

Compact high vacuum unit that can be used as central vacuum cleaner for cleaning or hand tool connection. Compressedair cleaned filter unit with timer control built together with side channel blower in sound enclosed cabinet and mounted on strong transport platform.

Plug & Play model HFU-F is with built-in frequency converter and motor with thermal fuse.

50Hz 60Hz

HFU/HFU-F: Air volume: Max. 1,050m³/h Max.1,275m³/h

Vacuum: Max. 32,000Pa

Filter area: 13m² 13m²

Description filter unit type CJF

- Polluted air is led into unit through tangential inlet in raw air chamber top. Hereby downflow and pre-separation by cyclone effect are ensured, which contributes to load reduction on the filter media itself.
- Air is filtered through vertical-placed filter cartridge with internal filter core, which optimizes cleaning effect.
- Timer-controlled filter cleaning by integrated compressedair system with pressure tank and jet valve.
- The clean air is led out through ø125mm-connection (muff measurement) in cabinet top. Sound is damped by channel silencers on outlet integrated in unit.
- Dust is collected in dust container in unit bottom. Quicklockadjustable dust container system suspended in ø400mm system flange.

Description side channel blower type KMS

- Side channel blower is placed on vibration absorbers in sound enclosed cabinet.
- · Vacuum limiter mounted on inlet.
- Guided cooling air by cooling ribs in cabinet.

Optimized moveable vacuum cleaner solution with long operation times

Side channel blower as vacuum pump and automatic filter cleaning by compressed-air enable continually operation. The compact construction on strong transport platform ensures that the vacuum cleaner unit can be moved from one production place to another and do not occupy much space.



Moveable unit
Built on a strong transport platform. Easy to
move by hand pallet
truck or fork lift by fork
pockets.



Easy connection
230V-electrical cable
with plug and ø8mmcompressed-air hose
are located on unit front.



Plug & Play-unit HFU-F
CEE-plug as well as start/stop-switch for side channel operation by frequency converter are placed on unit front (except HFU-F 20000). Frequency converter is read through front door window.



All maintenance done through front door Maintenance incl. dust container emptying is done from unit front. Quicklock-adjustable dust container on 4 wheels ensures userfriendly dust container service.



• Filter cartridge ø325mm. Length: 660mm

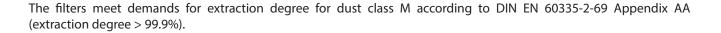
Filter control:

- Type TC1-timer control without automatic after-cleaning. 230V AC (constant) Should be connected with delayed disconnection in relation to fan stop to obtain
- Compressed-air: 5.5 6.0 bar dry compressed-air. Unit equipped with ø8mm pneumatic
- · Differential pressure displayed in integrated manometer
- 1"-jet valve connected to central compressed-air tank in clean air chamber

Filter change: Standard from clean air chamber top

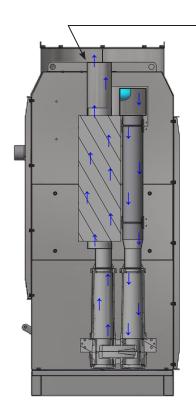
Filter material:

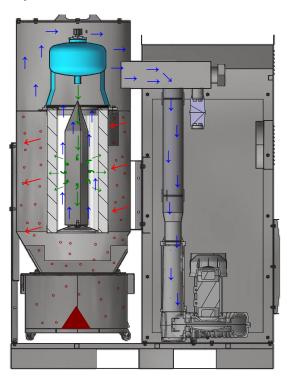
Standard	Material	Used for	
G102	Polyester flake	Dry not-static loaded or hygroscopic dust particles $> 0.2 \mu m$	
Alternative			
G105	Cellulose/Polyester	Welding/soldering	
G107	Cellulose/Polyester Nano	Smoke and soot particles	
G113	Polyester flake with PFPT-coating, antistatic	Static-loaded or hygroscopic particles	
G115A	Polyester flake with teflon membrane	Finer dust sorts, e.g. cutting smoke from plasma, flame and laser cutting	
G116A	Polyester flake with teflon membrane, antistatic	Finer static-loaded dust sorts	





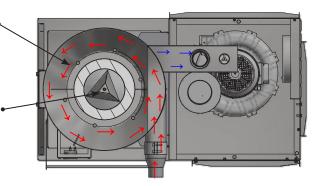
Sound enclosed cabinet and integrated channel silencer on outlet reduce air noise.





Deflector for optimal air flow and filter life optimization.

Internal filter core optimizes filter cartridge cleaning.



