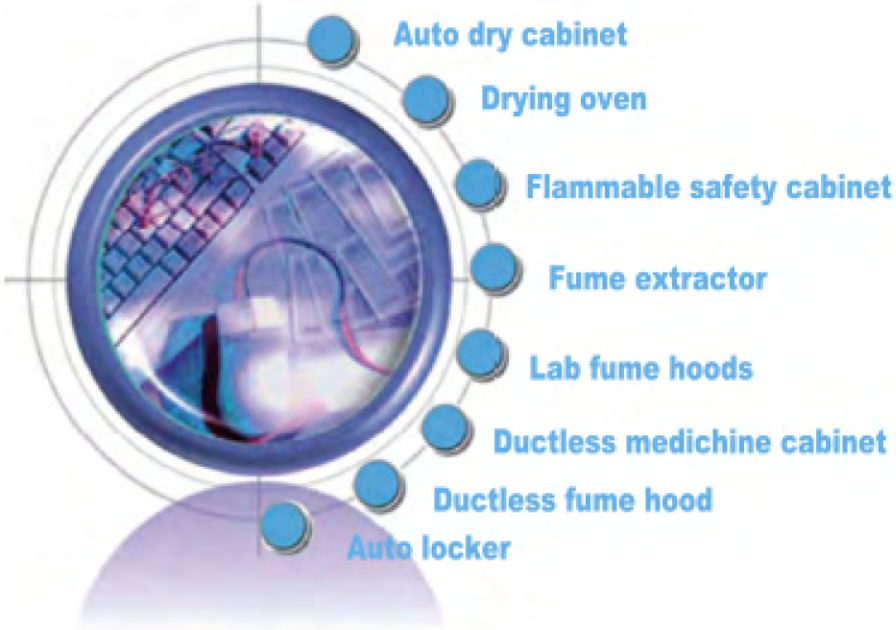
CATEC LABORATORY EQUIPMENT

QUALITY ASSURANCE
SAFETY STORAGE

2019 version

COMPANY PROFILE



We are manufacturer for laboratory equipment like safety cabinets, fume hoods, dry cabinets, n2 gas cabinets, drying ovens, auto lockers and other electronic appliances. With modern manufacture machines, advanced technology and strict quality control in production and constant technical innovating, our products are welcomed all over the world for industries of electronics, military projects, chemical engineering, research institute,lighting, optics, etc.

CATEC LAB EQUIP, HOLDING YOUR SAFETY STORAGE CONCERNS!

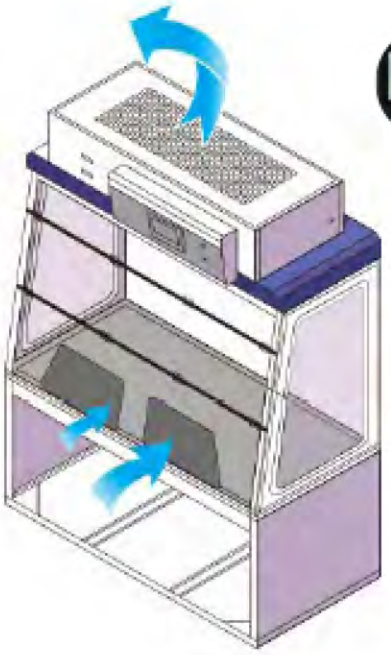
Functions:

① Air intake to create new circulating

② Overall filtering system

③ Clean the air in laboratory

④ Cleaning ambient air



7" touch screen to monitor the ambient humidity/temp, VOC concentration, and alarming system

