

Ductless Fume Hood



Product Overview

The ductless fume hood series complies with the Chinese standard JG/T 385-2012. Designed to protect laboratory personnel during experimental operations, it prevents operators from inhaling toxic, harmful, pathogenic, or unknown-toxicity chemical substances. The unit efficiently purifies air inside the fume hood and the laboratory, providing reliable safety protection for laboratory personnel.

- 1. Cabinet Body:** Main material ≥ 1.2 mm steel plate with epoxy resin electrostatic powder coating, covered with a durable, chemical-resistant, lead-free finish that maintains high gloss and minimizes the effects of corrosion and moisture.
- 2. Front & Side Panels:** Main material ≥ 6 mm acrylic panel with excellent weather resistance and outstanding chemical resistance. Non-yellowing, colorless and transparent, providing full visibility, visual comfort, and an elegant appearance.
- 3. 7-inch LCD Touchscreen:** Real-time temperature and humidity monitoring, fan status monitoring, VOC concentration monitoring, and an integrated alarm system.
- 4. PSC Fan:** 24V DC, stable performance, quiet operation, spark-free and static-free.
- 5. High-Efficiency Filtration System:** Filter modules arranged by particle size per ASTM standards. Effectively targets acidic and organic gases with strong adsorption capacity. Equipped with a high-efficiency HEPA filter for particles, achieving 99.995% filtration efficiency for particles larger than $0.3\ \mu\text{m}$.
- 6. LED Lighting:** Heat-free, safe and does not affect laboratory ambient temperature. Energy-saving, eco-friendly, and long service life.
- 7. Epoxy Resin Worktop:** Superior chemical stability, exceptional corrosion resistance, impact resistance, and high-temperature resistance. Monolithic through-core construction with long service life — no delamination, no swelling, no cracking.

Advantages

1. No ductwork installation required — easy to install, no exhaust discharge, eco-friendly design.
2. Optional filter module system on top to accommodate a wide range of experimental requirements.
3. Intelligent modular filtration technology adsorbs and filters harmful gases, particulate matter, and dust generated during experiments.
4. Does not consume air-conditioning energy — highly energy-efficient.
5. Can be placed on a benchtop or equipped with a mobile wheel base — flexible and suitable for any complex laboratory location.

Working Principle

- 1. Air Inlet:** Air is drawn directly from the laboratory into the fume hood, creating negative pressure. A stable face velocity forms a barrier that isolates the user from the chemicals being handled.
- 2. Filtration System:** The fan system draws toxic and harmful gases upward through the filters, returning purified air to the room.
- 3. Clean Laboratory Air:** Different filters are configured for different operations to effectively filter toxic and harmful gases, purify laboratory air, eliminate residual chemical odors, and improve laboratory cleanliness levels.
- 4. Purify Surrounding Air:** The continuous filtration efficiency of the fume hood helps purify indoor air.

Ductless Weighing Cabinet (Benchtop)

Model	Dimensions (H*W*D) mm	Configuration	Worktop	Lower Cabinet Door Type
DNJQCLG800	1250*800*620	7-inch LCD touchscreen, VOC concentration monitoring & integrated alarm system, 8 filter modules, 1 fan	No worktop	No lower cabinet
DNJQCLG1000	1250*1000*620	7-inch LCD touchscreen, VOC concentration monitoring & integrated alarm system, 8 filter modules, 1 fan	No worktop	No lower cabinet
DNJQCLG1275	1250*1275*620	7-inch LCD touchscreen, VOC concentration monitoring & integrated alarm system, 12 filter modules, 3 fans	No worktop	No lower cabinet
DNJQCLG1600	1250*1600*620	7-inch LCD touchscreen, VOC concentration monitoring & integrated alarm system, 12 filter modules, 3 fans	No worktop	No lower cabinet

