The Future of Fume Extraction...

250
m³/ hr
250
22
°C
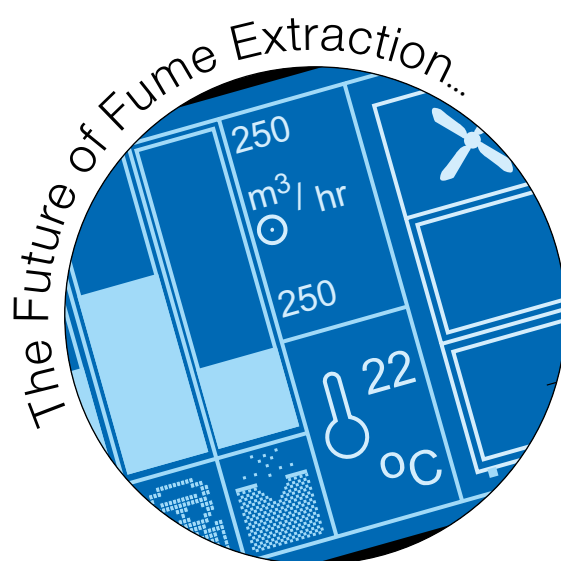
DIGITAL
RANGE

BROCHURE

Sales contact :
www.smarttec.dk

smart **Tec**

smart technology products and solutions

PUREX
FUME EXTRACTION SYSTEMS

Contents

Protecting People and the Environment with Innovative Technology

Health & Safety Legislation

Local and international health and safety legislation (such as COSHH, NIOSHH, OSHA etc) states that it is the employers responsibility to protect the health, welfare and safety of their employees. Failure to do so can result in expensive legal action, potential fines and poor employee relations

The Need for Fume Extraction

Many types of dust and fume are hazardous to health if inhaled. People can become permanently sensitised to fumes which means that continued exposure, even to very small amounts of fume, may cause asthma attacks or other respiratory diseases. A high performance fume extraction system will help to:-

- Protect employee health.
- Ensure compliance with Health & Safety regulations such as OSHA, NIOSH, COSHH, MAK, AFNOR and HSG258 or equivalent
- Increase production speeds.
- Reduce complaints by operators due to odours, dust and vapours.
- Avoid the possible cost of health compensation claims.

- Reduce the cost & time to clean laser lenses, conveyors, guarding, soldering machines and other equipment.
- Reduce product contamination.
- Provide a better working environment.
- Reduce downtime.

Which Extraction System?

There are usually two types of extraction system available:-

- External - pump contaminated air outside
- Internal - at source capture and filtration or LEV (local exhaust ventilation) system

In our opinion the best system to use is an LEV system such as a Purex. These capture fumes at the source thereby preventing fumes escaping into the workplace. They also filter hazardous particles and gasses which would otherwise be pumped into the outside environment causing pollution.

Using an internal filter system also avoids issues with environmental regulations and potential complaints from neighbouring businesses about fumes and odours.

Purex LEV systems sit next to the process and the extraction rate can be altered precisely to suit the application. Purex machines are also easy to move if the process moves.

LEV systems have additional benefits over external exhaust systems.

See comparison table below...

> " *Purex LEV engineers are qualified to BOHS P601 or P602* "

LEV
Local Exhaust Ventilation

COMPARISON: Exhaust into the Environment System "vs" Purex LEV System...

| Comparison Question	Exhausting into the Environment	Purex LEV System
How long will it take to install the system?	Several days on average.	In many cases just minutes.
Will there be any disruption in the workplace?	Scaffold, ladders etc. may be required in several places, disrupting work for lengthy periods.	Minor, if any.
Can the system be moved?	Only with scaffold etc. and disruption to work.	Yes. Simply disconnect and push to new location.
Are holes in the building required?	Yes. They need to be specially cut and sealed.	No.
Are external emissions regulations a problem?	Company must investigate and obey local laws.	Not applicable.
Is there any energy lost e.g. heating costs?	Energy (and therefore money) is wasted when heated or conditioned air is pumped outside.	No energy or heat is lost as the air is recycled. So costs are lowered.
Are there any ducting / installation costs?	Potentially expensive - as ducting needs to be purchased and specialist installation is required.	Minimal if any, depending on process.
Are there any cleaning costs?	Specialist cleaning required to prevent risk of fire or contamination. Again, scaffold, disruption & cost.	One annual service is recommended to comply with regulations such as COSHH.
Are there any decontamination costs?	Specialist decontamination may be required.	None
Can fumes be drawn back into the workplace?	Yes. Through windows or vents.	Fumes are captured by highly efficient filters
Could there be disputes with my neighbours?	Yes. Over hazardous fumes and odours.	Not applicable.

"The Ultimate in Advanced Control, Monitoring, Performance and Safety Features"

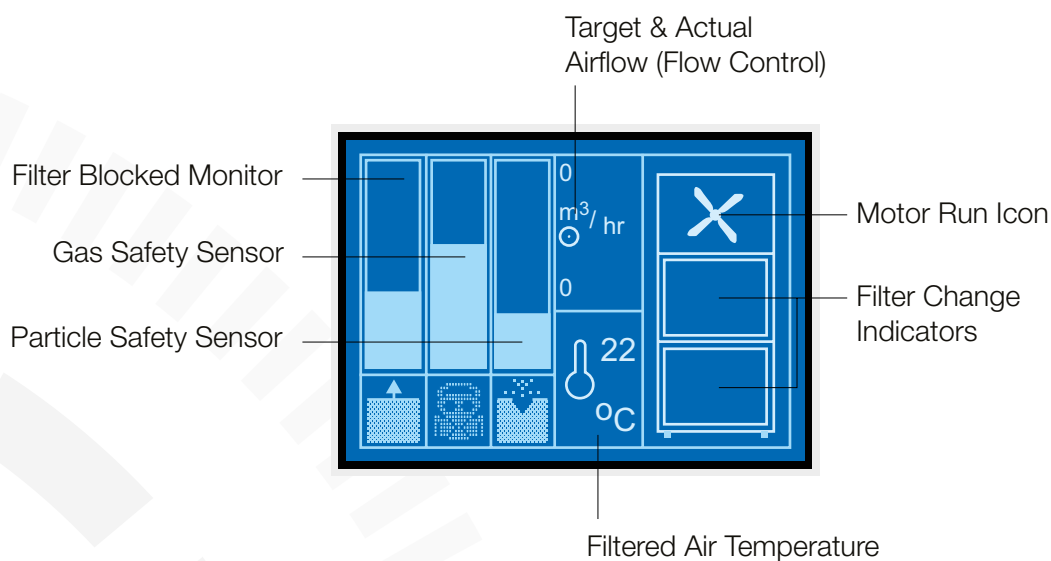WATER PROOF FASCIA   GRAPHIC DISPLAY   MENU BUTTONS
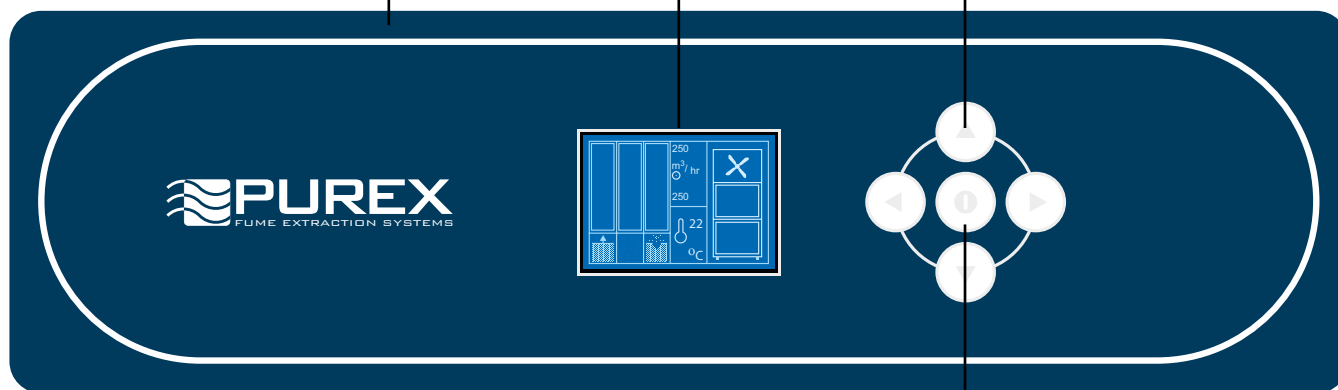
ON/OFF SWITCH

A dedicated control, monitoring and display system unique to Purex fume extractors.
All functions are fully automatic, all the user has to do is set the appropriate airflow on installation.

The many features of this system are designed to:

• Protect people by constantly monitoring exhaust emissions.
• Maintain a constant airflow and lower energy consumption by using variable speed motors which also allow the use of a fully automatic flow control system.
• Show the operator at a glance the status of the machine via an advanced graphic display.

Target & Actual Airflow (Flow Control)

Filter Blocked Monitor

Gas Safety Sensor

Particle Safety Sensor

Motor Run Icon

Filter Change Indicators

Filtered Air Temperature

Digital Control System

Gas Sensors

Constantly monitors the chemical filters to warn the user when they are nearly saturated. This helps reduce downtime by allowing the user time to make replacement filters ready. Gas sensors also warn the user if hazardous gas is passing through the system, e.g. due to a missing, damaged or incorrectly fitted filter.

Particle Sensors

Constantly monitors the particle filters to warn the user if hazardous particles are passing through the system, e.g. due to a missing, damaged or incorrectly fitted filter.

Speed Control

The user can set the required airflow for the process. The motor will automatically speed up or slow down until the "actual" airflow equals the "required" airflow.

This system is energy efficient as the motor does not have to constantly run at 100%. It also means the machine is quieter and the filters last longer.

Flow Control

Purex "Flow Control" automatically increases the speed of the motor as the filter blocks to keep extraction constant and ensure fumes are captured effectively throughout the life of the filter.
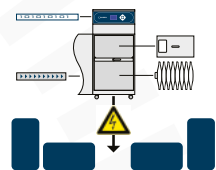
Filter Status

Constantly monitors the particle filters to warn the user when they are nearly full. This helps reduce downtime by allowing the user time to make replacement filters ready.

Filter Indicator

If a filter is nearly blocked or if the gas or particle alarms are triggered, this icon will show which filters may need attention.

This makes it easier and quicker for the user to identify where the problem may be. This icon also indicates to the user when the motor is running.

Temperature

An adjustable alarm to warn if the filtered air temperature goes above a certain level.

Interface

Allows the Purex unit to communicate with associated equipment such as lasers or reflow ovens etc. Options:

- Synchronised STOP/START
- Automatic run on (extraction continues for a set period after associated equipment is stopped.)
- Filter Alarm Signals
- Several connection types
- Remote ON/OFF switch

Accessories: (See separate Brochure)

Additional Filtration

Some applications may require additional filter capacity, for example the Cascade filter can extend the life of other filters in problematic applications.

