



A Donaldson Company

A WORLD LEADER IN FUME EXTRACTION TECHNOLOGY



AD Oracle iQ

LASER--激光烟雾净化系统



The premier choice and best in class solution with unique features in a compact unit. 集成超强性能的一体化烟雾净化系统，是激光烟雾净化应用的最佳选择。

The 'Best in Class' high performance AD Oracle has now been further enhanced with the introduction of BOFA's new iQ Operating System, combining a range of unique features into one compact unit. AD Oracle系统集成了BOFA最新iQ智能操作系统，组合多种独特功能于一身，方便操作及运行管理。

The iQ Operating System performs at two distinct levels. Operators benefit from ease of operation and clarity of real time information, the system also provides a cache of analytical data, enabling users to download performance and operating parameters for evaluation purposes. iQ智能操作系统提供两个层次界面，一个为简易操作界面和实时状态显示，另一个为隐藏式数据分析界面，允许用户下载设备参数及操作运行参数用于评估分析。

The iQ system takes performance and safety parameters to a new level and ensures that maintenance downtime and ownership costs are kept to a minimum. iQ智能系统把净化性能和安全指标提升到一个新高度，将停机维保时间和运行成本降到最低水平。

更多详细iQ智能控制器信息请见以下详细功能描述。

Leading Technology 领先技术优势



Intelligent (iQ) Operating System
集成智能操作系统



DeepPleat DUO pre filter
深度褶皱双预过滤系统



HEPA filter
高效微粒空气过滤器



Automatic flow control (AFC) technology
自动流量控制技术



Reverse flow air (RFA) technology
反向空气流动技术



Advanced carbon filter (ACF) technology
先进活性炭过滤技术



Multi voltage sensing (MVS) unit
多电压切换模块



Patented technology
多种专利技术



ProTECT service plan
保障服务计划



SureCHECK quality standard
放心质量标准

Key features of the AD Oracle iQ 性能特点

Reverse Flow filter technology
反向气流过滤技术

Auto sensing voltage (90v - 257v) - For global use
自动工作电压检测切换

HEPA and Gas combined filter
高效微粒空气过滤器和有害气体过滤器组合

Real time airflow reading
实时空气流量指示

Filter status warnings
过滤器状态指示报警

Automatic Flow Control
自动流量控制

Advanced Carbon Filter technology
领先的活性炭过滤技术

High contrast display
高对比度操作控制显示

Independent filter condition monitoring
独立的过滤器状态监测显示

'Run safe' operation
运行安全操作



Remote diagnostics via USB

通过USB口远程诊断

Interfacing

网络接口 (选配)

Optional Filter medias

定制过滤器介质 (选配)

VOC gas sensor (Volatile Organic Compound)

挥发性有机化合物气体传感检测 (选配)

On-board compressor

压力检测 (选配)

Technical specification

技术参数

- 1. iQ display iQ显示屏
- 2. On/off switch 开关
- 3. Power cable 电源线
- 4. Signal / interface cable 信号线接口
- 5. Door hinge 门铰链
- 6. Hose inlet connection -75mm 进风口
- 7. Exhaust outlet 出风口
- 8. Motor cooling inlet 马达冷却风入口
- 9. Door latch 门锁



Airflow through filters

反向气流过滤技术

-  Chemical filter 化学过滤芯
-  HEPA filter 高效微粒空气过滤芯
-  Pre filter 预过滤芯
-  Clean air 清洁空气

