



Fume Extraction & Accessories

The Global Solution

EC and UL Conformity

All units are EC and UL conform

E C DECLARATION OF CONFORMITY

Manufacturer: BOFA International Ltd

Address: 21-22 Balena Close
Creekmoor Ind Estate
Poole
Dorset, BH17 7DX

Product: Fume Extraction Unit
AD Oracle and
AD OracleSA


The named product is in conformity with the requirements of the following European Directives:

2006/95/EC
2004/108/EC

Conformity with the requirements of the directives is testified by adherence to the relevant parts of the following harmonised standards:

EN 61010-1
EN 61000-3-2
EN 61000-3-3
EN 61000-6-2
EN 61000-6-4

BOFA International Ltd – Poole – 13th Jan 2009


L. Cornell – Director
For and on behalf of BOFA International Ltd.

Certificate of Compliance

Certificate Number 20090416-E308129
Report Reference E308129-A1-UL-1, 2009 March 4
Issue Date 2009 April 16

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 **Underwriters Laboratories Inc.®**

Issued to: **BOFA INTERNATIONAL LTD**
CREEKMOOR INDUSTRIAL ESTATE, 21-22 BALENA CLOSE,
POOLE, DORSET, BH17 7DX UNITED KINGDOM

This is to certify that representative samples of **Laboratory Use Electrical Equipment**
Laser printing / printing fume extraction device
Fume Extraction Unit, model Print Pro Universal

Have been investigated by Underwriters Laboratories Inc.® in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 61010-1, 2nd Edition, 2005-07-22 (Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements)

Additional Information: **Ratings:**
115-230Vac, 50/60Hz, 12.5A

Only those products bearing the UL Listing Mark should be considered as being covered by UL's Listing and Follow-Up Service.

The UL Listing Mark generally includes the following elements: the symbol UL in a circle:
 with the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product

Issued by:
Lee Berrecloth, Project Handler
Underwriters Laboratories Inc.

Reviewed by:
Mona H. Nielsen, Staff Engineering Associate
Underwriters Laboratories Inc.

RoHS and WEEE Directives

RoHS and WEEE Directives

The scope for equipment covered by the RoHS and WEEE directives are listed in Annexe 1A of the WEEE directive. Fume extraction equipment is not covered by any of the 10 categories listed in Annexe 1A and therefore does not come under the scope of either directive. However since Bofa is in agreement with the objectives of both directives we have consulted all our suppliers who have confirmed that their products do comply or will comply with the RoHS directive before the end of June 2006.

For and on behalf of Bofa International Ltd

D. Roberts
Technical Sales Manager
31st January 2006

Panel Branding

All units are branded for the individual Sales Channel



Safety Label

Warning Label are available for the following languages:

Label	
AL-68431	Label kit German
AL-68432	Label kit English
AL-68433	Label kit Spanish
AL-68434	Label kit French
AL-68435	Label kit Italian
AL-68436	Label kit Dutch
AL-68437	Label kit Danish
AL-68438	Label kit Swedish
AL-68439	Label kit Portuguese
AL-68440	Label kit Polish
AL-71075	Label kit Chinese
AL-71076	Label kit Russian



DANGER
Disconnect the
mains supply before
removing this cover



DANGER
Disconnect the
mains supply before
removing this cover



WARNING



**GOGGLES, GLOVES & MASK
MUST BE WORN WHEN
CHANGING FILTERS**

Please note the media in the gas filter fitted in this unit is capable of absorbing a wide range of organic compounds. However it is the responsibility of the user to ensure it is suitable for the particular application it is being used on.



230V OVERLOAD RESET 230V OVERLOAD RESET

Fume Extraction

- ***AD ACCESS***
- ***AD ORACLE***
- ***AD PVC***

Application Notes

Which unit fits to my application?

This chart is a guide only and can deflect from certain applications and substrates. Some more details are available in every units filter life time section .

AD-ACCESS

For static or slow moving applications and smaller workstations with light burn-up.
Beverage or wet areas applications are not recommended.

AD ORACLE

Standard burn-up application and PET.
High burn-up application, beverage industry and high speed products where higher air flow is needed.

AD-PVC

All PVC applications.

AD ACCESS

AL-72311 Exhaust unit VIDEOJET AD-ACCESS 115V 50/60Hz

AL-72310 Exhaust unit VIDEOJET AD-ACCESS 230V 50/60Hz

AL-72316 Exhaust unit ALLTEC AD-ACCESS 115V 50/60Hz

AL-72315 Exhaust unit ALLTEC AD-ACCESS 230V 50/60Hz

For the Light Duty, Laser Marking, Coding and Engraving Industries.

