



Welding fume extraction



aer service

Equipments for air pollution

We let you breathe good air

Working in a healthy and safe environment means producing more, but also living better. This is why we are active in the welding sector with Plug&Play equipment and systems for the extraction, filtration and purification of fumes, particulate, vapours and odours arising from welding.

Our ready-to-use solutions offer you maximum reliability and help you work with peace of mind.



Welding
Fume extraction

AER 201

PORTABLE UNITS

Applications



MIG MAG



MIG MAG
pulse



MMA
stick
welding



TIG



Certifications



Portable filter unit for welding fumes

Extraction of welding fumes with medium-low concentrations of pollutants, in closed or difficult-to-reach environments.

Features

Powder coated steel structure resistant to accidental impacts and at the same time light to facilitate the transport of the purification system by means of a convenient handle. Equipped with speed regulator.

The structure allows to add an expulsion flexible hose (T19 Ø 50).

The filter section consists of a metallic anti-spark filter, a cartridge filter in pre-treated card and an active carbons filter.

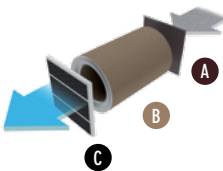
Single-phase extraction fan with DC brush motor managed by a control panel with electric protection.

Flexible hose with extraction nozzle and positioner.

TECHNICAL DATA

Model	Ø flexible hose mm	Hose length mm	Motor power kW/V/Hz	Extraction fan flow rate m³/h	Extraction capacity m³/h	Filtration efficiency %	Noise dBA	Total weight kg
AER201	50	2000	1.1/230/50	250	110	85	72	20
AER201 99	50	2000	1.1/230/50	250	110	99,9	72	20

FILTRATION



Filtration stage	Type and Classification	Filter thickness mm	Efficiency Rule / %	Version
A	Metallic prefilter	12	G2 / 25%	Series
B	Cartridge filter	Ø125 - L. 285	F5 / 85%	Standard
B	Cartridge filter	Ø125 - L. 285	H13 / 99.9%	Optional
C	Active carbons filter	30		Series

EVO 2

MOBILE UNITS

Applications



MIG MAG



MIG MAG
pulse



MMA
stick
welding



TIG



Certifications



Mobile purification system for welding fumes equipped with EPA filter for discontinuous work

Extraction of welding fumes with medium-low concentrations of pollutants, in closed or difficult-to-reach environments.

Features

Powder-coated steel cabinet with castors and handles.

Digital control panel with filter alarm and other functions.

High-performance centrifugal fan positioned downstream of the filter section in a special soundproof compartment.

Filter section consisting of a series of metal and acrylic filters for class E12 – 99.5% final filtration efficiency according to standard EN 1822.

Spark arrestor is standard supplied.

Articulated extraction arm Ø 160 mm (with rigid or flexible hose). Extraction hood with damper and multi-directional articulation.

TECHNICAL DATA

Model	Extraction fan flow rate m ³ /h	Extraction at hood m ³ /h	Filtration efficiency Rule / %	Filtering surface m ²	Motor power kW/V/Hz	Noise dB (A)	Dimensions LxPxH mm	Total weight kg
EVO 2.2	2500	1400	EN 1822 [E12] / 99.5	14.5	1.1/230/50	69	520x1010x920	85

UNI 2

MOBILE UNITS

Applications



MIG MAG



MIG MAG
pulse



MMA
stick
welding



TIG



Certifications



Professional purification system for welding fumes

Extraction of welding fumes with medium concentrations of pollutants.
Mobile unit suitable for closed or difficult-to-reach environments, where standard extraction devices cannot be used.

Features

Powder-coated steel cabinet with castors and handles.
Digital control panel with clogged filter alarm and other functions.
High-performance centrifugal fan positioned downstream of the filter section in a special soundproof compartment.
Spark arrestor is standard supplied.
10 kg deodorising carbon filter is available upon request (recommended in all cases of VOS, stainless steel and zinc coated steel).
Articulated extraction arm Ø 160 mm (with rigid or flexible hose). Extraction hood with damper and multi-directional articulation.

Versions

EPA filter - metallic and acrylic filters for a high filtration efficiency (99.5%)
Cartridge filter - polyester cartridge filter for a high filtration efficiency (99.5%)
Electrostatic - long life electrostatic cell for a high filtration efficiency (95%).

