



A Donaldson Company

A WORLD LEADER IN FUME
EXTRACTION TECHNOLOGY

ELECTRONICS FUME EXTRACTION TIP AND VOLUME RANGE



BOFA INTERNATIONAL IS A MULTI AWARD-WINNING WORLD LEADER IN PORTABLE FUME EXTRACTION AND FILTRATION TECHNOLOGY.

We design, develop and manufacture systems for a wide range of industrial sectors and applications, delivering great value, high quality products. The need for fume extraction continues to be inherently linked with health and safety laws and compliance.

Our products help operator safety by filtering potentially harmful dust and fumes which are generated during industrial processes while minimising disruption to production.

WHY BOFA

- ✓ 35 years' **experience**
- ✓ Market **leader**
- ✓ **Unrivalled** knowledge in fume and dust extraction and filtration
- ✓ **Innovative** world-class systems
- ✓ High **quality**, affordable systems
- ✓ **Dedicated** in house capabilities
- ✓ Offices in the **UK, USA** and **Germany**
- ✓ **Global** network
- ✓ Keeping the world working **safely**
- ✓ Continual **investment**
- ✓ **Environmental** policy
- ✓ A **Donaldson** company

BOFA is proud to be a Donaldson company. Founded in 1915, Donaldson is a global leader in the filtration industry with sales, manufacturing and distribution locations around the world.



KNOWLEDGE **AND INNOVATION**

Our dedicated team has a wealth of unrivalled industry knowledge which is established and trusted by all sizes of business: from global market leaders to niche producers in a wide cross section of industries.

Our programme of ongoing investment in research and development allows us to continuously improve products and pioneer new cutting-edge technologies.

We have an extensive range of proven fume extraction systems to satisfy a broad range of applications – from single user systems to units that pack a heavyweight punch with unsurpassed filter capacity, high performance and everything in between.

AWARD WINNING **TECHNOLOGY**

In 2017, BOFA was recognised for the development of the revolutionary Intelligent Operating System (iQ), which is transforming the way that organisations around the world can protect the health of employees and improve production process.

INTELLIGENT OPERATING SYSTEM (iQ)



Pioneering the future of fume extraction.

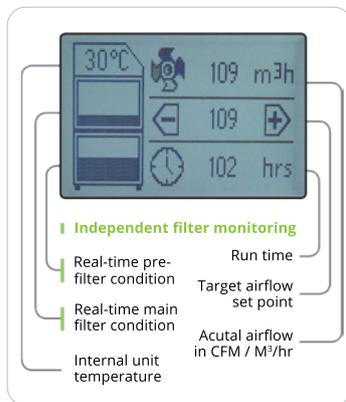
Our award-winning Intelligent Operating System (iQ) brings multiple performance enhancements for higher efficiency of extraction, individual filter status monitoring and integral design features that combine to deliver a lower cost of ownership.

Most importantly, iQ addresses the issue dreaded by most production teams - downtime - by minimising the potential for interrupting production for unplanned filter changes.

Sophisticated and advanced technology is inbuilt, providing a user-friendly and intuitive experience with the data being easy to access and analyse locally or remotely (from data downloaded via USB). It means that filter changes can be planned at a time to minimise or eliminate interruptions to production so business can continue as usual, as well as helping to avoid any costly or time-consuming service call-outs.

iQ incorporates a method for monitoring the status of both the pre-filter and combined (main) filter. Pre-blockage warnings provide operators with ample time to prepare for a change by identifying which filter needs replacing and when, so the uncertainty and guesswork is removed.

A user-friendly design is consistent across all iQ products, for a more uniform look in environments where multiple units are in use. The operating 'easy read' control panel is on the top of each unit on a sloping fascia front so the data is easy to view.



bofainternational.com/iq

DEEPPLEAT DUO

PRE-FILTER



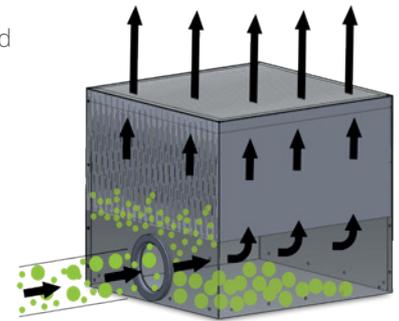
Save filter life and money.

The DeepPleat DUO is BOFA's patented long lasting pre-filter, extending the life of your main filter and reducing the overall cost of ownership of your unit.

BOFA's unique patent-protected DeepPleat DUO pre-filter technology is designed to maximise filter life. It incorporates a large capacity drop-out chamber within the filter, along with an impressive surface area above the chamber to deal with a high volume and variety of particulate, giving optimised performance and filter life. Within the housing there is a sealed 200mm deep pleat layer of F8 media giving a surface area in excess of 6;12; and 30 sq metres.

Thanks to a specially moulded grommet style gasket situated within the drop out chamber the DeepPleat DUO is designed for easy and safer installation and replacement, which is particularly important as often potentially harmful contaminants are filtered.

The DeepPleat DUO is available in three different sizes, offering different drop-out chamber sizes and surface medium areas:



Product	Inlet size	Dropout chamber size	Surface media area	Filter media pleat size
V Oracle iQ	75mm	16.2 litres	12m ²	200mm
V 1000 iQ / V 1500 iQ	125mm	58 litres	30m ²	200mm
V 2000 iQ	125mm	58 litres - x2 (116 litres)	30m ² - x2 (60m ²)	200mm - x2 (400mm)

PROCESSES

INSIDE THE FACTORY

Portable fume extraction for every application.

1

AUTOMATED GLUING SYSTEM

Application: PCB component placement.
Product example: V Oracle iQ.
See page 19.

2

AUTOMATED PCB ASSEMBLY

Application: Reflow oven.
Product example: V 4000.
See page 22.

3

AUTOMATED PCB ASSEMBLY

Application: Wave soldering.
Product example: V 1000 iQ.
See page 20.

4

AUTOMATED PCB ASSEMBLY

Application: Selective soldering.
Product example: V Oracle iQ.
See page 19.