The introduction of new low cost laser systems has led to the development of an entry level fume extraction solution in order to maintain safe operator working conditions and product quality.

The all new AD Access combines economic ownership with performance to match the small laser user. A three stage filter condition indicator is included as a standard feature, together with three stage filtration: pre filter, HEPA and chemical section.

- ***Entry level,***
- ***low cost unit***
- ***Ideal for small laser users***
- ***Three stage filtration***
- ***Comes complete with filter condition indicator***



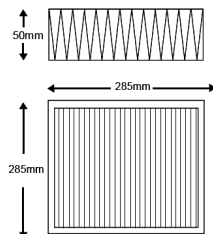
AD ACCESS

TECHNICAL DATA		
Model	AD ACCESS	
	EC	US
Dimensions (h x w x d)	510 x 305 x 305mm	20 x 12 x 12"
Cabinet Construction	Powder coated mild steel	Powder coated mild steel
Blower	135 watts 200m³/hr	135 watts 117cfm
Electronics	230v 1ph 50/60Hz Full load current: 0.9 amps	115v 60/50Hz Full load current: 1.2 amps

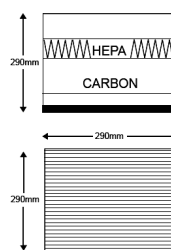
FILTER SPECIFICATIONS	
PRE FILTER	
Filter Media	Glass Fibre
Surface Media Area	2.744m² approx
Filter Media Construction	50mm Maxi Fold construction with Webbing Spacers
Filter Housing	Cardboard
Filter Efficiency	F8 (95% @ 0.8 microns)

FILTER SPECIFICATIONS	
COMBINED FILTER	
Filter Media	Glass Fibre
HEPA Media Construction	Maxi Fold Construction with Webbing Spacers
Gasket	Neoprene with Adhesive Backing
Filter Efficiency	H13 (99.997% @ 0.3 microns)
Activated Carbon	7 Kgs approx
Filter Housing	Zintec Mild Steel

PRE FILTER

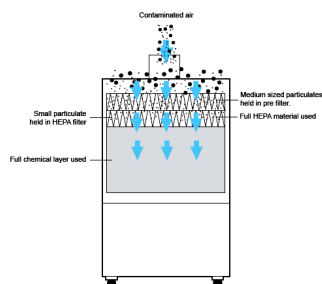


COMBINED FILTER



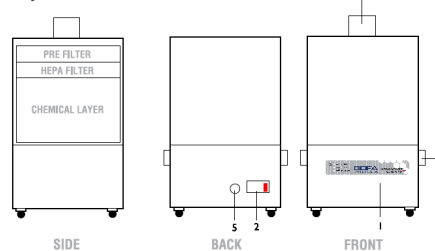
* Other Filters are available. Please call us for details.

AIRFLOW THROUGH FILTERS



TECHNICAL SPECIFICATION

1. Line/Filter Condition Display
2. On/Off Switch
3. Filter Compartment Latch
4. Hose/Interface Cable to Laser
5. Signal/Interface Cable to Laser



SCOPE OF DELIVERY

Every unit comes with the following accessories:

1x Pre-Filter, 1 x Combined Filter

10m Signal Cable, 10 m Mains cable,

50mm hose kit:

- 4m 50mm flex with cuffs

- 50mm arm with nozzle

- and 2 x cobra clips)

GUIDE TO FILTER LIFE

AD-ACCESS							
Marking Speed		0 – 150 prod/min		151 – 500 prod/min		500 prod/min	
Shifts/Day		1	3	1	3	1	3
Target Substrate		Pre filter / Combined filter duration in <u>months</u> using a 2 lines code					
Card white		2/4	1/2	1/2	N/R	N/R	N/R
Card Painted		2/4	1/2	2/4	N/R	N/R	N/R
Glass (none treated)		5/6	3/5	5/6	4/6	4/6	N/R
Painted Metals		5/6	3/5	4/6	N/R	N/R	N/R
Plastics		2/4	1/2	1/3	N/R	N/R	N/R
PET		2/4	1/2	2/4	N/R	N/R	N/R

AD ACCESS

Consumables

AL-72312	Pre Filter F8 Mini Pleat For AD-ACCESS
AL-72313	Combined HEPA/Gas Filter FOR AD-ACCESS



Spares

AL-70701	PCB - Filter status - 12v Serial Nos AD180-601 and above
AL-70702	Power pack - 12v
AL-68600	Relay - solid state 240V- motor protection or auto on/off
AL-72314	IEC Power socket 230v
AL-72317	Replacement feet (4 pack)
AL-72318	Pump 230v
AL-72319	Pump 115v



AD ORACLE

AL-72990 Exhaust unit VIDEOJET AD-ORACLE 115/230V 50/60Hz

AL-72980 Exhaust unit ALLTEC AD-ORACLE 115/230V 50/60Hz

The complete, global solution for high performance laser fume extraction.

