

Suggested Purchase Specification for a Table Horizontal Clean Flow Bench NU-201

The intent herein is to provide a concise statement of requirements for a premium quality Horizontal Flow Clean Bench, which may be used to augment your purchase request/order.

NuAire products utilize the proprietary HEPEX disposable inner pressure plenum, which eliminates the biggest problem in Laminar Airflow Equipment today - that of leakage through the HEPA Filter Seal. In fact, the Sandia Corporation, who invented the Clean Bench, recommends that any bench utilizing the sponge rubber gasket seal needs to be thoroughly checked for seal leakage if the cabinet "has been moved more than 3 feet". Experience with our HEPEX design has clearly demonstrated our capability to ship coast to coast and retain Federal Standard 209b Class 100 all the way (see bulletin on HEPEX Absolute Filter System).

NuAire cabinets provide smooth, uniform airflow, free from turbulence. True minimum air turbulence is achieved by having the work zone enclosure become an extension of the actual flow area of the HEPA filter. Thus, the uniform velocity, clean-filtered air flows outward like a huge piston in streamlines.

NuAire Clean Benches utilize transparent side panels to encompass a clean work zone. The panels provide good side visibility, effectively eliminating any feel of claustrophobia and allows viewing by other personnel.

NuAire Sales Representatives will be pleased to explain the importance of the performance and control affected by each of the following requirements.

Specification for Horizontal Flow, Table Model Clean Bench

1. Horizontal Flow Table Clean Bench must employ the HEPEX, Absolute Air Filter System.
2. The HEPEX pressure plenum shall be disposable and fabricated of flameproof, antibacterial materials accepted by recognized authoritative agencies, such as the New York City Board of Standards and Appeals (Calendar No. 207-64-SM), California State Fire Marshall (FI-222), U.S. Coast Guard, U.S. Dept. of Commerce, and other regulatory authorities.
3. The HEPEX System shall be 99.99% efficient on removal of all aerosol particulate contaminants 0.3 microns and larger and shall meet or exceed the requirements of Federal Standard 209b for Class 100 air quality.
4. The Horizontal Flow Clean Bench shall contain fluorescent lamps hidden from direct operator view that will provide a lighting intensity of 200 foot candles on the work surface.
5. The Horizontal Flow Clean Bench shall contain an Instrument Panel providing:
 - a. On/Off Switch for Motor/Blower
 - b. On/Off Switch for Fluorescent Lights
 - c. Speed Control for Blower (recessed to prevent tampering)
6. The Horizontal Flow Clean Bench shall be transportable through a 34-inch wide standard door and shall be completely serviceable from the front of the unit.
7. Cabinet finish shall be textured, baked white enamel for easy cleaning; work surface shall be white, high impact melamine plastic (or stainless steel as purchasable option).
8. The Horizontal Flow Clean Bench shall be so designed that field maintenance can be accomplished by replacement of a module incorporated with quick-disconnects.
9. Cabinet workzone shall be enclosed with Plexiglass hood.

3.0 Models and Features

NuAire's Model Number NU-201 designates the basic design series of Horizontal Laminar Flow Clean Work Bench with the blower/motor located above the work surface (i.e. bench series). Model numbers are determined by filter size as shown below.

3.1 Standard Sizes

<u>Model Number</u>	<u>Filter Size</u>	<u>Cabinet Width Inches (mm)</u>	<u>Cabinet Height Inches (mm)</u>
NU-201-224	24" x 24"	26" (660)	46" (1168)
NU-201-230/(E)	24" x 30"	26" (660)	52" (1321)
NU-201-324	36" x 24"	38"(965)	46" (1168)
NU-201-330/(E)	36" x 30"	38" (965)	52" (1321)
NU-201-336	36" x 36"	38" (965)	58" (1473)
NU-201-424	48" x 24"	50" (1270)	46" (1168)
NU-201-430/(E)	48" x 30"	50" (1270)	52" (1321)
NU-201-436	48" x 36"	50" (1270)	58" (1473)
NU-201-524	60" x 24"	62" (1575)	46" (1168)
NU-201-530/(E)	60" x 30"	62" (1575)	52" (1321)
NU-201-536	60" x 36"	62" (1575)	58"(1473)
NU-201-624	72" x 24"	74" (1880)	46" (1168)
NU-201-630/(E)	72" x 30"	74" (1880)	52" (1321)

3.2 Standard Features

HEPEX Zero-Leak Airflow System
Clear Lucite Hood
Textured White Baked Urethane Finish
99.99% Efficiency HEPA Filters (on 0.3 micron particles)
Front Maintenance
Fluorescent Lighting
Protective Filter Grill
Fiberglass Disposable Pre-filter
Instrument Panel
Minihelic Gauge (0-2" w.g.) or (0-50mm w.g.)

3.3 Optional Features

IV Bar with 6 Hooks
Stainless Steel Work Surface
Stainless Steel Side and Top Panels
Gas/Vacuum/Air Service Valves
Duplex Outlet
Ground Fault Circuit Interrupter
Ultraviolet Light
Anti-Static Work Surface
Vinyl Curtain (front closure)
Base Stand - 30" or 36" Work Surface
Kit for Multiple Unit Assembly
Pull-Out Plastic Storage Trays

