



Application

HARD filtering unit has been developed for cleaning the air from dust-gas contamination, whereby dusts can have properties of dry dust and viscous dust alike.

Among others, it is an ideal solution for:

- filtration of the aerosols arising during spray painting of not large surfaces,
- filtration of the air polluted with dusts and gases arising during rubber laser cutting, cutting of plywood, plexi, acrylic and other plastics,
- for materials as above but during grinding,
- dust- and gas contamination arising during polishing of various materials,
- oil laden welding fumes with additional gases emitted during welding,
- filtration of the air polluted with fat particles at the kitchen extraction hoods,
- unpleasant aromas in chemistry laboratories.

Structure

HARD consists of subsequent elements:

- steel housing,
- pre-filter paint-stop spunbond class G3,
- pocket filter class F8,
- high-efficiency HEPA filter class H13,
- gas absorber cassettes with granulated active carbon,
- radial fan aluminium cast with a silencer at the outlet
- two pressure controls activating the light signalling at the moment of excessive flow resistances of the pocket filter,
- hour-meter for measuring the work time,
- control unit.

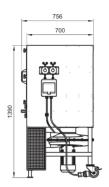
Operational use

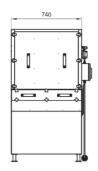
Before the use, the appliance ought to be equipped with an appropriate local exhaust. It can be ERGO extraction arms or flexible hoses (HARD-1000-S, HARD-2000-S) or extraction installation (for HARD-5000). Diameters and connection ferrules for each device size are mentioned in Technical Data. As standard, the connections are plugged. In place of plug fasten appropriate connection by screwing. In the course of use, observe the replacement periods of filters according to indications of signal lamps, activated by pressure controls. In case when the given signal lamp activates, replace the filter for new. Replace the paint-stop filter when device flow efficiency decreases. Granulated active carbon ought to be replaced at the moment when it is loosing its absorbing properties. For this purpose observe the hour-meter indications.

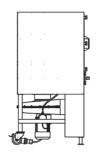
Technical data

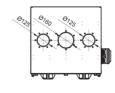
Type	Part No.	Maximum volume flow	Maximum vacuum	Motor rate	Supply voltage	Acoustic pressure level [dB(A)] from distance		Weight	Suction
,,		[m³/h]	[Pa]			1 m 5 m		[kg]	connections
HARD-1000-S	800092	1000	1700	0,75	230	71	66	180	1x Ø160 mm 2x Ø125 mm
HARD-2000-S	800O88	2000	1900	1,5	230	73	66,5	237	1x Ø200 mm 2x Ø160 mm 2x250x152 mm
HARD-5000-S	800O93	6500	4200	6,5	3x400	76	72	695	1xØ400 mm

HARD-1000-S

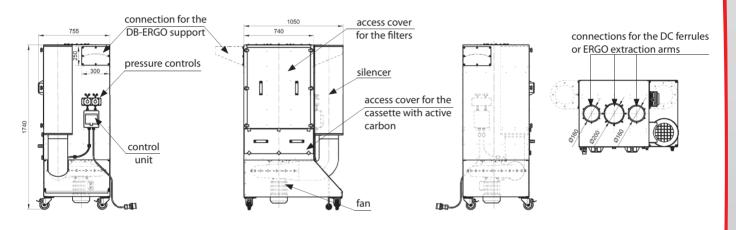




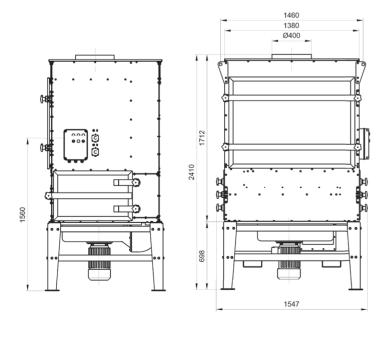


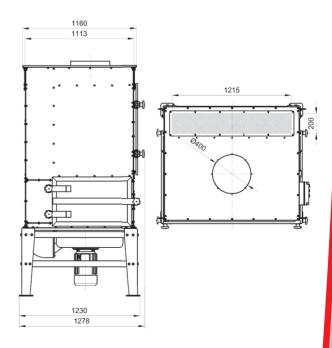


HARD-2000-S



HARD-5000-S

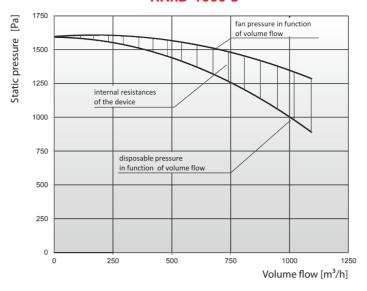




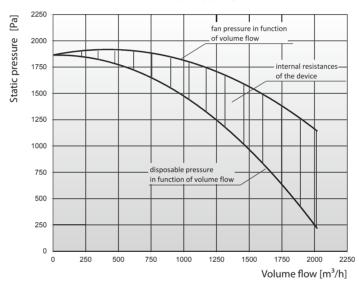
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Flow charts

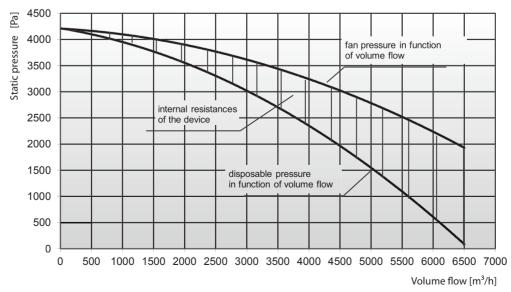
HARD-1000-S



HARD-2000-S

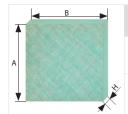


HARD-5000-S



Replaceable filters

Pre-filter



Туре	Part. No	Weight [kg]	Dimensions AxBxH [mm]	Quantity of filters	Class	Filtration material	Purpose
PS-HARD-2000-S	838F76	0.05	700x740x50	1		Clara annual an d	HARD-1000-S
Pre-filter	030F/0	0,05	700x740x30	Į.	63	Glass-spunbond with	HARD-2000-S
PS-HARD-5000-S Pre-filter	838F77	3,4	720x1030x50	1	G3	progressively growing density.	HARD-5000-S

Pocket filter



Туре	Part. No	Weight [kg]	Dimensions AxBxH [mm]	Quantity of filters	Class	Filtration material	Purpose
HARD-2000-S Pocket filter	838F86	2,3	610x610x360x20	1	F8	Polyester spunbond of progressive	HARD-1000-S HARD-2000-S
HARD-5000-S Pocket filter	838F82	4,5	720x1030x550x20	1	10	construction. Filtration efficiency 90%.	HARD-5000-S

High-efficiency HEPA filter



Туре	Part. No	Weight [kg]	Dimensions AxBxH [mm]	Quantity of filters	Class	Filtration material	Purpose
HARD-1000-S High-efficiency filter	838F87	5,4	610x610x80	1		Non-hygroscopic	HARD-1000-S
HARD-2000-S High-efficiency filter	838F83	18,8	610x610x292	1	H13	cardboard of glass-fibre Filtration effi-	HARD-2000-S
HARD-5000-S High-efficiency filter	838F84	23,5	762x610x292	2		ciency 99,95%.	HARD-5000-S

Granulated active carbon filter



Туре	Part. No	Total weight [kg]	Quantity of cassettes	Remarks	Purpose
ORGANOSORB 10CO 4X8	474W04	20	1	Active carbon ought to	HARD-1000-S
		20	2	be replaced according	HARD-2000-S
		40	2	to the indications of the hour-meter.	HARD-5000-S

Additional equipment

Wall brackets

Sort of the bracket	Туре	Part. No	Weight [kg]	Appropriate extraction arms	Purpose
300	DB-ERGO-D	817W29	4	ERGO-L	HARD-2000-S
200 1/60	DB-ERGO-L	817W28	4,2	ERGO-D	HARD-2000-S

Connection ferrules – to fasten the extraction flexible hoses



Type	Part. No	Dn [mm]	Purpose
DC-125	830Z13	125	HARD-1000-S
DC-160	830Z14	160	HARD-1000-S, HARD-2000-S
DC-200	830Z15	200	HARD-2000-S

Outlet fitting piece



Туре	Part. No	Weight [kg]	Purpose
R-5000 Hard	829R94	6	To fasten at the outlet of HARD-5000-S in order to connect the ventilation conduit.