The revolutionary Auto-Voltage Sensing Pump automatically self adjusts to run on any voltage worldwide, whilst the Reverse Flow filter technology enhances filter performance and ensures longer filter life.

Closed Loop, Automatic Flow Control allows the user to preset correct flow rates, for lower noise levels and further protection of both the combined filter and the 2 stage F8 pre filter, which has a massive 12m² of surface area.

The below features all come as standard:

- **Auto sensing voltage (90-257v) for global use**
- **Closed Loop Automatic Flow Control**
- **2 Stage F8 Pre Filter with 12m² of surface area**
- **Reverse Flow**
- **'Easi-Seal' Filter Location**
- **Small Footprint and Low Noise levels**



AD ORACLE

TECHNICAL DATA

Model	AD ORACLE	
	EC	US
Dimensions (hwxwd)	980 x 430 x 430 mm	38.5 x 17 x 17"
Cabinet Construction	Brushed stainless steel/ Powder coated mild steel	Brushed stainless steel/ Powder coated mild steel
Blower	1.1kw 380m³/hr	1.1kw 223cfm
Electronics	100-240v 1ph 50/60Hz Full load current: 12.5 amps	100-240v 1ph 50/60Hz Full load current: 12.5 amps

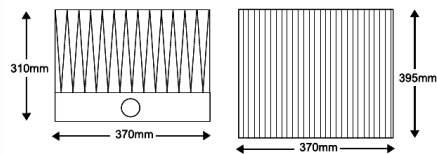
FILTER SPECIFICATIONS

PRE FILTER	
Surface Media Area	12m² approx
Filter Media	Glass Fibre
Filter Media Construction	Maxi Pleat
Housing	Zintec mild steel
Filter Efficiency	F8 (95% @ 0.8 microns)

FILTER SPECIFICATIONS

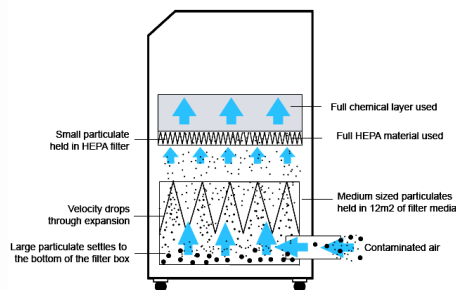
COMBINED FILTER	
HEPA Filter Media	Glass Fibre
HEPA Media Construction	Maxi Pleat Construction with Webbing Spacers
Filter Efficiency	H13 (99.997% @ 0.3 microns)
Treated Activated Carbon	15kgs
Filter Housing	Zintec Mild Steel

PRE FILTER

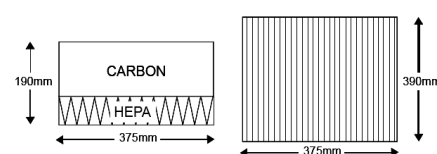


* Other Filters are available. Please call us for details.

AIRFLOW THROUGH FILTERS

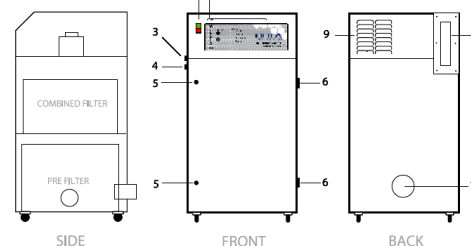


COMBINED FILTER



TECHNICAL SPECIFICATION

1. Unit/Filter Condition Display - Automatic Closed Loop Flow Control
2. On/Off Switch
3. Signal/Interface Cable to Laser
4. Power Cable
5. Filter Housing Cam Latch
6. Door Hinge
7. Hose Inlet Connection
8. Exhaust Outlet
9. Motor Cooling Inlet



SCOPE OF DELIVERY

Every unit comes with the following accessories:

1x Pre-Filter, 1 x Combined Filter

10m Signal Cable, 10 m Mains cable,

50mm hose kit:

- 4m 50mm flex with cuffs

- 50mm arm with nozzle

- and 2 x cobra clips)

GUIDE TO FILTER LIFE

AD-ORACLE

Marking Speed		0 – 150 prod/min		151 – 500 prod/min		500 prod/min	
Shifts/Day		1	3	1	3	1	3
Target Substrate		Pre filter / Combined filter duration in <u>months</u> using a 2 lines code					
Card white		6/12	2/6	3/6	2/4	2/4	1/2
Card Painted		6/12	4/6	6/9	2/4	2/4	1/2
Glass (none treated)		18/12	12/12	16/12	10/12	12/12	9/12
Painted Metals		18/12	12/12	10/12	10/12	12/12	9/12
Plastics		6/10	3/5	4/8	2/4	2/4	1/2
PET		4/9	4/6	6/9	2/4	2/4	1/2