5

FUME CABINET EXTRACTION

Application: Conformal coating and general solvent vapour and multi tasking.
Product example: FumeCAB 1000 iQ.
See page 26.

6

MOBILE FUME EXTRACTION

Application: General maintenance, wave solder 'de-drossing'.
Product example: Mobile FumeKART.
See page 27.

7

CONFORMAL COATING

Application: Automated conformal coating.
Product example: V 1000 iQ.
See page 20.

8

MANUAL PCB ASSEMBLY

Application: Soldering of PCBs
Product example: T15. Up to 15 operatives.
See page 12.

9

SOLDER POTTING

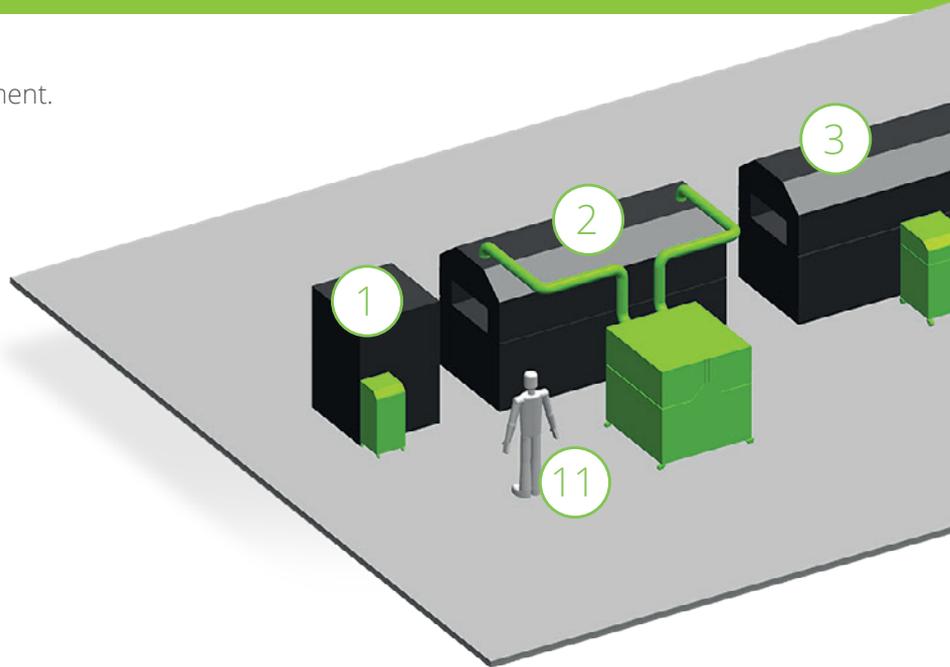
Application: Manual soldering and potting.
Product example: V Oracle iQ.
See page 19.

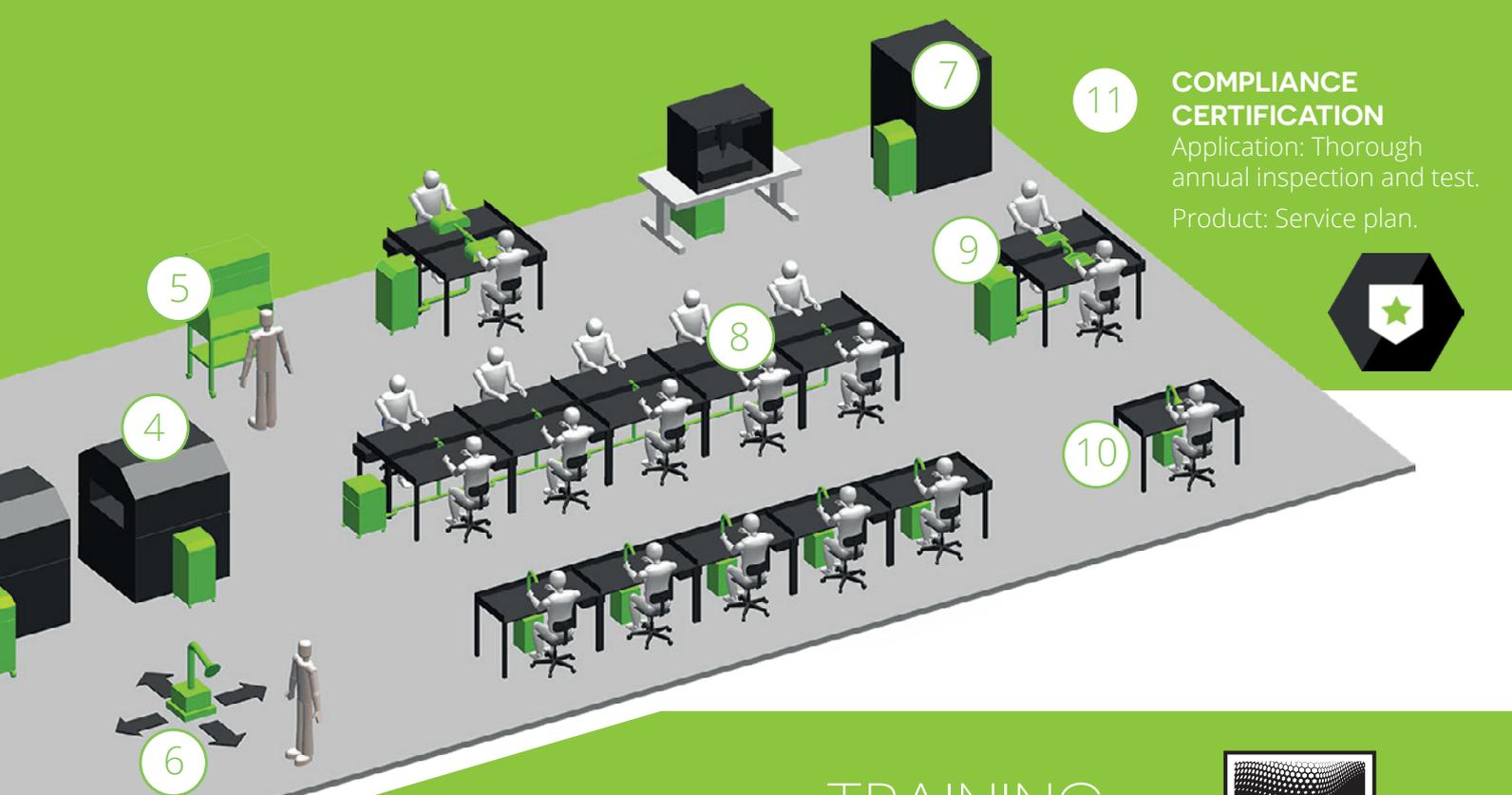
10

MANUAL PCB ASSEMBLY

Application: Soldering of PCBs.
Product example: V 250. 1-multiple arms.
See page 14.

