PURCHASE SPECIFICATIONS FOR
NUAIRE PHARMAGARD™ NU-NTE800
NEGATIVE PRESSURE TOTAL EXHAUST STERILE ISOLATOR

The intent herein is to provide a concise statement of requirements for a quality negative Sterile Products Compounding Isolator, which may be used to augment your purchase request/order.

The NU-NTE800 meets the barrier isolator requirements of the USP 800, Pharmaceutical Compounding Sterile Preparations. The NU-NTE800 also meets NIOSH and ASHP guidelines for hazardous drug preparations.

NuAire sales representatives will be pleased to explain the importance of the performance and control affected by each of the following requirements. The NuAire NU-NTE800 meets all of the requirements in the following SPECIFICATION.

1. Dimensions Inches (mm)

Overall Dimensions	**NU-NTE800-400**	**NU-NTE800-600**
Width (W)	50 (1270)	74 (1880)
Depth (D)	32-1/2 (825)	32-1/2 (825)
Height (H)	59-1/2 (1511)	59-1/2 (1511)
(with optional basestand at 46”gloveport height)	92-1/2 (2350)	92-1/2 (2350)
Workzone Interior Dimensions		
Width (W)	35-1/4 (895)	59-1/4 (1505)
Depth (D) (center of glove port)	23-1/4 (584)	23-1/4 (591)
Height (H)	27-3/8 (695)	27-3/8 (695)
Interchange Interior Dimensions		
Width (W)	14-1/8 (359)	14-1/8 (359)
Depth (D) (at worksurface)	24 (610)	24 (610)
Height (H)	27-3/8 (695)	27-3/8 (695)

2.* Cabinet shall provide performance as specified.
   a. Cabinet shall maintain a negative pressure with in workzone and slightly more negative pressure in the interchange to assure preparation transfer containment and sterility.
   b. Cabinet shall provide better than ISO Class 5 (Federal Standard 209E Class 100) within workzone and interchange.
   c. Supply HEPA filter shall be the full length of the cabinet workzone providing better than ISO Class 5 laminar downflow designed to eliminate cross contamination on the worksurface.
   d. Supply HEPA filter shall be protected by perforated metal diffusers covering the entire top of both workzone and interchange.

NuAire, Inc. | 2100 Fernbrook Lane | Plymouth, MN 55447 | U.S.A | ph: 763.553.1270 | fx: 763.553.0459 | tf: 800.328.3352 | www.nuaire.com

3.* The cabinet shall be ergonomically designed for maximum user comfort and process efficiency.
    a. Cabinet shall have a centrally located instrument panel within the control center that is easily serviced with quick disconnects.
    b. Cabinet shall have the capability of incorporating a user adjustable base stand as an option.
    c. Cabinet shall have a hinged lockable window slanted 10° from vertical for optimal work with glove ports.
    d. The hinged lockable window shall allow full access to entire workzone and interchange.
    e. Cabinet shall have (2) independent work trays for workzone and interchange being removable with coved corners for easy cleaning.
    f. Cabinet shall have large exterior hinged transfer door 9-1/4" x 18" (235 x 457mm) minimum for efficient product movement in and out of the transfer chamber.
    g. Cabinet shall have large interior sliding door 8-1/2" x 18-1/2" (216 x 470mm) minimum for efficient product movement in and out of the workzone.

4.* The cabinet shall have all filter positive pressure plenums surrounded by a vacuum relative to the room.

5. Electrical power shall be supplied with a 12-foot (2.5m), 3-wire cord with hospital grade plug. Electrical supply should be 115VAC, 60Hz protected with thermal circuit breaker from distribution panel.

6. The cabinet shall use a DC EC Impeller optimally determined for each model size/width to maximize both energy efficiency and filter loading capacity.

7.* The cabinet shall have two internal electrical circuits; one for blower/lights and one for the hospital grade duplex outlet. Each circuit shall be protected with a fuse located in the Control Center.

8. The cabinet shall be listed by Underwriters Laboratories to meet the requirements of both the U.S. and Canada for electrical/mechanical integrity.

9.* Cabinet shall contain a FlowGard™ control system consisting of electronic modules that will perform the following functions:
    - Easy user interface via OLED (Organic Light Emitting Diode) display/function keys.
    - Language selectable user interface menu's (English, Spanish, German, French, Chinese, Japanese)
    - Control blower via solid state switch.
    - Control lights via solid state switch.
    - Control outlets via solid state switch.
    - Disable audible alarm switch with ring back function.
    - Control blower DC EC motor with solid-state DC Motor Controller that provides automatic compensation (constant volume control) for line voltage variances.

