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WILLSON CLEANROOM EQUIPMENT CO., LTD.

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## DISPENSING BOOTH

Cleanroom dispensing booth, also called sampling booth or down-flow booth, is designed to provide vertical laminar airflow to work area, most of air is recycled within booth, partial air is exhausted, so as to make working area in negative pressure state, thus containing particles or powder from overflowing outside of booth when weighing or sampling raw materials are conducted inside booth. More importantly, the negative pressure booth can protect worker's health from inhaling particles or powders. The downflow booth is mainly applicable to pharmaceutical, healthcare, and food industries.



## According to control mode, our downflow booth has two modes

1: Standard: Varied Frequency Device (VFD)-control Mode

2: Advanced: PLC-control Mode

Compared with VFD-controlled booth, the PLC-controlled booth is more intelligent and convenient in operation. It can control airflow speed, lighting, power supply, and display the real-time downstream airflow speed, and the differential pressures of the three-stage filters. When the values of airflow speed and differential pressure exceed the set ones, the buzzer will make alarming sound.

Downflow Booth	VED Controlled Downflow Dooth	PLC-controlled Downflow Booth	
Configuration	VFD-Controlled Downflow Booth		
Pre-filter	Yes	Yes	
Medium- efficiency Filter	Yes	Yes	
HEPA Filter	Yes	Yes	
DOP Test Port	Yes	Yes	
Dust-proof Socket (Class: IP66)	Yes Quantity is 3 by default	Yes Quantity is 3 by default	
Airflow Equalizing Membrane	Yes	Yes	
LED Light	Yes	Yes	

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External Size

(W\*D\*H)

1600\*2400\*2600mm

LED Light On/Off	By pressing button on booth	By touching PLC screen	
Differential Pressure Gauge	Yes See the differential pressures by checking the DP gauges	NO	
Differential Pressure Sensor	No	Yes Sensor Brand: DWYER Equipped with the sensors, the values of differential pressures can be seen on PLC screen	
Airflow Speed Regulation	Yes by pressing the buttons on VFD panel	Yes Sensor Brand: E+E by touching the PLC screen	
	Yes	Yes	
Control Panel	ESC ENTER  M.K >>>  RUNO     ORDING STOP RESET	SIEMENS SMART LINE	
	VFD Control Panel	Siemens PLC Touch Screen	

NAME		DISPENSING BOOT		
		Feature	<ul> <li>Negative pressure design to booth.</li> <li>100% stainless steel 304 des GMP-compliant.</li> <li>Top air supply with H14 HEPA of ISO-5/Class 100.</li> <li>DOP test ports to test air leak</li> <li>Modular and disassembled de and fast site assembly.</li> <li>Built-in sockets with plastic weighing or sampling devices</li> <li>Emergency button to power emergency.</li> </ul>	ign, easy cleaning and filter, reaching air cleanliness kage of HEPA filter. esign to enable easy transport cover for the power supply of s and other electric appliance.
Model	WDE	)B-1600	WDDB-2000	WDDB-2500
Internal Size (W*D*H)	1500*180	0*2000 mm	1900*1800*2000 mm	2400*1700*2000 mm

2000\*2400\*2600 mm

Rated Power	3 KW	4KW	5KW
Total/ Exhaust Volume	8000/800 (m³/h)	10000/1000 (m <sup>3</sup> /h)	13000/1300 (m <sup>3</sup> /h)
Power Supply	Two cables: 3-phase 380V, 50Hz and 1-phase 220V, 50Hz If your local supply is different, please advise before placing order		
Air Cleanliness Class	Vertical laminar flow, ISO-5 (Class 100)		
Average Airflow Speed	0.45±20%m/s		
Pre-Filter		Non-woven Fabric, Filter Efficiency G4(90%@5µm)	
Medium Efficiency Filter		Pocket-type Filter, Filter Efficiency F8 85%~95%@1~5µm (99.99%~99.999%@0.5µm)	
HEPA Filter		Gel-sealed HEPA Filter Filter Efficiency H14	
Differential Pressure Gauge	<ul> <li>0-60 Pa for pre-filter</li> <li>0-250 Pa for medium efficiency filter</li> <li>0-500 Pa for HEPA filter</li> </ul>		
Noise	≤75 db (A)		
Light Intensity	LED Lights, ≥300 Lux tested at the level of 1m above floor		

WHAT CAN BE CUSTOMIZED?		
Control Mode	<ul> <li>VFD-controlled Booth (Standard)</li> <li>PLC-controlled Booth (Advanced)</li> </ul>	
Booth Size	<ul> <li>Width</li> <li>Height</li> <li>Depth</li> <li>*The customization is subject to our technical feasibility.</li> </ul>	
Dust-proof & Water-proof Socket	<ul> <li>Socket quantity: Three Sockets (220V, 50 Hz) by default</li> </ul>	

2500\*2400\*2600 mm