11





COMPLIANCE CERTIFICATION
 Application: Thorough annual inspection and test.
 Product: Service plan.



TRAINING DESIGNED FOR YOU



Free training modules delivered by our knowledgeable team direct to you, to help you stay up to date. We've designed our modules so they can be delivered in a way convenient to you - either online or face to face - in a simple and effective format to help ensure you get the most out of the time you invest in training. It's all part of the exceptional support and experience we offer.

This training is for anyone who comes into contact with fume extraction or is responsible for health and safety in the workplace - whether it's researching and determining the requirements in your workplace; designing new products that need appropriate extraction or selling products into the market:

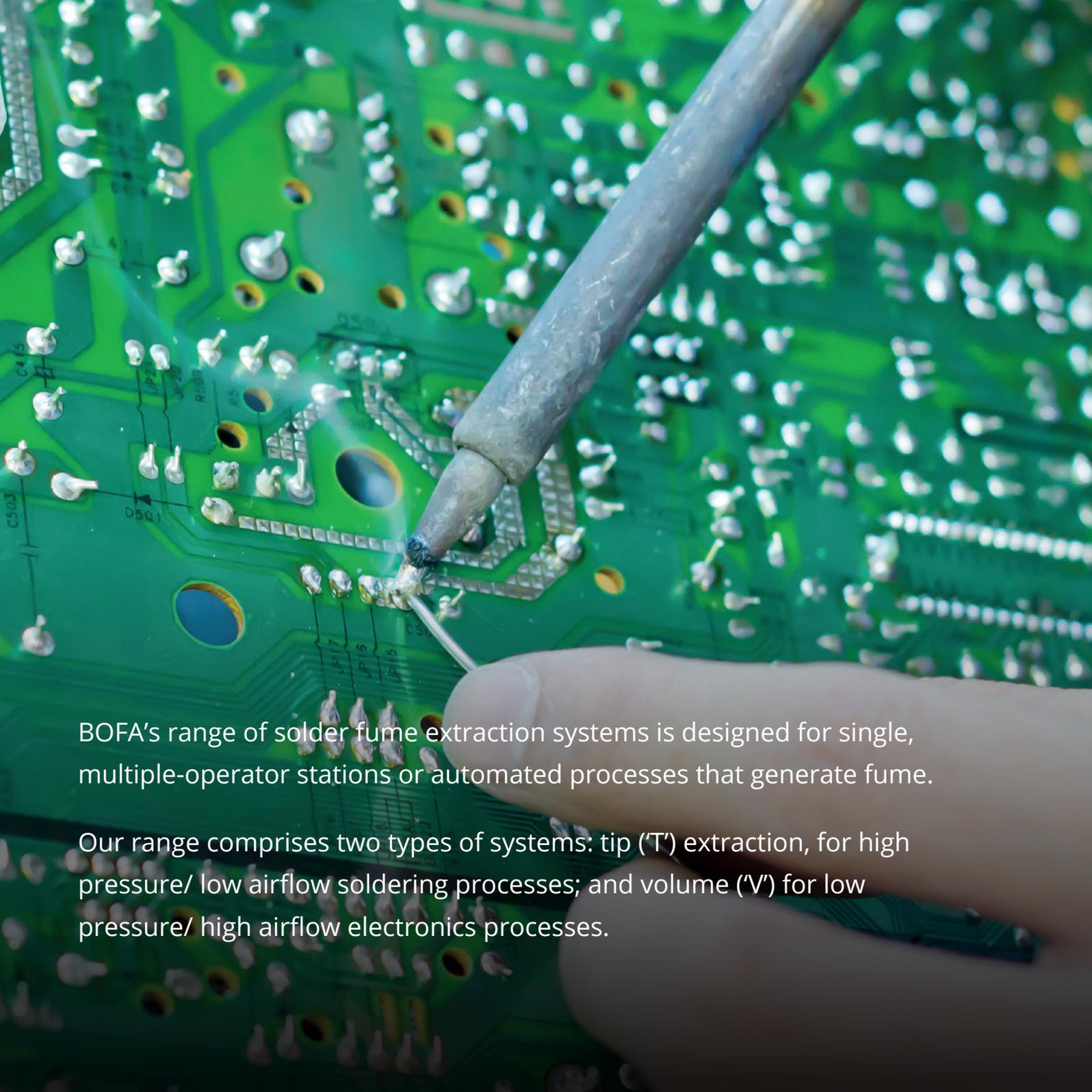
- Sales and marketing
- Technical
- Product management
- Service/ installation

You can book on to as many modules as you want to so you can keep learning from wherever you are.

Modules are available every week and cover a wide range of topics including:

- Health, safety and compliance
- Product ranges
- Technical advice
- Commercial understanding

Find out more:
bofainternational.com/bofa-academy



BOFA's range of solder fume extraction systems is designed for single, multiple-operator stations or automated processes that generate fume.

Our range comprises two types of systems: tip ('T') extraction, for high pressure/ low airflow soldering processes; and volume ('V') for low pressure/ high airflow electronics processes.

ELECTRONICS FUME EXTRACTION

TIP AND VOLUME RANGE

BOFA's range of electronics fume extraction systems are designed for single / multiple-operator stations or automated processes that generate potentially harmful fume comprising of particulate and gaseous volatile organic compounds (VOCs).

