

Purair DUCTED PLUS Sliding Sash Ducted Fume Hoods

Exhausts harmful fumes and particulates away from the operator's breathing zone when connected to an inhouse vent system.



AS-HAS-180-CA-A



Operator



Particulate



Vapor



3 ft.

4 ft.

5 ft.

6 ft.



CONTENTS:

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PurairDUCTED^{PLUS}

Sliding Sash Ducted Fume Hoods

3 ft. • 4 ft. • 5 ft. • 6 ft

PRODUCT OVERVIEW

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INTRODUCTION

Air Science® Purair DUCTED PLUS sliding sash ducted fume hoods are engineered to deliver dependable operator protection in laboratory settings. Designed for fixed installation and direct connection to a facility's exhaust system, it provides a controlled negative pressure environment that safely removes hazardous fumes, vapors, and particulates from the breathing zone.

APPLICATIONS

Forensics \ Educational \ Microscopy \
Pharmaceutical \ Powder Weighing \ Sample Prep
Work \ Veterinary \ Dental

KEY FEATURES

- Aerodynamic Sash Handle.
- Flip-down Cover
- Protects the operator from fume hazards.

AIRFLOW

Unlike a ductless fume hood, the Purair DUCTED PLUS sliding sash ducted fume hood is installed in a fixed location and hard connected to the facility exhaust system to create a negative pressure work surface. Hazardous fumes and vapors generated on the work surface are exhausted to the outside. Air intake face velocity can be adjusted to provide the desired balance between conditioned room air conservation and the necessary volume of exhausted contaminated air.



AS-HAS-150-CA-A

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DESIGN FEATURES

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AS-HAS-120-CA-A

DESIGN FEATURES

- A. Flip-Down Cover:** Easy maintenance & light tube replacement.
- B. Membrane Control Panel:** An optional analog air velocity meter is positioned in the user's field of vision.
- C. Aerodynamic Sash Handle:** The aerodynamic sash handle shape allows to optimize airflow, increasing ventilation efficiency as well as decreases airflow turbulences.
- D. Electrical Outlets with Splash-Proof Cover:** Designed with protective covers to guard against water splashes, moisture, and debris
- E. Maintenance Board Inside:** Can be removed inside for gas cock installation and maintenance.

ADDITIONAL FEATURES

Lining Material Options: Available in phenolic resin or stainless steel #304

! IMPORTANT NOTE: Ducting / fan not included with unit. End user is responsible for meeting exhaust ventilation regulations before venting fumes and should defer to the appropriate agency or agencies (federal, state, local) and / or contact a certified industrial hygienist or qualified safety professional to verify application suitability with this product.

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PERFORMANCE & SELECTION

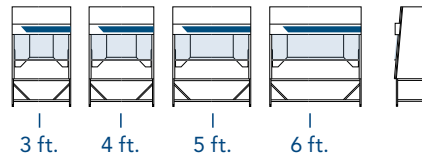
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PERFORMANCE

The Purair DUCTED PLUS fume hood is designed to maximize laboratory safety and efficiency. It effectively removes hazardous gases, chemical vapors, and dust to protect personnel, maintain clean air, and reduce the risk of chemical reactions. By providing a stable ventilation environment, it also helps ensure more accurate and reliable experimental results.

DESIGN

Engineered for both safety and usability, Purair DUCTED PLUS fume hood features adjustable airflow and a controlled negative pressure work surface. Its sliding sash design allows easy access while maintaining containment, and its fixed, ducted installation ensures consistent removal of contaminants directly to the facility exhaust system.



SELECTION

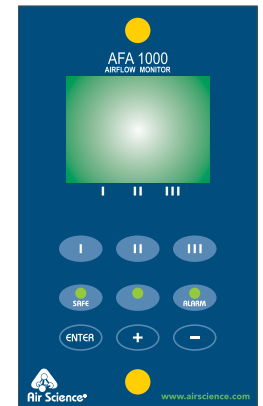
Purair DUCTED PLUS sliding sash ducted fume hoods are available in 4 standard sizes.

CONTROL

Purair DUCTED PLUS sliding sash ducted fume hood models are equipped with membrane-style switches.