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Model	Dimensions (H*W*D) mm	Configuration	Worktop	Lower Cabinet Door Type
DNJQTFG800	2060*800*620	7-inch LCD touchscreen, VOC concentration monitoring & integrated alarm system, 8 filter modules, 1 fan	Epoxy resin	Double door / Manual
DNJQTFG1000	2060*1000*620	7-inch LCD touchscreen, VOC concentration monitoring & integrated alarm system, 8 filter modules, 1 fan	Epoxy resin	Double door / Manual
DNJQTFG1275	2060*1275*620	7-inch LCD touchscreen, VOC concentration monitoring & integrated alarm system, 12 filter modules, 3 fans	Epoxy resin	Four door / Manual
DNJQTFG1600	2060*1600*620	7-inch LCD touchscreen, VOC concentration monitoring & integrated alarm system, 12 filter modules, 3 fans	Epoxy resin	Four door / Manual

Ductless Weighing Cabinet (Benchtop)

DNJQCLG800	
External Dimensions: H1250*W800*D620 mm Air Handling Capacity: 235 m³/h Average Face Velocity: 0.4–0.6 m/s Voltage: 220V–240V Frequency: 50–60 Hz Power: 82 W Noise Level: 39.4 dBA Sash Opening Type: Triangular (Trape Number of Filters: 8 pcs Number of Fans: 1 pc Lighting: 1 set LED light Display: 7-inch LCD touch Environmental Monitoring: Temp./humidity r concentration mc Power Cord: 1 pc Control System: 1 set Alarm System: 1 set	

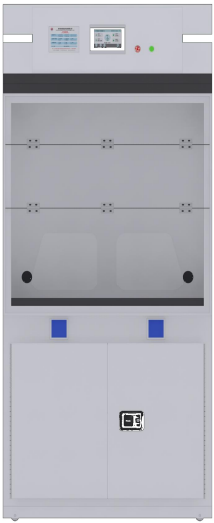
DNJQCLG1000		
External Dimensions:	H1250*W1000*D620 mm	
Air Handling Capacity:	235 m³/h	
Average Face Velocity:	0.4–0.6 m/s	
Voltage:	220V–240V	
Frequency:	50–60 Hz	
Power:	82 W	
Noise Level:	39.4 dBA	
Sash Opening Type:	Triangular (Trapezoidal)	
Number of Filters:	8 pcs	
Number of Fans:	1 pc	
Lighting:	1 set LED light	
Display:	7-inch LCD touchscreen	
Environmental Monitoring:	Temp./humidity monitoring concentration monitoring	
Power Cord:	1 pc	
Control System:	1 set	
Alarm System:	1 set	

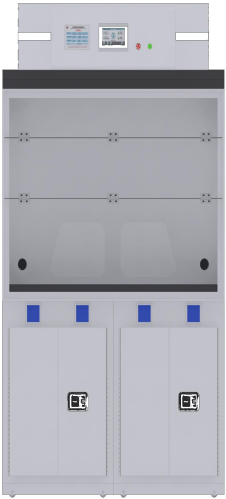
DNJQCLG1275		
External Dimensions:	H1250*W1275*D620 mm	
Air Handling Capacity:	690 m³/h	
Average Face Velocity:	0.4–0.6 m/s	
Voltage:	220V–240V	
Frequency:	50–60 Hz	
Power:	218 W	
Noise Level:	38.5 dBA	
Sash Opening Type:	Triangular (Trapezoidal)	
Number of Filters:	12 pcs	
Number of Fans:	3 pcs	
Lighting:	1 set LED light	
Display:	7-inch LCD touchscreen	
Environmental Monitoring:	Temp./humidity monitoring & 2-stage concentration monitoring	
Power Cord:	1 pc	
Control System:	1 set	
Alarm System:	1 set	