APPLICATIONS

Arm extraction
Automated soldering
Brazing
De-soldering
Gluing
Hand soldering

Lead free soldering
Laser soldering
Machine soldering
PCB de-lugging
PCB drilling
Potting

Reflow ovens
Rework stations
Selective soldering
Silver soldering
Soft soldering
Spray cleaning

Tinning
Tip extraction
Vapour phase soldering
Wave soldering



Throughout this brochure you will see icons next to products to show their key features:



Intelligent Operating System (iQ)

Our patent-protected award-winning Intelligent Operating System (iQ) performs at two distinct levels: operators benefit from the ease of operation and clarity of real-time information and the system provides a cache of analytical data, enabling users to download performance and operating parameters for evaluation purposes.

Find out more: bofainternational.com/iq



DeepPleat pre-filter

The DeepPleat pre-filter consists of a pleated filter of 100mm depth or greater, allowing for increased surface area within a smaller area. This means BOFA filters last a long time and do not take up a large footprint.

Find out more: bofainternational.com/deeppleat



DeepPleat DUO pre-filter

Our patent-protected DeepPleat DUO pre-filter technology is designed to maximise filter life. It incorporates a large capacity drop-out chamber within the filter. Above this chamber is an impressive surface area to deal with high volumes and variety of particulate, helping to ensure optimised performance and filter life.

The DeepPleat DUO is designed for easy and safer installation and replacement, which is particularly important as often potentially harmful contaminants are filtered.

Find out more: bofainternational.com/deeppleatduo



HEPA filter

Filters 99.995% of particles at 0.3 micron in size.

Find out more: bofainternational.com/hepa



ACF: Advanced carbon filter

ACF helps assure safer filtering of potentially hazardous fumes. Contaminated air must remain in contact with the carbon bed for a period of time sufficient to help ensure that no contaminants or odours are emitted ('dwell time'). Our design considers the balance between airflow rates and the type, depth and surface area of the carbon used to help ensure suitability for the contaminants associated with the application and to help ensure appropriate dwell times are achieved.

Our filters have been developed to filter all contaminants and odours, eliminating the risk of bypass and/or tunnelling.

Find out more: bofainternational.com/acf



AFC: Automatic flow control

AFC allows the operator to preset correct airflow rates for the specific application, subsequently maintaining this airflow. This generates lower noise levels and helps ensure further protection of HEPA filters.

Find out more: bofainternational.com/afc



RFA: Reverse flow air technology

RFA enhances filter performance and helps ensure long filter life. It causes a fall in velocity and air direction change. Larger particulate falls out of the airstream into the filter's drop out chamber. With less particulate entering the filter media, the filter life is significantly increased. Contaminated air entering the drop out chamber is pulled vertically through the filters.

Find out more: bofainternational.com/rfa



MVS: Multi voltage sensing unit

Our MVS units automatically sense local voltage and adjust accordingly, between 100-230V, for global operation.



PATENTED technology

We invest in innovation and our products have a heritage of being tried, tested and trusted. We take great care in protecting our intellectual property and our integrity. Our product range includes aspects which are protected under patent copyright, design copyright, registered design and trade mark laws.



SureCHECK quality standard

In recognition of the importance of quality, health and safety and environmental management, we have created our SureCHECK quality standard, applied to every product we make.

Find out more: bofainternational.com/surecheck



ProTECT

Our ProTECT service plan gives you peace of mind that your LEV systems are being well maintained throughout their working life.

Find out more: bofainternational.com/protect

Technical information in this brochure is correct at time of publishing. Please contact your sales representative for details.

T 1 FUME EXTRACTOR

The smallest in the high vacuum extraction range for hand solder applications. Designed specifically for portability and extremely low noise levels.

The T 1 extracts and filters fumes and debris through small bore hoses and attachments. Ideally suited for soldering iron tip extraction, vac pens and any application requiring close proximity, such as microextraction.

Approvals UKCA and CE

Ideal partner to the solder iron connection kit



Dimensions 270 x 200 x 185mm
10.63 x 7.87 x 7.28"

Airflow/Pressure 22 l/min per tip

Technology



Datasheet download
bofainternational.com/t1

Configuration option

Solder iron connection kit

The BOFA solder tip kit connects to a soldering iron and extracts potentially harmful fumes directly from the source during the hand soldering process.

Tip kit connects to the following systems:

- T 1
- T 15





T 15 FUME EXTRACTOR

Mid range high vacuum fume extraction system with a built in silencer for extremely low noise levels. With its three-stage filtration and filter warning indicator, this is a true industry favourite, suitable for up to 15 operators.

The T 15 extracts and filters fumes and debris through small bore hoses and attachments. Ideally suited for soldering iron tip extraction, vac pens and any application requiring close proximity, such as microextraction.

Approvals UKCA and CE

Ideal partner to the solder iron connection kit

Configuration option

Solder iron connection kit

The BOFA solder tip kit connects to a soldering iron and extracts potentially harmful fumes directly from the source during the hand soldering process.

Tip kit connects to the following systems:

- T 1
- T 15



Dimensions 575 x 370 x 340mm
22.64 x 14.57 x 13.39"

Airflow/Pressure 22 l/min per tip

Technology



Datasheet download
bofainternational.com/t15

OUR LEADING
TECHNOLOGY



iQ
Intelligent
Operating System
(iQ)



DeepPleat
DeepPleat pre-filter



DeepPleat DUO
Patented
DeepPleat DUO
pre-filter



HEPA
HEPA filter



AFC
Automatic flow
control technology

PRODUCT FEATURES
COMPARISON TABLE ON PAGE 28

ACCESSORIES
SEE PAGE 32-35



V 200 FUME EXTRACTOR

The V 200 is a single arm, portable solder fume extraction system that comes complete with an extraction arm and installation kit containing everything required to set up an operator with ease.

Minimal installation allows this unit to be moved with the work bench when factory layouts need changing due to production requirements.

The low noise level and fully comprehensive three-stage filtration is ideal for factories with changing production demands.