10.* Cabinet shall contain the FlowGard™ control system that provides the following optional functional features (included with cabinet, but must be configured during certification):
    - Security password protection of cabinet use.
    - Cabinet usage displays filter life, blower hours and UV light hours.
    - Cabinet usage sync functions with blower, fluorescent light, outlets and accessory outlet.
    - Cabinet usage auto duration timers, fluorescent light, UV light and outlets.

11. The cabinet shall contain the Pharmagard™ digital monitor with exhaust interlock system that prevents workzone and interchange to be positively pressured.

12. The cabinet shall be easily transportable through a standard 36-inch (914mm) wide door without disassembly.

13. Fluorescent lighting shall be externally mounted and provide a minimum of 40 (430) foot-candles (LUX) on work surface. The ballast is to be electronic containing thermal protection with automatic reset.

14. Cabinet shall have two minihelic gauges to display negative pressure of workzone and interchange area.

15. Cabinet shall come standard with one hospital grade duplex with drip proof cover on back wall.

16.* Cabinet shall be easily bench mounted or freestanding console model with the addition of the optional bench mount support or various basestand options.

17. Cabinet workzone shall be all 16 GA.

18. Cabinet shall have a large removable workzone worktray with integral hinged support rods to be raised and held up for cleaning.

19.* Cabinet shall have a permanent positive pressure plenum with quick release supply filter removal.

20.* Cabinet shall be capable of front/top filter removal without disassembly of the control panel and hinged window hardware.

21. Cabinet shall have Bag-in/Bag-out exhaust HEPA filter with single point external filter release.

22. Cabinet interchange doors shall be interlocked to prevent the inner door from opening when the outer door is open.

23. Cabinet shall have a three-position IV bar with 6 hooks.

24 Cabinet shall have a digital exhaust monitor with high/low alarm setpoints and remote alarm dry contact.

25. Cabinet exhaust requirement through 10-inch (254mm) collar shall be the following:

NU-NTE800-400	NU-NTE800-600
550 CFM @ 2.0” w.g.	725 CFM @ 2.0” w.g.