Strong HEPA Filtration as per ASTM Standard

Imported PLC Draught Fan

Material:galvanized ⩾1.2mm steel, epoxy resin electrostatic sprayed

25W LED Light

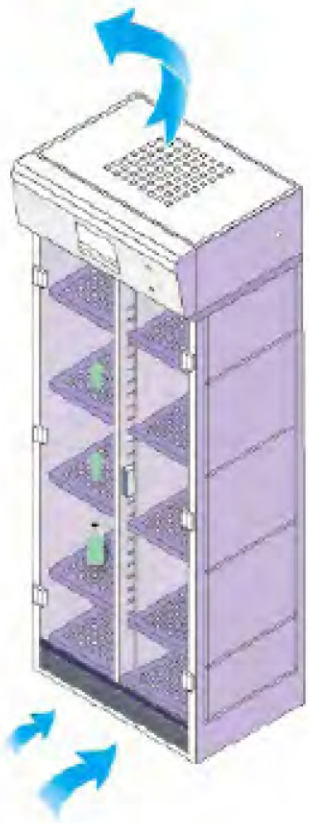
Front/side Acrylic Window ⩾ 6mm

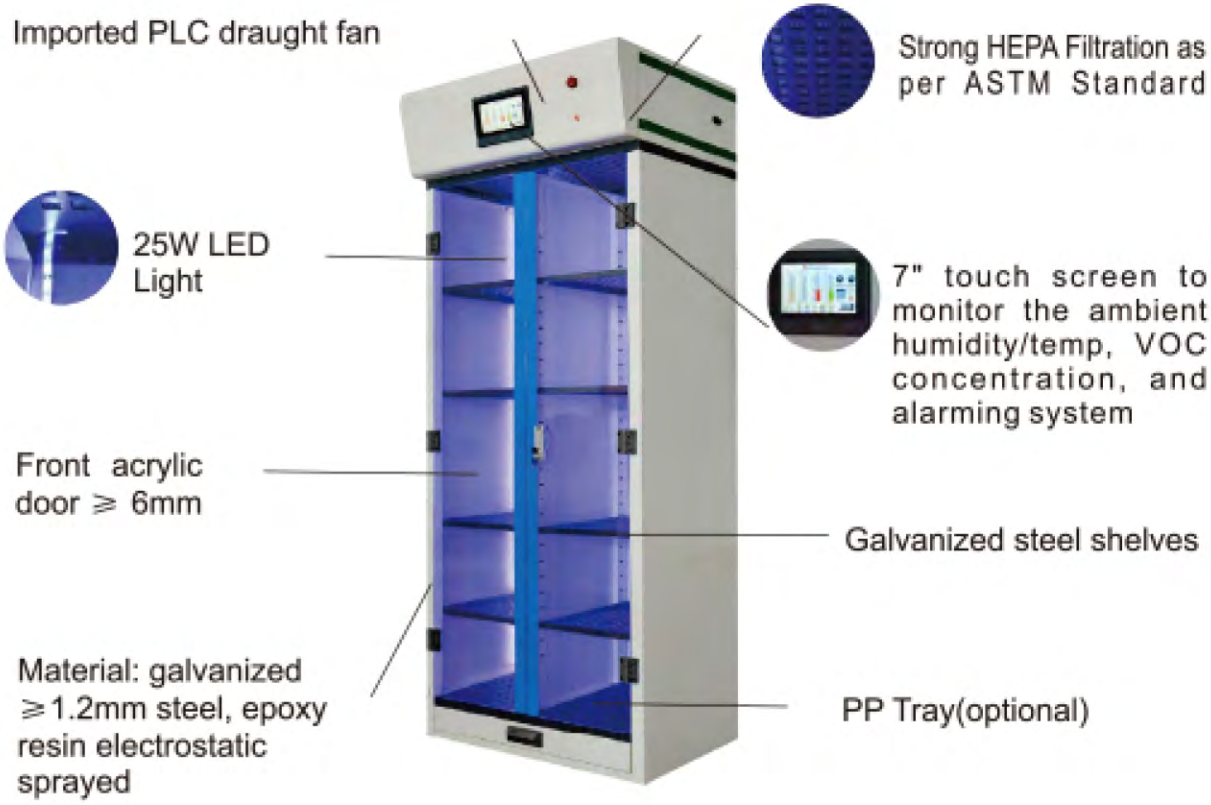
Epoxy Resin Worktop

Technical details

Spec	Outer Size (W*D*H/mm)	Inner Size (W*D*H/mm)	Filtering Rate	Power	Ave. Power	Volume	Other Details	Parts Options
CF-DS800	800*620*1290mm	764*540*860mm	230m³/h 0.4-0.6m/s	220V-240V 50/60Hz	42W 3A	40dBA	Filter*8, fan*1, LED light*1, 7" LED display, epoxy resin worktop, power wire, alarming system	Fixed/movable base, ceramics/SS/tempered glass worktop
CF-DS1000	1000*620*1315mm	971*512*885mm	230m³/h 0.4-0.6m/s	220V-240V 50/60Hz	42W 3A	40dBA		
CF-DM1275	1275*620*1340mm	1172*522*866mm	230m³/h 0.4-0.6m/s	220V-240V 50/60Hz	42W 3A	40dBA	Filter*12, fan*2, LED light*1, 7" LED display, epoxy resin worktop, power wire, alarming system	Filter model: SFGL OG: organic gas SFGL AG: acid gas HEPA H14: dust&particles
CF-DM1600	1600*620*1340mm	1172*522*866mm	460m³/h 0.4-0.6m/s	220V-240V 50/60Hz	42W 3A	40dBA	Filter*12, fan*3, LED light*1, 7" LED display, epoxy resin worktop, power wire, alarming system	
CF-DL1600	1600*790*1495mm	1497*692*1014mm	690m³/h 0.4-0.6m/s	220V-240V 50/60Hz	42W 3A	40dBA		

DUCTLESS SMART FILTRATION MEDICINE CABINET





Technical details

Spec	Outer Size (W*D*H/mm)	Inner Size (W*D*H/mm)	Filtering Rate	Power	Volume	Other Details	Parts option
CF-G800	800*620*2360mm	708*450*1750mm	220m³/h	220V/50Hz 76W 3A	160bottles (500ml)	Filter*8, fan*1, shelf*8, LED light*1, 7" LED display, alarming system	Shelves, movable base, filter saturation alarming system, PP tray, filter
CF-G1600	1600*510*2395mm	971*512*885mm	220m³/h	220V/50Hz 110W 3A	320bottles (500ml)	Filter*8, fan*1, shelf*20, LED light*1, 7" LED display, alarming system	