Approvals UKCA and CE

Dimensions 420 x 290 x 270mm
16.54 x 11.42 x 10.63"

Airflow/Pressure 90m³/hr / 20mbar
53cfm / 20mbar

Technology



Datasheet download
bofainternational.com/v200

Configuration options



RFA
Reverse flow air technology



ACF
Advanced carbon filter technology



MVS
Multi voltage sensing unit



PATENTED
Patented technology



PROTECT
PROTECT service plan



SureCHECK
SureCHECK quality standard



V 250 FUME EXTRACTOR

The V 250 is a dual arm, portable solder fume extraction system that comes complete with two extraction arms and installation kits containing everything required to set up two operators with ease. The filter status indicator helps ensure users change the filter only when required.

Minimal installation allows this unit to be moved with the work bench when factory layouts need changing due to production requirements. The low noise level and comprehensive three-stage filtration is ideal for factories with changing production demands.

Configuration options

Unit mounted extraction arms

Table mounted installation kits and extraction arms

Digital speed control and table mounted installation kits and extraction arms



Partial enclosure fume cabinet - See page 23

Approvals UKCA and CE

Ideal partner to the **FumeCAB 250** - see page 23

Dimensions 420 x 290 x 270mm
16.54 x 11.42 x 10.63"

Airflow/Pressure 180m³/hr / 30mbar
106cfm / 30mbar

Technology



Datasheet download
bofainternational.com/v250

OUR LEADING TECHNOLOGY



iQ
Intelligent Operating System (iQ)



DeepPleat
DeepPleat pre-filter



DeepPleat DUO
Patented DeepPleat DUO pre-filter



HEPA
HEPA filter



AFC
Automatic flow control technology

V 300E FUME EXTRACTOR

Entry level arm fume extraction for solder applications. This compact, low cost system is capable of generating high airflow rates from a range of bench top attachments, including larger hoses.

This fume extraction unit can be positioned comfortably under a bench with a simple installation kit to connect to the most suitable extraction accessory.

Approvals UKCA and CE



Dimensions 450 x 330 x 310mm
17.7 x 13.8 x 12.2"

Airflow/Pressure 320m³/hr / 5mbar
188cfm / 5mbar

Technology



Datasheet download
bofainternational.com/v300e

Configuration options

Unit mounted
extraction arms

Table mounted installation
kits and extraction arms



RFA
Reverse flow air
technology



ACF
Advanced carbon
filter technology



MVS
Multi voltage
sensing unit



PATENTED
Patented
technology



PROTECT
ProTECT service
plan



SureCHECK
SureCHECK quality
standard



V 350E FUME EXTRACTOR

The V 350E is a compact, low cost extraction system, which is capable of generating high airflow rates from a range of bench top attachments, including larger hoses.

This fume extraction unit can be positioned comfortably under a bench with a simple installation kit to connect to the most suitable extraction accessory.

Approvals UKCA and CE

Configuration options

Unit mounted
extraction arms

Table mounted
installation kits and
extraction arms



Dimensions 517 x 370 x 370mm
20.4 x 14.6 x 14.6"

Airflow/Pressure 540m³/hr / 4mbar
317cfm / 4mbar

Technology



Datasheet download

bofainternational.com/v350e

OUR LEADING
TECHNOLOGY



iQ
Intelligent
Operating System
(iQ)



DeepPleat
DeepPleat pre-filter



DeepPleat DUO
Patented
DeepPleat DUO
pre-filter



HEPA
HEPA filter



AFC
Automatic flow
control technology

V 600 FUME EXTRACTOR

A truly state of the art fume purification system, the V 600 is within our high end range of extraction systems, combining large filter capacity with high airflows and pressure. It benefits from reverse flow design and DeepPleat pre-filter technology for long filter life.

This unit incorporates three-stage filtration, a filter condition display, built in silencing and can accommodate up to seven operators.

Approvals UKCA and CE

*Ideal partner to the **FumeCAB 600** - see page 24*



Dimensions	590 x 405 x 465mm 23.23 x 15.94 x 18.31"
Airflow/Pressure	350m ³ /hr / 96mbar 206cfm / 96mbar

Technology



Datasheet download
bofainternational.com/v600

Configuration option

Partial enclosure fume cabinet - See page 24



RFA
Reverse flow air technology



ACF
Advanced carbon filter technology



MVS
Multi voltage sensing unit



PATENTED
Patented technology



PROTECT
PROTECT service plan



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SureCHECK quality standard



V ORACLE SA iQ FUME EXTRACTOR

Our most compact technically advanced global system for high volume arm solder fume extraction.

The V Oracle SA iQ has been enhanced with BOFA's Intelligent Operating System (iQ) and incorporates a powerful range of unique features into one compact unit.

Approvals UKCA and CE

TRAINING DESIGNED FOR YOU

Free training modules delivered by our knowledgeable team direct to you.



For more information visit
bofainternational.com/bofa-academy

Dimensions 745 x 450 x 515 mm
29.33 x 17.72 x 20.28"

Airflow/Pressure 380m³/hr / 96mbar
223cfm / 96mbar

Technology



Datasheet download

bofainternational.com/v-oracle-sa-iq

OUR LEADING
TECHNOLOGY



iQ
Intelligent
Operating System
(iQ)



DeepPleat
DeepPleat pre-filter



DeepPleat DUO
Patented
DeepPleat DUO
pre-filter



HEPA
HEPA filter



AFC
Automatic flow
control technology

PRODUCT FEATURES
COMPARISON TABLE ON PAGE 28

ACCESSORIES
SEE PAGE 32-35



V ORACLE iQ FUME EXTRACTOR

This advanced high volume extractor combines a powerful range of features into one unit.

This versatile unit can be used across a range of electronics applications and the revolutionary auto-voltage sensing blower automatically self adjusts to run on any voltage worldwide.

Approvals UKCA and CE | cUL | UL*



Dimensions 975 x 455 x 505mm
38.39 x 17.91 x 19.88"

Airflow/Pressure 380m³/hr / 96mbar
223cfm / 96mbar

Technology



Datasheet download

bofainternational.com/v-oracle-iq

* Tested to UL and cUL standards, but testing may be provided by alternate nationally recognised test laboratories. Certain product configurations may affect the UL certification. Please speak to your sales representative.



