



# Purex<sup>®</sup> Powerflow Purification Systems

These Systems are Designed for

**High volume or high pressure purification of fume and dust from all types of machinery.** Purex Powerflow Purification Systems can be connected to standard or custom extraction manifolds.

The purification system controls can be integrated with your production control circuit so that extraction starts and stops automatically with your line.

**Failsafe** controls can also be set to stop the line if the extraction flow rate falls below a pre-set minimum.

## Typical Application Areas

By carefully matching the correct combination of Pre-filter, Main filter and Exhaust filter Purex Powerflow Extraction Systems can be used to remove and purify hazardous fumes and dust from

- ▲ wave soldering - **recirculating systems now available**
- ▲ reflow soldering
- ▲ etching, marking and cutting
- ▲ curing ovens
- ▲ powder handling and packaging
- ▲ high volume chemical handling
- ▲ laser processes

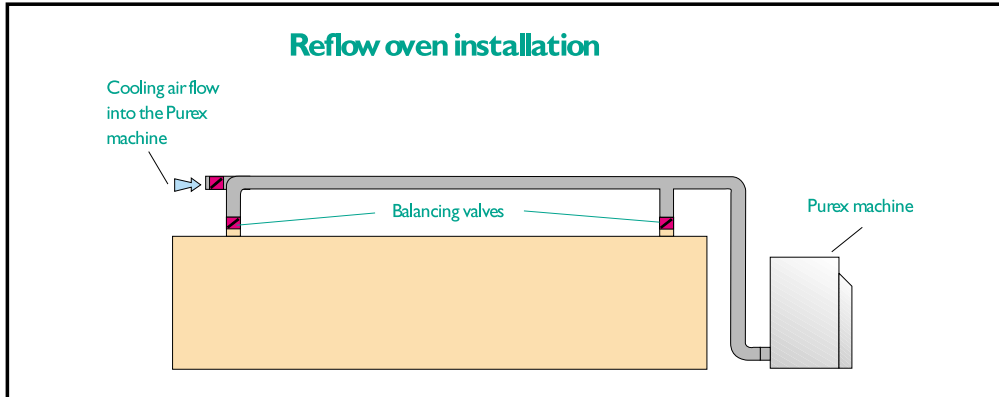
## These Systems Feature

- ▲ **IQ2000** Intelligent Purification Control Program
- ▲ upgradeable filter/pump modules
  - ▲ Reverse Flow configuration which prolongs filter life
  - ▲ continuous exhaust air monitor with audible alarm
  - ▲ integrated production/purification control option
  - ▲ interchangeable specialist gas sensors
  - ▲ corrosion resistant stainless steel cabinet
  - ▲ easy maintenance design