TECHNICAL DATA

Model	Extraction fan flow rate m ³ /h	Extraction at hood m ³ /h	Filtration efficiency Rule / %	Main filter Type	Filtering surface m ²	Motor power kW/V/Hz	Noise dB(A)	Dimensions LxPxH mm	Total weight kg
UNI 2 H	2250	1480	E12 / 99.5	Epa	14.5	1.1/230/50	≤ 70	600x800x1200	105
UNI 2 E	2250	1480	E12 / 95	Electrostatic	-	1.1/230/50	≤ 70	600x800x1200	105
UNI 2 C	2250	1480	E12 / 99.5	Cartridge	-	1.1/230/50	≤ 70	600x800x1200	105

UNI 4

MOBILE UNITS

Applications



MIG MAG



MIG MAG
pulse



MMA
stick
welding



TIG



PLASMA
CUTTING



Certifications



Mobile filtering unit for welding fumes and dusts from grinding and manual plasma cutting, with automatic cleaning

Extraction of welding fumes and dusts from grinding and manual plasma cutting, suitable for close and difficult-to-reach environments, where standard extraction systems cannot be used.

Features

Structure constructed in powder-coated steel sheet metal complete with robust castors and handles.

Digital control panel with alarm log and auto-cleaning function.

Electrical high-performance centrifugal extraction fan downstream of the filter stages, in a special soundproof compartment.

The unit is provided with 2 cartridge filters in antistatic polyester for a high filtering efficiency (M 99%).

Automatic cleaning function by counter-current compressed air.

5 kg deodorising carbon filter is available upon request (recommended in all cases of VOS, stainless steel and zinc coated steel).

Articulated extraction arm Ø 160 mm (with rigid or flexible hose). Extraction hood with damper and multi-directional articulation.

Pre-coating treatment available on demand, in case of use for manual plasma cutting beyond 2 h per day.

TECHNICAL DATA

Model	Extraction fan flow rate m ³ /h	Extraction at hood m ³ /h	Filtration efficiency Rule / %	Main filter Type	Motor power kW/V/Hz	Noise dB(A)	Dimensions LxPxH mm	Total weight kg
UNI 4.2	2500	1200	M / 99	Cartridge	1.1/230/50	67	600x1200x800	175

ICAF

MOBILE UNITS

Applications



MIG MAG



MIG MAG
pulse



MMA
stick
welding



TIG



Certifications



Mobile purification system for welding fumes

The mobile unit ICAF, thanks to the large air filter surface and the manufacturing features, is the ideal professional solution for the portable extraction and filtration of welding fumes and low concentrations of substances, such as: gases, non-oily vapours, odours produced by various applications in the industrial and chemical sectors.

Operator safety is guaranteed by the large filter surface, the high airflows and by the quantity, quality and long lifespan of the active carbon filters.

Features

Extremely sturdy and compact structure in powder-coated thick steel.

Articulated extraction arm Ø 125-160-200 depending on model and specific use.

4-stages filter section installed each of the 4 sides of the machine.

The unit is standard equipped with 40 kg active carbons.

High filtration efficiency and long filter life.

Heavy-duty extraction unit designed for high levels of performance with low energy consumption.

TECHNICAL DATA

Model	Extraction fan flow rate m ³ /h	Extraction at hood m ³ /h	Filtration efficiency %	Extraction arm N.	Motor power kW/V/Hz	Noise dB(A)	Dimensions LxPxH mm
ICAF 160	3500	1500	98	1	1.1/400/50	73	950x950x850
ICAF 160/2	3500	3000	98	2	1.1/400/50	73	950x950x850

ICAP 2

WALL-MOUNTED
PURIFICATION SYSTEM



Applications

MIG MAG



MIG MAG
pulse



MMA
stick
welding



TIG



Certifications



Wall-mounted purification system for welding fume

These purification systems have been designed to extract welding fumes in places where welding work is discontinuous, for example, spot welding or seam or arc welding, therefore with medium-low concentrations of pollutants, gas or suspended micro-particles.

Features

Compact structure in sturdy powder-coated steel sheet metal and supplied with external brackets for fastening to the wall. High-performance centrifugal fan directly coupled to an IE2 400/50Hz three phase motor.

Filter section consisting of a series of metal and acrylic filters for class E12 – 99.5% final filtration efficiency.

Articulated arm Ø160 mm, length 2-8 m, including hood with damper, anti-intrusion grid and multidirectional articulation.

In addition, deodorisation is achieved using an active carbon filter (10 kg), before releasing the filtered air into the environment.

The electrostatic version ICAP 2 E is available in alternative to ICAP 2 H with rigid pocket filter.

TECHNICAL DATA

Model	Extraction fan flow rate at hood m ³ /h	Extraction m ³ /h	Filtration efficiency Rule / %	Filtering surface m ²	Motor power kW/V/Hz	Noise dB(A)	Dimensions LxPxH mm	Total weight kg
ICAP 2.0 H	2500	1480	99.5	14.5	1.1/230/50	73	640x510x1200	105
ICAP 2.0 E	2500	1480	99.5	-	1.1/230/50	73	640x510x1200	125

aer  service
Equipments for air pollution

AERSERVICE EQUIPMENTS Srl

Viale dell'Industria, 24 - 35020 Legnaro (PD)
Tax code and VAT number:
05021760284 - Tel. +39 049 641200
e q u i p m e n t s . a e r s e r v i c e . c o m

DISTRIBUTED BY:

