



A Donaldson Company

A WORLD LEADER IN FUME EXTRACTION TECHNOLOGY



LV290 Max

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High performance laser fume extraction system for the Roland LV-290 laser engraver / cutter.

The LV290 Max high-end laser fume extraction system combines extremely large filter capacity with high airflow and pressure rates, making it the ideal choice for heavy duty applications that generate large amounts of particulate and gaseous organic compounds.

Performance is enhanced with the inclusion of several features including BOFA's patented DeepPleat DUO pre-filter and the acclaimed iQ Operating System. These take performance and safety parameters to a new level and help to ensure that maintenance, downtime and ownership costs are kept to a minimum.

More information about the [Intelligent Operating System \(iQ\)](#).

Technology



Intelligent Operating System (iQ)



DeepPleat DUO pre-filter



HEPA filter



Automatic flow control (AFC) technology



Reverse flow air (RFA) technology



Advanced carbon filter (ACF) technology



Patented technology



SureCHECK quality standard

Key features of the LV290 Max

iQ Operating system
Standard

Reverse flow air filter technology
Standard

Automatic flow control system
Standard

High contrast display
Standard

Remote diagnostics via USB
Standard

Combined HEPA/Gas filter incorporating ACF technology
Standard

High airflow and pressure rates
Standard

DeepPleat DUO pre-filter
Standard

Real-time airflow reading
Standard

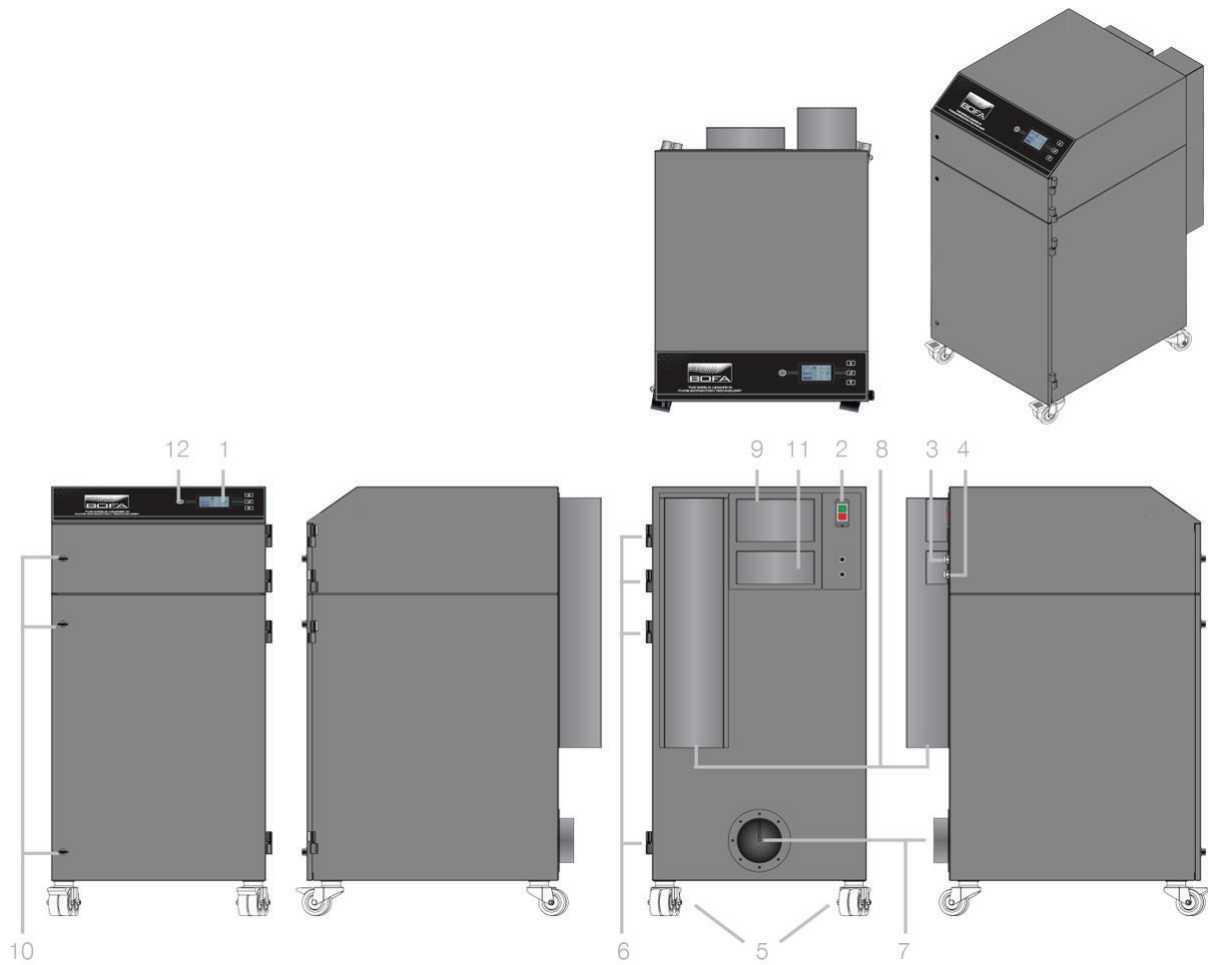
'Run safe' operation
Standard

Independent filter condition monitoring, display and warnings
Standard







Filters with long life and low replacement cost
Standard

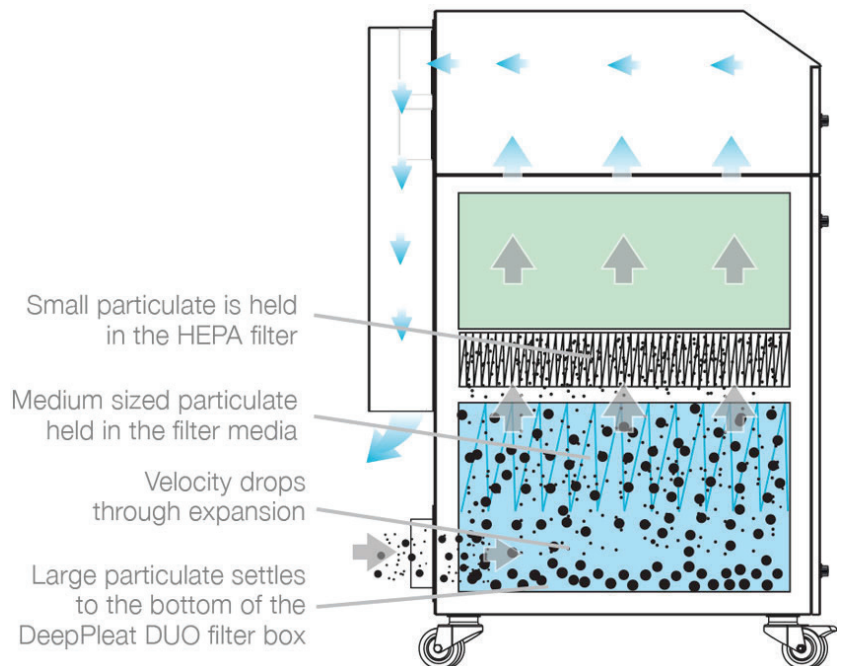
Technical specification

- | | | | |
|------------------------|--------------------|----------------------------------|-----------------------------|
| 1. iQ Display | 2. On / off switch | 3. Power cable | 4. Signal / interface cable |
| 5. Castors | 6. Door hinge | 7. Hose inlet connection - 125mm | 8. Exhaust outlet |