Intelligent Purification Network (IPN)  
compatible systems now available



## Technical specification

|   | Purex Powerflow 8000/210FC  | Purex Powerflow 8000/400FC                                | Purex Powerflow 8000/1500                                    | Purex Powerflow 8000/1500FC                                  | Purex Powerflow 8000/2000FC                                  | Purex Powerflow 8000/4000FC                               | Purex Powerflow 8000/5000FC                               |
|---|---|---|--|--|--|---|---|
| <b>Part no.</b>   | 080210 (EU/US)<br>081210 (US)   | 080400  | 021500 (EU)<br>021501 (US)                                   | 021510 (EU)<br>021512 (US)                                   | 022010 (EU)<br>022011 (US)                                   | 044010 (EU)<br>044011 (US)                                | 055010 (EU)<br>055011 (US)                                |
| <b>Max flowrate</b>   | 210 m <sup>3</sup> /hr<br>140 cfm   | 400 m <sup>3</sup> /hr<br>240 cfm                         | 1500 m <sup>3</sup> /hr<br>900 cfm                           | 2000 m <sup>3</sup> /hr<br>1200 cfm                          | 2300 m <sup>3</sup> /hr<br>1440 cfm                          | 4000 m <sup>3</sup> /hr<br>2400 cfm                       | 5000 m <sup>3</sup> /hr<br>2940 cfm                       |
| <b>Voltage</b>  | 230V (080210)<br>220V (081210)  | 230V  | 230V (021500)<br>220V (021501)                               | 230V (021510)<br>220V (021512)                               | 400V [3P + N] (022010)<br>220V 3P (022011)                   | 400V [3P + N] (044010)<br>220V 3P (044011)                | 400V [3P + N] (055010)<br>220V 3P (055011)                |
| <b>Frequency</b>  | 50/60Hz (080210)<br>60Hz (081210)   | 50/60Hz   | 50Hz (021500)<br>60Hz (021501)                               | 50Hz (021510)<br>60Hz (021512)                               | 50Hz (022010)<br>60Hz (022011)                               | 50Hz (044010)<br>60Hz (044011)                            | 50Hz (055010)<br>60Hz (055011)                            |
| <b>Wattage</b>  | 0.35 kW (080210)<br>0.8 kW (081210)   | 1.2 kW  | 1.1kW (021500)<br>1.1kW (021501)                             | 1.5kW (021510)<br>1.5kW (021512)                             | 3.0 kW (022010)<br>3.0 kW (022011)                           | 5.5 kW (044010)<br>5.5 kW (044011)                        | 7.5 kW (055010)<br>7.5 kW (055011)                        |
| <b>Sound rating @ 1 metre</b>                                       | 52 dBA  | 52 dBA  | 55 dBA   | 55 dBA   | 59 dBA   | 59 dBA  | 62 dBA  |
| <b>Cabinet size (incl. castors)</b>                                 | H 714mm (29 1/4")<br>W 455mm (18")<br>D 455mm (18")   | H 714mm (29 1/4")<br>W 455mm (18")<br>D 455mm (18")       | H 1100mm (43 1/4")<br>W 690mm (27 1/4")<br>D 650mm (25 1/2") | H 1100mm (43 1/4")<br>W 690mm (27 1/4")<br>D 650mm (25 1/2") | H 1100mm (43 1/4")<br>W 690mm (27 1/4")<br>D 650mm (25 1/2") | H 1810mm (71 1/4")<br>W 1210mm (47 1/2")<br>D 885mm (35") | H 1810mm (71 1/4")<br>W 1210mm (47 1/2")<br>D 885mm (35") |
| <b>Cabinet weight (incl. filter/filters)</b>                        | 39 kg /86 lbs   | 39 kg /86 lbs   | 124 kg /273 lbs  | 125 kg /275 lbs  | 125 kg /275 lbs  | 340 kg /750 lbs   | 350 kg /770 lbs   |
| <b>In-line filter type</b>  | Vertical  | Vertical  | Vertical   | Vertical   | Vertical   | Integral  | Integral  |
| <b>In-line filter unit part no.</b>                                 | 107025  | 107025  | 107030   | 107030   | 107030   |   |   |
| <b>In-line filter unit size (Vertical size (not incl. castors))</b> | H 495mm (19 1/2")<br>W 455mm (18")<br>D 455mm (18")   | H 495mm (19 1/2")<br>W 455mm (18")<br>D 455mm (18")       | H 487mm (19 1/4")<br>W 690mm (27 1/4")<br>D 650mm (25 1/2")  | H 487mm (19 1/4")<br>W 690mm (27 1/4")<br>D 650mm (25 1/2")  | H 487mm (19 1/4")<br>W 690mm (27 1/4")<br>D 650mm (25 1/2")  |   |   |
| <b>In-line filter unit weight (incl. bag filter)</b>                | 19 kg /42 lbs   | 19 kg /42 lbs   | 35 kg /77 lbs  | 35 kg /77 lbs  | 35 kg /77 lbs  |   |   |
| <b>Filter options</b>   | Bag EU5-EU8<br>HEPA<br>Chemical<br>Coalescing<br>Oil mist   | Bag EU5-EU8<br>HEPA<br>Chemical<br>Coalescing<br>Oil mist | Bag EU5-EU8<br>HEPA<br>Chemical<br>Coalescing<br>Oil mist    | Bag EU5-EU8<br>HEPA<br>Chemical<br>Coalescing<br>Oil mist    | Bag EU5-EU8<br>HEPA<br>Chemical<br>Coalescing<br>Oil mist    | Bag EU5-EU8<br>HEPA<br>Chemical<br>Coalescing<br>Oil mist | Bag EU5-EU8<br>HEPA<br>Chemical<br>Coalescing<br>Oil mist |
| <b>Piping (recommended)</b>   | 82mm (3 1/4")   | 82mm (3 1/4")   | 150mm (6")   | 150mm (6")   | 150mm (6")   | 150mm/200mm (6"/8")                                       | 200mm/250mm (8"/10")                                      |
| <b>Construction</b>   | Machines are constructed of corrosion resistant brushed stainless steel, 8000 series are mounted on 4 castors.  |   |  |  |  |   |   |
| <b>Controls (IQ2000 IPCP)</b>                                       | 8000 series systems have IQ2000 Intelligent Control Program. This allows continuous monitoring of critical safety parameters and ensures that the system runs at optimum power levels under all conditions and circumstances. (The 8000/1500 can only run this in fixed speed mode.)    |   |  |  |  |   |   |
| <b>Management (IQ2000 IPN)</b>                                      | 8000 series systems can be fitted with the optional Intelligent Purification Network control system. This allows real time monitoring and control of up to 31 machines on one central personal computer. Third party software allows control of systems using public telephone systems. |   |  |  |  |   |   |
| <b>Interfacing (IQ2000 J4, J7)</b>                                  | 8000 series systems can be linked to third party machines to allow two way control of both systems.<br>See Datasheet 11 for more information regarding control systems.   |   |  |  |  |   |   |