

## DRAFTMAX ULTRA

### DOWNDRAFT TABLE WITH AUTOMATIC SELF-CLEANING FILTER

The DraftMax Ultra is a workbench that provides extraction and filtration for welding and grinding applications. The DraftMax Ultra features a work grid, a three-stage pre filtration system for optimum spark arresting and two self-cleaning main filter cartridges. Both pre and main filters have pull-out dust drawers underneath. The filter cleaning system starts when the pressure drop reaches a certain maximum value during use (online cleaning). The filter cartridges are individually cleaned from the inside by compressed airshots. An integrated buzzer indicates when the filter cartridges need to be replaced. For welding and grinding applications the DraftMax Ultra must be fitted with a backdraft kit for optimum division of the extraction capacity (approx. 80% backdraft, 20% downdraft). Filter exchange and service (except for the membrane valves) can be effected from the front side.



Shown: downdraft table with backdraft kit and side panels.

#### APPLICATIONS

The DraftMax Ultra is intended to be used for the following applications:



- MIG-MAG/GMAW welding<sup>1)</sup>
- TIG welding<sup>1)</sup>
- FCAW welding<sup>1)</sup>
- stick/MMAW welding<sup>1)</sup>
- grinding<sup>1)</sup>
- cutting (max. 50 A)<sup>1)</sup>

<sup>1)</sup> Provided the downdraft table is fitted with the right accessories (refer to Available options/accessories)

Do **not** use the DraftMax Ultra for the following applications or in the following circumstances:



- arc-air gouging
- aluminum laser cutting
- oil mist
- heavy oil mist in welding fume
- extraction of aggressive fumes and gases (e.g. from acids, from alkaline, from soldering paste containing lithium)
- extraction of hot gases (more than 45°C/113°F continuously)
- grinding aluminium and magnesium
- flame spraying
- extraction of cement, saw dust, wood dust etc.
- sucking cigarettes, cigars, oiled tissues and other burning particles, objects and acids
- explosive environments or explosive substances/gases



#### SPECIFICATIONS

■ Physical dimensions and properties	
Dimensions (L x W x H)	1380 x 1005 x 920 mm (54¼ x 39½ x 36¼ in.)
Dimensions work grid (L x W)	1366 x 750 mm (53¾ x 29½ in.)
Height adjustment	920 - 970 mm (36 - 38 in.)
Material:	<ul style="list-style-type: none"> <li>• housing</li> <li>• epoxy-coated sheet metal</li> <li>• work grid</li> <li>• galvanized steel</li> </ul>
Colour:	<ul style="list-style-type: none"> <li>• housing</li> <li>• front doors</li> <li>• grey RAL 7011</li> <li>• yellow RAL 1004</li> </ul>
Weight (net)	255 kg (562 lbs)
Mains cord	3 m (1 m internal, 2 m external)


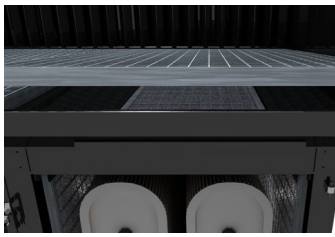
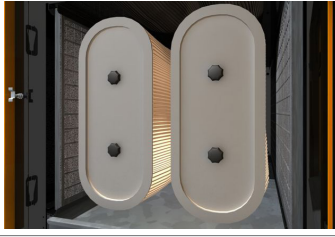

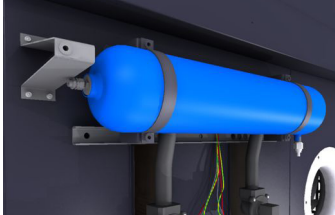
Plug	not included	
Motor design	IEC B3	
Maximum load	200 kg (440 lbs)	
• with wheelset	• 150 kg (330 lbs)	
■ Filters		
Material main filter cartridges	cellulose and polyester fibres	
Shape	oval	
Number of pleats	300	
Filter surface area	2 x 26 m <sup>2</sup> (2 x 280 ft <sup>2</sup> )	
Height of pleats	75 mm (3 in.)	
Distance between pleats	4 mm (⅛ in.)	
Surface weight	90 g/m <sup>2</sup> (129 grains/ft <sup>2</sup> )	
Efficiency	>99,9%	
Dust class	M according to DIN EN 60335-2-69 <ul style="list-style-type: none"> <li>• at particle size 0,3-5 µm</li> <li>• at filtration speed 0,056 m/s (11 ft/min.)</li> </ul>	
Treatment	SurfacePlus precoat (synthetic amorphous silica) (4,6 g/m <sup>2</sup> )	
Compressed air connection	3/8" (female)	
Compressed air tank	9 litres (2⅜ gallon)	
Compressed air pressure	5-8 bar (72-115 psi)	
Required compressed air quality	dry and oil-free, according to ISO 8573-3 class 6	
Online cleaning	7 times per filter during 2 minutes	
■ Performance		
Fan type	radial	
Air volume:	<ul style="list-style-type: none"> <li>• 50Hz</li> <li>• 60Hz</li> <li>• 2500 m<sup>3</sup>/h (1,500 CFM)</li> <li>• 3000 m<sup>3</sup>/h (1,750 CFM)</li> </ul>	
Noise level:	(according to ISO 3746)	
	50Hz:	60Hz:
• without options	• 74 dB(A)	• 78 dB(A)
• with silencer	• 69 dB(A)	• 74 dB(A)
• with silencer + HEPA kit	• 67 dB(A)	• 71 dB(A)