| 9. Motor cooling inlet | 10. Door latch | 11. Motor cooling outlet | 12. Standby button |



Airflow through filters

-  Chemical filter
-  HEPA filter
-  Pre filter
-  Clean air
-  Contaminated air
-  Particulate



Technical data

	EU	US
Dimensions (HxWxD)	1205 x 615 x 790mm	47.44 x 24.21 x 31.10"
Cabinet construction	Powder coated mild steel	Powder coated mild steel
Airflow / Pressure	850m ³ /hr / 100mbar	500cfm / 100mbar
Electrical data	230v Single-phase 1~ 50/60Hz Full load current: 12.8 amps / 2.2kw	115v 60/50Hz Full load current: 19.5 amps / 2.2kw
Noise level	< 63dBA (at typical operating speed)	< 63dBA (at typical operating speed)
Weight	140kg	309lbs
Approvals	UKCA and CE	cUL, UL*

DeepPleat DUO pre-filter specifications

Surface media area	30m ² approx (322.8ft ²)
Filter media	Borosilicate
Filter media construction	Maxi fold construction with webbing spacers
Filter housing	Zintec mild steel
Filter efficiency	95% @ 0.9 microns
Inlet size	125mm (0.41ft)
Dropout chamber size	58 litres
Filter media pleat size	200mm (0.65ft)

Combined filter (HEPA/gas) specifications

Surface media area	7.5m ² approx (80.7ft ²)
HEPA filter media	Glass fibre
HEPA media construction	Maxi pleat construction with glue bead spacers
Filter housing	Zintec mild steel
Treated activated carbon	34kgs (74.8 lbs)
Filter efficiency	99.995% @ 0.3 microns

Unit part numbers

Model	Voltage	Part No.	Hose kit
LV290 Max Powder coated	230V	30771503-1419	A1020054
LV290 Max Powder coated	115V	30770503-1419	A1020054

Replacement filter part numbers

Model	DeepPleat DUO pre filter	Combined HEPA/Gas filter
LV290 Max	A1030222	A1030297

* 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.

Datasheet correct at time of publishing.

Where applicable, the carbon used in BOFA units is capable of removing a wide range of VOC's, however it is the responsibility of the user to ensure the carbon is suitable for their application. For specific applications, please contact us for details.

Think before you print! Please consider the environment before printing this document.