RFA
Reverse flow air
technology



ACF
Advanced carbon
filter technology



MVS
Multi voltage
sensing unit



PATENTED
Patented
technology



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ProTECT service
plan



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SureCHECK quality
standard



V 1000 iQ | 1500 iQ FUME EXTRACTORS

These two high volume fume extraction systems combine large filter capacity with high airflow and pressure rates. They are the ideal choice for heavy duty hand and machine automated solder applications that generate large amounts of particulate and gaseous organic compounds. Catering for up to 20 operators as a centralised system or used to extract and filter fumes from automated soldering machines.

Approvals UKCA and CE | cUL | UL*

Dimensions	1205 x 615 x 790mm 47.44 x 24.21 x 31.10"
V 1000 iQ Airflow/Pressure	850m ³ /hr / 100mbar 500cfm / 100mbar
V 1500 iQ Airflow/Pressure	1250m ³ /hr / 100mbar 735cfm / 100mbar
Technology	      
Datasheet download	bofainternational.com/v-1000-iq bofainternational.com/v-1500-iq

* Tested to UL and cUL standards, but testing may be provided by alternate nationally recognised test laboratories. Certain product configurations may affect the UL certification. Please speak to your sales representative.

OUR LEADING TECHNOLOGY



iQ
Intelligent Operating System (iQ)



DeepPleat
DeepPleat pre-filter



DeepPleat DUO
Patented DeepPleat DUO pre-filter



HEPA
HEPA filter



AFC
Automatic flow control technology

V 2000 iQ FUME EXTRACTOR

The V 2000 iQ's technology delivers superior and measurable performance, helping to ensure airflow and filtration is maintained even when particulates start to build up. The dual filter system creates maximum capacity while the three-stage filtration process helps to ensure peak performance. This makes it suitable for the most demanding and complex installations, such as reflow ovens, wave solder machines and conformal coating systems, so you can rely on extended filter life, together with effective removal of fumes and particulates.

It's user friendly too, with a design that makes easy work of filter changes. The easy to read and access controls display panel is conveniently located on top of the unit. The V 2000 iQ's design also permits greater flexibility of different exhaust installations. Different exhaust configurations allow recirculation via the rear panel or externally vented hose connection systems.



Dimensions 1277 x 1318 x 1013mm
50.3 x 51.9 x 39.9"

Airflow/Pressure 2500m³/hr / 96mbar
1470cfm / 96mbar

Technology



Datasheet download

bofainternational.com/v-2000-iq

Approvals UKCA and CE



RFA
Reverse flow air technology



ACF
Advanced carbon filter technology



MVS
Multi voltage sensing unit



PATENTED
Patented technology



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V 4000 FUME EXTRACTOR

High airflow fume extraction system for reflow ovens, wave solder machines and conformal coating systems.

BOFA's V 4000 volume fume extraction system has the capacity to be used on all manufacturers of automated soldering systems.

Large filter capacity and vast carbon filters help to ensure long filter life and optimum extraction even when lead-free solder is used.

Adjustable and regulated airflow control helps to ensure consistent temperatures within the solder machine / reflow oven, throughout the life of the filters.

Approvals UKCA and CE

Dimensions	1475 x 1450 x 1500mm 50.2 x 76.7 x 43.3"
Airflow/Pressure	4000m ³ /hr / 30mbar 2354cfm / 30mbar
Technology	      
<p>Datasheet download bofainternational.com/v-4000</p>	

PRODUCT FEATURES
COMPARISON TABLE ON PAGES 28 AND 29

ACCESSORIES
SEE PAGE 32-35



FumeCAB 250 FUME CABINET

A small but versatile fume cabinet which can be used for an array of applications.

Partial enclosures are steadily becoming the preferred option for operator protection from fumes generated from processes that produce harmful fumes.

Approvals UKCA and CE

Ideal partner to the V 250 - see page 14



Dimensions 290 x 400 x 300mm
11.42 x 15.75 x 11.81"

Opening Dimensions 265 x 400mm
10.4 x 15.7"

Technology



Datasheet download
bofainternational.com/fumecab-250

Configuration option

V 250 extraction system - See page 14



RFA
Reverse flow air technology



ACF
Advanced carbon filter technology



MVS
Multi voltage sensing unit



PATENTED
Patented technology



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FumeCAB 600 FUME CABINET

Providing a larger working area with higher airflow for use in several applications, the FumeCAB 600 boasts the same features as the FumeCAB 250 and works alongside the V 600 extraction system to help protect the operator.

Approvals UKCA and CE

Ideal partner to the V 600 - see page 17

Configuration option

V 600
extraction
system - See
page 17



Dimensions 355 x 610 x 420mm
13.98 x 24.02 x 16.54"

Opening Dimensions 315 x 540mm
12.4 x 21.3"

Technology



Datasheet download

bofainternational.com/fumecab-600

OUR LEADING
TECHNOLOGY



iQ
Intelligent
Operating System
(iQ)



DeepPleat
DeepPleat pre-filter



DeepPleat DUO
Patented
DeepPleat DUO
pre-filter



HEPA
HEPA filter



AFC
Automatic flow
control technology

FumeCAB 700 FUME CABINET

A complete system for fume cabinet extraction for a broad range of applications. Partial enclosures are becoming the recommended extraction option for a variety of applications. Government bodies, including the HSE in the UK, are now making direct reference through guidance documentation - such as HSG258 - to their use.

The FumeCAB 700 integrated filtration system has been designed to help ensure compliance with the latest regulations. The innovative cam filter change design enables safer and simple front loading filter replacement and provides many benefits over alternative rear access systems. Ultra-bright slim line energy saving LED lights come as standard with optional UV lighting.

Optional: Kit for conformal coating processes

Optional: ESD compatible

Approvals UKCA and CE



Dimensions	780 x 700 x 490mm 30.71 x 27.56 x 19.29"
Opening Dimensions	675 x 225mm 26 x 8.8"

Technology



Datasheet download bofainternational.com/fumecab-700



RFA
Reverse flow air
technology



ACF
Advanced carbon
filter technology



MVS
Multi voltage
sensing unit



PATENTED
Patented
technology



PROTECT
PROTECT service
plan



SureCHECK
SureCHECK quality
standard



FumeCAB 1000 iQ FUME CABINET

The FumeCAB 1000 iQ integrated filtration system has been designed to help ensure compliance with the latest regulations.

