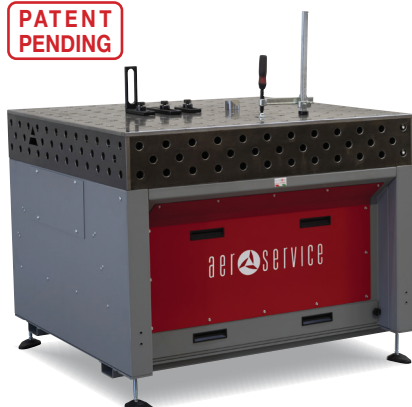


# AerBoxSystem

## DOWNDRAFT SYSTEM FOR WELDING WORKTOPS

PATENT  
PENDING



### Use

ABS: Manual welding  
ABS-C: Robotic welding (cobots)

### Applications



MIG MAG



Pulse  
MIG MAG



MMA  
Stick  
electrode



TIG



### MAIN FEATURES

The downdraft bench AerBoxSystem represents a versatile solution to extract fumes and microdust in welding processes.

The compact concept and the high-quality materials provide for strength and resistance to tear and wear.

The adjustable feet (20-140 mm height) can be fixed onto the floor.

The dust collector drawer on bottom of the bench is sliding on ball bearings.

### ACCESSORIES

- Rear panel with anti-rebound metal filter.
- Integrated filter and extractor assembly.
- In alternative to the welding worktop with holes, on demand and only for the model ABS, it is possible to fit an allround worktop for grinding/welding or a special worktop for manual plasma cutting.
- Backward curved extractor fan.
- Set of wheels.

### PLC CONTROL

The downdraft modular AerBoxSystem is available also with a PLC digital control.

The PLC provides for the continuous auto-setting of the system. The user can adjust the airflow at any time by a friendly touch screen.

Optional: AerBoxSystem can be connected to Ethernet and exchange data with the Customer's ERP system **(Industry 4.0 ready)**.

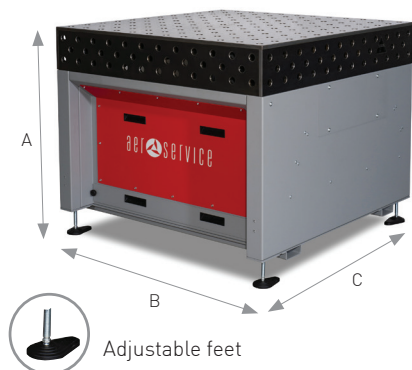
### VERSIONS

ABS modular down draft system suited to fit under 3D worktops - max loading capacity: 12.000 kg.

ABS-C down draft system suited to fit under 3D worktops in robotic welding applications with cobots - max loading capacity: 600 kg.



PLC control panel



## MODEL ABS

ABS modular down draft system suited to fit under 3D worktops - max loading capacity: 12.000 kg.

## DIMENSIONAL DATA

Model	A <sub>min</sub> mm	A <sub>max</sub> mm	B mm	C mm
ABS0120080GA0	860	1010	1200	800
ABS0100100GA0	860	1010	1000	1000
ABS0100120GA0	860	1010	1000	1200
ABS0120120GA0	860	1010	1200	1200
ABS0150100GA0	860	1010	1500	1000
ABS0150150GA0	860	1010	1500	1500

## SELECTION MATRIX

Worktop dimensions Width x Length mm	AerBoxSystem model					
	ABS0120080GA0	ABS0100100GA0	ABS0100120GA0	ABS0120120GA0	ABS0150100GA0	ABS0150150GA0
1200 x 800	•					
1000 x 1000		•				
1200 x 1200				•		
1500 x 1000					•	
1500 x 1500						•
2000 x 1000		2x				
2000 x 1200			2x			
2000 x 2000		4x				
2400 x 1200				2x		
3000 x 1500						2x
4000 x 2000		8x				
4800 x 2400				8x		


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DOWNDRAFT SYSTEM FOR WELDING WORKTOPS