Arms & Pipework

Accessories include arm, tip and pipework kits.

Remote ON/OFF

Switch your Purex fume extractor on/off from up to 5m away. This is particulary useful if your fume extractor is tucked away under a bench where it cannot easily be accessed.

Services Provided

Installation

Correct installation is essential to aid compliance with health and safety regulations and to protect your people and process.

LEV Testing

LEV testing is also essential to aid compliance with health and safety regulations and to protect your people and process.

Contact Purex on 01405 746045 or email lev@purex.co.uk
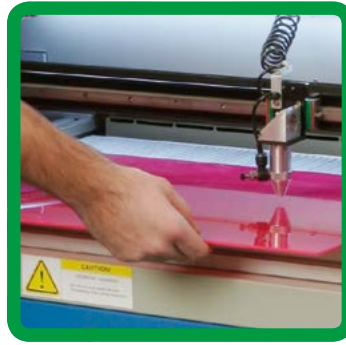
SOLDERING & ELECTRONICS MANUFACTURING

Machine	Arm Extraction, Cabinets & Cowls						Tip Extraction	Reflow	Wave
	Max No. Arms 38mm	Max No. Arms 50mm	Max No. Arms 75mm	Max No. Arms 100mm	Max No. Cleancabs	Max No. Cowls	Max No. Soldering Iron Tips	Oven Extract Volume Required m³/hr	Oven Extract Volume Required m³/hr
200	3	2	-	-	1	2	up to 30	-	-
400	6	4	1	1	1-2	4	-	-	-
200i	3	2	-	-	1	2	up to 30	-	-
200i-HP	-	-	-	-	-	-	up to 50	-	-
400i	6	4	1	1	1-2	4	-	-	-
650	-	-	2	-	-	-	-	-	-
800i	9	8	4	2	2-4	6	-	-	-
1500i	12	12	-	5	4-8	8	-	Below 900	-
2000i	15	15	-	5	6-12	10	-	Below 1500	Below 1500
5000i	36	36	-	10	12-24	20	-	Over 1500	Over 1500

Notes:
1. The selection is based on the use of a standard connection kit.
2. A larger extraction machine may be required depending on the layout and the type of fume or dust.
3. Continuous use may require a machine with larger filtration capacity.

4. In some cases more arms/cowls can be used e.g. for non coalescing vapours such as solvents or where airflow valves can be opened and closed.

IMPORTANT: Choose a vacuum control machine for Arm and Tip extraction and a volume control machine for other applications.

LASER ENGRAVING

Size of Laser Engraving Machine		400i	800i 2 tier	800i 3 tier	1500i	1750i	2000i	5000i
Light Use	Heavy Use*							
Small		●	-	▲	-	-	-	-
	Small	●	-	▲	-	-	-	-
Medium		●	■	▲	-	-	-	-
	Medium	x	●	▲	■	-	-	-
Large		x	x	x	●	▲	■	-
	Large	x	x	x	-	x	●	■
Extra large open bed lasers		x	x	x	x	x	●	■

Approximate laser bed sizes:
Small - 16"x12", Medium - 24"x12", Large - Anything over this.

● Normal selection.
■ Select if extra filter capacity is required and/or additional airflow is required to extract from multiple lasers or heavy duty applications.
(-) May also be considered.
x Unit not usually specified for application.
▲ Consider if continually lasing acrylic.

Notes: Always select a volume control machine.
1. The selection is based on the use of standard connection kit.
2. ★ Heavy use includes high proportion of cutting, lasers with a deep bed and constant use. Contact Purex for further advice.
3. In applications with extremely high dust emissions, a Cascade inline filter can be considered.

Laser Coding & Marking

CPM (Codes per Minute)		200i	400i	800i 2 tier (High Dust)	800i 3 tier (High Gas)	1500i	1750i (High Gas)	2000i	5000i
Good Enclosure	Poor Enclosure								
<200		●	■	-	-	-	-	-	-
	<200	x	●	■	-	-	-	-	-
200-500		x	●	■	-	-	-	-	-
	200-500	x	x	●	■	-	-	-	-
>500		x	x	●	■	-	-	-	-
	>500	x	x	x	x	●	■	■	-
Machines for Lasing PVC		x	▲	x	▲	x	▲	x	▲

● Normal selection.

■ Select if extra filter capacity is required and/or additional airflow is required to extract from multiple lasers or heavy duty applications.

(-) May also be considered.

x Unit not usually specified for application.

▲ Optional "PVC" machines should be used when lasing onto PVC

Notes: Always select a volume control machine.

1. The selection is based on the use of standard connection kit.
2. The 800i 3 tier unit is designed for use where the application has low dust, but high gas emissions. The 2 tier is designed for applications producing high dust emissions.
3. A poor enclosure is where less than 4 sides of the process are enclosed.

Continuous Inkjet Coding & Marking

Small Character Inkjet Printers	200	400	800
See Notes	●	■	■

● Normal selection.

■ Select if additional airflow is required to extract from multiple inkjet heads or if the controller unit has cooling fans installed.

Notes: Always select a volume control machine.

There are many different makes and models of inkjet printers available. Please contact Purex or your local representative for advice on which model is correct for particular applications.

IMPORTANT:
- This is a guide only, many factors influence the choice of fume extraction system. For more help and information please contact Purex or your local representative
- Purex recommends the use of anti static hose with continuous inkjet printers.

DISPENSING AND CONFORMAL COATING

	Model		
Process Time	800 WHITE	800 STAINLESS	800i 3 Tier
8 Hours	●	●	-
24 Hours	x	x	●

● Normal selection.   (-) May also be considered.   x Unit not usually specified for application.

THE ULTIMATE IN FLEXIBILITY - 650

- The fully mobile unit with integrated arms gives you the "Ultimate in Flexibility" around the workplace.
- With a large selection of filters the 650 can be applied on many processess including soldering, adhesives, chemicals and more.

DYE SUBLIMATION

- Includes special filter box which allows excess fluid to be drained from the process, giving longer filter life.

If your process creates a hazard contact Purex. We have a solution.

200 & 400

1 2 3	200		400	
Voltage	230V ±10%	120V ±10%	230V ±10%	120V ±10%
Volume Control	0LX2100D	0LX2101D	0LX4000D	0LX4001D
Vacuum Control	080026D	081026D	080410D	080411D
Wattage	0.46 kW	0.47 kW	1.30 kW	1.37 kW
Frequency	50Hz / 60 Hz	50Hz / 60 Hz	50Hz / 60 Hz	50Hz / 60 Hz
Cabinet height (inc castors)	710 mm	710 mm	710 mm	710 mm
Cabinet width (not inc hose)	445 mm	445 mm	445 mm	445 mm
Cabinet depth (not inc hose)	528 mm	528 mm	528 mm	528 mm
Cabinet weight	50 Kg	50 Kg	50 Kg	50 Kg
Sound Rating (dBA)	52	55	52	55
Airflow m³/hr	150	150	467	456
Vacuum (kPa)	17.29	16.28	9.92	9.10`

4 — Pre-filter Pad

Pack of four supplied - See page 19-20

5 — Main Filter

One supplied - See page 21-22
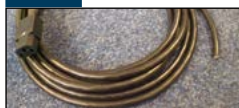for your application

6 — Connection Hose Kit

Process → Extractor

One supplied - See page 23-25
to suit your system

7 — Power Cable

One supplied - See page 26
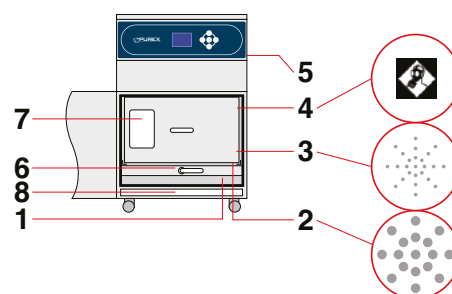for your country & voltage

8 — Machine Interfacing (Optional)

Your Machine 10011010 ↔ 10011010 Extractor

Allows the Purex system to interface with a piece of equipment connected to it.

See page 27-29
to match your system

Air Compressor Available For This Model

Optional Clean Air Cowl - 190040

Legend:
1) Air inlet - 80mm safe seal.
2) Pre-filter.
3) Main Filter (HEPA location). †
4) Main Filter (Carbon location). †
5) Clean air returned to workplace.
6) Filter locking handle.
7) Filter identification label.
8) Debris tray.

All machines are mounted on four castors for increased mobility.

† Standard Filter Only

Digital Control System

A dedicated control, monitoring and display system unique to Purex fume extractors. All functions are fully automatic, all the user has to do is set the appropriate airflow on installation. The features of this system are designed to:
• Lower energy consumption by using variable speed motors and automatic flow control.
• Increase filter life by using the optimal extraction rate.
• Further protect people by constantly monitoring exhaust emissions.
• Interface with other equipment e.g. a laser.
• Maintain a constant extraction rate to prevent fume escape or damage to equipment.

System Features...

• Automatic electronic flow control – maintains a constant extraction rate even as the filter blocks
• Adjustable airflow
• Clear and informative graphic display
• Gas and particle sensors on the exhaust
• Low capital and running costs
• Quick change pre-filters deliver longer filter life
• Submicronic (HEPA) filtration removes 99.997% of particles down to 0.3 microns
• Activated carbon filtration removes harmful gas
• Simple to install and quiet in operation
• Easy to relocate
• Precision made from stainless steel
• High performance brushless motors

Includes:
1 x Main filter
4 x Pre-filter pads
1 x Connection kit
1 x Power cable

Accessories
Please see the accessories brochure.

200i & 400i

1 2 3	200i		200i-HP	400i	
Voltage	230V ±10%	120V ±10%	230V ±10%	230V ±10%	120V ±10%
Volume Control	0LX2110D	0LX2121D	-	0LX4010D	0LX4013D
Vacuum Control	080026iD	081026iD	080050iD	080410iD	080411iD
Wattage	0.46 kW	0.47 kW	1.30 kW	1.30 kW	1.37 kW
Frequency	50Hz / 60 Hz	50Hz / 60 Hz	50Hz / 60 Hz	50Hz / 60 Hz	50Hz / 60 Hz
Cabinet height (inc castors)	1070 mm	1070 mm	1070 mm	1070 mm	1070 mm
Cabinet width (not inc hose)	465 mm	465 mm	465 mm	465 mm	465 mm
Cabinet depth (not inc hose)	528 mm	528 mm	528 mm	528 mm	528 mm
Cabinet weight	60 Kg	60 Kg	60 Kg	60 Kg	60 Kg
Sound Rating (dBA)	52	55	52	52	55
Airflow m³/hr	150	150	193	467	456
Vacuum (kPa)	17.29	16.28	20.40	9.92	9.10

4 — Labyrinth Pre-filter

Pack of two supplied - See page 19-20

5 — Main Filter

One supplied - See page 21-22
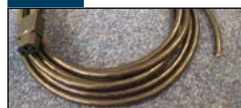for your application

6 — Connection Hose Kit

Process → Extractor

One supplied - See page 23-25
to suit your system

7 — Power Cable

One supplied - See page 26
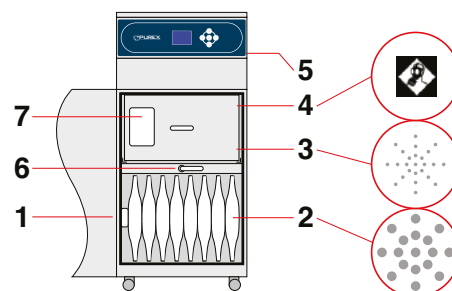for your country & voltage

8 — Machine Interfacing (Optional)

Your Machine 10011010 ↔ 10011010 Extractor

Allows the Purex system to interface with a piece of equipment connected to it.