Partial enclosures are becoming the recommended extraction option for a variety of applications. Government bodies, including the HSE in the UK, are now making direct reference through guidance documentation - such as HSG258 - to their use.

Ultra-bright slim line energy saving LED lights come as standard with optional UV lighting.

Optional: Kit for conformal coating processes

Optional: ESD compatible

Available in tall and deep versions

Approvals UKCA and CE

Configuration options



Conformal coating

ESD

Tall

Deep

Dimensions 1003 x 1000 x 655mm
39.49 x 39.37 x 25.79"

Opening Dimensions 285 x 1000 x 650mm
11.2 x 39.4 x 25.6"

Technology



Datasheet download bofainternational.com/fumecab-1000-iq

OUR LEADING TECHNOLOGY



iQ
Intelligent
Operating System
(iQ)



DeepPleat
DeepPleat pre-filter



DeepPleat DUO
Patented
DeepPleat DUO
pre-filter



HEPA
HEPA filter



AFC
Automatic flow
control technology

PRODUCT FEATURES
COMPARISON TABLE ON PAGE 29

ACCESSORIES
SEE PAGE 32-35



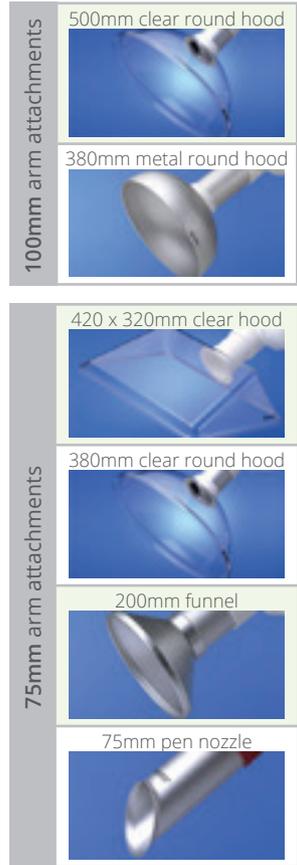
Mobile FumeKART FUME EXTRACTOR

The FumeKART is the ideal portable air extraction and filtration unit and can be applied to a variety of applications.

Designed to filter dust particles, de-drossing, vapours and other pollutants from the work environment, the FumeKART is easy to operate and maintain and provides the additional benefit of being fully portable.

Users will have flexibility and the assurance of high performance filtration. A filter condition indicator is included as a standard feature, together with three-stage filtration: pre-filter, HEPA and gas filter.

Approvals UKCA and CE



Dimensions	875 x 475 x 430mm 37.4 x 18.7 x 17"
Airflow/Pressure	380m ³ /hr / 100mbar 223cfm / 100mbar

Technology



Datasheet download bofainternational.com/mobile-fumekart



RFA
Reverse flow air
technology



ACF
Advanced carbon
filter technology



MVS
Multi voltage
sensing unit



PATENTED
Patented
technology



PROTECT
ProTECT service
plan



SureCHECK
SureCHECK quality
standard

PRODUCT FEATURES

Comparison tables

EXTRACTION SYSTEMS

	T 1	T 15	V200	V250	V300E	V350E	V600	V Oracle SA iQ	V Oracle iQ	V 1000 iQ	V 1500 iQ	V2000 iQ	V 4000
Three-stage filtration	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓
Compact design	✓	✓	✓	✓	✓	✓	✓	✓					
High vacuum blowers		✓					✓	✓	✓	✓	✓	✓	✓
Digital speed control							✓						
Auto sensing voltage (100-230V) for global use							✓	✓	✓				
Intelligent Operating System (iQ)								✓	✓	✓	✓	✓	
Automatic flow control system								✓	✓	✓	✓	✓	✓
'Easi-seal' filter location								✓	✓	✓	✓	✓	
Brushless motor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Filter blocked indicator		✓	✓	✓			✓	✓	✓	✓	✓	✓	✓
Reverse flow air technology			✓				✓	✓	✓	✓	✓	✓	
UKCA and CE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
UL*										✓	✓		
cUL*										✓	✓		
ProTECT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SureCHECK quality standard	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VOC gas sensor (Volatile Organic Compound)							✓	✓	✓	✓	✓	✓	✓
Remote stop / start interface		✓					✓	✓	✓	✓	✓	✓	✓
Filter change system fail signal		✓					✓	✓	✓	✓	✓	✓	✓
Onboard compressor								✓	✓				
Digital speed control				✓									

STANDARD FEATURES

OPTIONAL FEATURES

* Tested to UL and cUL standards, but testing may be provided by alternate nationally recognised test laboratories. Certain product configurations may affect the UL certification. Please speak to your sales representative.

Product availability may vary by region. Please contact BOFA with any questions.

STANDARD FEATURES

OPTIONAL FEATURES

	Mobile FumeXART
Filter condition indicator	✓
Digital speed control	✓
Auto sensing voltage (100-230V) for global use	✓
Lockable castors	✓
HEPA filter technology	✓
Three-stage filtration	✓
UKCA and CE	✓
Brushless motor	✓
SureCHECK quality standard	✓
ProTECT	✓
VOC gas sensor (Volatile Organic Compound)	✓
Remote stop / start interface	✓
Onboard compressor	✓
Variety of arms/hoods	✓

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FUME CABINETS

STANDARD FEATURES

OPTIONAL FEATURES

	FumeCAB 250	FumeCAB 600	FumeCAB 700	FumeCAB 1000 iq
Compact size	✓	✓		
Brushless motor			✓	✓
Side entry grommets			✓	✓
Audible and visual warning alarms			✓	✓
Filter blocked indicator			✓	✓
Advanced carbon filter technology			✓	✓
HEPA filter technology			✓	✓
LED strip lights	✓	✓	✓	✓
Intelligent Operating System (iQ)				✓
Reverse flow filter technology			✓	✓
Automatic flow control system			✓	✓
Patented technology				✓
Hose kit	✓	✓		
UKCA and CE	✓	✓	✓	✓
SureCHECK quality standard	✓	✓	✓	✓
ProTECT	✓	✓	✓	✓
VOC monitor			✓	✓
Stand			✓	✓
Conformal coating blackout kit			✓	✓
UV lights			✓	✓
Anti-static (ESD)			✓	✓
Tall				✓
Deep				✓

