



## Industrial strength in capturing:

- WELDING FUMES
- GRINDING DUSTS
- DRY DUSTS
- SOLDERING DUSTS
- POWDERS

800-635-0298

[Sales@controlledairdesign.com](mailto:Sales@controlledairdesign.com)

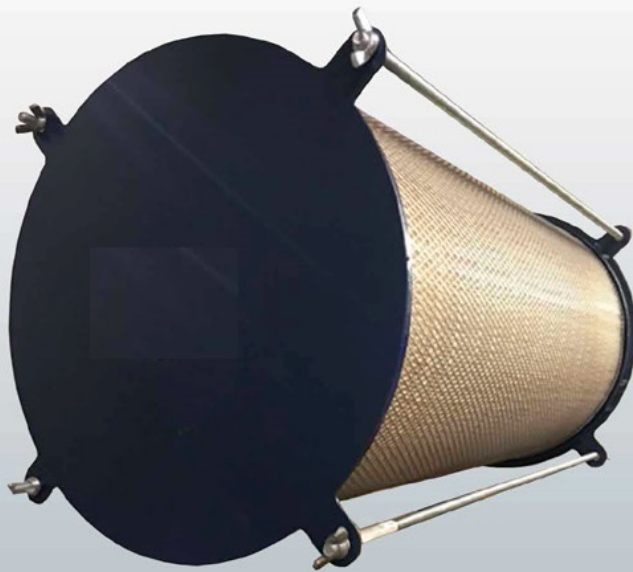
[www.controlledairdesign.com](http://www.controlledairdesign.com)

## Industrial Strength Fume Arm Filtration Unit

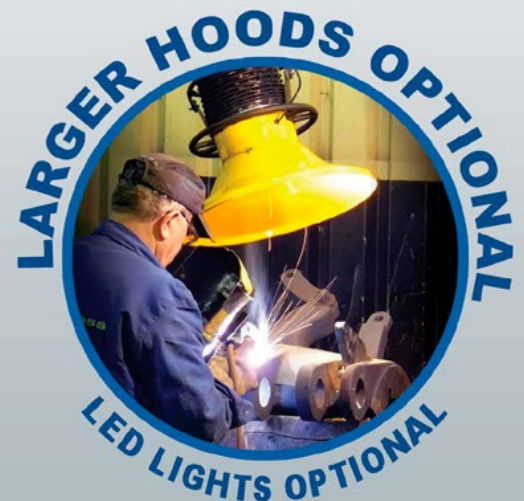


Filtration Unit

Fume Arm Filtration



Filtration Assembly





## Applications:

Welding • Grinding • Polishing • Cutting  
Soldering • Chemical Fumes and many more!

## Features:

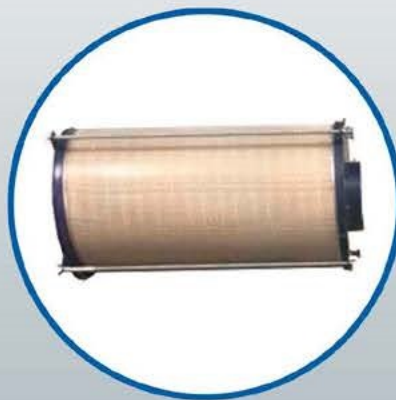
- industrial strength
- versatile design
- smooth tube construction
- external joints and supports
- hood and tube grab handles
- air diverter in the hood
- standard damper
- FR nanofiber filter, Merv 15
- 26" disposable filter

## Benefits:

- easy to install filter system
- user-friendly operation
- higher airflow performance
- easy to adjust and maintain
- simple positioning
- increased capture velocity
- damper with-in the price
- capture at source for cleaner air filtration



All External Joints and Supports



26" High Efficiency Filter  
Merv 15 Rating



Aluminum Impeller  
in Housing



# Industrial Strength Construction:

**1**

## HOOD JOINT

Hood easy to move forward, backward and sideways. All external adjustments. Flexible hose with gear clamps.