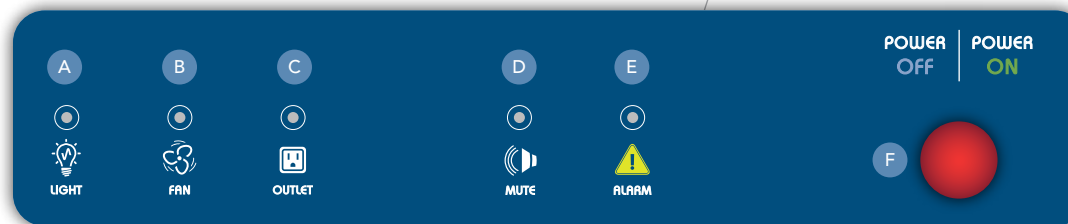
AFA-500 Low Airflow Alarm



AFA-1000 Advanced Airflow Display and Low Airflow Alarm



Standard Membrane Control Panel



- A. Light ON/OFF
- B. Blower ON/OFF
- C. Outlet ON/OFF
- D. Mute switch
- E. Motor overloading alarm
- F. Emergency stop

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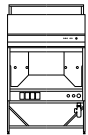
3 ft. • 4 ft. • 5 ft. • 6 ft
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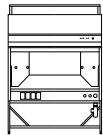
AS-HAS-90



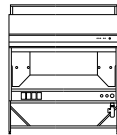
AS-HAS-120



AS-HAS-150



AS-HAS-180



MODEL	LINING MATERIAL	VOLTAGE	LIGHT	OUTLET	DIMENSIONS			WEIGHT (LBS/KG)	
					Internal (W × D × H)	External (W × D × H)	Shipping (W × D × H)	Net	Ship

Purair DUCTED PLUS Models

3 ft. AS-HAS-90-CA-A	Phenolic resin	1Φ230V 1Φ115V	T5 21W × 2	115V × 4	31.2" × 24" × 46.6" 795 × 610 × 1184 mm	35.6" × 30.8" × 89.9" 904 × 782 × 2284 mm	43.3" × 33.5" × 76.8" 1100 × 850 × 1950 mm	359 (163)	419 (190)
3 ft. AS-HAS-90-CA-B	Stainless Steel #304								
3 ft. AS-HAS-90-CB-A	Phenolic resin	1Φ230V	T5 21W × 2	230V × 4	31.2" × 24" × 46.6" 795 × 610 × 1184 mm	35.6" × 30.8" × 89.9" 904 × 782 × 2284 mm	43.3" × 33.5" × 76.8" 1100 × 850 × 1950 mm	359 (163)	419 (190)
3 ft. AS-HAS-90-CB-B	Stainless Steel #304								
4 ft. AS-HAS-120-CA-A	Phenolic resin	1Φ230V 1Φ115V	T5 21W × 2	115V × 4	43.1" × 24" × 46.6" 1095 × 610 × 1184 mm	47.4" × 30.8" × 89.9" 1204 × 782 × 2284 mm	55.1" × 33.5" × 76.8" 1400 × 850 × 1950 mm	423 (192)	500 (227)
4 ft. AS-HAS-120-CA-B	Stainless Steel #304								
4 ft. AS-HAS-120-CB-A	Phenolic resin	1Φ230V	T5 21W × 2	230V × 4	43.1" × 24" × 46.6" 1095 × 610 × 1184 mm	47.4" × 30.8" × 89.9" 1204 × 782 × 2284 mm	55.1" × 33.5" × 76.8" 1400 × 850 × 1950 mm	423 (192)	500 (227)
4 ft. AS-HAS-120-CB-B	Stainless Steel #304								
5 ft. AS-HAS-150-CA-A	Phenolic resin	1Φ230V 1Φ115V	T5 28W × 2	115V × 4	54.9" × 24" × 46.6" 1395 × 610 × 1184 mm	59.2126" × 30.8" × 89.9" 1504 × 782 × 2284 mm	66.9" × 33.5" × 76.8" 1700 × 850 × 1950 mm	487 (221)	573 (260)
5 ft. AS-HAS-150-CA-B	Stainless Steel #304								
5 ft. AS-HAS-150-CB-A	Phenolic resin	1Φ230V	T5 28W × 2	230V × 4	54.9" × 24" × 46.6" 1395 × 610 × 1184 mm	59.2126" × 30.8" × 89.9" 1504 × 782 × 2284 mm	66.9" × 33.5" × 76.8" 1700 × 850 × 1950 mm	487 (221)	573 (260)
5 ft. AS-HAS-150-CB-B	Stainless Steel #304								
6 ft. AS-HAS-180-CA-A	Phenolic resin	1Φ230V 1Φ115V	T5 36W × 2	115V × 4	67" × 24" × 46.6" 1695 × 610 × 1184 mm	71" × 30.8" × 89.9" 1804 × 782 × 2284 mm	78.7" × 33.5" × 76.8" 2000 × 850 × 1950 mm	549 (249)	644 (292)
6 ft. AS-HAS-180-CA-B	Stainless Steel #304								
6 ft. AS-HAS-180-CB-A	Phenolic resin	1Φ230V	T5 36W × 2	230V × 4	67" × 24" × 46.6" 1695 × 610 × 1184 mm	71" × 30.8" × 89.9" 1804 × 782 × 2284 mm	78.7" × 33.5" × 76.8" 2000 × 850 × 1950 mm	549 (249)	644 (292)
6 ft. AS-HAS-180-CB-B	Stainless Steel #304								