AD ORACLE

Consumables	
AL-72981	AD-Oracle Pre Filter
AL-72982	AD-Oracle Combined HEPA/Gas filter



Spares	
AL-72983	Replacement blower (115/230v - 50/60hz)
AL-72984	On/Off switch 16A
AL-72985	Power pack
AL-72986	Autoflow PCB 230v or 115v
AL-72987	Door Hinge Set of 2 (Handed)
AL-72988	Door Latch Set of 2
AL-72989	Door Gasket Seal
AL-72979	Set of castors
AL-72978	Electrical Filter 20A
AL-72977	Varistor



AD PVC

AL-73253 Exhaust unit VIDEOJET ADPVC 115V 50/60Hz

AL-77251 Exhaust unit VIDEOJET ADPVC 230V 50/60Hz

AL-73252 Exhaust unit ALLTEC ADPVC 115V 50/60Hz

AL-73250 Exhaust unit ALLTEC ADPVC 230V 50/60Hz

For the Laser Marking, Coding and Engraving of PVC.

The AD PVC extraction system has been purposely designed to effectively deal with the extremely corrosive fumes that are generated when lasing PVC.

Each unit is fitted with a specific HCL sensor as well as a general purpose VOC sensor to continually monitor the exhaust air of the unit. Automatic closed loop flow control comes as standard so consistent processing conditions are maintained. The Easi-Glide filter location mechanism makes filter change simple, quick and safe.

- ***Blower with high airflow and pressure***
- ***HCL and VOC gas sensors***
- ***Automatic closed loop flow control***
- ***Technically advanced stop/start interfaces to laser***

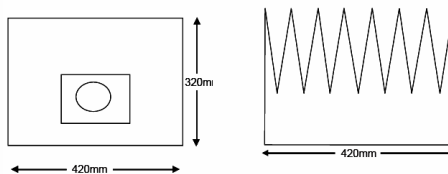


AD PVC

TECHNICAL DATA		
Model	ADPVC	
	EC	US
Dimensions (hwxwd)	1150 x 500 x 500mm	42.3 x 19.7 x 19.7"
Cabinet Construction	Brushed stainless steel with epoxy coated internal contact parts	Brushed stainless steel with epoxy coated internal contact parts
Blower	1.1kw 325m ³ /hr	1.1kw 191cfm
Electronics	230v 1ph 50/60Hz Full load current 7.2 amps	115v 50/60Hz Full load current 14.4 amps

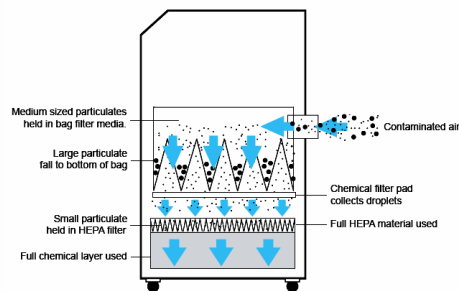
FILTER SPECIFICATIONS	
PRE FILTER	
Surface Media Area	2m ² approx
Filter Media Construction	6 Pocket Bag Filter
Filter Efficiency	F8 (95% @ 0.8 microns)

PRE FILTER



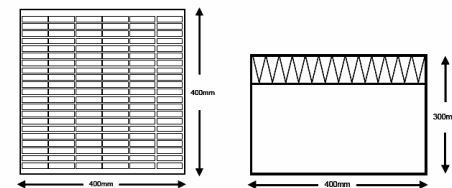
* Other Filters are available. Please call us for details.

AIRFLOW THROUGH FILTERS



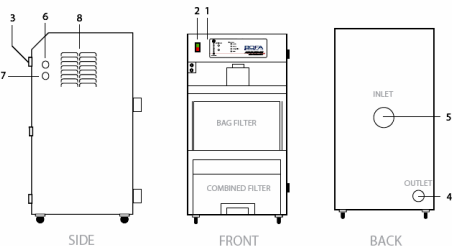
FILTER SPECIFICATIONS	
COMBINED FILTER	
HEPA Filter Media	Glass Fibre
HEPA Media Construction	Maxi Fold Construction with Webbing Spacers
Filter Efficiency	H13 (99.997% @ 0.3 microns)
Activated Carbon	Blend of impregnated activated carbons (37L)
Filter Housing	Stainless steel