NU-201 HORIZONTAL LAMINAR FLOW BENCH

	CATALOGUE NUMBER														
	NU-201-224	NU-201-224	NU-201-230	NU-201-324	NU-201-330	NU-201-336	NU-201-424	NU-201-430	NU-201-436	NU-201-524	NU-201-530	NU-201-536	NU-201-624	NU-201-630	NU-201-636
FEDERAL STD 209b	CLASS 100	CLASS 100	CLASS 100	CLASS 100	CLASS 100	CLASS 100	CLASS 100	CLASS 100	CLASS 100	CLASS 100	CLASS 100	CLASS 100	CLASS 100	CLASS 100	CLASS 100
CABINET TYPE	TABLE/CONSOLE	TABLE/CONSOLE	TABLE/CONSOLE	TABLE/CONSOLE	TABLE/CONSOLE	TABLE/CONSOLE	TABLE/CONSOLE	TABLE/CONSOLE	TABLE/CONSOLE	TABLE/CONSOLE	TABLE/CONSOLE	TABLE/CONSOLE	TABLE/CONSOLE	TABLE/CONSOLE	TABLE/CONSOLE
DIFFUSER FOR AIR SUPPLY (METAL)	NON-FLAMMABLE	NON-FLAMMABLE	NON-FLAMMABLE	NON-FLAMMABLE	NON-FLAMMABLE	NON-FLAMMABLE	NON-FLAMMABLE	NON-FLAMMABLE	NON-FLAMMABLE	NON-FLAMMABLE	NON-FLAMMABLE	NON-FLAMMABLE	NON-FLAMMABLE	NON-FLAMMABLE	NON-FLAMMABLE
HEPA SEAL TYPE:	HEPEX	HEPEX	HEPEX	HEPEX	HEPEX	HEPEX	HEPEX	HEPEX	HEPEX	HEPEX	HEPEX	HEPEX	HEPEX	HEPEX	HEPEX
OPTIONAL SERVICES:															
GAS COCK (3/8 NPT)	UP TO 3 EA WALL	UP TO 3 EA WALL	UP TO 3 EA WALL	UP TO 3 EA WALL	UP TO 3 EA WALL	UP TO 3 EA WALL	UP TO 3 EA WALL	UP TO 3 EA WALL	UP TO 3 EA WALL	UP TO 3 EA WALL	UP TO 3 EA WALL	UP TO 3 EA WALL	UP TO 3 EA WALL	UP TO 3 EA WALL	UP TO 3 EA WALL
DUPLEX	ONE RIGHT/ONE LEFT	ONE RIGHT/ONE LEFT	ONE RIGHT/ONE LEFT	ONE RIGHT/ONE LEFT	ONE RIGHT/ONE LEFT	ONE RIGHT/ONE LEFT	ONE RIGHT/ONE LEFT	ONE RIGHT/ONE LEFT	ONE RIGHT/ONE LEFT	ONE RIGHT/ONE LEFT	ONE RIGHT/ONE LEFT	ONE RIGHT/ONE LEFT	ONE RIGHT/ONE LEFT	ONE RIGHT/ONE LEFT	ONE RIGHT/ONE LEFT
U.V.	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
CABINET SIZE:															
HEIGHT (ASSEMBLED)	46"	46"	52"	52"	58"	58"	46"	52"	58"	46"	52"	58"	46"	52"	58"
MINIMUM FOR TRANSPORT															
MINIMUM WIDTH	26"	26"	38"	38"	38"	38"	50"	50"	50"	62"	62"	62"	74"	74"	74"
MINIMUM DEPTH	32"	32"	32"	32"	32"	32"	32"	32"	32"	32"	32"	32"	32"	32"	32"
AIR FLOW VELOCITY															
F.P.M.	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
C.F.M.	360	450	675	810	810	900	1080	1080	1080	1125	1350	1350	1080	1350	1620
WORK ZONE:															
HEIGHT	22-3/8"	22-3/8"	28-3/8"	28-3/8"	34-3/8"	34-3/8"	22-3/8"	28-3/8"	34-3/8"	28-3/8"	34-3/8"	34-3/8"	22-3/8"	28-3/8"	34-3/8"
WIDTH	23-3/4"	23-3/4"	34-3/4"	34-3/4"	34-3/4"	34-3/4"	46-3/4"	46-3/4"	46-3/4"	58-3/4"	58-3/4"	58-3/4"	70-3/4"	70-3/4"	70-3/4"
DEPTH	20"	20"	20"	20"	20"	20"	20"	20"	20"	20"	20"	20"	20"	20"	20"
INSTALLATION DRAWINGS	BCD-01505	BCD-01505	BCD-01407	BCD-01407	BCD-01407	BCD-01407	BCD-01407	BCD-01407	BCD-01407	BCD-01407	BCD-01407	BCD-01407	BCD-01407	BCD-01407	BCD-01407
HEAT REJECTED BTU/MIN	18	18	24	24	24	24	24	24	24	24	24	24	35	35	35
ELECTRICAL:															
VOLTAGE (60HZ)	115 VAC	115 VAC	115 VAC	115 VAC	115 VAC	115 VAC	115 VAC	115 VAC	115 VAC	115 VAC	115 VAC	115 VAC	115 VAC	115 VAC	115 VAC
DUPLEX	8 AMP	8 AMP	8 AMP	8 AMP	8 AMP	8 AMP	8 AMP	8 AMP	8 AMP	8 AMP	8 AMP	8 AMP	8 AMP	8 AMP	8 AMP
POWER CORD (1)	12FT, 14GA	12FT, 14GA	12FT, 14GA	12FT, 14GA	12FT, 14GA	12FT, 14GA	12FT, 14GA	12FT, 14GA	12FT, 14GA	12FT, 14GA	12FT, 14GA	12FT, 14GA	12FT, 14GA	12FT, 14GA	12FT, 14GA
CRATED SHIPPING WEIGHT (LBS)	175	175	200	200	200	200	250	250	250	300	300	300	350	350	350