

**NUCLEAR MEDICINE  
SINGLE VENTILATION FUME HOOD**

**Model: VD-650D**



**Huanghua Faithful Instrument Co., Ltd.** introduces **VD-650D** Nuclear Medicine Ventilation Fume Hood, which is CE and ISO certified and the best product for secured packaging and rinsing. Inside and outside stainless steel decoration, the front is equipped with lead glass observation window and hand hole, forming an angle of 30 degree with the bottom of the ventilated place, which is convenient for observation and use, and the interior is equipped with ventilation, lighting and sterilization systems.

Ventilation Fume hood is used when experiment dispensing the radioactive drugs and isotopes (for instance, I-131 and Tc-99). It is also called radioactive medicine dispensing cabinet.

For Radioactive Medicine Dispensing, all sides of the ventilation fume hood should be lead protective treatment. Normally the Pb equivalent:

1. Front and Bottom 40mm Pb,
2. Left and Right side 30mmPb,
3. Top and Back 20mm Pb ;

The Ventilation Fume Hood is surrounded and installed with dovetail Lead tiles, excellent protective effect.

**VD-650D** Ventilation Fume Hood's outside dimension: 1700mm Length\*745mm Width\*2200mm H I-131(40-30-20mmPb) Weight: 1200kg.

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1. **VD-650D** Ventilation Fume Hood's internal & external are made of the material SS304 Stainless Steel plates. Some of the parts made of mirror surface plates.
2. Ventilation Fume Hood inside lead-bearing steel frame choose the standard square steel welding with antirust paint, some of the parts with thicker steel plate.
3. In front of the ventilation fume hood, provide Lead glass inspection window, lead equivalent to the Fume Hood Pb (300mm L\*300mm W).
4. The front designed operating hole ( $\phi 150\text{mm}$ ), the protective cap of the operating hole lead equivalent to the fume hood too. The protective cap installed the handle and the magnetic pull open device according to ergonomic, easy to operating.
5. Both sides of the fume hood are provided with delivery goods window (530mm  $\times$  height width 420mm). Also provide shielding door with a door lock which lead equivalent to the fume hood, to confirm there will be no radioactive ray leak accident.
6. Inside of the ventilation fume hood installed 40mm Pb activity protective wells, reading platform suspended outside of cabinet in order to easy observation.

7. Lead Protected Activity Well



8. Inside of the ventilation fume hood also equipped with electric lift generator protection wells (50mm Pb).

9. Ventilation fume hood comes with the standard accessories

Lighting device,

Sterilization Lamp,

Ventilation device,

Electric power: 220VAC, 50Hz, 20A with safety,

External of the power centralized security voltage to regulator and the Control Panel, etc.

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**Technical Specifications**

<b>1.</b>	<b>Overall shape and size</b>
1.1	Dimensions: W 1700mm × D 745 mm × H 2200 mm
1.2	Weight: 1200 Kg (approx.)
1.3	Front opening structure: (power off password lock), Airtight structure to ensure no leakage in the hot chamber, 40mmPb Lead glass : 260mm x 300mm 50mmPb
<b>2.</b>	<b>Dispensing Room details:</b>
2.1	Fume Hood: Front ≥40mmPb, Bottom ≥40mmPb, Side ≥30mmPb*2, Back ≥20mmPb, Top ≥20mmPb
2.2	Below the cabinet: Activity well ≥ 40mmPb, Radioactive waste bin ≥ 20mmPb
2.3	Operation hole of shielding door: 40mmPb
2.4	Lifting system: 50mmPb
<b>3.</b>	<b>Internal design:</b> Purify Class A ventilation fume hood, the operating table environment is Class A. Install a clean air supply ceiling to form a vertical laminar flow.
3.1	Activated carbon filter: length 430mm × width 400mm × thickness 90mm
3.2	Class A filter: length 310mm × width 400mm × thickness 90mm
3.3	Working platform: 600mm high, table length 800mm × width 500mm
3.4	Shielding Pot lifting system: Lifting Height 300mm, can be adjustable. The lifting platform is equipped with a gas seal ring to ensure the Class A purification level inside the hot cell
3.5	Activity meter well lifting system: the activity meter well is equipped with lifting device, the process of manual measurement of isotopes can be completed automatically, reducing occupational exposure
3.6	Each one of positive and negative pressure fan: 15 m <sup>3</sup> /min, the operating hole wind speed is 1.5 m/s
3.7	Observable transparent wind control circuit box system 1 set: can intuitively operate the fan
3.8	The inside of the hot cell is octagonal structure, which has the same structure as the purifying operating room, purifying no dead angle, and the five sides of the hot cell are mirrored surface.
<b>4</b>	<b>Radioactive waste inlet location on the right side of the console</b>
<b>5</b>	<b>Configuration requirements</b>
5.1	One set of dispensing room subject, which can be docked with I-131 or TC-99, and has a special isotopes transportation channel.
5.2	One set of internal octagonal mirror surface stainless steel operation box (which can form A-level vertical laminar flow, and the casing shell is circulated and returned to the wind structure)
5.3	1 set of shielding pot lifting system
5.4	1 set of activity meter well lifting system
5.5	Each one of positive and negative pressure fan
5.6	Observable transparent air control circuit box system 1 set (with octagonal operating box to form a circulating air return system with activated carbon filter and high efficiency filter)
5.7	2 set of Ultraviolet sterilizing lamp
5.8	1 set of Lighting System (2pcs)