26. The following optional equipment shall be available to support installation and user requirements:

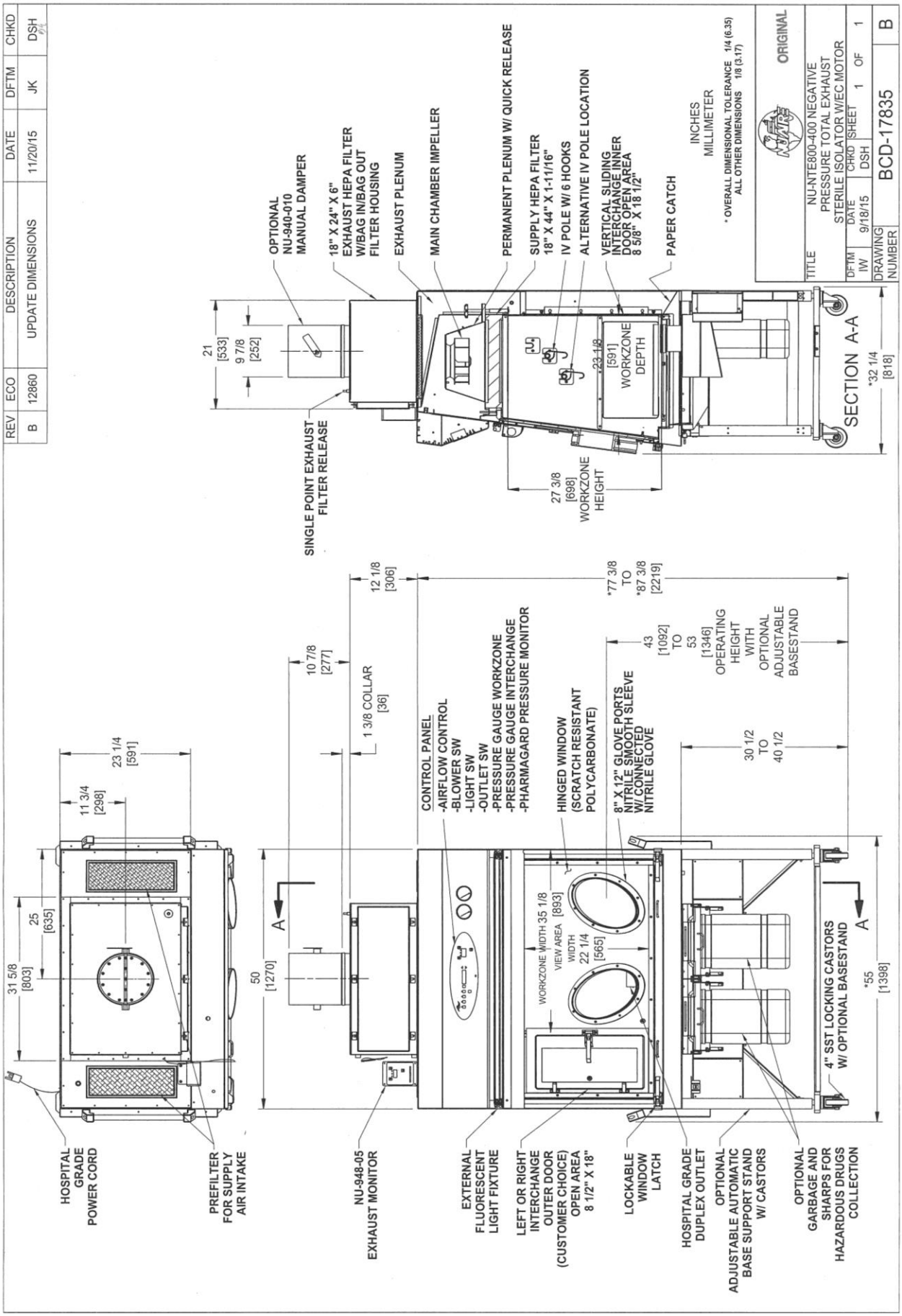
- Hospital Grade Ground Fault Interrupter for Electrical System
- Additional Service Valves for Gas, Air, Vacuum
- Additional Hospital Grade Duplex
- Bench Mount Support
- Telescoping Base Support Stand
- Storage Pullout Trays
- Pull Out Shelf
- Cord Pass-Through
- Adjustable Automatic Base Support Stand with Leg Levelers
- Sharps/Sharps (Large) Disposal System for Hazardous Drugs
- Gas Tight Damper
- Flex Duct Kits
- Custom Options Available