Contaminated air 污染空气

Particulate 颗粒

ICON 图标说明

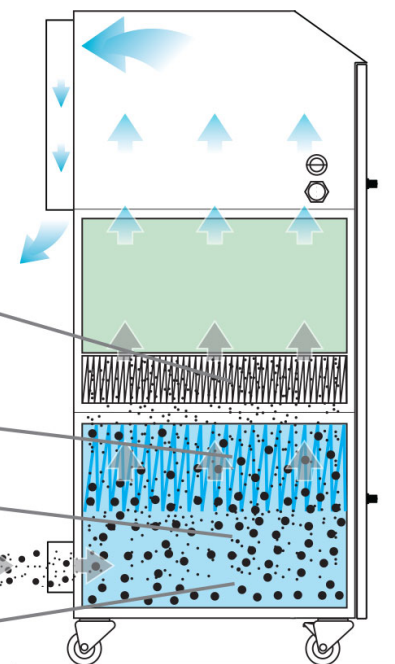
Gas filtered in the chemical filter 有害气体过滤

Small particulate is held in the HEPA filter 微小颗粒过滤

Medium sized particulate held in 12m² of filter media 中等微粒停留于12m²过滤介质中

Velocity drops through expansion 降低流速阻挡颗粒通过

Large particulate settles to the bottom of the filter box 粗大颗粒沉淀于过滤箱底部



Technical data 技术参数

	EU 欧盟标准	US 美国标准
Dimensions (HxWxD) 外形尺寸	975 x 455 x 505 mm	38.39 x 17.91 x 19.88"
Cabinet construction 机柜结构	Brushed stainless steel / Powder coated mild steel	Brushed stainless steel / Powder coated mild steel
Airflow / Pressure 空气流量/压力	380m ³ /hr / 96mbar	223cfm / 96mbar
Electrical data 电源功率	90v - 257v 1ph 50/60Hz Full load current: 12.5 amps / 1.1kw	90v - 257v 1ph 50/60Hz Full load current: 12.5 amps / 1.1kw
Noise level 噪音	< 60dBA (at typical operating speed)	< 60dBA (at typical operating speed)
Weight 重量	65kg	143lbs
Approvals 认证	CE	cUL, UL

DeepPleat DUO pre filter specifications 深度褶皱双预过滤芯技术参数

Surface media area 过滤介质表面积	12m ² approx (129.12 ft ²)
Filter media 过滤介质	Glass Fibre
Filter media construction 过滤介质结构	Maxi pleat with webbing spacer
Filter housing 过滤芯外壳	Zintec mild steel
Filter efficiency 过滤效率	F8, 95% @ 0.9 microns
Inlet size 进风口尺寸	75mm (0.24ft)
Dropout chamber size 体积	16.2 litres
Filter media pleat size 过滤介质褶皱尺寸	200mm (0.65ft)

Combined filter specifications 组合过滤芯技术参数

HEPA filter media 高效过滤介质	Glass fibre
HEPA media construction 高效过滤介质结构	Maxi pleat construction with webbing spacers
Filter efficiency 过滤效率	H14 99.997% @ 0.3 microns
Treated activated carbon 活性炭含量	15kgs (33 lbs)
Filter housing 过滤芯外壳	Zintec mild steel

Part numbers 部件编号

Model 型号	Part number 部件编号	24V Stop / Start 24V控制开关	Filter change / System failure signal 滤芯更换/系统报警信号	VOC monitor VOC监测	Hose kit 抽风管套装
AD Oracle iQ stainless steel 不锈钢	L1974	A2001	A2002	A2003	A1020008 75-50mm
AD Oracle iQ powder coated 烤漆	L1964	A2001	A2002	A2003	A1020008 75-50mm

Replacement filters 更换滤芯

Model 型号	DeepPleat DUO pre filter 深度褶皱双预过滤芯	Combined filter 组合过滤芯
AD Oracle iQ	A1030156	A1030155

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.

BOFA烟雾净化系统所采用的特殊高性能活性炭能有效过滤广泛类型的VOC，特殊应用场合请与BOFA中国代理商杰龙电子公司联系。



A WORLD LEADER IN FUME EXTRACTION TECHNOLOGY

Intelligent (iQ) Operating System

iQ智能操作系统

Our award-winning Intelligent (iQ) Operating System combines performance and safety with high efficiency of extraction.