**2**

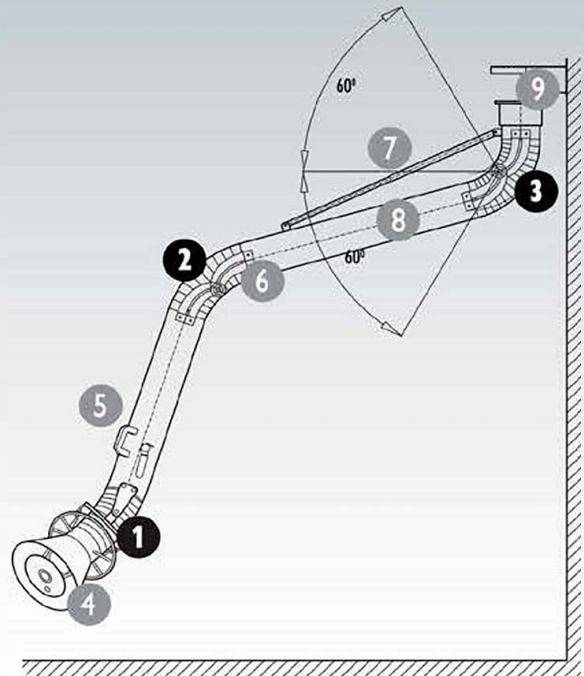
## MIDDLE JOINT

All external adjustments. Flexible hose with gear clamps.

**3**

## SOCKET JOINT

Rotating swivel with safety stop. All external adjustments. Flexible hose with gear clamps.



**4**

Aluminium hood (powder coated) with surrounding grab handle.

**5**

Additional tube grab handle

**6**

Smooth steel tube (powder coated) with standard damper.

**8**

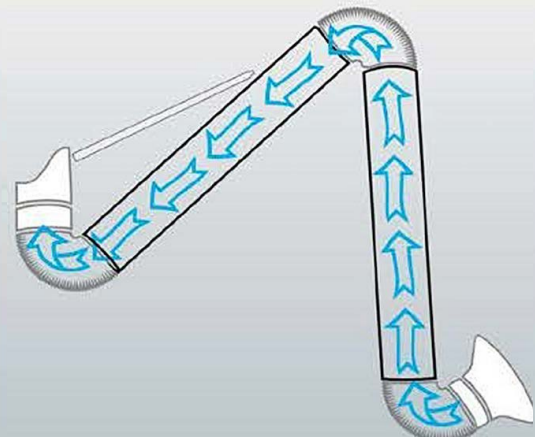
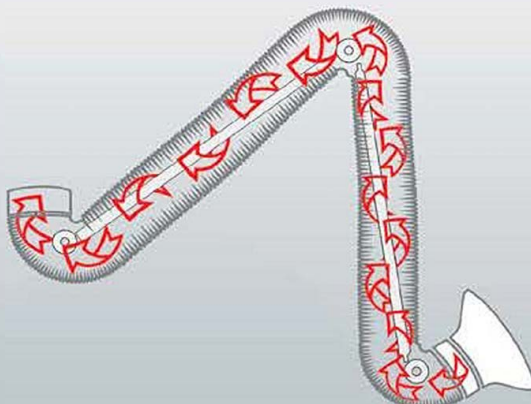
Smooth steel tube (powder coated).

**7**

Support spring or gas shock on the outside on both versions.

**9**

Swivel base with predrilled mounting holes.



- non smooth airflow
- higher static pressure
- hard to clean
- building on joint and components

- smooth airflow
- lower static pressure
- quick cleaning
- minimal build up

## Fume Arm

Arm Part #	Tube Diameter [Inches]	Arm Length [Feet]	Hood Diameter [Inches]	Ductwork Connection [Inches]	Mounting Configuration	Typical Restrictions and Air Flow [Inches wg]	Arm, Bracket, and Hood Weight [lbs]
W02-01-1015	4	5	8	4	Hanging or Standing	4.3 @ 375 cfm	20.9
W02-01-1025	4	8	8	4	Hanging	4.3 @ 375 cfm	24.4
W02-01-1220	5	7	10	5	Hanging or Standing	3.5 @ 550 cfm	43.2
W02-01-1230	5	10	10	5	Hanging	3.5 @ 550 cfm	46.5
W02-01-1620	6	7	12	6	Hanging or Standing	3 @ 800 cfm	57.5
W02-01-1630	6	10	12	6	Hanging or Standing	3 @ 800 cfm	59.7
W02-01-1640	6	14	12	6	Hanging	3 @ 800 cfm	65.2
W02-01-2020	8	7	14	8	Hanging or Standing	2.5 @ 1000 cfm	77.8
W02-01-2030	8	10	14	8	Hanging	2.5 @ 1000 cfm	83.3
W02-01-2040	8	14	14	8	Hanging	2.5 @ 1000 cfm	93.2