COMBINED FILTER



TECHNICAL SPECIFICATION

- 1 Unit/Filter Condition Display - Automatic Closed Loop Flow Control
- 2 On/Off Switch
- 3 Filter Housing Can Latch
- 4 Extracted Air Outlet
- 5 Hose Inlet Connection 75mm
- 6 Signal Interface Cable to Laser
- 7 Power Cable
- 8 Motor Cooling In/Out



SCOPE OF DELIVERY

Every unit comes with the following accessories:

1x Pre-Filter, 1 x Combined Filter

10m Signal Cable, 10 m Mains cable,

50mm hose kit:

- 4m 50mm flex with cuffs

- 50mm arm with nozzle

- and 2 x cobra clips)

GUIDE TO FILTER LIFE

AD-PVC							
Marking Speed		0 – 150 prod/min		151 – 500 prod/min		500 prod/min	
Shifts/Day		1	3	1	3	1	3
Target Substrate		Pre filter / Combined filter duration in months using a 2 lines code					
PVC		4/9	3/6	3/6	2/4	2/4	1/2

AD PVC

Consumables	
AL-72354	ADPVC Pre Filter F8
AL-72355	ADPVC Combined HEPA/Gas filter
AL-72356	ADPVC Chemical Pad filter
AL-72357	ADPVC Replacement HCL sensor

Spares	
AL-68606	Replacement blower (115v 50/60hz)
AL-68607	Replacement blower (230v 50/60Hz)
AL-72358	On/Off switch 16A 115v Units
AL-72359	On/Off switch 10A 230v Units
AL-70702	Power pack for 230v units
AL-72361	Power pack for 115v units
AL-72362	Autoflow PCB 230v or 115v
AL-68601	VOC PCB (complete with sensor 230v or 115v)
AL-72363	HCL PCB (complete with sensor) 230v or 115v
AL-68538	Door Hinge Set of 2 (Handed)
AL-68539	Door Latch
AL-68540	Door Gasket Seal
AL-68546	SSR for 24v stop/Start
AL-68600	SSR for 240v

AD PVC

Filter Disposal

The relevant European directive is 91/689/EC Hazardous Waste.

This directive encompasses the European Waste Catalogue under which new clean filters would be classified under item 15 02 03 “absorbents, filter materials, wiping clothes and protective clothing other than those mentioned in 15 02 02” This is a non hazardous category. However depending on the materials being lasered the fume which is collected in the filters may be considered dangerous in which case the classification changes to 15 02 02 M. This is potentially a Hazardous category depending on the amount of hazardous material in the filter and the risk it poses. For the pre filter the risk involved would normally be R37 “Irritant to respiratory system” caused by the very fine particulate trapped in the filter. However this only becomes hazardous if more than 20% of the waste (filter plus particulate) is made up of the hazardous material which is unlikely.

PVC applications have an added dimension in that HCL is generated and in some circumstances this could potentially form an acid inside the filter which would be difficult to quantify so we recommend that the filter is treated as a hazardous waste with a potential R34 Corrosive risk. The combined filter needs to be considered in the same way. The risks being different for different materials. Most applications will be non hazardous because the % of any hazardous material is likely to be below the threshold level. Again for PVC and other polymers which generate highly toxic gasses it is safest to treat the filters as hazardous waste with a toxic risk.

Legacy Products

- ***AD 180***
- ***AD 400***

AD 180 & AD400

AL-67615 Exhaust unit VIDEOJET AD180 115/230V 50/60Hz

AL-68449 Exhaust unit VIDEOJET AD400 230V

AL-72360 Exhaust unit ALLTEC AD180 115/230V 50/60Hz

AL-72365 Exhaust unit ALLTEC AD400 230V

AD400 115V not released for the LBU

For the Laser Marking, Coding and Engraving Industries

Two units designed for every method of laser marking and engraving. The high extraction rate and vacuum, coupled with unsurpassed filter capacity and design, makes premature filter skinning or blocking a thing of the past.