APPLICATION CHART

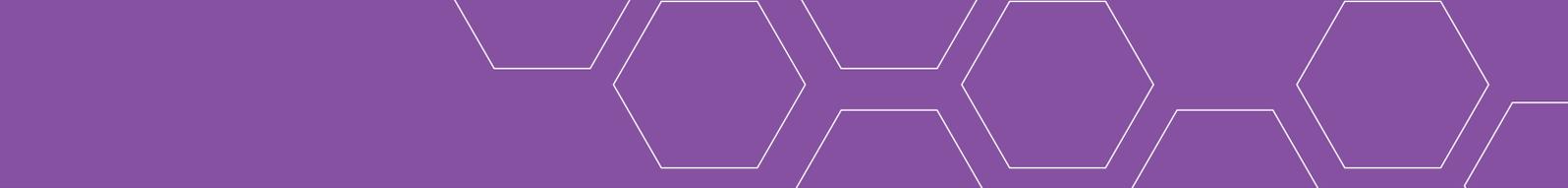


Tip

Tip extraction	✓	✓					
Max number of tips	1	15					

Volume

Arm extraction			✓	✓	✓	✓	✓
Max number of arms			1	2	2	2	6
Hand soldering (inc. lead free)	✓	✓	✓	✓	✓	✓	✓
Rework stations	✓	✓	✓	✓	✓	✓	✓
Selective soldering							
PCB drilling			✓	✓			✓
De-soldering	✓	✓	✓	✓	✓	✓	✓
Brazing							
Silver soldering							
Laser soldering							
Spray cleaning				✓			✓
PCB de-lugging			✓	✓			✓
Gluing			✓	✓			✓
Potting			✓	✓			✓
Machine soldering							
Wave soldering							
Automated soldering							
Reflow ovens							
Rec max airflow (m³/hr) for oven							



Mobile extraction system

V Oracle SA iQ	V Oracle iQ	V 1000/1500 iQ	V 2000 iQ	V 4000	FumeKART
					
✓	✓	✓	✓	✓	✓
4	4	8 / 12	20	40	1
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	
✓	✓	✓	✓	✓	
✓	✓	✓	✓	✓	
	✓	✓	✓	✓	
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		✓	✓	✓	
		✓	✓	✓	
		✓	✓	✓	
		✓	✓	✓	
		510 / 780	2100	2200	

Tip and Volume extraction accessories and filters



Tip systems	
T1	x 1
T 15	x 15



Volume systems	32/50mm unit mounted stay put arm	32/50mm stay put arm with benchtop bracket	75mm unit mounted stay put arm	75mm stay put arm with benchtop bracket	Speed control box
V 200	✓	✓			
V 250	✓	✓			✓
V 300E			✓	✓	
V 350E			✓	✓	
V 600		✓		✓	
V Oracle SA iQ		✓		✓	
V Oracle iQ		✓		✓	
V 1000 iQ		✓		✓	
V 1500 iQ		✓		✓	
V 2000 iQ		✓		✓	
V 4000		✓		✓	

✓ = 50mm and above for multiple arm set ups (dependant on requirement).

FILTER TECHNOLOGY

The electronics range is designed around a complete three-stage filtration setup. These three stages give complete filtration at all levels and provide protection from different potentially hazardous particulate and fume elements. The cheaper pre-filter is designed as a barrier for the majority of contaminate, protecting the more expensive HEPA and carbon filters, allowing for long filter life and lower cost of ownership across the lifetime of the unit.

For more information visit
bofainternational.com/filters

ACCESSORIES

We have created an extensive range of accessories and hose kits to complement the electronics range. From LED light arms to down draught trays and cowls, you'll find the perfect accessory to match your extractor and an array of hose kits in many shapes, sizes and combinations most suited to your application. Contact your sales representative for more information or visit

bofainternational.com/accessories



Tip and Volume extraction accessories

BOFA offer a wide range of volume extraction accessories. From extraction arms with diameters of 32mm for intricate soldering, up to 75mm arms for heavy duty applications such as transformer production. Down draft trays and table top cowls for specific production demands are also available.

Number reference to photo	Description	Part number
1	32mm ESD stay put arm with funnel	A1020044
2	32mm ESD stay put arm with nozzle	A1020046
3	50mm ESD stay put arm with funnel	A1020045
4	50mm ESD stay put arm with nozzle	A1020047
5	50mm ESD stay put arm with slot	A1020049
6	75mm ESD stay put arm - unit mounted	A1020042
7	75mm ESD bench bracket	A1020043
8	38mm Stainless steel ESD stay put arm with nozzle	A1020160
9	38mm Stainless steel ESD stay put arm with funnel	A1020184
10	50mm ESD cowl	A1020037
11	50mm Clear cowl	A1020036
12	75mm ESD cowl (black)	A1020039
13	75mm Clear cowl	A1020038
14	50mm ESD down draft tray	A1020040
15	75mm ESD down draft tray	A1020041
16	Table bracket for 32mm and 50mm	A1020051
17	Automatic flush system seal for 32mm and 50mm	A1020052
18	50mm ESD stay put arm with plenum funnel	A1020179
19	50mm stay put arm with nozzle - 1m long (unit mounted)	A1020048
20	Light arm - white	A1020168
21	Light arm - black	A1020169



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Can't find an accessory that fits your requirements?

We have an extensive range of accessories available. On request we can create bespoke accessories to complement our full range of BOFA dust and fume extraction systems.

Speak to our knowledgeable team today to find the appropriate system for your specific requirements.



A Donaldson Company

A WORLD LEADER IN FUME
EXTRACTION TECHNOLOGY

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