<b>■ Electrical data</b>	
Power consumption:	<ul style="list-style-type: none"> <li>• 2,2 kW (3 HP)</li> <li>• 3,0 kW (4 HP)</li> </ul>
Connection voltage	<ul style="list-style-type: none"> <li>• 400V/3~/50Hz</li> <li>• 208V/3~/60Hz</li> <li>• 480V/3~/60Hz</li> <li>• 600V/3~/60Hz</li> </ul>
Activation of filter cleaning system	pressure controlled
Start/stops of fan	max. 12 per hour
Protection class	IP 66 (electronics only)
Nominal current	4,4 A
Fuse:	<ul style="list-style-type: none"> <li>• transformer</li> <li>• 24V system</li> </ul>
Mains cord	3~/4-cored (3 phases, 1 earth)
<b>■ Ambient conditions</b>	
Operating temperature:	<ul style="list-style-type: none"> <li>• min. 5°C (41°F)</li> <li>• nom. 20°C (68°F)</li> <li>• max. 40°C (104°F)</li> </ul>
Max. relative humidity	80%
Outdoor use allowed	no
Storage conditions	<ul style="list-style-type: none"> <li>• 5-40°C (41-104°F)</li> <li>• relative humidity max. 80%</li> </ul>
<b>■ Available options/accessories</b>	
Backdraft kit	required for all welding applications and grinding
Side panels	
Plasma cutting work grid	required for plasma cutting applications (max. 50 A)
HEPA kit	recommended for stainless steel welding in case of recirculation
Silencer/Outlet duct	recommended option
Working light	
Movement sensor	automatic start/stop device
Bench vice mounting bracket	
Wheelset	
Dust tray lid	recommended for stainless steel welding
FCC-36/PTFE (2 x 18 m <sup>2</sup> )	filter cartridges of BiCo spunbond polyester + PTFE membrane; particularly suitable for heavy duty applications
<b>■ Scope of supply</b>	
Downdraft table without grid – Work grid (two-piece) – Cover strip with 8 bolts M6 – Square key 8 mm – Square key 6 mm	
<b>■ Order information</b>	
Article number:	<ul style="list-style-type: none"> <li>• 400V/3~/50Hz 7244700000</li> <li>• 208V/3~/60Hz 0000119244</li> <li>• 480V/3~/60Hz 7245200000</li> <li>• 600V/3~/60Hz 7245800000</li> </ul>
Number/package	1
<b>■ Shipping date</b>	
Gross weight (incl. pallet)	270 kg (595 lbs)
Packing dimensions	1450 x 1000 x 1200 mm (57 x 39½ x 47 in.)
Max. number/pallet	1 (stack: max. 2 pallets)
Harmonized Tariff Code	84213925

## APPROVALS/CERTIFICATES

	
	DraftMax Ultra + <b>HEPA kit</b> : compliance with EN-ISO 21904-2-2020 (W3) (50Hz versions only)
	ref. UL-508A (60Hz versions only)

## FEATURES

Maintenance performed from the front	
Three-stage spark arresting: <ul style="list-style-type: none"> <li>• 1st: spark arresters below work grid</li> <li>• 2nd: labyrinth spark trap</li> <li>• 3rd: spark arresters in main filter housing</li> </ul>	
Maximum filter surface area	
Simple control	
Efficient filter cleaning	

Product type  
Article no.  
Product category  
Version

**DraftMax Ultra**  
*refer to order information*  
Downdraft tables  
24JAN2024/P

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