

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 welding¹⁾
- TIG welding¹⁾
- FCAW welding¹⁾
- stick/MMAW welding¹⁾
- grinding¹⁾
- cutting (max. 50 A)¹⁾



¹⁾ 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"> • epoxy-coated sheet metal • galvanized steel
Colour:	<ul style="list-style-type: none"> • black RAL 9005 • yellow RAL 1004
Weight (net)	255 kg (562 lbs)
Mains cord	3 m (1 m internal, 2 m external)

Supply cable for power outlet	3 m (1 m internal, 2 m external)
Plugs	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 ² (2 x 280 ft ²)
Height of pleats	75 mm (2.95 in.)
Distance between pleats	4 mm (0.16 in.)
Surface weight	90 g/m ² (129 grains/ft ²)
Efficiency	>99,9%
Filter class	M according to DIN EN 60335-2-69 <ul style="list-style-type: none"> • at particle size 0,3-5 µm • at filtration speed 0,056 m/s (11 ft/min.)
Treatment	SurfacePlus precoat (synthetic amorphous silica) (4,6 g/m ²)
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	2500 m ³ /h (1,500 CFM)

Noise level (according to ISO 3746) - 50Hz:	
<ul style="list-style-type: none"> without options with silencer with silencer + HEPA kit 	<ul style="list-style-type: none"> 74 dB(A) 69 dB(A) 67 dB(A)
■ Electrical data	
Power consumption	2,2 kW (3 HP)
Connection voltage	400V/3~/50Hz
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"> transformer 24V system 	<ul style="list-style-type: none"> T1Amp CCMR1 T2Amp
Mains cord	3~/4-cored (3 phases, 1 earth)
Supply cable	1~/3-cored (1 phase, 1 zero, 1 earth)
Power outlet	<ul style="list-style-type: none"> plug type F (CEE 7/4) 230V/max. 2200W
■ Ambient conditions	
Operating temperature:	
<ul style="list-style-type: none"> Min. Nom. Max. 	<ul style="list-style-type: none"> 5°C (41°F) 20°C (68°F) 40°C (104°F)
Max. relative humidity	80%
Outdoor use allowed	no
Storage conditions	<ul style="list-style-type: none"> 5-40°C (41-104°F) relative humidity max. 80%
■ Available options/accessories	
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
■ Scope of supply	
Downdraft table without grid - Work grid (two-piece) - Cover strip with 8 bolts M6 - Square key 8 mm - Square key 6 mm	
■ Order information	
Article number	4220-1211
Number/package	1
■ Shipping date	
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	Sweden

APPROVALS/CERTIFICATES



FEATURES

Maintenance performed from the front



Three-stage spark arresting:

- 1st: spark arresters below work grid
- 2nd: labyrinth spark trap
- 3rd: spark arresters in main filter housing



Maximum filter surface area



Simple control



Efficient filter cleaning



Product type	DraftMax Ultra
Article no.	4220-1211
Product category	Downdraft tables
Version	200111/F

Always check the latest version on www.plymovent.com.