CF-GS819	819*354*725mm	753*322*519mm	75m³/h	220V/50Hz 42W, 3A	48bottles (500ml)	Filter*1, fan*1, shelf*2, LED light*1, 7" LED display, alarming system	

Features:

1.Fume Hood, also called fume cupboard or fume cabinet: main structure is made of high quality PP board, perfect for resisting corrosion and heat. It is applicable to various kinds of laboratories with high requirement for cleanliness, for example: pharmaceutical laboratory, food laboratory, semiconductor laboratory, trace metal laboratory, biology laboratory, etc. It is widely used in the industries such as chemical, medical, car, steel plant, university and science institute
2.Panoramic view sash: vertical movable 5mm tempered glass, low turbulence, easy positioning
3.Worktop: PP board, optional for epoxy resin, or ceramics for specific needs.
4.Lighting: 30W/40W fluorescent lamp and switch
5.Power: AC220V,50-60HZ, or as demanded
6.Exhaust system: subuliform gas collecting hood

Model	CF1200	CF1500	CF1800
Outer size(W*D*H)	1200*850*2350mm	1500*850*2350mm	1800*850*2350mm
Sash Opening		Max820mm	
Exhaust flux at wind speed 0.5m/s	23.4CMM/840CFM	30.6CMM/1100CFM	50/.8CMM/1825CFM
Worktop		white PP board with 8mm water dam	
Window		5mm tempered glass	
Gas collecting hood		Subuliform	
STD Spec			
Light	30W fluorescent lamp*1	30W fluorescent lamp*1	40W fluorescent lamp*1
Socket		AC220V/10A*4	
RC water value		Pure water*1, tap water*1(optional)	
PP sink		1(optional)	

Other options for customer's special demands: Various kinds of water tap, cup sink, air plunger, water plunger, ventilation fan, socket, anti-explosion lighting, venturi valve control, butterfly valve control, converter control, touch screen, surface inflow velocity detector and sound & light alarm, etc.