See page 27-29
to match your system

Air Compressor Available For This Model

Optional Clean Air Cowl - 190040

Legend:
1) Air inlet - 80mm safe seal.
2) Pre-filter.
3) Main Filter (HEPA location). †
4) Main Filter (Carbon location). †
5) Clean air returned to workplace.
6) Filter locking handle.
7) Filter identification label.

All machines are mounted on four castors for increased mobility.

† Standard Filter Only

Digital Control System

A dedicated control, monitoring and display system unique to Purex fume extractors. All functions are fully automatic, all the user has to do is set the appropriate airflow on installation. The features of this system are designed to:

• Lower energy consumption by using variable speed motors and automatic flow control.
• Increase filter life by using the optimal extraction rate.
• Further protect people by constantly monitoring exhaust emissions.
• Interface with other equipment e.g. a laser.
• Maintain a constant extraction rate to prevent fume escape or damage to equipment.

System Features...

• Automatic electronic flow control – maintains a constant extraction rate even as the filter blocks
• Adjustable airflow
• Clear and informative graphic display
• Gas and particle sensors on the exhaust
• Low capital and running costs
• Quick change patented Labyrinth pre–filters deliver longer filter life
• Submicronic (HEPA) filtration removes 99.997% of particles down to 0.3 microns
• Activated carbon filtration removes harmful gas
• Simple to install and quiet in operation
• Easy to relocate and precision made from stainless steel
• High performance brushless motors

Includes:

1 x Main filter
2 x Labyrinth pre-filters
1 x Connection kit
1 x Power cable

Accessories

Please see the accessories brochure.

400i PVC

1 2 400i PVC

Voltage	230V ±10%	120V ±10%
Volume Control	0PV4010D	0PV4013D
Wattage	1.30 kW	1.37 kW
Frequency	50Hz / 60 Hz	50Hz / 60 Hz
Cabinet height (inc castors)	1181 mm	1181 mm
Cabinet width (not inc hose)	465 mm	465 mm
Cabinet depth (not inc hose)	528 mm	528 mm
Cabinet weight	70 Kg	70 Kg
Sound Rating (dBA)	52	55
Airflow m³/hr	467	465
Vacuum (kPa)	9.92	9.10

4 Labyrinth Pre-filter and pads

Pack of two pre-filters and
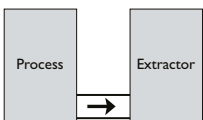pack of four pads supplied - See page 19-20

5 Main Filter

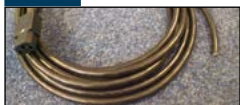One supplied - See page 21-22
for your application

6 Connection Hose Kit

Process → Extractor

One supplied - See page 23
to suit your system
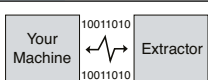
7 Power Cable

One supplied - See page 26
for your country & voltage
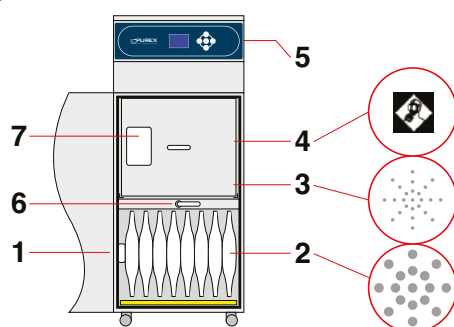
8 Machine Interfacing (Optional)

Your Machine 10011010 ↔ 10011010 → Extractor

Allows the Purex system to interface with a piece of equipment connected to it.

See page 27-29
to match your system

Optional Clean Air Cowl - 190040

Air Compressor Available For This Model

Legend:
1) Air inlet - 80mm safe seal.
2) Pre-filter.
3) Main Filter (HEPA location).
4) Main Filter (Carbon location).
5) Clean air returned to workplace.
6) Filter locking handle.
7) Filter identification label.

- All machines are mounted on four castors for increased mobility.
- An absorbant pad is also supplied to fit under the Labyrinth filter.

Digital Control System

A dedicated control, monitoring and display system unique to Purex fume extractors. All functions are fully automatic, all the user has to do is set the appropriate airflow on installation. The features of this system are designed to:

- Lower energy consumption by using variable speed motors and automatic flow control.
- Increase filter life by using the optimal extraction rate.
- Further protect people by constantly monitoring exhaust emissions.
- Interface with other equipment e.g. a laser.
- Maintain a constant extraction rate to prevent fume escape or damage to equipment.

System Features...

- Automatic electronic flow control – maintains a constant extraction rate even as the filter blocks
- Adjustable airflow
- Clear and informative graphic display
- Gas and particle sensors on the exhaust
- Low capital and running costs
- Quick change patented Labyrinth pre–filters deliver longer filter life
- Submicronic (HEPA) filtration removes 99.997% of particles down to 0.3 microns
- Activated carbon filtration removes harmful gas
- Simple to install and quiet in operation
- Easy to relocate and precision made from stainless steel
- High performance brushless motors

Includes:

1 x Main filter
2 x Labyrinth pre-filters
4 x Absorbant pads
1 x Connection kit
1 x Power cable

Accessories

Please see the accessories brochure.

400i - Dye Sublimation

400i for Dye Sublimation Printers

Voltage	230V ±10%	120V ±10%
Volume Control	**0LX4027**	**0LX4028**
Wattage	1.30 kW	1.37 kW
Frequency	50Hz / 60 Hz	50Hz / 60 Hz
Cabinet height (inc castors)	1070 mm	1070 mm
Cabinet width (not inc hose)	465 mm	465 mm
Cabinet depth (not inc hose)	528 mm	528 mm
Cabinet weight	60 Kg	60 Kg
Sound Rating (dBA)	52	55
Airflow m³/hr	467	465
Vacuum (kPa)	9.92	9.10

4 — Labyrinth Pre-filter

Pack of two supplied - See page 19-20

5 — Main Filter

One supplied - See page 21-22
for your application

Optional Clean Air Cowl - 190040

6 — Connection Hose Kit

Process → Extractor

One supplied - See page 23-25
to suit your system

7 — Power Cable

One supplied - See page 26
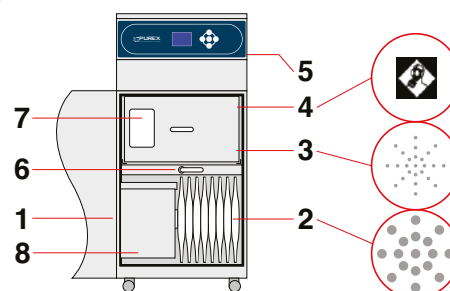for your country & voltage

8 — Machine Interfacing (Optional)

Your Machine 10011010 ↔ 10011010 Extractor

Allows the Purex system to interface with a piece of equipment connected to it.

See page 27-29
to match your system

Legend:
1) Air inlet - 80mm safe seal.
2) Pre-filter.
3) Main Filter (HEPA location). †
4) Main Filter (Carbon location). †
5) Clean air returned to workplace.
6) Filter locking handle.
7) Filter identification label.
8) Condenser Unit

All machines are mounted on four castors for increased mobility.

† Standard Filter Only

Digital Control System

A dedicated control, monitoring and display system unique to Purex fume extractors. All functions are fully automatic, all the user has to do is set the appropriate airflow on installation. The features of this system are designed to:

• Lower energy consumption by using variable speed motors and automatic flow control.
• Increase filter life by using the optimal extraction rate.
• Further protect people by constantly monitoring exhaust emissions.
• Interface with other equipment e.g. a laser.
• Maintain a constant extraction rate to prevent fume escape or damage to equipment.

System Features...

• Glycol condensor unit
• Automatic electronic flow control – maintains a constant extraction rate even as the filter blocks
• Adjustable airflow
• Clear and informative graphic display
• Gas and particle sensors on the exhaust
• Low capital and running costs
• Quick change patented Labyrinth pre-filters deliver longer filter life
• Submicronic (HEPA) filtration removes 99.997% of particles down to 0.3 microns
• Activated carbon filtration removes harmful gas
• Simple to install and quiet in operation
• Easy to relocate and precision made from stainless steel
• High performance brushless motors

Includes:

1 x Main filter
2 x Labyrinth pre-filter
1 x Condensor unit
1 x Connection kit
1 x Power cable

Accessories

Please see the accessories brochure.

650

1 2 3 — 650

Voltage	230V ±10%	120V ±10%
Volume Control	080467D	080472D
Vacuum Control	080465D	080470D
Wattage	0.36 kW	0.36 kW
Frequency	50Hz / 60 Hz	50Hz / 60 Hz
Cabinet height (inc castors)	720 mm	720 mm
Cabinet width (not inc hose)	445 mm	445 mm
Cabinet depth (not inc hose)	610 mm	610 mm
Cabinet weight	50 Kg	50 Kg
Sound Rating (dBA)	50	50
Airflow m³/hr (1 arm)	238	238
Vacuum (kPa)	2.8	2.8

4 — Pre-filter Pad

Pack of four supplied - See page 19-20

5 — Main Filter

One supplied - See page 21-22
for your application

6 — Arm

One arm and one hood supplied - See page 31

7 — Power Cable

One supplied - See page 26
for your country & voltage

8 — Machine Interfacing (Optional)

Your Machine 10011010 ⟶ Extractor 10011010

Allows the Purex system to interface with a piece of equipment connected to it.

See page 27-29
to match your system

The 650 is supplied with one 75mm multi-position arm attached directly to the rear of the machine.

A second arm is optional.

Legend:
1) Rear air inlet - 75mm x 2 to connect extraction arm/s
2) Pre-filter.
3) Main Filter (HEPA location). †
4) Main Filter (Carbon location). †
5) Clean air returned to workplace.
6) Filter locking handle.
7) Filter identification label.

All machines are mounted on four castors for increased mobility.