## EXAMPLE OF CONFIGURATION




## DESCRIPTION


Basic modules	Code	Description
	ABS0120080GA0	ABS downdraft box suited for worktop dimension 1200x800 - Grey/red
	ABS0100100GA0	ABS downdraft box suited for worktop dimension 1000x1000 - Grey/red
	ABS0100120GA0	ABS downdraft box suited for worktop dimension 1000x1200 - Grey/red
	ABS0120120GA0	ABS downdraft box suited for worktop dimension 1200x1200 - Grey/red
	ABS0150100GA0	ABS downdraft box suited for worktop dimension 1500x1000 - Grey/red
	ABS0150150GA0	ABS downdraft box suited for worktop dimension 1500x1500 - Grey/red

## ACCESSORIES

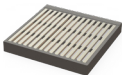
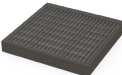

### INNER FILTRATION & EXTRACTION

Inner filtration & extraction	Code	Description
	ACC0ABS000100	Kit filter + extractor fan 1,5kW 400V suited for ABS 1000x1000
	ACC0ABS000120	Kit filter + extractor fan 1,5kW 400V suited for ABS 1200x1200
	ACC0ABS000150	Kit filter + extractor fan 1,5kW 400V suited for ABS 1500x1000


## CONTROL

Control unit	Code	Description
	ACCABS1M00000	Console with control panel with PLC + inverter (single module 1,5kW)
	ACCABS1M00400	Console with control panel with PLC + inverter (single module 1,5kW) - "Ready 4.0"
	ACCABS2M00000	Console with control panel with PLC + inverter (twin module 3kW)
	ACCABS2M00400	Console with control panel with PLC + inverter (twin module 3kW) - "Ready 4.0"


## WORKTOPS AND PANELS

Worktops	Code	Description
	ACC0BE0000010	Worktop for grinding/welding 1200x1200x140 h mm
	ACC0BE0000020	Worktop for manual plasma cutting 1200x1200x140 h mm
Rear and side panels	Code	Description
	ACC0BE0000030	Rear draft panel with anti-rebound metal filter and removable side panels, h. 400 mm - Suited for worktop dimension 1200x1200 mm

## FITTINGS

Adapter for central plants	Code	Description
	ACC0BE0000040	Adapter to fit AerBoxSystem to the central ventilation plant - Including 2 m flexible hose T19 Ø 350 mm



## EXTRACTOR

MFA Filter assembly with extractor fan	Code	Description
	MFA10H1130300	MFA/1 unit with rigid pocket filters - Filtration efficiency E12>99,5% - RP 310/2 fan 2.2KW 400V/3/50Hz Ø <sub>In/Out</sub> =300mm
	MFA20H1150500	MFA/2 unit with rigid pocket filters - Filtration efficiency E12>99,5% - RP 400/2 fan 4KW 400V/3/50Hz Ø <sub>In/Out</sub> =450mm
	MFA30H1070800	MFA/3 unit with rigid pocket filters - Filtration efficiency E12>99,5% - RP 450/2 fan 11KW 400V/3/50Hz Ø <sub>In/Out</sub> =600mm

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DOWNDRAFT SYSTEM FOR WELDING WORKTOPS

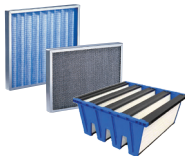
## SWITCHES AND ELECTRICAL PANELS

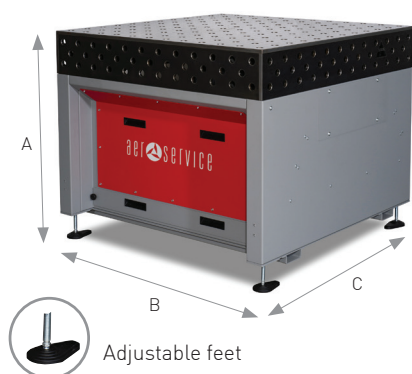
Switches and electrical panels	Code	Description
	QEINT32A4P000	Switch disconnector 32A IP66 lockable, 125x150hx93 mm
	QE4003F075KW0	Three-phase 4-pole switchboard 400V 50/60Hz 0,55-7,5kW 15A IP55 lockable, 240x340hx170 mm 5,5 kg. Functions: thermal magnetic protection, self-setting based on connected motors, remote start/stop in centralized system, voltage / current / cosΦ / alarms display, multilingual display, phase sequence alarm for motor rotation