BOFA iQ智能操作系统性能优越，操作安全，净化效率高，可有效延长滤芯使用寿命。

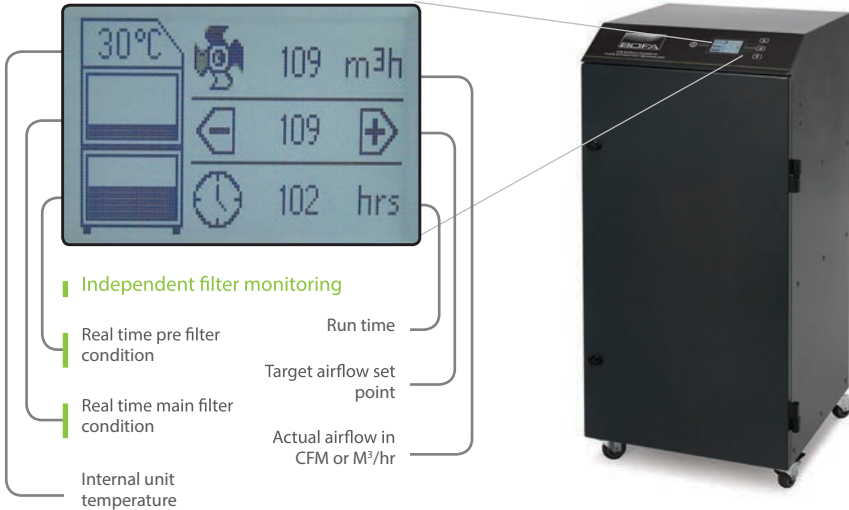
The revolutionary iQ Operating System performs at two distinct levels. Where operators benefit from the ease of operation and clarity of real time information, the system also provides a cache of analytical data enabling users to download performance and operating parameters for evaluation purposes. iQ智能操作系统革新技术包括两个独特的性能：一个为简易操作及实时状态显示界面，另一个为隐藏式数据分析界面，允许用户下载设备参数及操作运行参数用于评估分析。

The iQ operating system helps maintain and maybe even enhance productivity through reduced "downtime" maintenance. iQ智能操作系统可有效减少“停机维保”时间，提高生产效率。

The iQ operating system can monitor the status of both the pre filter and combined (main) filter. Pre blockage warnings provide operators with ample time to prepare for a change. When a filter change is needed the system is able to indicate exactly which filter requires change. It significantly reduces the uncertainty and time to undertake a filter replacement. iQ智能操作系统可以同时监控预过滤器和组合主过滤器的状态。堵塞预警给操作人员提供了充足的备件准备时间，而且可明确指示哪个滤芯需要更换，大大降低了不确定性和滤芯更换时间。

The iQ also provides the facility to download operation data either locally or remotely for evaluation, which reduces or even eliminates the service time and cost. iQ智能操作系统提供了数据下载功能，供本地或远程评估，大大减少了高昂费时的上门服务成本。

The iQ provides a series of visual, audible and electrical outputs to ensure that all events are clearly communicated and that timely and appropriate intervention can be undertaken to maximise production uptime. iQ智能操作系统提供一系列可视、声音及电子信号报警，确保所有故障能够清晰传达并得到及时恰当的处理，实现生产时间最大化。



Independent filter monitoring

Real time pre filter condition

Run time

Target airflow set point

Real time main filter condition

Actual airflow in CFM or M³/hr

Internal unit temperature

Key features of the iQ operating system 性能特点



Intelligent (iQ) Operating System
iQ智能操作系统



Patented technology
专利技术

- Black on White high contrast LCD display 白底黑字LCD高对比度显示屏
- Clear and simple real time features 清晰简洁的实时显示
- Independent filter condition monitoring 独立的滤芯状态监控
- Real time airflow reading and set point 实时气流显示与流量值设定
- Run hours displayed / Real time log 运行时间显示/实时日志
- Temperature monitoring (C/F) 风机温度监控显示
- Extraction running indicator 净化系统运行状况指示
- Hose blocked warnings 进风管堵塞报警
- System interfacing option 系统交互功能 (选项)
- Cool-Clean air option 净化冷空气 (选项)
- Remote diagnostics via USB connection USB远程诊断
- "Black Box" event log "黑匣子"事件日志
- Remote configuration 远程配置
- Performance evaluation and presentation graphs 性能评估及演示图