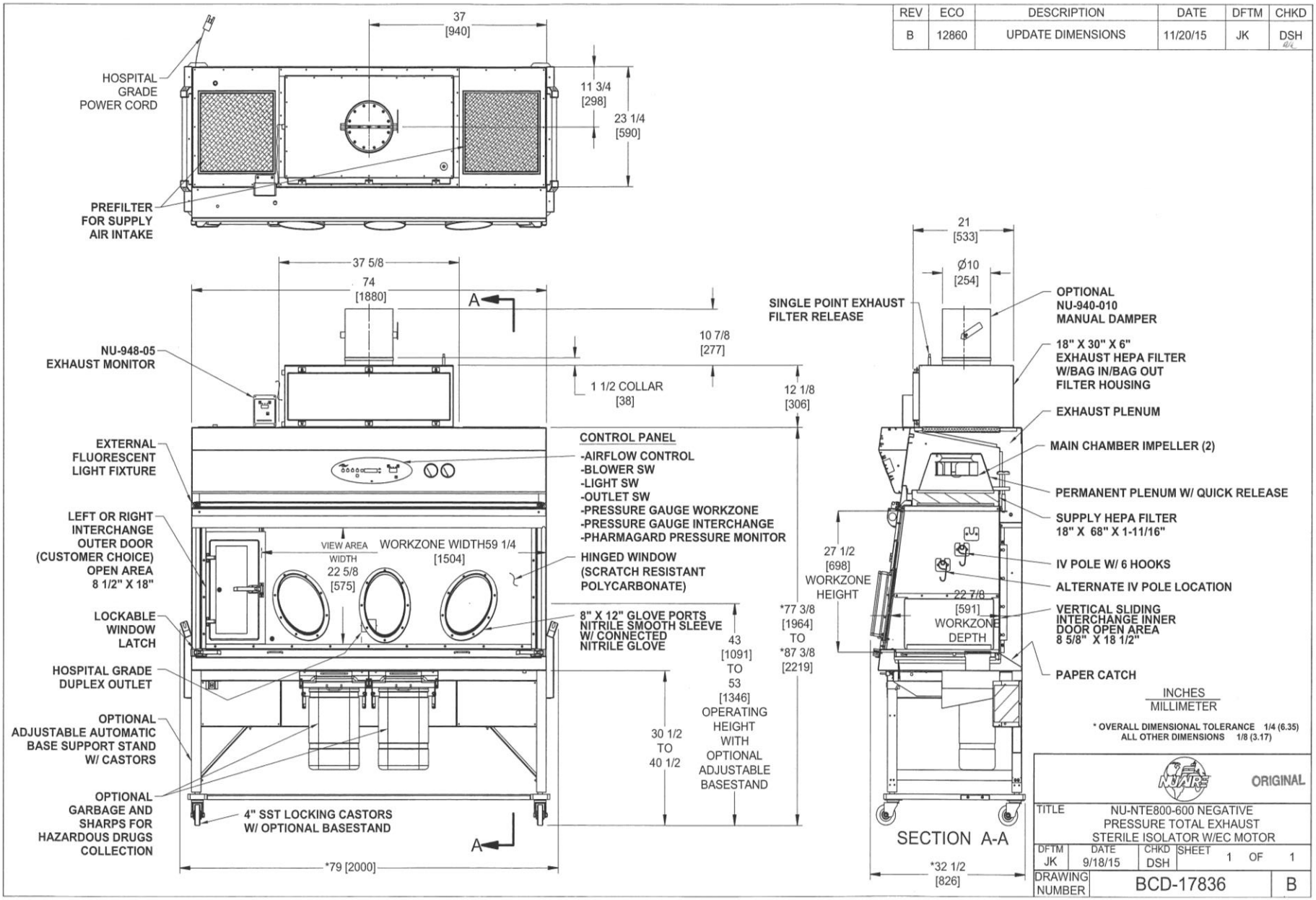
*Having all of these features is unique ONLY to NuAire cabinets.

Pharmagard™ Negative Pressure
Total Exhaust Sterile Isolator
Models NU-NTE800-400/600

Catalog Number	Catalog Number	
	NU-NTE800-400 **Nominal 4 foot (1.2m)**	**NU-NTE800-600** **Nominal 6 foot (1.8m)**
Performance Specifications 1. Product Protection	CETA CAG-002-2006 ISO Class 5 (Laminar Flow)	CETA CAG-002-2006 ISO Class 5 (Laminar Flow)
Style of Isolator	Bench top/console Isolator	Bench top/console Isolator
Isolator Construction	Welded stainless steel 16GA, Type 304 pressure tight design	Welded stainless steel 16GA, Type 304 pressure tight design
Interchange Chamber	ISO Class 5 With Internal/External Sealed Doors	ISO Class 5 With Internal/External Sealed Doors
Diffuser for Air Supply (Metal)	Non-flammable	Non-flammable
HEPA Filter Seal Type: Supply Filter-99.99% Eff. on 0.3 microns Exhaust Filter-99.99% Eff. on 0.3 microns	 Neoprene, Spring loaded Under Negative Pressure	 Neoprene, Spring loaded Under Negative Pressure
Standard Services: Hospital Grade Duplex Outlet	 One, Backwall	 One, Backwall
Optional Services: Service Valves 3/8" NPT	 Up to 3	 Up to 3
Isolator Size Inches (mm): Height Height (Center of Glove Port at 46-1/8) Width Depth (with Control Center)	 61 (1550) 92 1/2 (2350) 50 (1270) 32 1/2 (826)	 61 (1550) 92 1/2 (2350) 74 (1880) 32 1/2 (826)
Work Zone Inches (mm): Width Height Depth (Center of Glove Port)	 35 1/4 (895) 27 3/8 (695) 23 1/4 (591)	 59 1/4 (1505) 27 3/8 (695) 23 1/4 (591)
Interchange Inches (mm) Width Depth (at Work Surface) Height	 14 1/8 (359) 24 (610) 27 3/8 (695)	 14 1/8 (359) 24 (610) 27 3/8 (695)
Hinged Lockable Viewing Window (Polycarbonate)	Fully closed to fully open	Fully closed to fully open
Exhaust CFM/CMH Standard: Plan Duct Static Pressure Eng/Metric: (water gauge)	550/934 2.0”w.g./50.8 mm w.g.	725/1232 2.0”w.g./50.8 mm w.g.
Heat Rejected, BTU, Per Hour	539	880
Electrical: Volts, AC 60 Hz Amps: Blower/Lights Amps: Hospital Grade Duplex Amps: Total 12 ft. Hospital Grade Power Cord (one)	UL/UL-C Listed 115 3 3 6 14 GA - 3 Wire, 15A	UL/UL-C Listed 115 5 3 8 14 GA - 3 Wire, 15A
*Crated Shipping Weight: *Net Weight: Net Optional Adjustable Automatic Base Stand Wt: Net Optional Telescoping Base Stand Wt: Net Optional Bench Mount Wt:	515 lbs./234 kg. 465 lbs./211 kg. 150 lbs./68 kg. 60 lbs./27 kg. 20 lbs./19 kg.	665 lbs./302 kg. 615 lbs./279 kg. 160 lbs./73 kg. 70 lbs./32 kg. 20 lbs./19 kg.

