



# SPECIFICATIONS

## 304SS Fume/Dust Extraction Arm for Industrial Processes

888-372-0050

Sales@IAP-AirProducts.com

www.IAP-AirProducts.com

Date:

Project:

Location:

Eng./Arch/Rep:

## 1 GENERAL

### 1.1 RELATED DOCUMENTS

#### 1.1.1 Fume Arm User's Manual

### 1.2 SELECTION

- 1.2.1 Consult with the factory for the proper extraction arm selection as it relates to the intended use requirements. Selection of the proper arm is based upon what is being extracted, related safety precautions or regulations, capture velocity, corrosion resistance, noise level, temperature resistance, space requirement and operator usability.

### 1.3 SUBMITTALS

- 1.3.1 Product Data: Indicate manufacturer's model number, technical data including description of components, static pressure/air flow chart, performance, accessories, and installation instructions.
- 1.3.2 Closeout Submittals: Operation and Maintenance Manual including spare parts list.



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### 1.4 QUALITY

- 1.4.1 Engage an experienced installer to perform the work of this Section who has completed installations similar in design and extent to that indicated for this Project, and who has a record of successful in-service performance.
- 1.4.2 Engage a firm experienced in manufacturing Extraction Arms similar to that indicated for this Project and with a record of successful in-service performance.
- 1.4.3 Review methods and procedures related to Extraction Arm system installation.
  - *Review access requirements for equipment delivery.*
  - *Review equipment storage and security requirements.*
  - *Inspect condition of preparatory work performed by other trades.*
  - *Review structural loading limitations.*
  - *Review that all components specified in this Section and related components specified in other Sections are accounted for.*

### 1.5 DELIVERY, STORAGE, HANGLING, PRODUCT PRESERVATION

- 1.5.1 Packing, Shipping, Handling and Unloading: Store in original protective packaging and in a dry location.

### 1.6 COORDINATION

- 1.6.1 Coordinate layout and installation with other work, including light fixtures, fixed equipment and workstations, HVAC equipment, fire-suppression system components and equipment of movement such as overhead cranes.
- 1.6.2 Coordinate location and requirements of service-utility connections.

### 1.7 JOB SITE CONDITIONS

- 1.7.1 Existing Conditions: Verify dimensions installation areas by field measurements.



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## 2 PRODUCT

### 2.1 MATERIALS

#### 2.1.1 GENERAL STRUCTURE

- *The IAP Air Products Fume Arm shall be a smooth 304 stainless steel, 26 gauge tube construction with no internal air flow restrictions. The support spring (hanging arms) or gas shock (standing arms) shall be externally mounted. The hood shall be 304 stainless steel with an integrated air diverter inside the hood, an internal damper and surrounding grab handle which is anodized cast aluminum. The fume arm shall have external joints and adjustment points with friction discs for smooth operational movements. The elbow joints shall be anodized cast aluminum, connected with a clear polyurethane antistatic FDA flexible hose with a temperature rating of 200 degrees F, and stainless-steel worm clamps. The rotating base shall be anodized aluminum construction, with 350-degree swivel capabilities with predrilled mounting holes to the wall bracket. The wall bracket shall be a heavy-duty stainless-steel construction, with (4) ½" holes predrilled for wall or column mounting.*

#### 2.1.2 FLEXIBLE HOSE

- *The clear external flexible hose is made of polyurethane. The hose is antistatic FDA flexible hose with a temperature rating of 200 degrees F. The tube diameter is listed in the table in section 3.8.*

#### 2.1.3 HOOD

- *The articulating arm shall, as a standard component, incorporate a capture hood. The hood incorporates grab handles to permit easy mobility and an integrated air diverter. The hood is 304 stainless steel.*



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### 2.1.4 FRICTION JOINTS

- *The external joints and adjustment points shall incorporate friction discs and be adjustable for tension. Friction discs are made of asbestos free brake lining material. The friction joints can be adjusted to suit the user's needs.*

### 2.1.5 MOUNTING BRACKET

- *A wall mounting bracket is included with each articulating arm. The wall bracket is 304 stainless steel and predrilled to match the bolt pattern of the arm.*

### 2.1.6 GROUNDING CONNECTIONS

- *Each fume arm has 6 pre-installed ground connection points, so grounding can be subsequently added if needed in a particular application.*

## 2.2 MANUFACTURER

- 2.2.1 Products which comply with this specification as judged by the Architect/Engineer may be provided by the following manufacturers. All products specified in this section shall be provided by a single manufacturer.

IAP-AirProducts  
580 Technology Drive,  
Sparta, TN 38583  
Phone: 888-372-0050

Approved Equal.



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### 3 EXECUTION

#### 3.1 EXAMINATION

- 3.1.1 Examine areas and conditions, with Installer present, for compliance with requirements for installation tolerances, service-utility connections, and other conditions affecting installation and performance of equipment. Do not proceed with installation until unsatisfactory conditions have been corrected.

#### 3.2 PREPARATION

- 3.2.1 Provide surface/substrate preparation as required by the manufacturer's printed installation instructions. Do not proceed with installation until the site is in proper condition to receive extraction arm installation.

#### 3.3 INSTALLATION

- 3.3.1 Install extraction arms and brackets in accord with manufacturer's written instructions, original design and referenced standards.
- 3.3.2 The contractor shall ensure the field supplied supplemental wall blocking that will support the weight of the arm is pre-installed before fume arm installation.

#### 3.4 ADJUSTING

- 3.4.1 Adjust extraction arms for proper operation. Replace any parts that prevent the system from operating properly.

#### 3.5 CLEANING

- 3.5.1 Remove all debris caused by installation of the extraction arms. Clean all exposed surfaces.



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### 3.6 PROTECTION

3.6.1 Provide protection of the completed installation until completion of the project.

### 3.7 MANUFACTURER WARRANTY

3.7.1 Provide a written warranty for a period of one year from the date of shipment for all components.

### 3.8 REFERENCE TABLE

Arm Part #	Tube Diameter [inches]	Arm Length [Feet]	Hood Diameter [inches]	Mounting Configuration	CFM Range [cfm]	Arm, Bracket and Hood Weight [lbs]
FA-0303-H-SS or FA-0303-S-SS	3"	3'	10"	Hanging or Standing	150 - 300	24
FA-0305-H-SS or FA-0305-S-SS	3"	5'	10"	Hanging or Standing	150 - 300	26
FA-0405-H-SS or FA-0405-S-SS	4"	5'	10"	Hanging or Standing	300 - 600	27
FA-0408-H-SS	4"	8'	10"	Hanging	300 - 600	30
FA-0507-H-SS or FA-0507-S-SS	5"	7'	10"	Hanging or Standing	450 - 750	49
FA-0510-H-SS	5"	10'	10"	Hanging	450 - 750	53
FA-0607-H-SS or FA-0607-S-SS	6"	7'	13"	Hanging or Standing	600 - 1200	59
FA-0610-H-SS	6"	10'	13"	Hanging	600 - 1200	66
FA-0614-H-SS	6"	14'	13"	Hanging	600 - 1200	74
FA-0807-H-SS or FA-0807-S-SS	8"	7'	13"	Hanging or Standing	950 - 1800	85
FA-0810-H-SS	8"	10'	13"	Hanging	950 - 1800	86
FA-0814-H-SS	8"	14'	13"	Hanging	950 - 1800	99