† Standard Filter Only

Digital Control System

A dedicated control, monitoring and display system unique to Purex fume extractors. All functions are fully automatic, all the user has to do is set the appropriate airflow on installation. The features of this system are designed to:

• Lower energy consumption by using variable speed motors and automatic flow control.
• Increase filter life by using the optimal extraction rate.
• Further protect people by constantly monitoring exhaust emissions.
• Interface with other equipment e.g. a laser.
• Maintain a constant extraction rate to prevent fume escape or damage to equipment.

System Features...

• Automatic electronic flow control – maintains a constant extraction rate even as the filter blocks
• Adjustable airflow
• Clear and informative graphic display
• Gas and particle sensors on the exhaust
• Low capital and running costs
• Quick change pre-filters deliver longer filter life
• Submicronic (HEPA) filtration removes 99.997% of particles down to 0.3 microns
• Activated carbon filtration removes harmful gas
• Simple to install and quiet in operation
• Easy to relocate
• Precision made from stainless steel
• High performance brushless motors

Includes:
1 x Main filter
4 x Pre-filter pads
1 x Arm & hood
1 x Power cable

Accessories
Please see the accessories brochure.

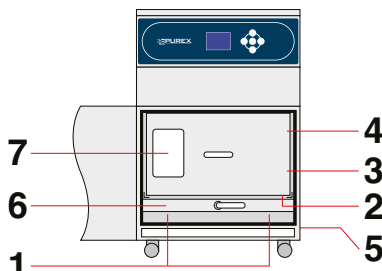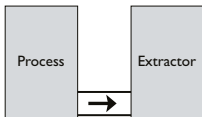| What to specify... | 1. Model | 2. Voltage | 3. Volume or Vacuum | 4. Pre-filter | 5. Main filter | 6. Connection Kit | 7. Power Lead | 8. Interfacing Kit |

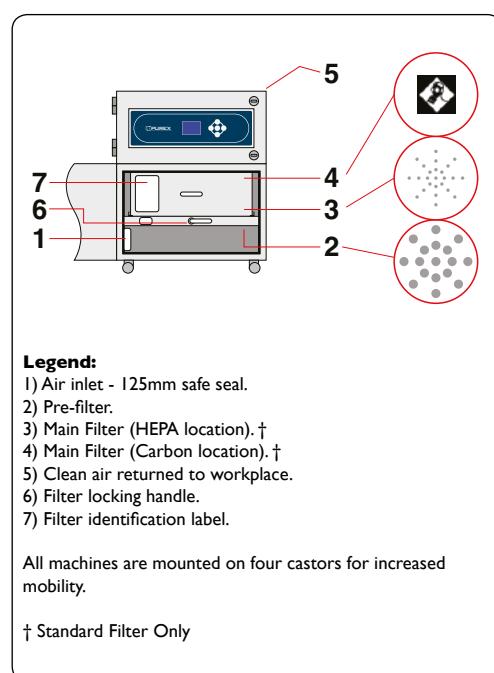| 1	2	3	800 Stainless		800 White	
Voltage			230V ±10%	120V ±10%	230V ±10%	120V ±10%
Volume Control			080751D	080752D	080749D	080750D
Vacuum Control			080753D	080754D	080756D	080757D
Wattage			2.40 kW	2.74 kW	2.40 kW	2.74 kW
Frequency			50Hz / 60 Hz	50Hz / 60 Hz	50Hz / 60 Hz	50Hz / 60 Hz
Cabinet height (inc castors)			740 mm	740 mm	740 mm	740 mm
Cabinet width (not inc hose)			571 mm	571 mm	571 mm	571 mm
Cabinet depth (not inc hose)			670 mm	670 mm	670 mm	670 mm
Cabinet weight			80 Kg	80 Kg	80 Kg	80 Kg
Sound Rating (dBA)			57	57	57	57
Airflow m³/hr			800	800	800	800
Vacuum (kPa)			9.92	9.10	9.92	9.10

4

Pre-filter Pad

Pack of four supplied - See page 19-20

5

Main Filter

One supplied - See page 21-22
for your application

6

Connection Hose Kit

Process → Extractor

One supplied - See page 23-25
to suit your system

7

Power Cable

5M Fixed power cable, no plug fitted.

8

Machine Interfacing (Optional)

Your Machine 10011010 ↔ 10011010 Extractor

Allows the Purex system to interface with a piece of equipment connected to it.

See page 27-29
to match your system

Air Compressor Available For This Model

Optional Clean Air Cowl - 190039 (Stainless Only)

Legend:
1) Air inlet - 125mm safe seal.
2) Pre-filter.
3) Main Filter (HEPA location). †
4) Main Filter (Carbon location). †
5) Clean air returned to workplace.
6) Filter locking handle.
7) Filter identification label.

All machines are mounted on four castors for increased mobility.

† Standard Filter Only

Digital Control System

A dedicated control, monitoring and display system unique to Purex fume extractors. All functions are fully automatic, all the user has to do is set the appropriate airflow on installation. The features of this system are designed to:

• Lower energy consumption by using variable speed motors and automatic flow control.
• Increase filter life by using the optimal extraction rate.
• Further protect people by constantly monitoring exhaust emissions.
• Interface with other equipment e.g. a laser.
• Maintain a constant extraction rate to prevent fume escape or damage to equipment.

System Features...

• Automatic electronic flow control – maintains a constant extraction rate even as the filter blocks
• Adjustable airflow
• Clear and informative graphic display
• Gas and particle sensors on the exhaust
• Low capital and running costs
• Quick change pre-filters deliver longer filter life
• Submicronic (HEPA) filtration removes 99.997% of particles down to 0.3 microns
• Activated carbon filtration removes harmful gas
• Simple to install and quiet in operation
• Easy to relocate
• Precision made from stainless steel
• High performance brushless motors

Includes:
1 x Main filter
4 x Pre-filter pad
1 x Power cable (no plug)

Accessories
Please see the accessories brochure.

800i

1 2 3	800i - 2 Tier		800i - 3 Tier	
Voltage	230V ±10%	120V ±10%	230V ±10%	120V ±10%
Volume Control	080502D	080503D	080501D	080500D
Vacuum Control	080505D	080507D	080504D	080506D
Wattage	2.60 kW	2.74 kW	2.60 kW	2.74 kW
Frequency	50Hz / 60 Hz	50Hz / 60 Hz	50Hz / 60 Hz	50Hz / 60 Hz
Cabinet height (inc castors)	1143 mm	1143 mm	1143 mm	1143 mm
Cabinet width (not inc hose)	571 mm	571 mm	571 mm	571 mm
Cabinet depth (not inc hose)	670 mm	670 mm	670 mm	670 mm
Cabinet weight	80 Kg	80 Kg	90 Kg	90 Kg
Sound Rating (dBA)	57	57	57	57
Airflow m³/hr	800	800	800	800
Vacuum (kPa)	9.92	9.10	9.92	9.10

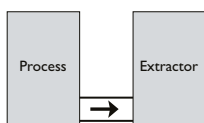## 4 — Labyrinth Pre-filter

Pack of two supplied - See page 19-20

5 — Main Filter

One supplied with 2 tier - See page 21-22
Two supplied with 3 tier - See page 21-22

6 — Connection Hose Kit

Process → Extractor

One supplied - See page 23-25
to suit your system

7 — Power Cable

5M Fixed power cable, no plug fitted.

8 — Machine Interfacing (Optional)

Your Machine 10011010 ←↔→ 10011010 Extractor

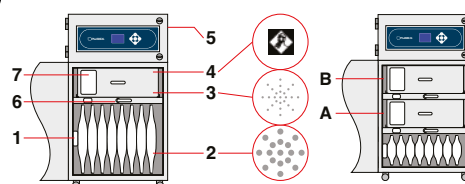Allows the Purex system to interface with a piece of equipment connected to it.

See page 27-29
to match your system

Optional Clean Air Cowl - 190039

PVC 3 tier Version Available

Air Compressor Available For This Model

5
7
6
4
3
1 B
2 A

Legend:
1) Air inlet - 100mm safe seal.
2) Pre-filter.
3) Main Filter (HEPA location). †
4) Main Filter (Carbon location). †
5) Clean air returned to workplace.
6) Filter locking handle.
7) Filter identification label.

All machines are mounted on four castors for increased mobility.

† Standard Filter Only

Digital Control System

A dedicated control, monitoring and display system unique to Purex fume extractors. All functions are fully automatic, all the user has to do is set the appropriate airflow on installation. The features of this system are designed to:
• Lower energy consumption by using variable speed motors and automatic flow control.
• Increase filter life by using the optimal extraction rate.
• Further protect people by constantly monitoring exhaust emissions.
• Interface with other equipment e.g. a laser.
• Maintain a constant extraction rate to prevent fume escape or damage to equipment.

System Features...
• Automatic electronic flow control – maintains a constant extraction rate even as the filter blocks
• Adjustable airflow
• Clear and informative graphic display
• Gas and particle sensors on the exhaust
• Low capital and running costs
• Quick change patented Labyrinth pre-filters deliver longer filter life
• Submicronic (HEPA) filtration removes 99.997% of particles down to 0.3 microns
• Activated carbon filtration removes harmful gas
• Simple to install and quiet in operation
• Easy to relocate and precision made from stainless steel
• High performance brushless motors

Includes:
1 x Main filter (2-tier)
2 x Main filters (3-tier)
2 x Labyrinth pre-filters
1 x Power cable (no plug)

Accessories
Please see the accessories brochure.

1500i

1500i

			1500i	
Voltage			230V ±10%	120V ±10%
Volume Control			0LX1510D	0LX1511D
Vacuum Control			021820iD	021821iD
Wattage			3.45 kW	3.45 kW
Frequency			50Hz / 60 Hz	50Hz / 60 Hz
Cabinet height (inc castors)			1400 mm	1400 mm
Cabinet width (not inc hose)			725 mm	725 mm
Cabinet depth (not inc hose)			726 mm	726 mm
Cabinet weight			150 Kg	150 Kg
Sound Rating (dBA)			59	59
Airflow m³/hr			1700	1700
Vacuum (kPa)			4.77	4.77

4 — Labyrinth Pre-filter

One supplied - See page 19-20

5 — Main Filter

One supplied - See page 21-22
for your application

6 — Connection Hose Kit

Process → Extractor

One supplied - See page 23-25
to suit your system

7 — Power Cable

5M Fixed power cable, no plug fitted.

8 — Machine Interfacing (Optional)
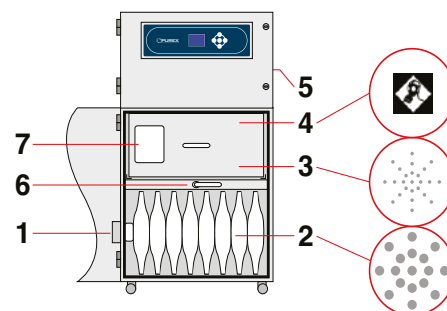
Your Machine 10011010 ↔→ 10011010 Extractor

Allows the Purex system to interface with a piece of equipment connected to it.