## SPARE PARTS

### FILTERS

Replacement filters for built-in filter module	Code	Description
	RF0ABS0000000	Set replacement filters for ABS 1200x800 mm with built-in filter module
	RF0ABS0000001	Set replacement filters for ABS 1000x1000 mm with built-in filter module
	RF0ABS0000002	Set replacement filters for ABS 1000x1200 mm with built-in filter module
	RF0ABS0000003	Set replacement filters for ABS 1200x1200 mm with built-in filter module
	RF0ABS0000004	Set replacement filters for ABS 1500x1000 mm with built-in filter module
	RF0ABS0000005	Set replacement filters for ABS 1500x1500 mm with built-in filter module

Replacement filters for external unit MFA	Code	Description
	RF0MFA0000000	Replacement filters for MFA 1 - Full set
	RF0MFA0000001	Replacement filters for MFA 2 - Full set
	RF0MFA0000002	Replacement filters for MFA 3 - Full set



## MODEL ABS-C

ABS-C down draft system suited to fit under 3D worktops in robotic welding applications with cobots - max loading capacity: 600 kg.


## DIMENSIONS

Model	A <sub>min</sub> mm	A <sub>max</sub> mm	B mm	C mm
ABSC150100GA0	860	1010	1500	1000
ABSC200100GA0	860	1010	2000	1000
ABSC240120GA0	860	1010	2400	1200
ABSC300150GA0	860	1010	3000	1500




PLC control panel

## DESCRIPTION

Basic modules	Code	Description
	ABSC150100GA0	ABS-C down draft box for 3D worktop 1500x1000 mm - Load capacity 600 kg - Max airflow 4.500 m <sup>3</sup> /h
	ABSC200100GA0	ABS-C down draft box for 3D worktop 2000x1000 mm - Load capacity 600 kg - Max airflow 6.000 m <sup>3</sup> /h
	ABSC240120GA0	ABS-C down draft box for 3D worktop 2400x1200 mm - Load capacity 600 kg - Max airflow 8.600 m <sup>3</sup> /h
	ABSC300150GA0	ABS-C down draft box for 3D worktop 3000x1500 mm - Load capacity 600 kg - Max airflow 11.800 m <sup>3</sup> /h

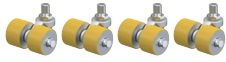
# AerBoxSystem


DOWNDRAFT SYSTEM FOR WELDING WORKTOPS


Filter and extractor assembly*	Code	Description
	KITAFABSC1500	Filter and extractor assembly for ABS-C 1500x1000 mm - Filtration efficiency BIA "M" >99% - 2,4kW 400/3/50
	KITAFABSC2000	Filter and extractor assembly for ABS-C 2000x1000 mm - Filtration efficiency BIA "M" >99% - 4,8kW 400/3/50
	KITAFABSC2400	Filter and extractor assembly for ABS-C 2400x1200 mm - Filtration efficiency BIA "M" >99% - 4,8kW 400/3/50
	KITAFABSC3000	Filter and extractor assembly for ABS-C 3000x1500 mm - Filtration efficiency BIA "M" >99% - 4,8kW 400/3/50

\* High-efficiency fan motor ref. ERP 2015 - electrical panel and airflow regulation included.


## ACCESSORIES

Set of wheels	Code	Description
	ACC0ABS000000	Set of 4 paired-wheels for ABS-C down draft box with blocking device - Load capacity 625 kg/each

Fixing brackets	Code	Description
	ACC0ABS0F0001	Brackets for Demmeler worktop Ø 28 mm on ABS-C down draft box (Pins D28-6004-000 not included)

Adapter for central plants	Code	Description
	ACC0ABSKOUT01	Adapter for connection of ABS-C down draft box to central plants - Ø 300 mm


## INDUSTRY 4.0

Implementation 4.0 READY for ABS-C system	Code	Description
	ACCABSC0T4000	Implementaion "Ready 4.0" for ABS-C down draft system Mobile console with HMI 10" control panel, PLC, ESD license to use Communication protocol to ABS-C: Modbus RTU Communication protocol (external): Ethernet TCP/IP



## SPARE PARTS

### FILTERS

Replacement filters for built-in filter assembly	Code	Description
	RF0ABS0000004	Set replacement filters for ABS-C 1500x1000 mm
	RF0ABS0000008	Set replacement filters for ABS-C 2000x1000 mm
	RF0ABS0000010	Set replacement filters for ABS-C 2400x1200 mm
	RF0ABS0000012	Set replacement filters for ABS-C 3000x1500 mm