\* All hanging arms include wall bracket and galvanized ductwork connection.

\* If ordering Standing Arms, place an "P" behind part #.

### EQUIPMENT OPTIONS

Exhaust Fan

Floor Stanchions

Light Kits

Stainless Steel Arms

Extension Booms

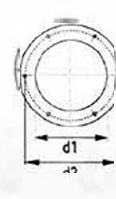
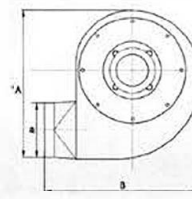
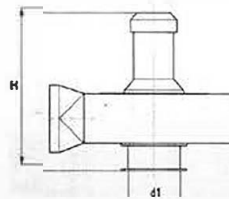
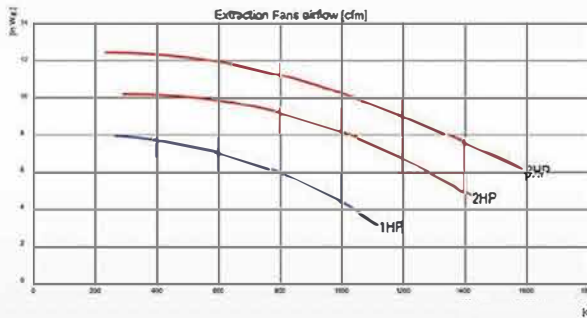
### HOOD OPTIONS

20" diameter hoods for 6" arms

24" diameter hoods for 8" arms

## Fan Technical Data

Part Number	Model Type	inlet Ø [inches]	Nominal capacity [cfm]	Power [kW]	Power supply [V] / [Hz]	Rotation [rpm]	Protection	Noise level [dBA]
102169	1 HP	6	600	0.75	480V/3/60	2780	IP55	77
102173	2 HP	6	1200	1.1	480V/3/60	2760	IP55	79
102178	3 HP	6	1750	2.2	480V/3/60	2800	IP55	80



\* Nominal capacity at 1" wg (cfm)

Part Number	Fits Arm Models	Model Type	A	B	H	d1	a	d2
102169	1015, 1025, 1220, 1230, 1620*	1 HP	20.20"	22.60"	16.81"	6"	6"	7.68"
102173	1620, 1630, 1640	2 HP*	22.72"	25.00"	18.94"	6"	8"	7.68"
102178	2020, 2030, 2040	3 HP	25.63"	27.20"	19.37"	8"	8"	9.69"

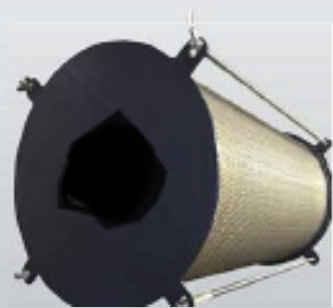
\* 4 inch and 5 inch Bracket Adapter Plate

1015, 1025 needs Part 102004

1220, 1230 needs Part 102005

## Filter Technical Data

Part Number	
N20139-Assembly	Filter Assembly Housing for 1HP or 2HP (Filter included)
N20139:OEM Filter	26" Disposable Filter Unit, Merv15 Fire Retardant, Nanofiber
N20138-Assembly	Filter Assembly Housing for 3HP (Filter included)
N20138:OEM Filter	26" Disposable Filter Unit, Merv15 Fire Retardant, Nanofiber



## Industrial strength in capturing:

- WELDING FUMES
- GRINDING DUSTS
- DRY DUSTS
- SOLDERING DUSTS
- POWDERS

800-635-0298

Sales@controlledairdesign.com

www.controlledairdesign.com

