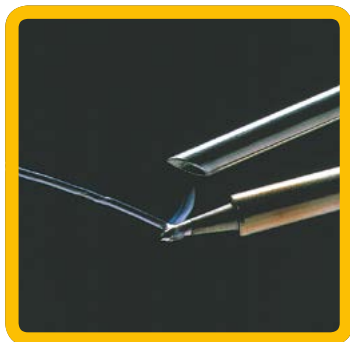




# Fume Extractor Selector Guide



## SOLDERING & ELECTRONICS MANUFACTURING

Machine	Arm Extraction, Cabinets & Cows						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. Cows	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:

- The selection is based on the use of a standard connection kit.
- A larger extraction machine may be required depending on the layout and the type of fume or dust.
- Continuous use may require a machine with larger filtration capacity.
- In some cases more arms/cows can be used e.g. for non coalescing vapors 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" x 12", Medium - 24" x 12", Large - Over 24" x 12"

- 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.

- The selection is based on the use of standard connection kit.
- \* Heavy use includes high proportion of cutting, lasers with a deep bed and constant use. Contact Purex for further advice.
- In applications with extremely high dust emissions, a Cascade inline filter can be considered.



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## CODING & MARKING

### 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

Process Time	Model		
	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 processes 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.**