See page 27-29
to match your system

Optional Clean Air Cowl - 640002

5
4
7
6
3
1
2

Legend:
1) Air inlet - 150mm safe seal.
2) Pre-filter.
3) Main Filter (HEPA location). †
4) Main Filter (Carbon location). †
5) Clean air returned to workplace.
6) Filter locking handle.
7) Filter identification label.

All machines are mounted on four castors for increased mobility.

† Standard Filter Only

Digital Control System

A dedicated control, monitoring and display system unique to Purex fume extractors. All functions are fully automatic, all the user has to do is set the appropriate airflow on installation. The features of this system are designed to:

- Lower energy consumption by using variable speed motors and automatic flow control.
- Increase filter life by using the optimal extraction rate.
- Further protect people by constantly monitoring exhaust emissions.
- Interface with other equipment e.g. a laser.
- Maintain a constant extraction rate to prevent fume escape or damage to equipment.

System Features...

- Automatic electronic flow control – maintains a constant extraction rate even as the filter blocks
- Adjustable airflow
- Clear and informative graphic display
- Gas and particle sensors on the exhaust
- Low capital and running costs
- Quick change patented Labyrinth pre-filters deliver longer filter life
- Submicronic (HEPA) filtration removes 99.997% of particles down to 0.3 microns
- Activated carbon filtration removes harmful gas
- Simple to install and quiet in operation
- Easy to relocate and precision made from stainless steel
- High performance brushless motors

Includes:
1 x Main filter
1 x Labyrinth pre-filter
1 x Power cable (no plug)

Accessories
Please see the accessories brochure.

1750i (3 Phase Supply)

What to specify...	1. Model	2.Voltage	3.Volume or Vacuum	4. Pre-filter	5. Main filter	6. Connection Kit	7. Power Lead	8. Interfacing Kit

1 2 3	1750i	
Voltage	400V 3ph + N	220V 3ph
Volume Control	0LX1750D	0LX1751D
Vacuum Control	0LX1752D	0LX1753D
Wattage	3.4 kW	3.4 kW
Frequency	50Hz / 60 Hz	50Hz / 60 Hz
Cabinet height (inc castors)	1400 mm	1400 mm
Cabinet width (not inc hose)	725 mm	725 mm
Cabinet depth (not inc hose)	726 mm	726 mm
Cabinet weight	150 Kg	150 Kg
Sound Rating (dBA)	59	59
Airflow m³/hr	1700	1700
Vacuum (kPa)	4.77	4.77

4 Labyrinth Pre-filter

One supplied - See page 19-20

5 Main Filter

One supplied - See page 21-22
for your application

6 Connection Hose Kit

Process → Extractor

One supplied - See page 23-25
to suit your system

7 Power Cable

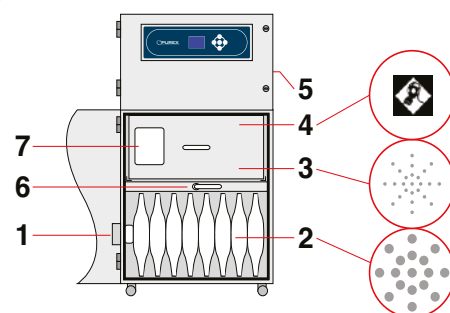5M Fixed power cable, no plug fitted.

8 Machine Interfacing (Optional)

Your Machine 10011010 ↔ 10011010 Extractor

Allows the Purex system to interface with a piece of equipment connected to it.

See page 27-29
to match your system

Optional Clean Air Cowl - 640002

PVC Version Available

5
4
7
6
3
1
2

Legend:
1) Air inlet - 150mm safe seal.
2) Pre-filter.
3) Main Filter (HEPA location). †
4) Main Filter (Carbon location). †
5) Clean air returned to workplace.
6) Filter locking handle.
7) Filter identification label.

All machines are mounted on four castors for increased mobility.

† Standard Filter Only

Digital Control System

A dedicated control, monitoring and display system unique to Purex fume extractors. All functions are fully automatic, all the user has to do is set the appropriate airflow on installation. The features of this system are designed to:

• Lower energy consumption by using variable speed motors and automatic flow control.
• Increase filter life by using the optimal extraction rate.
• Further protect people by constantly monitoring exhaust emissions.
• Interface with other equipment e.g. a laser.
• Maintain a constant extraction rate to prevent fume escape or damage to equipment.

System Features...

• Automatic electronic flow control – maintains a constant extraction rate even as the filter blocks
• Adjustable airflow
• Clear and informative graphic display
• Gas and particle sensors on the exhaust
• Low capital and running costs
• Quick change patented Labyrinth pre-filters deliver longer filter life
• Submicronic (HEPA) filtration removes 99.997% of particles down to 0.3 microns
• Activated carbon filtration removes harmful gas
• Simple to install and quiet in operation
• Easy to relocate and precision made from stainless steel
• High performance brushless motors

Includes:
1 x Main filter
1 x Labyrinth pre-filter
1 x Power cable (no plug)

Accessories
Please see the accessories brochure.

2000i (3 Phase Supply)

What to specify...	1. Model	2. Voltage	3. Volume or Vacuum	4. Pre-filter	5. Main filter	6. Connection Kit	7. Power Lead	8. Interfacing Kit

1 2 3	2000i	
Voltage	400V 3ph + N	220V 3ph
Volume Control	0LX2010D	0LX2011D
Vacuum Control	022120iD	022121iD
Wattage	3.4 kW	3.4 kW
Frequency	50Hz / 60 Hz	50Hz / 60 Hz
Cabinet height (inc castors)	1400 mm	1400 mm
Cabinet width (not inc hose)	725 mm	725 mm
Cabinet depth (not inc hose)	726 mm	726 mm
Cabinet weight	150 Kg	150 Kg
Sound Rating (dBA)	59	59
Airflow m³/hr	2200	2200
Vacuum (kPa)	6.28	6.28

4 — Labyrinth Pre-filter

One supplied - See page 19-20

5 — Main Filter

One supplied - See page 21-22
for your application

6 — Connection Hose Kit

Process → Extractor

One supplied - See pag 23-25
to suit your system

7 — Power Cable

5M Fixed power cable, no plug fitted.

8 — Machine Interfacing (Optional)

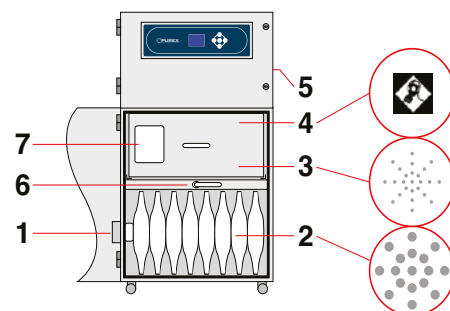Your Machine 10011010 ↔ 10011010 → Extractor

Allows the Purex system to interface with a piece of equipment connected to it.

See page 27-29
to match your system

Optional Clean Air Cowl - 640002

5
4
7
3
6
1
2

Legend:
1) Air inlet - 150mm safe seal.
2) Pre-filter.
3) Main Filter (HEPA location). †
4) Main Filter (Carbon location). †
5) Clean air returned to workplace.
6) Filter locking handle.
7) Filter identification label.

All machines are mounted on four castors for increased mobility.

† Standard Filter Only

Digital Control System

A dedicated control, monitoring and display system unique to Purex fume extractors. All functions are fully automatic, all the user has to do is set the appropriate airflow on installation. The features of this system are designed to:

• Lower energy consumption by using variable speed motors and automatic flow control.
• Increase filter life by using the optimal extraction rate.
• Further protect people by constantly monitoring exhaust emissions.
• Interface with other equipment e.g. a laser.
• Maintain a constant extraction rate to prevent fume escape or damage to equipment.

System Features...

• Automatic electronic flow control – maintains a constant extraction rate even as the filter blocks
• Adjustable airflow
• Clear and informative graphic display
• Gas and particle sensors on the exhaust
• Low capital and running costs
• Quick change patented Labyrinth pre-filters deliver longer filter life
• Submicronic (HEPA) filtration removes 99.997% of particles down to 0.3 microns
• Activated carbon filtration removes harmful gas
• Simple to install and quiet in operation
• Easy to relocate and precision made from stainless steel
• High performance brushless motors

Includes:
1 x Main filter
1 x Labyrinth pre-filter
1 x Power cable (no plug)

Accessories
Please see the accessories brochure.

5000i (3 Phase Supply)

5000i

1 2 3 Voltage	400V 3ph + N (Side Inlet)	400V 3ph + N (Rear Inlet)	220V 3ph (Side Inlet)	220V 3ph (Rear Inlet)
Volume Control	0LX5550D	0LX5549D	0LX5551D	0LX5565D
Vacuum Control	044250D	044261D	044251D	044265D
Wattage	7.5 kW	7.5 kW	7.5 kW	7.5 kW
Frequency	50Hz / 60 Hz	50Hz / 60 Hz	50Hz / 60 Hz	50Hz / 60 Hz
Cabinet height (inc castors)	1804 mm	1804 mm	1804 mm	1804 mm
Cabinet width (not inc hose)	1250 mm	1250 mm	1250 mm	1250 mm
Cabinet depth (not inc hose)	892 mm	892 mm	892 mm	892 mm
Cabinet weight	400 Kg	400 Kg	400 Kg	400 Kg
Sound Rating (dBA)	59	59	59	59
Airflow m³/hr	5000	5000	5000	5000
Vacuum (kPa)	12	12	12	12

4 — Pre-filter

Side Inlet – One supplied
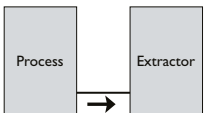Rear Inlet – One supplied and a pack of four pads
See page 19-20

5 — Main Filter

Two supplied - See page 21-22
for your application

6 — Connection Hose Kit

Process → Extractor

One supplied - See page 23-25
to suit your system

7 — Power Cable

5M Fixed power cable, no plug fitted.

8 — Machine Interfacing (Optional)

Your Machine 10011010 ↔ 10011010 Extractor

Allows the Purex system to interface with a piece of equipment connected to it.

See page 27-29
to match your system

PVC Version Available
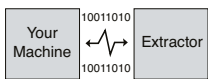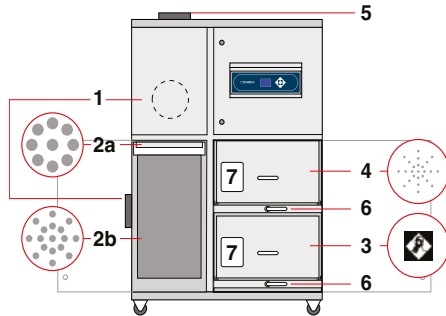
Legend:
1) Air inlet (Left or Rear) - 200mm safe seal.
2) Pre-filter.
3) Main Filter (HEPA location). †
4) Main Filter (Carbon location). †
5) Clean air returned to workplace.
6) Filter locking handle.
7) Filter identification label.

