

DRAFTMAX ADVANCE

DOWNDRAFT TABLE WITH MANUAL SELF-CLEANING FILTER

The DraftMax Advance is a workbench that provides extraction and filtration for welding and grinding applications.

The DraftMax Advance 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.

A Magnehelic gauge on the control panel indicates when the automatic filter cleaning system needs to be switched on. The filter cartridges are individually cleaned from the inside by compressed airshots.

For welding and plasma cutting applications the DraftMax Advance should be fitted with a backdraft kit for optimum division of the extraction capacity (approx. 80% backdraft, 20% downdraft). Depending on the specific application, the downdraft table can be provided with a special work grid.

The working height of the downdraft table is adjustable.

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 Advance is intended to be used for the following applications:

- MIG-MAG/GMAW welding¹⁾
- TIG welding¹⁾
- FCAW welding¹⁾
- stick/SMAW welding¹⁾
- grinding¹⁾
- cutting (max. 50 A)¹⁾
- polishing¹⁾

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

Do **NOT** use the DraftMax Advance for the following applications or in the following circumstances:

- arc-air gouging
- 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 113°F/45°C 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

PHYSICAL DIMENSIONS AND PROPERTIES

Dimensions (L x W x H)	54.3 x 39.4 x 36.2 in. (1380 x 1005 x 920 mm)
Dimensions work grid (L x W)	53.8 x 29.5 in. (1366 x 750 mm)
Height adjustment	36 - 38 in. (920 - 970 mm)
Material:	
- housing	- epoxy-coated sheet metal
- work grid	- galvanized steel
Color:	
- housing	- black RAL 9005
- front doors	- yellow RAL 1004
Weight (net)	562 lbs (255 kg)
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	440 lbs (200 kg) - with wheelset: 330 lbs(150 kg)

FILTERS

Material main filter cartridges	cellulose/polyester fibres
Shape	oval
Number of pleats	300
Filter surface area	2 x 280 ft ² (2 x 26 m ²)
Height of pleats	2.95 in. (75 mm)
Distance between pleats	0.16 in. (4 mm)
Surface weight	90 g/m ² (129 grains/ft ²)
Efficiency	>99.9%
Filter class	M according to DIN EN 60335-2-69 - at particle size 0.3-5 µm - at filtration speed 0.056 m/s (11 ft/min.)
Treatment	Precoat (synthetic amorphous silica) (4.6 g/m ²)
Compressed air connection	3/8" (female)
Compressed air tank	2.4 gallon (9 litres)
Compressed air pressure	72-115 psi (5-8 bar)
Required compressed air quality	dry and oil-free
Online cleaning	7 times per filter during 2 minutes

PERFORMANCE

Fan type	radial
Air volume	1,750 CFM (3000 m ³ /h)
Noise level (according to ISO 3746) - 60Hz:	
- without options	- 78 dB(A)
- with silencer	- 74 dB(A)
- with silencer + HEPA kit	- 71 dB(A)

ELECTRICAL DATA

Connection voltage:	- 208-240V/480V/3ph/60Hz - Canada - 600V/3ph/60Hz
Power consumption	4 HP (3 kW)
Control filter cleaning device	manually by on/off button
Start/stops of fan	max. 12 per hour
Protection class	NEMA 1 (electronics only)
Nominal current	6.2 A at 460 V
Fuse:	- T1Amp CCMR1 - T2Amp
Power outlet	- plug type B (USA: NEMA 5-15; Canada: CS22.2, n°42) - 120V/max. 1200W

AMBIENT CONDITIONS

Min. operating temperature	41°F (5°C)
Nom. operating temperature	68°F (20°C)
Nom. operating temperature	104°F (40°C)
Max. relative humidity	80%
Outdoor use allowed	no
Storage conditions	- 41-104°F (5-40°C) - relative humidity max. 80%

AVAILABLE OPTIONS/ACCESSORIES

Back panel	recommended for grinding applications
Backdraft kit	required for all welding and plasma cutting applications (max. 50 A)
Side panels	
Polishing work grid	required for polishing applications
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	
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

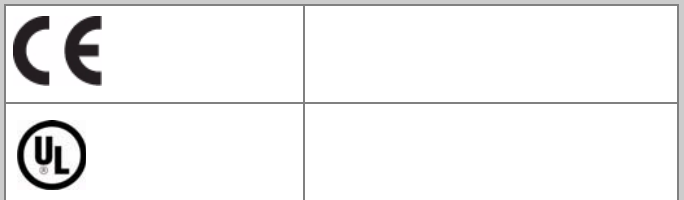
ORDER INFORMATION

Article numbers:	- 4225-1081 - Canada - 4225-1101
Number/package	1

SHIPPING DATA

Gross weight (incl. pallet)	595 lbs (270 kg)
Packing dimensions	59.3 x 40.2 x 45.3 in. (1505 x 1020 x 1150 mm)
Max. number/pallet	1 (stack: max. 2 pallets)
Harmonized Tariff Code	84213920
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 Advance**
 Art. no. REFER TO ORDER INFORMATION
 Product category downdraft tables
 Version 181208/0

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