	Table Bracket with 2 C-clamps**
BVX-CH01	Connection Hose,50mm (2")Diameter, 1800mm (6 ')Long**
BVX-CH02	Connection Hose,50mm (2")Diameter, 3600mm (12 ')Long**
(*BVX-100,**BVX-200) <i>For Omniflex arms and accessories please refer to separate Omniflex programme</i>	



BVX-201-KIT



BVX-201

With 2 x BVX-ARM-K1



BVX-ARM-K1