Pre-filter condition monitoring 预过滤芯状态监控

A representative status "box" icon of the pre filter is displayed. The icon fills in parallel with the filter becoming blocked. 显示屏上代表预过滤芯状态的“盒子”图标内充满平行线时表示滤芯堵塞。

Combined (main) filter condition monitoring 组合主过滤芯状态监控

A representative status "box" icon of the main filter is displayed. The icon fills in parallel with the filter becoming blocked. 显示屏上代表组合主滤芯状态的“盒子”图标内充满平行线时表示滤芯堵塞。

"Black box" event log "黑匣子"事件日志

In the event of a catastrophic failure the activity log and set up parameters can be retrieved via the USB connection. Data can then be used to support a reinstall and failure investigation. 突发故障时，可通过USB接口恢复事件日志及所设定参数，得到的数据可以用于重新安装及故障分析。

Filter status indicator (pre warning) 滤芯状态指示 (预报警)

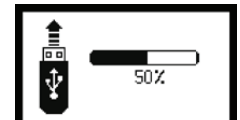
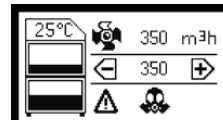
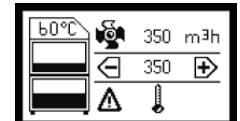
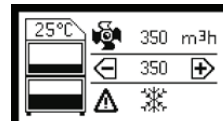
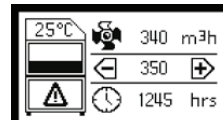
The 75% warning indicates that the filter is partially blocked and will shortly need to be replaced. An audible warning will sound and the representative filter status box on the display will confirm which filter is affected. A signal output can be sent to the host. 滤芯堵塞至75%、短时间内即需更换时，会发出声音报警，代表滤芯状态的“盒子”图标会明确指示所需更换滤芯，并发送信号给主机。

Filter status indicator (warning) 滤芯状态指示 (报警)

The 100% warning indicates that the filter is blocked and needs to be replaced. An audible warning will sound and the representative filter status box on the display will confirm which filter is affected. A signal output can be sent to the host. 滤芯100%完全被堵塞，需要立即更换。会听到声音报警信号，代表滤芯状态的“盒子”图标会明确指示所需更换滤芯，并发送信号给主机。

Combined filter not fitted alarm 组合滤芯安装不当报警

The iQ system will detect when the combined filter is fitted and will only allow the unit to operate when the filter is located correctly. 组合滤芯安装后，iQ智能操作系统将会进行检测，滤芯必须安装正确，系统才能运行。



Hose partial blocked (warning)/Hose blocked 软管部分堵塞/堵塞 (报警)

The hose partially blocked icon appears when a partial blockage occurs within the installation pipe work. A signal output can be sent to the host machine. 安装过程中如软管有堵塞，会出现软管部分堵塞/堵塞图标。输出信号将被发送给至主机。

Filter Fire containment 滤芯防火装置

In the extremely rare event that a filter fire should occur the unit will automatically cut off the airflow to suppress and contain the fire. 极少数情况下可能发生滤芯着火，系统将自动切断气流并熄灭火源。

广泛应用领域：LASER 激光 ☆ ELECTRONICS 电子 ☆ MECHANICAL ENGINEERING 机械工程 ☆ PRINTING 印刷 ☆ DENTAL 牙科 ☆ PHARMACEUTICAL 医药

中国总代理：



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