All machines are mounted on four castors for increased mobility.

† Standard Filter Only

Note:
2a) Prefilter pad
2b) Pleated Bag Filter

Alternatively a Labyrinth filter can be supplied.

Digital Control System

A dedicated control, monitoring and display system unique to Purex fume extractors. All functions are fully automatic, all the user has to do is set the appropriate airflow on installation. The features of this system are designed to:

- Lower energy consumption by using variable speed motors and automatic flow control.
- Increase filter life by using the optimal extraction rate.
- Further protect people by constantly monitoring exhaust emissions.
- Interface with other equipment e.g. a laser.
- Maintain a constant extraction rate to prevent fume escape or damage to equipment.

System Features...

- Automatic electronic flow control - maintains a constant extraction rate even as the filter blocks
- Adjustable airflow
- Clear and informative graphic display
- Gas and particle sensors on the exhaust
- Low capital and running costs
- Quick change patented Labyrinth pre-filters deliver longer filter life
- Submicronic (HEPA) filtration removes 99.997% of particles down to 0.3 microns
- Activated carbon filtration removes harmful gas
- Simple to install and quiet in operation
- Easy to relocate and precision made from stainless steel
- High performance brushless motors

Includes:

2 x Main filters and
1 x Labyrinth Pre-filter
or 4 x Pre-filter pads with
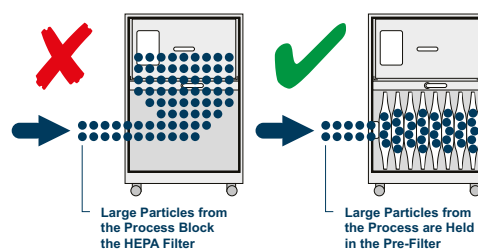1 x Pleated Bag Filter
1 x Power cable (no plug)

Accessories

Please see the accessories brochure.

Pre-filters are designed to capture larger particles before they can enter the main HEPA filter.
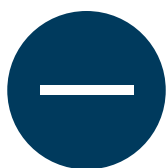
Without pre-filters, the life of the main filter would be much shorter.

A variety of media and designs are available to allow Purex extractors to be used in a wide range of processes.

Large Particles from the Process Block the HEPA Filter

Large Particles from the Process are Held in the Pre-Filter

A — Pads

Pad pre-filter
- Extends the life of the main filter by capturing larger particles before they reach the HEPA filter
- Fits neatly under the main filter
- Graduated fibre matrix delivers excellent particle capture capacity
- Ideal for low volume applications or where small amounts of particles are produced
- Captures particles to 5 micron at efficiency of 40 - 60%

B — Pleated Bag

Pleated bag pre-filter
- Extends the life of the main filters by capturing larger particles
- Provides additional particle capturing capacity
- Ideal for processes where large amounts of particles are produced
- Contains the particles inside for clean and simple disposal
- Standard captures particles to 5 micron at 40 - 60%
- Composite captures particles to 1 micron at 95% efficiency

C — Labyrinth

Patented Labyrinth pre-filters
- Extends the life of the main filter by capturing larger particles before they reach the HEPA filter
- Fits neatly under the main filter in integral Purex extractors
- Graduated fibre matrix delivers excellent particle capture capacity - up to 20 times more than a standard filter
- Ideal for medium-high volume applications
- Contains the particles inside for clean and simple disposal
- Composite material available for extra filter life and filtration down to 0.5 micron
- Standard captures particles to 3 micron at efficiency of 60 to 80%
- Composite captures particles to 1 micron at efficiency of 80 - 95%

FUMECUBE PRO

PUREX
FUME EXTRACTION SYSTEMS

The Future of Fume Extraction

FEATURES

- VariColour filter blocked warning system
- Highest grade HEPA and carbon technology
- Automatic electronic flow control - maintains a constant extraction rate even as the filter blocks
- Quiet in operation
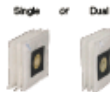- Simple to install and easy to relocate

SPECIFICATIONS

Voltage	230v	90v - 254v
Single Arm Part Number	072659	072175
Dual Arm Part Number	072660	072171
Wattage	0.14kW	0.21kW
Frequency	50Hz / 60Hz	50Hz / 60Hz
Cabinet Height	680mm	680mm
Cabinet Width	350mm	350mm
Cabinet Depth	335mm	335mm
Cabinet Weight	21kg	21kg
Sound Level	<60dBa	<60dBa
Airflow	170m³/h	160 - 200m³/h

Find out more:

🌐 www.purex.co.uk

✉ purex@purex.co.uk

📞 +44 (0)1405 746030

INCLUDED AS STANDARD...

FILTERS

Main Filter

Code	Description
113831	HEPA/Chemical

Single   or   Dual

Pre-filter

Code	Description
111197 (Single)	F8/F9 Labyrinth
111195 (Dual)	F8/F9 Labyrinth	or

CONNECTION KIT

Code: 100295

Included in each connection kit:
- 1 x 50mm x 2m flexible hose
- 2 x connecting cuffs
- 1 x clamped bench bracket
- 1 x 38mm stainless steel flexible arm
- 1 x 38mm pen nib
- 1 x 95mm conical cowl

Machine Supplied With · 1 x Main Filter · 1 x Pre-filter · 1 or 2 x Connection Kits · 1 x Power Cable · 1 x Manual

OPTIONS

Connection Kits

All connection kits include 50mm x 2m hose with connecting cuffs and arm valve

Code: 100295 (38mm)
38mm flexible stainless steel arm with fixed 95mm conical cowl and screwed bench bracket

Code: 100294 (38mm)
38mm flexible stainless steel arm with fixed pen nib and screwed bench bracket

Code: 100295ESD (38mm)
38mm flexible stainless steel arm with conical cowl, pen nib and clamped bench bracket - ESD

Code: 100295L (38mm)
38mm flexible stainless steel arm with fixed illuminated 95mm conical cowl and clamped bench bracket

Code: 100290 (50mm)
50mm flexible stainless steel arm with fixed pen nib and clamped bench bracket

Code: 100292 (50mm)
50mm flexible stainless steel arm with fixed large clear hood and clamped bench bracket (420mm x 320mm)

Code: 100297 (50mm)
50mm flexible stainless steel arm with fixed 115mm conical cowl and clamped bench bracket

Code: 100297ESD (50mm)
50mm flexible stainless steel arm with fixed 115mm conical cowl and clamped bench bracket - ESD

Code: 100298 (50mm)
50mm flexible stainless steel arm and clamped bench bracket

Code: 100299 (50mm)
50mm flexible stainless steel arm with fixed clear hood cowl and clamped bench bracket (315mm x 265mm)

Code: 120117 (50mm)
Includes ONLY:
2m x 50mm flexible hose with 2 connecting cuffs

Replacement Arms

Code	Description:
120128	38mm x 1.5m flexible stainless steel arm
120129	38mm x 0.75m flexible stainless steel arm
120199	38mm x 0.5m flexible stainless steel arm

(38mm)

Interfacing

Your Machine → Extractor
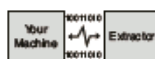
Interfacing can remotely start the Purex machine when the connected machine starts.

Interfacing can also warn the connected machine when the Purex machine is in alarm.

Take a look through our Interfacing Guide to see our extensive range of options

Machine	Pad Standard	Pad Composite	Absorbent Pad	Pleated Bags	Labyrinth Standard	Labyrinth Composite
200/400	●202260	●200223		●113531 (spare 111141)		
200i/400i					●202268	●202271
200i HP						●202271
400i PVC			●200261			●202271
400i Dye						●202271
650	●202260					
800	●200275	●200528				
800i 2 - Tier					●202280	●202272
800i 3 - Tier			●200262			●202273
1500i					●111037	●111099
1750i			●200281			●111099
2000i					●111037	●111099
5000i	●200310		●200312	●111144 Rear inlet only		●111006 side inlet only
				●110645 (spare 111038)		

If uncertain of Pre-filter choice contact Purex or your representive.

Key

- ● **4 pack of pads**
- ● **Single bag**
- ● **2 pack of bags**
- ● **Pleated bag in metal case. Fit this when applicable instead of main filter.**

Purex use specialised combinations of filter media to capture particles, gases and vapours generated by industrial processes such as laser engraving, laser marking, hand and machine soldering, ink jet printing and many others. Each filter has a unique serial number and is individually tested and certified to ensure performance and safety.

Purex HEPA (High Efficiency Particulate Air) filter elements are precision manufactured from a pleated material that incorporates reinforcing strips which separate the pleats and help prevent airflow vibration or collapse.
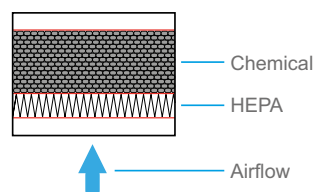
Additionally, air equalisation plates are used between the layers of media to further reinforce the filter housing and to distribute the airflow across the filter to ensure all of the filter media is used.
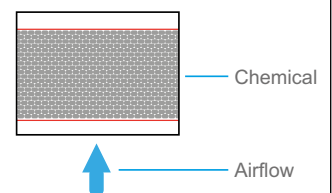
Typical Filter
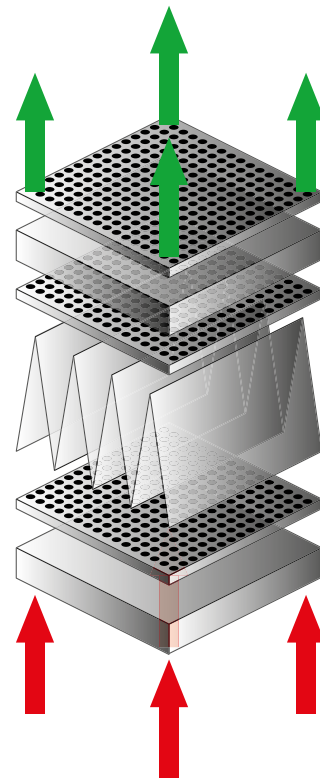
HEPA/Chemical

Filters small particles @ 99.997% down to 0.3 microns in size and adsorbs a wide variety of gases and vapours

— Chemical
— HEPA
— Airflow

Chemical

Adsorbs a wide variety of gases and vapours.

