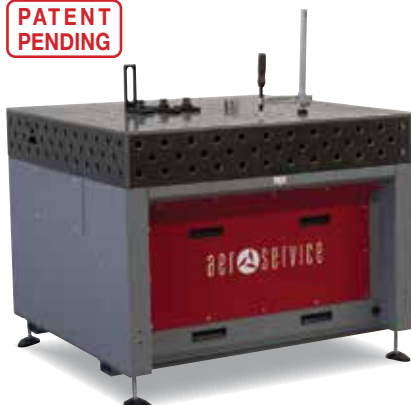


AerBoxSystem

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.

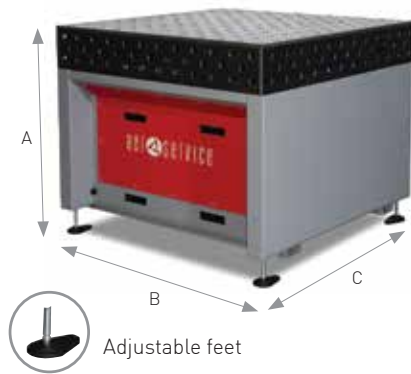


PLC control panel

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MODEL ABS

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

DIMENSIONAL DATA

Model	A _{min} mm	A _{max} 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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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

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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

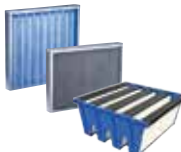
MFA Filter assembly with extractor fan	Code	Description
	MFA10H1130300	MFA/1 unit with rigid pocket filters - Filtration efficiency E12>99,5% - RP 310/2 fan 2.2KW 400V/3/50Hz Ø _{In/Out} =300mm
	MFA20H1150500	MFA/2 unit with rigid pocket filters - Filtration efficiency E12>99,5% - RP 400/2 fan 4KW 400V/3/50Hz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

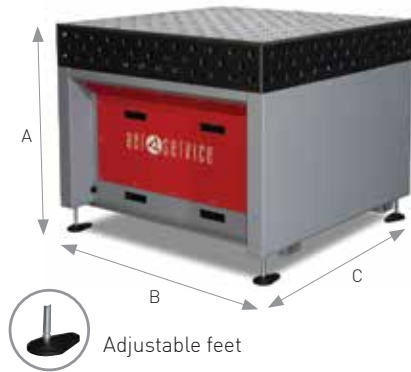
SWITCHES AND ELECTRICAL PANELS

Switches and electrical panels	Code	Description
	QEINT32A4P000	Switch disconnecter 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 _{min} mm	A _{max} 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 m³/h
	ABSC200100GA0	ABS-C down draft box for 3D worktop 2000x1000 mm - Load capacity 600 kg - Max airflow 6.000 m³/h
	ABSC240120GA0	ABS-C down draft box for 3D worktop 2400x1200 mm - Load capacity 600 kg - Max airflow 8.600 m³/h
	ABSC300150GA0	ABS-C down draft box for 3D worktop 3000x1500 mm - Load capacity 600 kg - Max airflow 11.800 m³/h

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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

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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