PLYMOVENT ®

clean air at work

DRAFTMAX BASIC

DOWNDRAFT TABLE WITH DISPOSABLE FILTER

The DraftMax Basic is a workbench that provides extraction and filtration for welding and grinding applications. The DraftMax Basic features a work grid, a three-stage pre filtration system for optimum spark arresting and two disposable main filter cartridges. Both pre and main filters have pull-out dust drawers underneath. A Magnehelic gauge on the control panel indicates when the filter cartridges require replacement.

For welding and grinding applications the DraftMax Basic 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 can be effected from the front side.

Shown: downdraft table with backdraft kit and side panels.

product data sheet

APPLICATIONS

The DraftMax Basic is intended to be used for the following applications:
- MIG-MAG/GMAW welding[1]
- TIG welding[1]
- FCAW welding[1]
- stick/MMAW welding[1]
- grinding[1]
- 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 Basic 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: • housing • work grid	• epoxy-coated sheet metal • galvanized steel
Colour: • housing • front doors	• grey RAL 7011 • yellow RAL 1004
Weight (net)	245 kg (540 lbs)
Mains cord	3 m (1 m internal, 2 m external)

Plug	not included
Motor design	IEC B3
Maximum load • With wheelset	200 kg (440 lbs) • 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 m² (2 x 280 ft²)
Height of pleats	75 mm (3 in.)
Distance between pleats	4 mm (⅛ in.)
Surface weight	90 g/m² (129 grains/ft²)
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	SurfacePlus precoat (synthetic amorphous silica) (4,6 g/m²)
◼ **Performance**	
Fan type	radial
Air volume: • 50Hz • 60Hz	• 2500 m³/h (1,500 CFM) • 3000 m³/h (1,750 CFM)

Noise level (according to ISO 3746): • without options • with silencer • with silencer + HEPA kit	50Hz: • 74 dB(A) • 69 dB(A) • 67 dB(A)	60Hz: • 78 dB(A) • 74 dB(A) • 71 dB(A)

◼ **Electrical data**	
Power consumption: • 50Hz • 60Hz	• 2,2 kW (3 HP) • 3,0 kW (4 HP)
Connection voltage	• 400V/3~/50Hz • 480V/3~/60Hz • 600V/3~/60Hz
Protection class	IP 66 (electronics only)
Nominal current	4,4 A

Fuse:	
• transformer	• T1Amp CCMR1
• 24V system	• T2Amp
Mains cord	3~/4-cored (3 phases, 1 earth)

■ Ambient conditions

Operating temperature:	
• min.	• 5°C (41°F)
• nom.	• 20°C (68°F)
• max.	• 40°C (104°F)
Max. relative humidity	80%
Outdoor use allowed	no
Storage conditions	• 5-40°C (41-104°F)
	• relative humidity max. 80%

■ Available options/accessories

Backdraft kit	required for all welding applications and grinding
Side panels	
HEPA kit	recommended for stainless steel welding in case of recirculation
Silencer/Outlet duct	recommended option
Working light	
Bench vice mounting bracket	
Wheelset	
Dust tray lid	recommended for stainless steel welding
FCC-36/PTFE (2 x 18 m²)	filter cartridges of BiCo spunbond polyester + PTFE membrane; particularly suitable for heavy duty applications

■ 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:	
• 400V/3~/50Hz	• 7214700000
• 480V/3~/60Hz	• 7215200000
• 600V/3~/60Hz	• 7215800000
Number/package	1

■ Shipping date

Gross weight (incl. pallet)	260 kg (573 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

CE	
	DraftMax Basic **+ HEPA kit**: compliance with EN-ISO 21904-2-2020 (W3) (50Hz versions only)
c(UL)us	ref. UL-508A (60Hz versions only)

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	
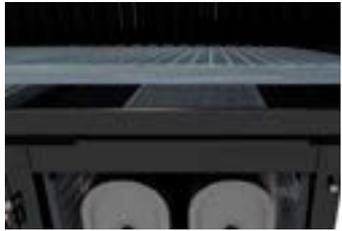
Product type	**DraftMax Basic**
Article no.	*refer to order information*
Product category	Downdraft tables
Version	24JAN2024/Q

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