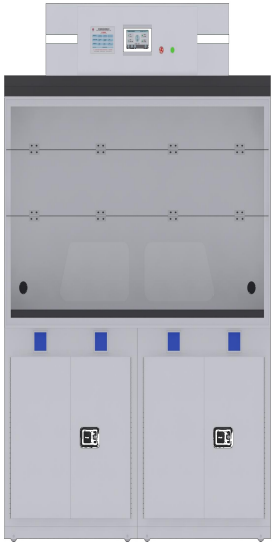
DNJQCLG1600	
External Dimensions: H1250*W1600*D620 mm Air Handling Capacity: 690 m³/h Average Face Velocity: 0.4–0.6 m/s Voltage: 220V–240V Frequency: 50–60 Hz Power: 218 W Noise Level: 38.5 dBA Sash Opening Type: Triangular (Trapezoid) Number of Filters: 12 pcs Number of Fans: 3 pcs Lighting: 1 set LED light Display: 7-inch LCD touchscreen Environmental Monitoring: Temp./humidity monitoring & concentration monitoring Power Cord: 1 pc Control System: 1 set Alarm System: 1 set	

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DNJQTFG800	
External Dimensions: H2060*W800*D620 mm Air Handling Capacity: 235 m³/h Average Face Velocity: 0.4–0.6 m/s Voltage: 220V–240V Frequency: 50–60 Hz Power: 82 W Noise Level: 39.4 dBA Sash Opening Type: Triangular (Trapezoidal) Number of Filters: 8 pcs Number of Fans: 1 pc Lighting: 1 set LED light Display: 7-inch LCD touchscreen Environmental Monitoring: Temp./humidity monitoring & concentration monitoring Worktop: Epoxy resin worktop Power Cord: 1 pc Control System: 1 set Alarm System: 1 set	

DNJQTFG1000		
External Dimensions:	H2060*W1000*D620 mm	
Air Handling Capacity:	235 m³/h	
Average Face Velocity:	0.4–0.6 m/s	
Voltage:	220V–240V	
Frequency:	50–60 Hz	
Power:	82 W	
Noise Level:	39.8 dBA	
Sash Opening Type:	Triangular (Trapezoidal)	
Number of Filters:	8 pcs	
Number of Fans:	1 pc	
Lighting:	1 set LED light	
Display:	7-inch LCD touchscreen	
Environmental Monitoring:	Temp./humidity monitoring concentration monitoring	
Worktop:	Epoxy resin worktop	
Power Cord:	1 pc	
Control System:	1 set	
Alarm System:	1 set	

DNJQTFG1275		
External Dimensions:	H2060*W1275*D620 mm	
Air Handling Capacity:	690 m³/h	
Average Face Velocity:	0.4–0.6 m/s	
Voltage:	220V–240V	
Frequency:	50–60 Hz	
Power:	218 W	
Noise Level:	38.5 dBA	
Sash Opening Type:	Triangular (Trapezoidal)	
Number of Filters:	12 pcs	
Number of Fans:	3 pcs	
Lighting:	1 set LED light	
Display:	7-inch LCD touchscreen	
Environmental Monitoring:	Temp./humidity monitoring concentration monitoring	
Worktop:	Epoxy resin worktop	
Power Cord:	1 pc	
Control System:	1 set	
Alarm System:	1 set	

DNJQTFG1600		
External Dimensions:	H2060*W1600*D620 mm	
Air Handling Capacity:	690 m³/h	
Average Face Velocity:	0.4–0.6 m/s	
Voltage:	220V–240V	
Frequency:	50–60 Hz	
Power:	218 W	
Noise Level:	39.7 dBA	
Sash Opening Type:	Triangular (Trapezoidal)	
Number of Filters:	12 pcs	
Number of Fans:	3 pcs	
Lighting:	1 set LED light	
Display:	7-inch LCD touchscreen	
Environmental Monitoring:	Temp./humidity monitoring & 2-s concentration monitoring	
Worktop:	Epoxy resin worktop	
Power Cord:	1 pc	
Control System:	1 set	
Alarm System:	1 set	