Exhaust Volume Requirements

for Inflow Rate of 0.5 m/s (100 fpm)

	HAS-090	HAS-120	HAS-150	HAS-180
Sash Half Open (350 mm)	8.35 CMM / 294 CFM	11.50 CMM / 405 CFM	15.07 CMM / 531 CFM	17.80 CMM / 627 CFM
Sash Fully Open (700 mm)	16.70 CMM / 588 CFM	23.00 CMM / 810 CFM	30.14 CMM / 1062 CFM	35.60 CMM / 1255 CFM

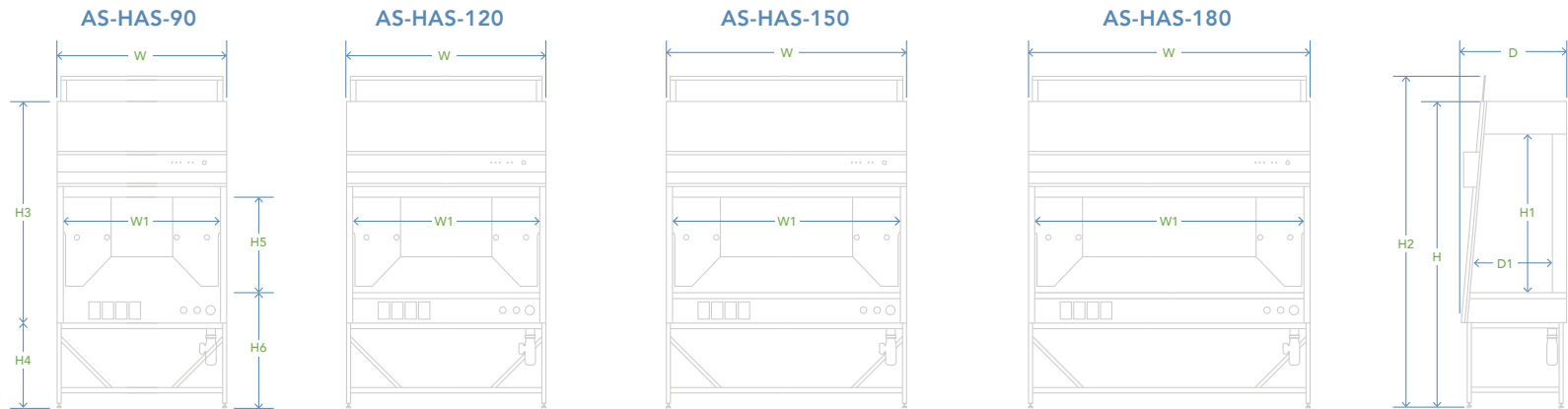
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DETAILED DIMENSIONS