Construction/surface:

High vacuum unit type HFU/HFU-F is constructed according to:

- Machine directive 2006/42/EU
- EMC-directive 2014/30/EU
- Directive 2014/68/EU about pressure equipment
- Low voltage directive 2014/35/EU
- Harmonized standards: EN 13854, EN 4414, EN 12100, EN 60204-1, EN ISO 13857
- Further standards: ISO 3746

Filter cabinet is made in 2mm black steel plate Surface powder enamelled RAL 5007/7011 structure

Further is available:

- Version in hot-galvanized, enamelled steel plates for outdoor mounting
- Filter replacement from unit side
- Filter control type ECO-S, differential pressure control automatic after-cleaning
- Sack holder for 70L dust container
- ½"-water separator with manometer and pressure reducing valve
- Various high-pressure piping, fittings and coupling for fixed unit assembly
- Various sliding dampers and flap valves that possibly can be equipped with micro-switch for extraction start
- · Various controls and system surveillances
- Various pin-point extractions, hoods, slot nozzles, plastic adapters for valves, hoses and cleaning equipment
- Explosion-protected/-reliefed version for installation in ATEX-zones (see ATEX data sheet)





Various high-vacuum components and ABB-frequency converters are available.





Flap valve type KV (left) and slot nozzle type VSPL with magnet - see product group 6

High vacuum unit type HFU/HFU-F is available in the sizes as stated in the forms below.

Please, contact us for assistance in selecting the optimal unit taking into consideration air volume, dust type and volume, operation times etc.

High vacuum unit type HFU:

Туре	Order no.	△ P start/end ²⁾ [Pa]	At 50Hz [kW / Amp] ³⁾	Number filter cartridge	G102 filter area [m²]	G105 filter area [m²]	Com- pressed air [L/min.]	Dust container [L]	Weight [kg]
HFU 5500	04 510 000	200/2000	5.5 / 11.1	1 1)	13	21	30	1x70	360
HFU 7500	04 511 000	200/2000	7.5 / 15.7	1 1)	13	21	30	1x70	370
HFU 9000	04 512 000	200/2000	9.2 / 17.8	1 1)	13	21	30	1x70	375
HFU 13000	04 513 000	200/2000	11.0 / 21.7	1 1)	13	21	30	1x70	380
HFU 20000	04 514 000	200/2000	18.5 / 35.9	1 1)	13	21	30	1x70	395

High vacuum unit type HFU-F with built-in frequency converter:

Туре	Order no.	\triangle P start/end $^{2)}$ [Pa]	At 60Hz [kW / Amp] ³⁾	Frequency converter [kW]	Number filter car- tridge	G102 filter area [m²]	G105 filter area [m²]	Com- pressed air [L/min.]	Dust con- tainer [L]	Weight [kg]
HFU-F 5500	04 510 300	200/2000	6.5 / 11.1	7.5	1 1)	13	21	30	1x70	380
HFU-F 7500	04 511 300	200/2000	9.0 / 15.3	11.0	1 1)	13	21	30	1x70	390
HFU-F 9000	04 512 300	200/2000	11.0 / 17.9	11.0	1 1)	13	21	30	1x70	395
HFU-F 13000	04 513 300	200/2000	13.0 / 21.2	15.0	1 1)	13	21	30	1x70	400
HFU-F 20000	04 514 300	200/2000	22.0 / 35.4	22.0	1 1)	13	21	30	1x70	415

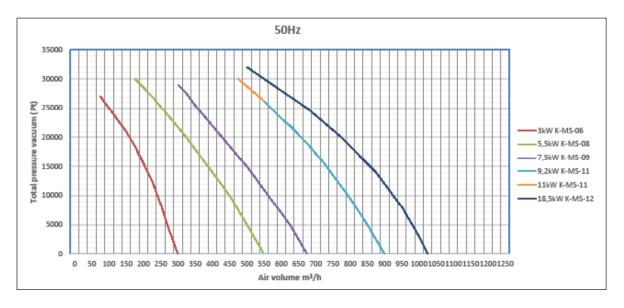
 $^{^{1)}}$ Filter cartridge ø325 x 660mm/ø13.5mm, 13m 2 , G102 (08 128 100) as well as delivered with 1 piece jet valve



²⁾ Pressure drop stated over filter cartridge

³⁾ Motor voltage: 3 x 400/690V

Side channel blower for high vacuum unit type HFU (50Hz):



Side channel blower for high vacuum unit type HFU-F (60Hz):