* For total weight, must select and add (1) of (3) base options.


REV | ECO | DESCRIPTION | DATE | DFTM | CHKD
B | 12860 | UPDATE DIMENSIONS | 11/20/15 | JK | DSH
OPTIONAL NU-940-010 MANUAL DAMPER
18" X 24" X 6" EXHAUST HEPA FILTER W/BAG IN/BAG OUT FILTER HOUSING
EXHAUST PLENUM
MAIN CHAMBER IMPELLER
PERMANENT PLENUM W/ QUICK RELEASE
SUPPLY HEPA FILTER 18" X 44" X 1-11/16"
IV POLE W/ 6 HOOKS
ALTERNATIVE IV POLE LOCATION
VERTICAL SLIDING INTERCHANGE INNER DOOR OPEN AREA 8 5/8" X 18 1/2"
PAPER CATCH
INCHES
MILLIMETER
* OVERALL DIMENSIONAL TOLERANCE 1/4 (6.35)
ALL OTHER DIMENSIONS 1/8 (3.17)
ORIGINAL
TITLE
NU-NTE800-400 NEGATIVE PRESSURE TOTAL EXHAUST STERILE ISOLATOR W/EC MOTOR
DFTM IW | DATE 9/18/15 | CHKD DSH | SHEET 1 OF 1
DRAWING NUMBER BCD-17835 B
21 [533]
9 7/8 [252]
SINGLE POINT EXHAUST FILTER RELEASE
23 1/8 [591] WORKZONE DEPTH
27 3/8 [698] WORKZONE HEIGHT
SECTION A-A
*32 1/4 [818]
31 5/8 [803]
25 [635]
11 3/4 [298]
23 1/4 [591]
HOSPITAL GRADE POWER CORD
PREFILTER FOR SUPPLY AIR INTAKE
50 [1270]
10 7/8 [277]
1 3/8 COLLAR [36]
12 1/8 [306]
CONTROL PANEL
-AIRFLOW CONTROL
-BLOWER SW
-LIGHT SW
-OUTLET SW
-PRESSURE GAUGE WORKZONE
-PRESSURE GAUGE INTERCHANGE
-PHARMAGARD PRESSURE MONITOR
HINGED WINDOW (SCRATCH RESISTANT POLYCARBONATE)
8" X 12" GLOVE PORTS NITRILE SMOOTH SLEEVE W/ CONNECTED NITRILE GLOVE
*77 3/8 TO *87 3/8 [2219]
43 [1092] TO 53 [1346] OPERATING HEIGHT WITH OPTIONAL ADJUSTABLE BASESTAND
30 1/2 TO 40 1/2
WORKZONE VIEW AREA WIDTH 22 1/4 [565]
WIDTH 35 1/8 [893]
*55 [1398]
4" SST LOCKING CASTORS W/ OPTIONAL BASESTAND
NU-948-05 EXHAUST MONITOR
EXTERNAL FLUORESCENT LIGHT FIXTURE
LEFT OR RIGHT INTERCHANGE OUTER DOOR (CUSTOMER CHOICE) OPEN AREA 8 1/2" X 18"
LOCKABLE WINDOW LATCH
HOSPITAL GRADE DUPLEX OUTLET
OPTIONAL ADJUSTABLE AUTOMATIC BASE SUPPORT STAND W/ CASTORS
OPTIONAL GARBAGE AND SHARPS FOR HAZARDOUS DRUGS COLLECTION



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