— Chemical
— Airflow

Machine	Hepa/chemical	Hepa/twin chemical	Hepa/chemical Cleanroom	Chemical Std	Hepa only	Chemical Special	Solvent Lock
200/400	113505	113579	113512	113508	113809	113662	113513
	113505H	113579HD				113505P	
200i/400i	113505	113579	113512	113508	113809	113662	
	113505H	113668	113669			113505P	
		113579HD					
200i HP	113811						
400i PVC	113498						
400i Dye Sublimation	113505						
650	113505	113579	113512	113508	113809	113662	113513
	113505H	113579HD				113505P	
800	113652	113660	113658	113651	113650	113702	113667
						113675	
800i 2-Tier	113652	113660	113658	113651	113650	113702	113667
						113675	
800i 3-Tier	113652	113660	113658	113651	113650	113702	113667
						113675	
1500i	110615	110614	110632	110610	110619	110610H	
1750i		110616-PVC					
2000i	110615	110614	110632	110610	110619	110610H	
5000i				110627	110633		
				110624	110682		

If uncertain of main filter choice contact Purex or your representive.
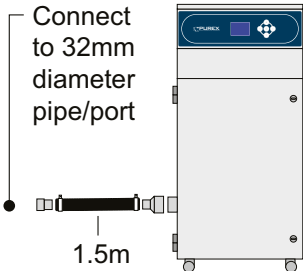
PUREX MACHINE INLET DIAMETERS

- 80mm - 200, 400, 200i, 200i-HP, 400i, 400i Dye Sublimation, 400iPVC
- 100mm - 800i
- 125mm - 800
- 150mm - 1500i, 1750i, 2000i
- 200mm - 5000i

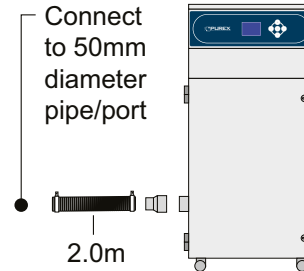| ??mm	?.?m	??mm
Diameter of Customers port or pipework.	Length of hose	Purex machine inlet diameter

32mm — 1.5m — 80mm

Connect to 32mm diameter pipe/port

1.5m

Code: 100170
1 x 80-34mm reducer
1 x 1.5m x 41mm flexible hose
2 x Half straight connector
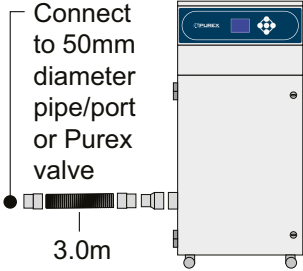2 x 35-50mm hose clips

50mm — 2.0m — 80mm

Connect to 50mm diameter pipe/port

2.0m

Code: 100180
1 x 80-53.5mm reducer
1 x 2m x 57mm flexible hose
2 x 45-60mm hose clips
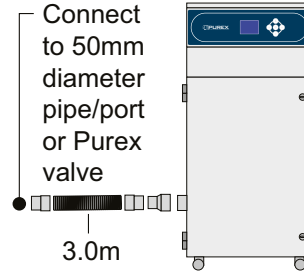
50mm — 3.0m (Anti Static) — 80mm

Connect to 50mm diameter pipe/port or Purex valve

3.0m

Code: 100026
1 x earth strap 6mm
1 x 80mm to 51mm reducer
1 x 3m x 50mm antistatic hose
2 x 51mm antistatic cuffs
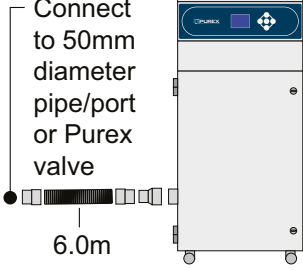
50mm — 3.0m — 80mm

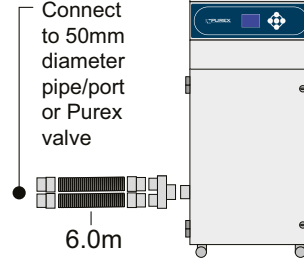Connect to 50mm diameter pipe/port or Purex valve

3.0m

Code: 100032
1 x 80-51mm reducer
1 x 3m x 51mm flexible hose
2 x 51mm cuffs

50mm — 6.0m — 80mm

Connect to 50mm diameter pipe/port or Purex valve

6.0m

Type	Code:
Std	100043
PVC	100043C*

1 x 80-51mm reducer
1 x 6m x 51mm flexible hose
2 x 51mm cuffs
* also suitable for PVC applications.

50mm — 6.0m (Dual Manifold) — 80mm

Connect to 50mm diameter pipe/port or Purex valve

6.0m

Code: 100039*
(Use with 100043 or 100043C)
1 x dual manifold assembly(120093C)
1 x 6m x 51mm flexible hose
2 x 51mm cuffs

* also suitable for PVC applications.
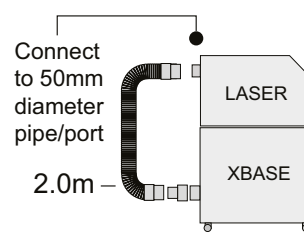
50mm — 6.0m (Extention)

Code: 100037*
1 x 50mm coupling
1 x 6m x 51mm flexible hose
2 x 51mm cuffs
* also suitable for PVC applications.

Used to extend 100043 / 100039

50mm — 2.0m — 80mm

Connect to 50mm diameter pipe/port

2.0m

LASER
XBASE

Code: 100019
1 x 80-51mm reducer
1 x 2m x 51mm flexible hose
2 x 51mm cuffs

50mm	3.0m	80mm

Connect to 50mm diameter pipe/port

3.0m

Code: 120285

1 x 80-53 mm reducer

1 x 3m x 57mm flexible hose

2 x 45-60mm hose clips

??mm	?.?m	??mm

Diameter of Customers port or pipework.

Length of hose

Purex machine inlet diameter

80mm	1.3m	80mm

Connect to 80mm diameter pipe/port

1.3m

Code: 120293

1 x 80mm female coupling

2 x 70-90mm hose clips

1 x 1.3m x 82mm flexible hose

80mm	3.0m	80mm

Connect to 80mm diameter pipe/port

3.0m

Code: 120299

1 x 80mm female coupling

1 x 3m x 82mm flexible hose

2 x 70-90mm hose clips

100mm	3.0m	100mm

Connect to 100mm diameter pipe/port

3.0m

Code: 100107*

1 x 3m x 100mm flexible hose

2 x 90-120mm hose clips

* suitable for PVC

100mm	1.5m	100mm

Connect to 100mm diameter pipe/port

1.5m

Code: 120270

1 x 100mm female coupling

1 x 1.5m x 100mm flexible hose

2 x 90-120mm hose clips

100mm	2.3m	80mm

Connect to 100mm diameter pipe/port

0.3m   2.0m

Code: 120288

1 x 80mm female coupling

2 x 70-90mm hose clips

1 x 2m x 82mm flexible hose

1 x 100-80mm reducer

1 x 0.3m x 100mm flexible hose

2 x 90-120mm hose clips

100mm	2.0m (Dual)	80mm

2.0m

Connect to 100mm diameter pipe/port

2.0m

Code: 120297

3 x 80mm female coupling

1 x 80mm equal tee

2 x 100-80mm reducer

2 x 2m x 100mm flexible hose

4 x 90-120mm hose clips

100mm	1.3m	80mm

0.3m

Connect to 100mm diameter pipe/port

1.3m

LASER

XBASE

Code: 120292

1 x 80mm female coupling

2 x 70-90mm hose clips

1 x 1m x 82mm flexible hose

1 x 100-80mm reducer

1 x 0.3m x 100mm flexible hose

2 x 90-120mm hose clips

100mm	3.0m (Dual)	100mm

Connect to 100mm diameter pipe/port

3.0m

Code: 120291

1 x 100mm female coupling

1 x 100mm equal tee

2 x 3m x 102mm flexible hose

4 x 90-120mm hose clips

100mm	3.0m (Dual)	150mm

Code: 120287

Connect to 100mm diameter pipe/port

3.0m

1 x 150mm female coupling
1 x 150mm equal tee
2 x 150 female couplings
2 x 150-100mm reducers
2 x 90-120mm hose clips
2 x 3m x 102mm flexible hose
2 x 90-120mm hose clips
2 x 100mm female couplings

??mm	?.?m	??mm

Diameter of Customers port or pipework.

Length of hose

Purex machine inlet diameter

125mm	3.0m	80mm

Code: 100171

Connect to 125mm diameter pipe/port

3.0m

1 x 80mm female coupling
1 x 100-80mm reducer
1 x 3m x 100mm flexible hose
1 x 125-100mm reducer
1 x 125mm female coupling
2 x 90-120mm hose clips

125mm	3.0m	100mm

Code: 100172

Connect to 125mm diameter pipe/port

3.0m

1 x 100mm female coupling
1 x 125-100mm reducers
1 x 3m x 125mm flexible hose
2 x 135-160mm hose clips

125mm	3.0m	125mm

Code: 120300

Connect to 100mm diameter pipe/port

3.0m

1 x 3m x 125mm flexible hose
2 x 125 - 165mm hose clips

150mm	1.5m	150mm

Code: 120280

Connect to 150mm diameter pipe/port

1.5m

1 x 150mm female coupling
1 x 150mm male coupling
1 x 1.5m x 150mm flexible hose
2 x 135-160mm hose clips

150mm	3.3m	80mm

Code: 120289

Connect to 150mm diameter pipe/port

0.3m 0.3m 3.0m

1 x 80mm female coupling
2 x 70-90mm hose clips
1 x 3m x 82mm flexible hose
1 x 100-80mm reducer
1 x 0.3m x 100mm flexible hose
2 x 90-120mm hose clips
1 x 150-100mm reducer
1 x 0.3m x 150mm flexible hose
2 x 135-160mm hose clips

150mm	3.25m	100mm

Code: 120294

Connect to 150mm diameter pipe/port

0.25m
3.0m
0.25m

1 x 100mm female coupling
1 x 100mm equal tee
4 x 90-120mm hose clips
2 x 3m x 100mm flexible hose
2 x 150-100mm reducers
2 x 0.25m x 150mm flexible hose
4 x 135-165mm hose clips

200mm	1.0m	200mm

Code: 120296

Connect to 200mm diameter pipe/port

1 x 200mm female coupling
1 x 1m x 200mm flexible hose
2 x 200mm hose clips

If you do not see a connection kit that fits your machine or pipework, contact Purex or your representive.

200, 400, 200i, 200iHP, 400i, 400iPVC, 400i Dye Sublimation, 650

Are supplied with a 5m long detachable cable with a choice of plug.

