

# EUROVAC

## FUME ARMS

IDEAL FOR  
APPLICATIONS  
SUCH AS :

- Welding
- Gouging
- Dusts
- Grinding
- Fumes
- Gases



**Source capture fume arms  
with the user in mind !**

*Designed to remove harmful  
pollutants such as welding fumes,  
smoke and carcinogens from  
the worker's breathing zone*

**Source Capture Equipment  
and Dust Collector Manufacturer**

## **Product Description:**

Eurovac self-supporting arms provide the most economical and effective methods for the capture of fumes. Contaminants are removed at their source. The use of self-supporting joints, flexible hoses and smooth bore tubing allow for easy placement of the arm's hood near the source of a problem. Fume arm tubes are fabricated of powder coat painted steel with cast aluminum joints which

include friction discs and are fully adjustable to the worker's desired tension. The arms include a handle which completely encircles the hood in order to facilitate easy repositioning from all sides. Hood diameters vary from 6"/160mm on the 3"/75mm arms, to 14"/350mm on the 8"/200mm arms. All hoods are equipped for installation of an optional LED light kit.

### **Features Include:**

- Exterior cast joints for easy access with adjustable pressure friction discs
- "Grab" handle all around the hood
- Second handle for rotation on the tube
- Air diverter in hood to increase capture velocity
- Heavy duty 360 degree swivel with safety stop
- Smooth tube construction for lowest pressure drop
- Totally encapsulated lift assist spring
- Duct connection flange
- Built-in shut off damper in every arm

### **Typical Applications:**

- All welding processes
- Grinding dusts and most airborne dusts
- Polishing, painting, printing
- Soldering fumes
- Chemical applications such as laboratories (stainless steel models)
- Food and pharmaceutical (stainless steel models)
- Powder mixing and batching

### **Optional accessories to provide the best solution for a particular problem include:**

- Extension pivot booms to increase fume arm reach
- Brackets for wall or column mounting
- Up right configuration (for portable units)
- Direct mount exhaust fans
- LED light kit and fan switch (transformer required)
- Upright models for bench mount
- Hood mounted safety mesh
- Vertical floor posts
- Ceiling brackets



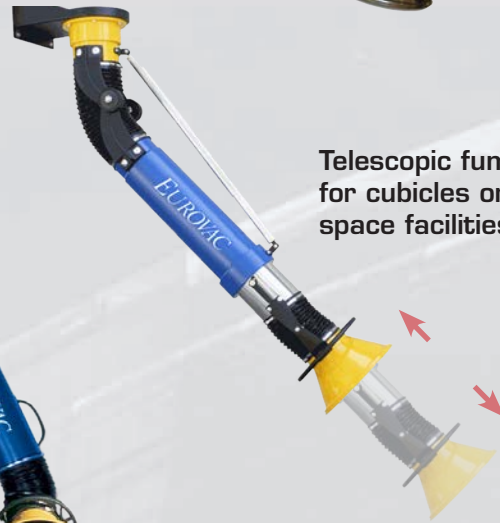
## Typical designs and usage with Eurovac fume arms



Fan selection : 6" diameter fume arm may be fitted with a direct mount 1HP fan and 8" fume arm with direct mount 2HP fan. Mounting flanges to fan are included for this type of installation



Stainless steel fume arms for pharmaceutical and food industries



Telescopic fume arm for cubicles or limited space facilities



Extension pivot swing boom with fume arm for additional horizontal reach



Photos on the right and below show multiple fume arms connected to a central cartridge collector to recycle clean air back in the facility



**Note :** Eurovac reserves the right to modify the equipment without notice in order to improve quality or conception.

## Technical information

Arm model	Diameter	Arm length	Available hood diameter
W0303*	3" / 80mm	3' / 0.8m	6" / 100mm
W0305*	3" / 80mm	5' / 1.5m	6" / 100mm
W0405*	4" / 100mm	5' / 1.5m	8" / 160mm
W0407*	4" / 100mm	7' / 2m	8" / 160mm
W0408*	4" / 100mm	8.5' / 2.5m	8" / 160mm
W0507*	5" / 125mm	7' / 2m	10" / 250mm
W0510*	5" / 125mm	10' / 3m	10" / 250mm
W0514*	5" / 125mm	14' / 4m	10" / 250mm

Arm model	Diameter	Arm length	Available hood diameter
W0607*	6" / 160mm	7' / 2m	12" / 315mm
W0610*	6" / 160mm	10' / 3m	12" / 315mm
W0614*	6" / 160mm	14' / 4m	12" / 315mm
W0807*	8" / 200mm	7' / 2m	14" / 350mm
W0810*	8" / 200mm	10' / 3m	14" / 350mm
W0814*	8" / 200mm	14' / 4m	14" / 350mm

\*Add Prefix P to above model number to specify stand mounted

## Recommended air volume per arm diameter

Arm diameter	CFM	L/S
3" / 80mm	100 / 175	50/80
4" / 100mm	150 / 325	70/150
5" / 125mm	325 / 550	150/260
6" / 160mm	550 / 750	260/350
8" / 200mm	800 / 1250	380/565

\* **Note** : refer to Industrial Ventilation Handbook for exact measures

## Fume arms static pressure loss for average CFM

Arm diameter	CFM /LS	w.g/Pa
3" / 80mm	150/70	0.8"/225
4" / 100mm	250/120	1.5"/375
5" / 125mm	450/210	1"/250
6" / 160mm	650/305	1.25"/325
8" / 200mm	1000/470	2"/500

\* **Note** : S.P. will not vary as per length of arm selected but will increase or decrease if arm is folded or pulled straight out. Figures shown below are averages. Static pressures indicated are for fume arms only and do not include ductwork

## Recommended duct velocities

Arm diameter	FPM	Meter per second
Vapors	1000 / 1200	5/6
Welding smoke	1500 / 2200	7.5/11
Light dusts	2000 / 2500	10/12
Thick smoke	2500 / 3000	12/15
Heavy dust	4000 / 4500	20/23

\* **Note** : refer to Industrial Ventilation Handbook for exact measures

## Recommended arm bracket mounting height and horizontal reach (horizontal reach of fume arm estimated at 45" A.F.F.)

Arm length	Height of bracket installation	Horizontal reach
3' / 0.9M	5.10' / 1.8M	2.6' / 0.7M
5' / 1.5M	6.4' / 1.95M	4' / 1.3M
7' / 2M	7.1' / 2.1M	6.1' / 1.9M
8.5' / 2.5M	8' / 2.45M	7.4' / 2.2M
10' / 3M	9.8' / 2.9M	8.5' / 2.5M
14' / 4.0M	10.5' / 3.3M	11.12' / 3.4M

**Installation note** : refer to local building and electrical codes and requirements prior to installing the equipment.

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