

# ICAP 4.2

## WALL-MOUNTED FILTER UNIT FOR WELDING FUMES AND DUST FROM GRINDING / THERMAL CUTTING



### Use

Extraction of welding fumes and dust from grinding, sanding and manual thermal cutting

### Construction

Powder-coated steel

### Applications



MIG MAG



Pulse MIG MAG



MMA Stick electrode



TIG



PLASMA CUTTING



GRINDING

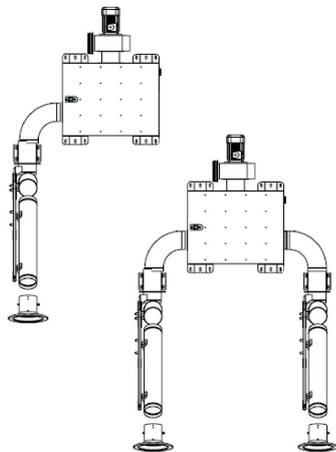
### MAIN FEATURES

The range of wall-fitting filter units ICAP 4 provides maximum performance in a most compact cabinet and is therefore ideal for indoor installation.

The cartridge filters and the automatic cleaning function make this unit ideal for the extraction of fumes and micro-dust with medium concentrations, such as in MMA or MIG welding processes or in sanding.

### VERSIONS

ICAP 4.2 – suited for 1 extraction point  
ICAP 4.2 – suited for 2 extraction points



### STRUCTURE

Supporting structure made of painted sheet metal.

Filter inspection door with double compression handle. 25-liter dust collector bin with hermetic closure.

The plug-fan extractor is incorporated in the unit.

Discharge hole on the right or left side according to the installation requirements.

### FILTERING SECTION

Filtering section including, depending on the version, 1 or 2 high efficiency cartridge filters made with a patented compound of self-extinguishing cellulose and external layer of nanofibers.

The cartridges are also suitable for applications with hot pollutants (FR – Flame Retardant technology).

The automatic cleaning system by compressed air guarantees a long duration of the cartridges.

Optional: activated carbon filter for the filtration of VOC volatile organic compounds.

### EXTRACTION

A plug-fan system made with an impeller with backward curved blades in welded and painted steel ensures excellent resistance and high mechanical characteristics.

### CONTROL PANEL

The digital control panel (for installation on the wall) is complete with thermal protection for the electric motor and with a pcb to manage all machine data such as cyclic cleaning of the cartridges, filter clogging alarm, safety micro switch on the inspection door, operating hours, alarms, etc. A phase sequence relay is provided to establish the correct electrical wiring and direction of rotation of the impeller. Complete electrical wiring to the machine and its components: just connect the mains supply cable to the appropriate terminal block and the unit is ready to start.

## CERTIFICATIONS



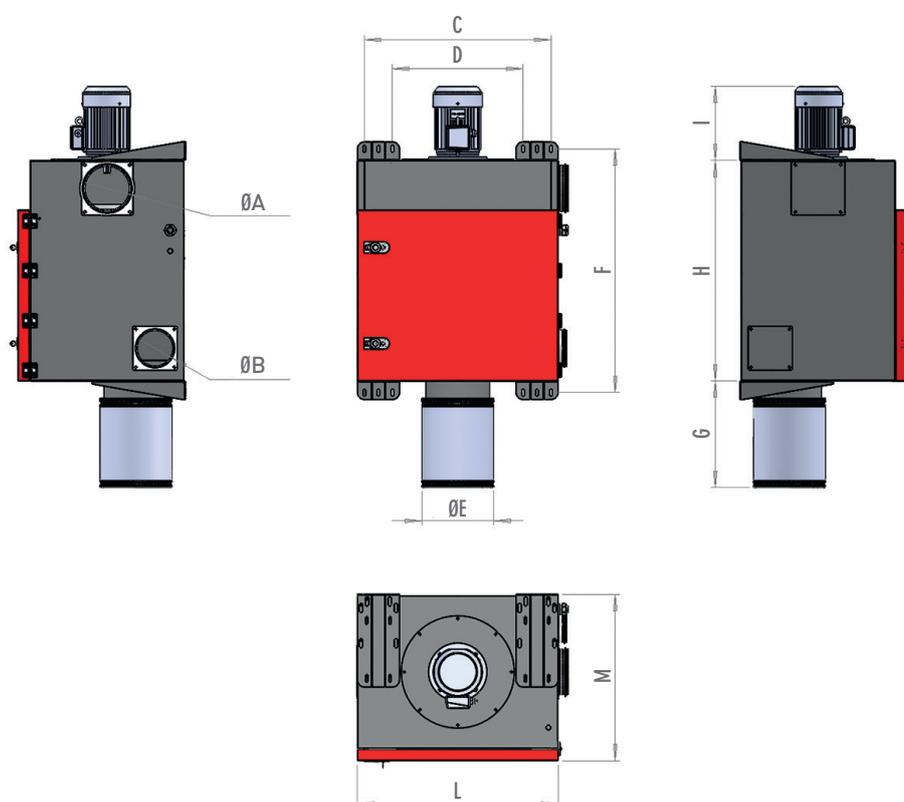


## WALL-MOUNTED AIR CLEANER ICAP 4.2

Wall-mounted filter unit with cartridge filter



### DIMENSIONS



ØA	ØB	C	D	ØE	F	G	H	I	L	M
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
199	158	800	560	310	1053	461	953	321	860	718

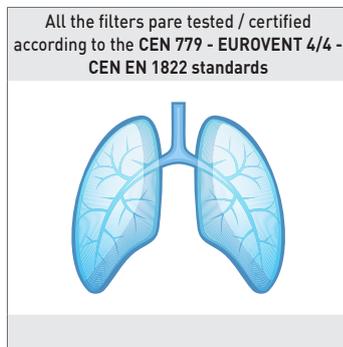
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## TECHNICAL FEATURES

Model	Fan flow rate m <sup>3</sup> /h	Extraction capacity m <sup>3</sup> /h	Cartridges No.	Filtration efficacy %	Residual pressure Pa	Air consumption NL/min	Supply voltage kW/V/Hz	Sound level dB(A)	Weight kg
ICAP 4.2 / 1	5400	1500	1	BIA >99	200	0,08	3/400/50-60	73	130
ICAP 4.2 / 2	5400	3000	2	BIA >99	150	0,16	3/400/50-60	73	138

## FILTRATION



## ICAP 4.2

Code	Description
ICAP4C1100AA0	Wall-fitting filter unit ICAP 4.2 suited for 1 articulated arm - Filtration efficiency BIA "M" >99%
ICAP4C1300AA0	Wall-fitting filter unit ICAP 4.2 suited for 2 articulated arms - Filtration efficiency BIA "M" >99%

## REPLACEMENT FILTERS

Replacement filters	Code	Description
	RF0ICAP420001	Set of filters for ICAP 4.2 incl.: 1 cartridge filter
	RF0ICAP420002	Set of filters for ICAP 4.2 incl.: 2 cartridge filters
	RF0ICAP420003	Set of filters for ICAP 4.2 incl.: 1 active carbons filter 20 kg
	RF0ICAP420004	Spare parts for ICAP 4.2 incl.: 1 dust collector bin

## ACCESSORIES

### ARTICULATED ARMS

Articulated arm	Code	Description
	ARMOFLEX160201	ARMOFLEX articulated arm - Ø 160 mm - L. 2000 mm
	ARMOFLEX160301	ARMOFLEX articulated arm - Ø 160 mm - L. 3000 mm
	ARMOFLEX160401	ARMOFLEX articulated arm - Ø 160 mm - L. 4000 mm
	ARMOTECH160201	ARMOTECH articulated arm - Ø 160 mm - L. 2000 mm
	ARMOTECH160301	ARMOTECH articulated arm - Ø 160 mm - L. 3000 mm
	ARMOTECH160401	ARMOTECH articulated arm - Ø 160 mm - L. 4000 mm

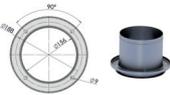
### WALL BRACKETS

Wall bracket for centralized plant	Code	Description
	CWB02018000000	Wall bracket for connection to flex hose Ø 160 mm

### EXTENSIONS FOR ARMS

PAB extension for articulated arms	Code	Description
	PAB16000001000	Extension PAB 1 for extraction arm Ø 160 mm - L. 1000 mm
	PAB16000002000	Extension PAB 1 for extraction arm Ø 160 mm - L. 2000 mm
	PAB16000003000	Extension PAB 1 for extraction arm Ø 160 mm - L. 3000 mm
	PAB16000004000	Extension PAB 1 for extraction arm Ø 160 mm - L. 4000 mm

### FITTINGS

Adapter for flexible hose Ø 160 mm on wall bracket	Code	Description
	ACCIBS00000RF1	Adapter for connection of hose Ø 160 mm on bracket Ø 160 mm

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## SILENCERS

Silencer for discharge channel	Code	Description						
	SLL200600100	Silencer with ogive for spiral ducts - Ø 200mm - L. 600mm - Insulation thickness 100 mm						
Reduction in dB on the central frequency								
	63	125	250	500	1K	2K	4K	8K
	3	7	14	21	24	21	12	19

## JOINTS

Coupling sleeve female	Code	Description
	MF200	Coupling Ø200mm female

Adapter male/male	Code	Description
	RCPL250200	Adapter male/male Ø250 mm - Ø200 mm
	RCPL300200	Adapter male/male Ø300 mm - Ø200 mm
	RCPL315200	Adapter male/male Ø315 mm - Ø200 mm