	Internal Height (H1)	Max Height (H2)	Upper Part Height (H3)	Stand Height (H4)	Sash Opening Height (H5)	Worktop Height (H6)
Purair DUCTED PLUS Models						
3 ft. AS-HAS-90-CA-A	46.4"	97.3"	65.1"	24.8"	28.3"	33"
3 ft. AS-HAS-90-CB-A	1179 mm	2471 mm	1654 mm	630 mm	720 mm	838 mm
3 ft. AS-HAS-90-CA-B	46.4"	97.3"	65.1"	24.8"	27.8"	33.5"
3 ft. AS-HAS-90-CB-B	1179 mm	2471 mm	1654 mm	630 mm	705 mm	851 mm
4 ft. AS-HAS-120-CA-A	46.4"	97.3"	65.1"	24.8"	28.3"	33"
4 ft. AS-HAS-120-CB-A	1179 mm	2471 mm	1654 mm	630 mm	720 mm	838 mm
4 ft. AS-HAS-120-CA-B	46.4"	97.3"	65.1"	24.8"	27.8"	33.5"
4 ft. AS-HAS-120-CB-B	1179 mm	2471 mm	1654 mm	630 mm	705 mm	851 mm
5 ft. AS-HAS-150-CA-A	46.4"	97.3"	65.1"	24.8"	28.3"	33"
5 ft. AS-HAS-150-CB-A	1179 mm	2471 mm	1654 mm	630 mm	720 mm	838 mm
5 ft. AS-HAS-150-CA-B	46.4"	97.3"	65.1"	24.8"	27.8"	33.5"
5 ft. AS-HAS-150-CB-B	1179 mm	2471 mm	1654 mm	630 mm	705 mm	851 mm
6 ft. AS-HAS-180-CA-A	46.4"	97.3"	65.1"	24.8"	28.3"	33"
6 ft. AS-HAS-180-CB-A	1179 mm	2471 mm	1654 mm	630 mm	720 mm	838 mm
6 ft. AS-HAS-180-CA-B	46.4"	97.3"	65.1"	24.8"	27.8"	33.5"
6 ft. AS-HAS-180-CB-B	1179 mm	2471 mm	1654 mm	630 mm	705 mm	851 mm

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OPTIONS & ACCESSORIES

OPTIONS & ACCESSORIES

Purair DUCTED PLUS Models	Description	AS-HAS-90-CA-A	AS-HAS-120-CA-A	AS-HAS-150-CA-A	AS-HAS-180-CA-A
		AS-HAS-90-CA-B	AS-HAS-120-CA-B	AS-HAS-150-CA-B	AS-HAS-180-CA-B
		AS-HAS-90-CB-A	AS-HAS-120-CB-A	AS-HAS-150-CB-A	AS-HAS-180-CB-A
		AS-HAS-90-CB-B	AS-HAS-120-CB-B	AS-HAS-150-CB-B	AS-HAS-180-CB-B
Metal Cupboard: Single Door/Left Hand	21.9" × 20.7" × 22.4" 555 × 525 × 570 mm	-	CML-555-AA-A	-	-
Metal Cupboard: Single Door/Right Hand	21.9" × 20.7" × 22.4" 555 × 525 × 570 mm	-	CMR-555-AA-A	-	-
Metal Cupboard: Double Door	27.8" × 20.7" × 22.4" 705 × 525 × 570 mm	-	-	CMD-705-AA-A	-
Metal Cupboard: Double Door	33.7" × 20.7" × 22.4" 855 × 525 × 570 mm	-	-	-	CMD-855-AA-A
Advanced Airflow Display and Low Airflow Alarm	Airflow display and and visual alerts when airflow drops below a safe level	AFA-1000	AFA-1000	AFA-1000	AFA-1000
Low Airflow Alarm	Provides audible and visual alerts when airflow drops below a safe level	AFA-500	AFA-500	AFA-500	AFA-500

Safety cabinets are also available for cupboard option.



AS-HAS-150-CA-A with double door metal cupboard



AS-HAS-180-CA-A with safety cabinet

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OPTIONS & ACCESSORIES

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WARRANTY

This product is protected by the Air Science Legacy Limited Lifetime Warranty™.



For details visit the [Warranty section](#) of our website.

STANDARDS & COMPLIANCE

Quality Management Systems	ISO 9001 : 2015
OSHA, Occupational Safety and Health Administration	OSHA Standard -29 CFR, Safety and Health Regulations for General Industry, 1910.1450: Occupational exposure to hazardous chemicals in laboratories. Part B, definition, laboratory type hood. This product may assist you with compliance or as part of your chemical hygiene plan. Please consult your Safety Officer and/or Industrial Hygienist.
Environment	ISO 14001:2015 ENERGY STAR® Partner



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