- ***Blower with high airflow***
- ***Low cost replacement filters***
- ***Optional VOC gas sensors***
- ***Optional interface with stop/start, filter blocked and extractor failure signals***

Units are fitted with the following features:

- ***24v Stop/ Start***
- ***System Failure Signal***
- ***Dual Voltage (AD180 only)***
- ***Hose Kit***

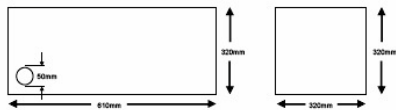


AD180 & AD400

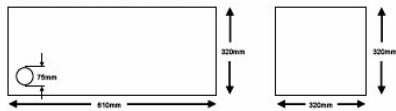
TECHNICAL DATA		
Model	AD180	AD400
Dimensions (hwxwxd)	790 x 400 x 720mm (31.1" x 15.7" x 28.3")	790 x 400 x 720mm (31.1" x 15.7" x 28.3")
Cabinet Construction	Brushed stainless steel	Brushed stainless steel
Blower	0.8Kw 180m³/h (0.9Kw 120a/m)	1.1Kw 400m³/h (1.1Kw 235a/m)
Electronica	230v 1ph 50/60Hz (115v 50/60Hz) Full load current 5.8 amps (12.5)	230v 1ph 50/60Hz (115v 50/60Hz) Full load current 7.15 amps (14)

FILTER SPECIFICATIONS			
	Pre Filter AD180		Combined Filter (AD180 & AD400)
Filter Media	Glass Fibre	HEPA Filter Media	Glass Fibre
Surface Media Area	12m² approx	HEPA Media Construction	Maxi Fold Construction with Webbing Spacers
Filter Media Construction	150mm Maxi Fold construction with Webbing Spacers	Filter Efficiency	H13 (99.997% @ 0.3 microns)
Filter Housing	HDPE	Activated Carbon	9.0 Kgs approx
Filter Efficiency	EUB (95% @ 0.8 micron)	Gasket	Neoprene with Adhesive Backing
		Filter Housing	Zintec Mild Steel

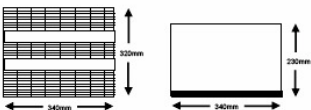
AD180 - PRE FILTER



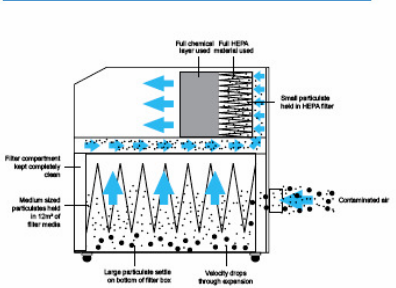
AD400 - PRE FILTER



AD180 & AD400 COMBINED FILTERS

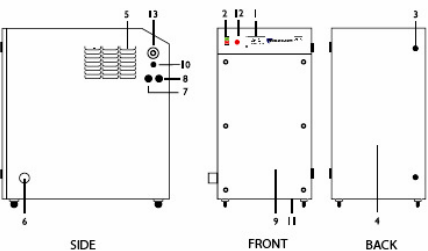


AIRFLOW THROUGH FILTERS



TECHNICAL SPECIFICATION

- 1. Unit/Filter Condition Display
- 2. On/Off Switch
- 3. Filter Compartment Latch
- 4. Filter Compartment Door
- 5. Motor Cooling In & Out
- 6. Hose-Mat Connection 10 or 75mm
- 7. Signal/Interface Cable to Laser
- 8. Power cable
- 9. Motor Housing Panel
- 10. Thermal Trip (DIN) Dual voltage only
- 11. Exhausted Air Outlet
- 12. HCU/VOC Indicator
- 13. Cooling Air Connector (optional)



SCOPE OF DELIVERY

Every unit comes with the following accessories:

- 1x Pre-Filter, 1 x Combined Filter
- 10m Signal Cable, 10 m Mains cable,
- 50mm hose kit:
- 4m 50mm flex with cuffs
- 50mm arm with nozzle
- and 2 x cobra clips)

AD 400 comes with a double hose kit

GUIDE TO FILTER LIFE

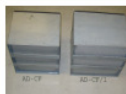
AD-180 AD-400		0 – 150 prod/min		151 – 500 prod/min		500 prod/min	
Marking Speed		1	3	1	3	1	3
Shifts/Day		1	3	1	3	1	3
Target Substrate		Pre filter / Combined filter duration in <u>months</u> using a 2 lines code					
Card white		5/12	2/4	2/4	1/3	1/3	2*(3/4)
Card Painted		5/12	3/4	5/8	1,3	1/3	2*/3,4
Glass (none treated)		15/12	10/12	15/12	12/12	12/12	8,1
Painted Metals		15/12	10/12	12/12	9/12	12/12	8,1
Plastics		4/8	2/4	3/6	1/3	1/3	2*/3,4
PET		4/9	3/4	5/8	1/3	1/3	2*/3,4

*Life of inline pre filter. Must be used on application

AD 180

Consumables

AL-67513	Pre Filter
AL-67514	Combined Filter - Serial Nos up to AD180-528
AL-70705	Combined Filter - Serial Nos AD180-529 and above