USA/ASIA 120V	USA/ASIA 230V	UK 230V	Europe 230V
Code: 410160	Code: 410161	Code: 410162	Code: 410163

Australia	No Plug
	Bare wire only
Code: 410164	Code: 410165

15m long cable for all the above models

No Plug
15m bare wire only
Code: 410166

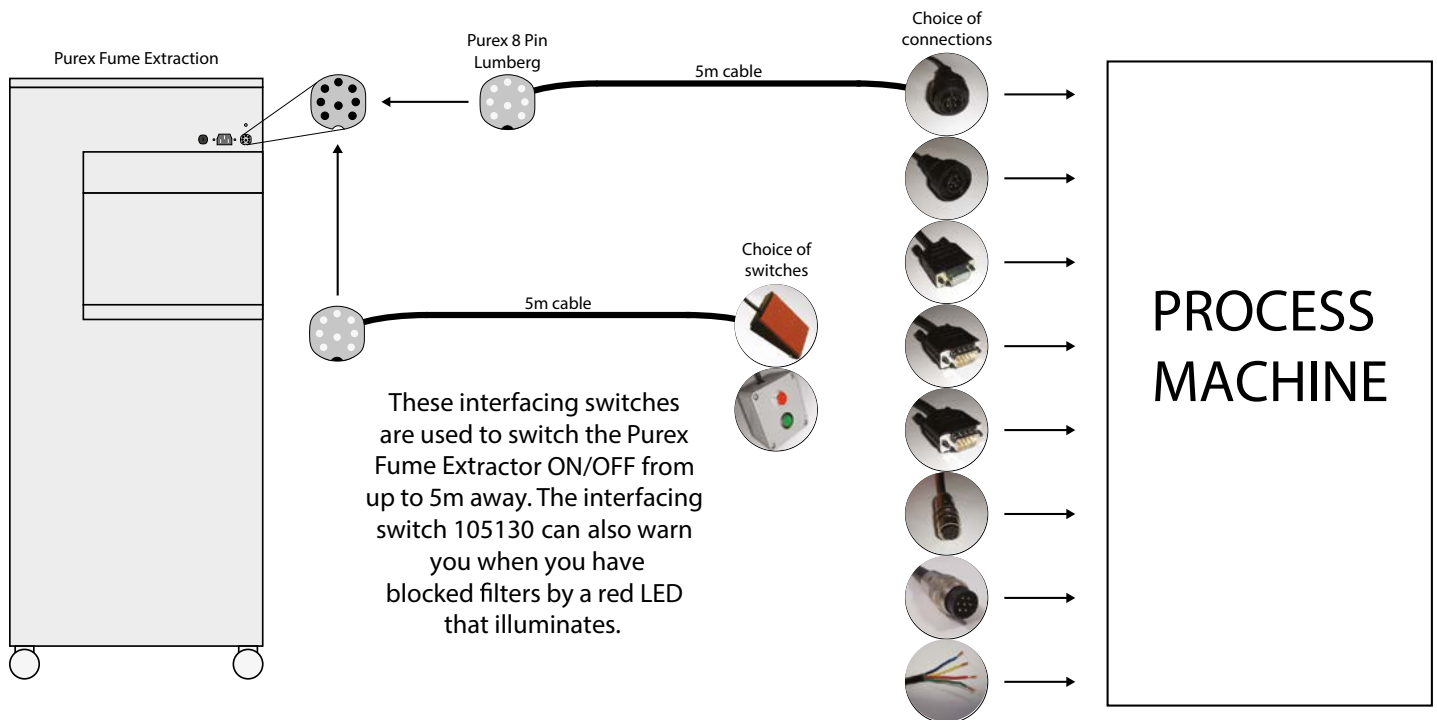## 800, 800i, 1500i, 1750i, 2000i, 5000i

Are factory fitted with a 5m long cable without a plug.

Best practice is to wire these models into a fused spur.

Electrical installations should only be carried out by a qualified person.

Purex Fume Extraction

Purex 8 Pin Lumberg

5m cable

Choice of connections

5m cable

Choice of switches

These interfacing switches are used to switch the Purex Fume Extractor ON/OFF from up to 5m away. The interfacing switch 105130 can also warn you when you have blocked filters by a red LED that illuminates.

PROCESS MACHINE

Machine interfacing has two elements - Remote Start & Filter Relay Condition.

Remote Start allows the Purex extractor to be controlled by the process machine, such as a laser or reflow oven.

The Filter Relay Condition warns the operator if the Purex extractor starts alarming.

A separate interface guide is available for greater detail
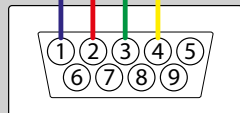
9 way D-type

ALARM
PINS 1 & 2 = VOLT FREE ALARM OUTPUT CONTACTS

REMOTE START
VOLT FREE CONTACTS REQUIRED FROM THE PROCESS MACHINE TO OPERATE
PIN 3 = REMOTE START INPUT SIGNAL

PIN 4 = +12V DC

PINS 5,6,7,8 & 9 = NOT USED

Code: 105104 (5m cable)

6 way Lumberg

ALARM
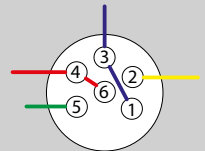PINS 1 & 6 = VOLT FREE ALARM OUTPUT CONTACTS

PINS 3 & 4 = VOLT FREE ALARM OUTPUT CONTACTS

REMOTE START
VOLTAGE SIGNAL REQUIRED FROM THE PROCESS MACHINE TO OPERATE

PIN 5 = +9V DC / +24V DC REMOTE START INPUT SIGNAL

PIN 2 = 0V DC

Code: 105096 (5m cable)

7 way Lumberg

ALARM
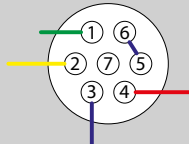PINS 3 & 4 = VOLT FREE ALARM OUTPUT CONTACTS

REMOTE START
VOLTAGE SIGNAL REQUIRED FROM THE PROCESS MACHINE TO OPERATE
PIN 1 = +9V DC / +24V DC REMOTE START INPUT SIGNAL

PIN 2 = 0V DC INPUT

PINS 5,6 & 7 = NOT USED

Code: 105098 (5m cable)

No Connector

ALARM
RED & BLUE WIRES = ALARM SIGNAL

OUTPUT VIA A SET OF VOLT FREE CONTACTS INSIDE PUREX EXTRACTOR

REMOTE START
YELLOW & GREEN WIRES = REMOTE START/STOP

VOLT FREE CONTACTS REQUIRED FROM THE PROCESS MACHINE TO CLOSE THESE WIRES TO START (+12V DC)

Code: 105108 (5m cable)
Code: 105108L (10m cable)

Remote ON/OFF Switch

Now you can easily switch your Purex fume extractor on or off from up to 5m away.

This is particularly useful if your fume extractor is tucked away under a bench or in a cupboard where it cannot easily be accessed.

This feature is also useful if the work you do is not continuous e.g intermittent hand soldering, as you will be saving energy by turning the extractor off.

Code: 105114 (5m cable)

A separate interface guide is available for greater detail
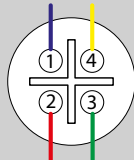
4 way Mini Bulgin

ALARM
PINS 1 & 2 = VOLT FREE ALARM
OUTPUT CONTACTS

REMOTE START
VOLT FREE CONTACTS
REQUIRED FROM THE PROCESS
MACHINE TO OPERATE

PIN 3 = REMOTE START INPUT SIGNAL

PIN 4 = +12V DC

Code: 105097 (5m cable)

Illuminating Alarm Switch

The Illuminating alarm switch not only allows you to remotely switch on/off the Purex fume extractor, but also warns the operator that the filters are blocked and the machine is alarming using a red LED that illuminates to signal the warning.

It uses the Purex extractors opto-isolated 12V DC to provide the remote start and the alarm signal.

Code: 105130 (5m cable)

6 way Bulgin

ALARM
PINS 1 & 4 = VOLT FREE ALARM
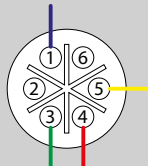OUTPUT CONTACTS

REMOTE START
VOLTAGE SIGNAL REQUIRED
FROM THE PROCESS MACHINE
TO OPERATE

PIN 3 = +9V DC / +24VDC REMOTE
START INPUT SIGNAL

PIN 5 = 0V DC

PINS 2 & 6 = NOT USED

Code: 105103 (5m cable)

9 way D-type

ALARM
NO ALARM OUTPUT

REMOTE START
VOLTAGE SIGNAL REQUIRED
FROM THE PROCESS MACHINE
TO OPERATE
PIN 2 = 0V DC

PIN 5 = +9V DC / +24V DC REMOTE
START INPUT SIGNAL

PINS 1,3,4,6,7,8 & 9 = NOT USED

Code: 105106 (5m cable)

9 way D-type

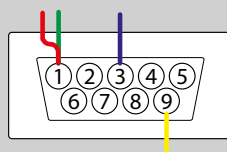**ALARM**
PIN 3 = +9V DC / +24V DC ALARM OUTPUT

REMOTE START
VOLTAGE SIGNAL REQUIRED FROM THE PROCESS MACHINE TO
OPERATE
PIN 1 = +9V DC / +24V DC REMOTE START INPUT SIGNAL

PIN 9 = 0V DC

PINS 2,4,5,6,7 & 8 = NOT USED

Code: 105107 (5m cable)

PART	Blower 230V	Blower 120V	Blower 230V/120V	Blower 220V/400V	PCB Digital Volume	PCB Digital Vacuum	FMU Filter Monitor Unit	Inverter		Inverter 220V		Inverter 400V	
								650	AC10	650	AC10	650	AC10
200	300593	300592			400001	400000	400440						
400	300595	300594			400001	400000	400440						
200i	300593	300592			400001	400000	400440						
200i-HP	300596					400000	400440						
400i	300595	300594			400001	400000	400440						
400i PVC	300595	300594			400001		400440						
400i Dye	300595	300594			400001		400440						
650	300202				400001	400000	400440						
800	300595 x 2	300594 x 2			400001	400000	400440						
800i - 2 tier	300595 x 2	300594 x 2			400001	400000	400440						
800i - 3 tier	300595 x 2	300594 x 2			400001	400000	400440						
1500i			300201		400001	400000	400440	400406	400447				
1750i				300199	400001	400000	400440				400453		400452
2000i				300199	400001	400000	400440			400394	400453	400396	400452
5000i				300625	400001	400000	400440			400393	400455	400439	400454

The AC10 inverter range was first introduced from June 2016.

When ordering please supply the machine serial number

Replacement Fuses

Code 410246 – 230V models – 200iHP, 400, 400i, 400iPVC, 400i Dye,

        230V models requiring 2 fuses - 800, 800i 2 and 3 tier.

        120V models – 200, 200I

Code 410276 - 230V models – 200, 200i, 650

Code 410271 - 120V models – 400,400i,400iPVC, 400i Dye

        120V models requiring 2 fuses – 800, 800i 2 and 3 tier

Replacement Manuals

Code: 822005 Digital Manual

Code: 822006 Analogue Manual

Download from www.purex.co.uk

One arm and cowl included with the 650 machine.

Upgrade your 650 to a two arm system by purchasing the second arm kit – Part Number 120197

"The Future of Fume Extraction"

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