

## 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 automatically each time the fan is switched off (offline cleaning) and also 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 should 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 (54.3 x 39.4 x 36.2 in.)
Dimensions work grid (L x W)	1366 x 750 mm (53.8 x 29.5 in.)
Height adjustment	920 - 970 mm (36 - 38 in.)
Material:	<ul style="list-style-type: none"> <li>• epoxy-coated sheet metal</li> <li>• galvanized steel</li> </ul>
Colour:	<ul style="list-style-type: none"> <li>• black RAL 9005</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 (2.95 in.)									
Distance between pleats	4 mm (0.16 in.)									
Surface weight	90 g/m <sup>2</sup> (129 grains/ft <sup>2</sup> )									
Efficiency	>99,9%									
Filter 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 (2.4 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									
Offline cleaning	1 time per filter during run-out period of fan									
■ Performance										
Fan type	radial									
Air volume:	<ul style="list-style-type: none"> <li>• 50Hz</li> <li>• 60Hz</li> </ul>									
	<ul style="list-style-type: none"> <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):	<table border="0"> <tr> <td>50Hz:</td> <td>60Hz:</td> </tr> <tr> <td>• without options</td> <td>• 78 dB(A)</td> </tr> <tr> <td>• with silencer</td> <td>• 74 dB(A)</td> </tr> <tr> <td>• with silencer + HEPA kit</td> <td>• 71 dB(A)</td> </tr> </table>		50Hz:	60Hz:	• without options	• 78 dB(A)	• with silencer	• 74 dB(A)	• with silencer + HEPA kit	• 71 dB(A)
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<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>• 480V/3~/60Hz</li> <li>• 600V/3~/60Hz</li> </ul>
Control filter cleaning device	automatically by PLC
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> <ul style="list-style-type: none"> <li>• T1Amp CCMR1</li> <li>• T2Amp</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.</li> <li>• nom.</li> <li>• max.</li> </ul> <ul style="list-style-type: none"> <li>• 5°C (41°F)</li> <li>• 20°C (68°F)</li> <li>• 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>	
Back panel	recommended for grinding applications
Backdraft kit	required for all welding applications
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
Outlet connection flange	
Working light	
Movement sensor	automatic start/stop device
Welding cable sensor	automatic start/stop device (for welding applications only)
Bench vice mounting bracket	
Wheelset	
Dust tray lid	recommended for stainless steel welding
<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</li> <li>• 480V/3~/60Hz</li> <li>• 600V/3~/60Hz</li> </ul> <ul style="list-style-type: none"> <li>• 7244700000</li> <li>• 7245200000</li> <li>• 7245800000</li> </ul>
Number/package	1
<b>■ Shipping date</b>	
Gross weight (incl. pallet)	270 kg (595 lbs)
Packing dimensions	1505 x 1020 x 1150 mm (59.3 x 40.2 x 45.3 in.)
Max. number/pallet	1 (stack: max. 2 pallets)
Harmonized Tariff Code	8421.39.2090
Country of origin	Netherlands

## APPROVALS/CERTIFICATES

	
	DraftMax Ultra + <b>HEPA kit</b> : IFA-W3 certified according to EN 15012-1 (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

**DraftMax Ultra**

Article no.

*refer to order information*

Product category

Downdraft tables

Version

020312/H

Always check the latest version on [www.plymovent.com](http://www.plymovent.com).