Spares

AL-70702	Power pack - 12v
AL-68600	Relay - solid state 240V- motor protection or auto on/off
AL-68542	Side channel blower/motor assembly
AL-68604	Switch - voltage selector
AL-68543	Switch - on/off - ETA 20A
AL-68605	Trip - thermal - ETA 8A
AL-68544	Tunnel - Internal cooling/silencing



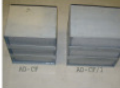
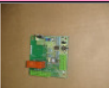








Spares

AL-68536	Castor - Front - locking
AL-68537	Castor - Rear - non locking
AL-68540	Gasket - door seal
AL-72364	Fuse - 2A
AL-72366	Fuse holder - in line
AL-68538	Hinge - door - set of two - handed
AL-68545	Hose - flexi - internal heat proof reinforced
AL-68539	Latch - door
AL-68541	PCB - Filter status - 230v
AL-70701	PCB - Filter status - 12v Serial Nos AD180-601 and above



AD 400

Consumables		
AL-67513	Primary Filter Serial nos up to AD400-286 (for 50mm spigot)	
AL-70704	Primary Filter Ser. Nos AD400-287 and above (75 mm spigot)	
AL-67514 AL-70705	Combined Filter - Serial Nos up to AD400-239 Combined Filter - Serial Nos AD400-240 and above	
Spares		
AL-70701	PCB - Filter status - 12v Serial Nos AD180-601 and above	
AL-72368	Potentiometer - speed control - 10K	
AL-70702	Power pack 230v units	
AL-68600	Relay - solid state - Auto stop/start	
AL-72358	Switch - on/off - ETA 16A - 115v units	
AL-72359	Switch - on/off - ETA 10A - 230v units	

Spares		
AL-68606	Blower 115v units	
AL-68607	Blower 230v units	
AL-68536	Castor - front - locking	
AL-68537	Castor - rear - non locking	
AL-72367	Contactactor - Auto stop/start	
AL-72364	Fuse - 2A	
AL-72366	Fuse Holder - in line	
AL-68540	Gasket - door seal	
AL-68538	Hinge - door - set of two - handed	
AL-68539	Latch - door	

Filtered Cooling Air Unit

- ***AD 350 AV/D***

AD 350 AV/D Filtered Cooling Air Unit

AL-70629 Blower unit Videojet AD350-AV/D 115V

AL-70630 Blower unit Videojet AD350-AV/D 230V

AL-72371 Blower unit ALLTEC AD350-AV/D 115V

AL-72370 Blower unit ALLTEC AD350-AV/D 230V

To ensure optimal laser performance and reliability

The AD350-AV/D is an electrically driven, cooling air unit. It supplies cool, filtered air to both the Laser and power supply module of the **IP65 rated unit**. This clean, cool air ensures optimal laser performance and reliability.

- **Centrifugal Fan ebmpapst RG175**
- **Noise Level <60 dB(A)**
- **Recessed handles, Stainless Steel unit**
- **Filter efficiency F8 (95% @ 0.8 microns)**

The air flow requirement for the complete output specification range (***max. 70% duty cycle @ 100% intensity @ 40°C ambient temp***) for **one 30W Laser** is 330m³/h (= 200CFM) @ >5hPa static pressure.



AD 350 AV/D Filtered Cooling Air Unit

TECHNICAL DATA	
Model	AD350
Dimensions (hwxwd)	400 x 375 x 375mm (15.74" x 14.76" x 14.76")
Cabinet Construction	Brushed stainless steel
Blower	0.8Kw 400m³/hr
Electronics	230v 1ph 50/60Hz (115v 60/50Hz) Full load current: 2 amps (15)

Consumables

AL-70819 Filter - cooling air



Spares

AL-72372 Centrifugal fan - RG175 115v units
AL-72373 Centrifugal fan - RG175 230v units



AL-72369 Switch - on/off - ETA 5A



SCOPE OF DELIVERY

Every unit comes with the following accessories:

1x Filter

1x Mains Cable 10m

1x Signal Cable 10m

2x Hose 50mm, 4m

GUIDE TO FILTER LIFE

AD-350		0 – 150 prod/min		151 – 500 prod/min		500 prod/min	
Marking Speed		1	3	1	3	1	3
Shifts/Day							
Target		Filter duration in <u>months</u>					
Cooling		12	12	12	12	10	10

ACCESSORIES

- ***VOLUME AND TIP EXTRACTION***

ACCESSORIES – Extended Hose

The max. hose length between the extraction area and the unit is specified in the following list:

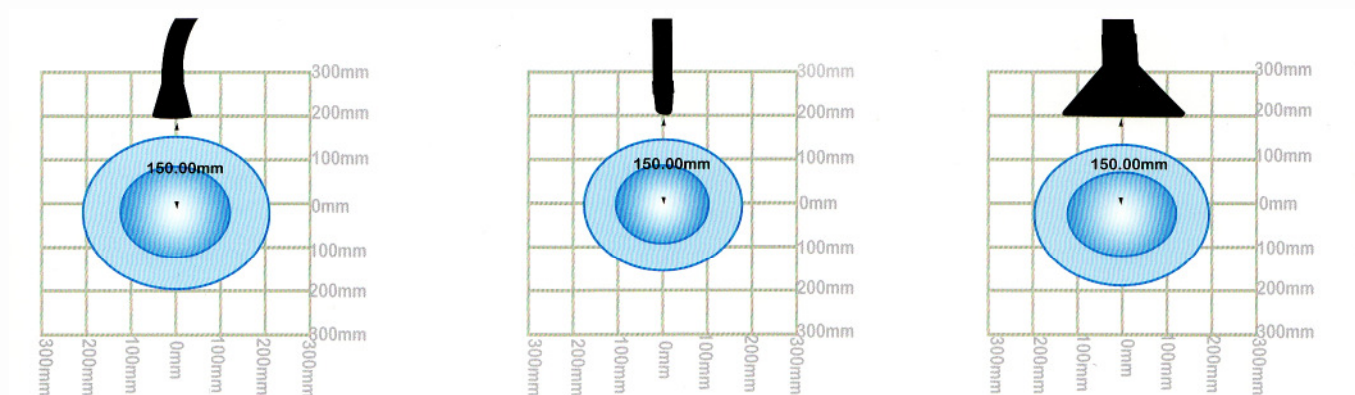
- | | |
|--------------------|------------|
| • AD ACCESS | 5m |
| • AD ORACLE | 10m |
| • AD PVC | 10m |
| • AD 180 | 10m |
| • AD 400 | 10m |



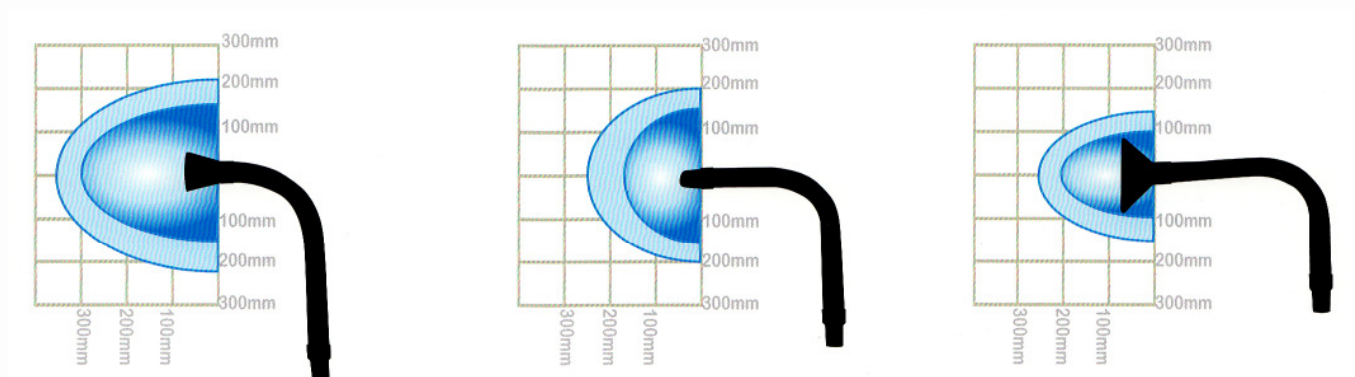
It is always best practice to keep hose lengths as short as possible. Longer lengths can be achieved but should be referred to SAR on each installation basis

ACCESSORIES – Funnel & Nozzle

The diagrams are showing static applications.











Diagrams above highlight the capture area of the stay put arms when extracting at a flow rate of 60m³/hr (darker shading) and 100m³/hr. These measurements were taken with the arm situated above the working area.



Diagrams above highlight the capture area of the stay put arms when extracting at a flow rate of 60m³/hr (darker shading) and 100m³/hr. These measurements were taken with the arm resting on the work surface.

ACCESSORIES – Kits

Accessorie Kits		
AL-SP68547	Hose kit - standard - 50mm	
AL-SP68548	Hose - 50mm - 4m with cuffs	
AL-SP68553	10m Length of Hose with cuffs	
AL-SP68549	Nozzle assembly - 50mm	
AL-SP68550	Nozzle - fish tail - 50mm	
AL-SP68551	Funnel - 50mm	
AL-SP68554	Nozzle assembly 32mm with 50/32 reducer	
AL-SP68552	Funnel - 32mm	
AL70707	50 mm T with Sleeve	