FLAMMABLE SAFETY CABINETS

- Designed as per American standards of OSHA and NFPA standards, for safety storage of flammable, combustible, and hazardous materials
- Double-wall steel structure with 1.5"(38mm) insulation for fire resistance.
- Welded 1.2mm thickness steel offers optimum longevity with increased heat resistance
- Three-point locking system with two keys for security, available for optional Master Lock to limit access unless for authorized personnel.
- 2"(50mm) leakproof sump for spills containment.

- Normative safety signage in large red lettering.
- Two vents with integral flame arrestors
- Adjustable spill-catching shelves, adjusting by 2 1/4"(6mm) up/down
- Cabinets are epoxy painted for both inner and outer.
- Grounding connector for antistatic earthing, as per OSHA standard.

DRUM SAFETY STORAGE CABINET

Drum safety cabinet is especially used for the storage of one and two international standard vertical drums. Unique double-wall design and explosion-proof function make sure the safety of environment. optional single or double drum rollers at the bottom for easy drum moving.

Technical details

Spec	Capacity (gallon)	Outer Size (W*D*H/mm)	Inner Size (W*D*H/mm)	Weight (kg)	Parts
CFS-55OS	60	860*860*1650mm	780*760*1550mm	195	2 doors/manual、1 shelf, one earthing cable, one drum roller
CFS-110OD	110	1500*860*1650mm	1420*760*885mm	355	2 doors/manual、1 shelf, one earthing cable, two drum rollers

Technical details of flammable safety cabinet

Model name	Material	Length	With	Thickness	Applicable spec	Remarks
Shelf	Galvanized steel sheet	333	330	25	CFS-G004	For STD spec
Shelf	Galvanized steel sheet	493	360	25	CFS-G012	
Shelf	Galvanized steel sheet	1008	360	25	CFS-G030 CFS-G045	
Shelf	Galvanized steel sheet	778	760	25	CFS-G060	
Shelf	Galvanized steel sheet	1008	760	25	CFS-G090	
Pallet	Galvanized steel sheet /pp board	340	330	10/58	CFS-G004	For options
Pallet	Galvanized steel sheet /pp board	500	360	10/58	CFS-G012	
Pallet	Galvanized steel sheet /pp board	1000	360	10/58	CFS-G030 CFS-G045	
Pallet	Galvanized steel sheet /pp board	770	760	10/58	CFS-G060	
Pallet	Galvanized steel sheet /pp board	1000	760	10/58	CFS-G090	

Spec	Capacity (liters)	Outer dimension (H*W*D/CM)	Inner dimension (H*W*D/CM)	Weight (kg)	Parts
CFS-G004	15	56*43*43	46*35*33	34	One door/manual、1 shelf, one earthing cable
CFS-G012	45	89*59*46	79*51*36	60	One door/manual、1 shelf, one earthing cable
CFS-G022	83	165*60*46	155*52*36	90	One door/manual、3 shelves, one earthing cable
CFS-G030	114	112*109*46	102*101*36	100	2 doors/manual、1 shelf, one earthing cable
CFS-G045	170	165*109*46	155*101*36	138	2 doors/manual、2 shelves, one earthing cable
CFS-G054	204	165*60*86	155*52*77	136	2 doors/manual、3 shelves, one earthing cable
CFS-G060	207	165*86*86	155*78*76	165	2 doors/manual、2 shelves, one earthing cable
CFS-G090	340	165*109*86	155*101*76	190	2 doors/manual、2 shelves, one earthing cable

Yellow indicates flammable liquids | Red indicates combustible liquids | Blue indicates weak acids and base

Auto-closing door(optional)

Zinc Alloy locking latch

Dual latch(optional for padlock)

Vent hole

Grounding wire

Galvanized steel sheet/pp board

50mm leakproof Sump

OPTIONAL SPECIAL DESIGNS

Patented auto-mechanism door system

Alarming system for vibration

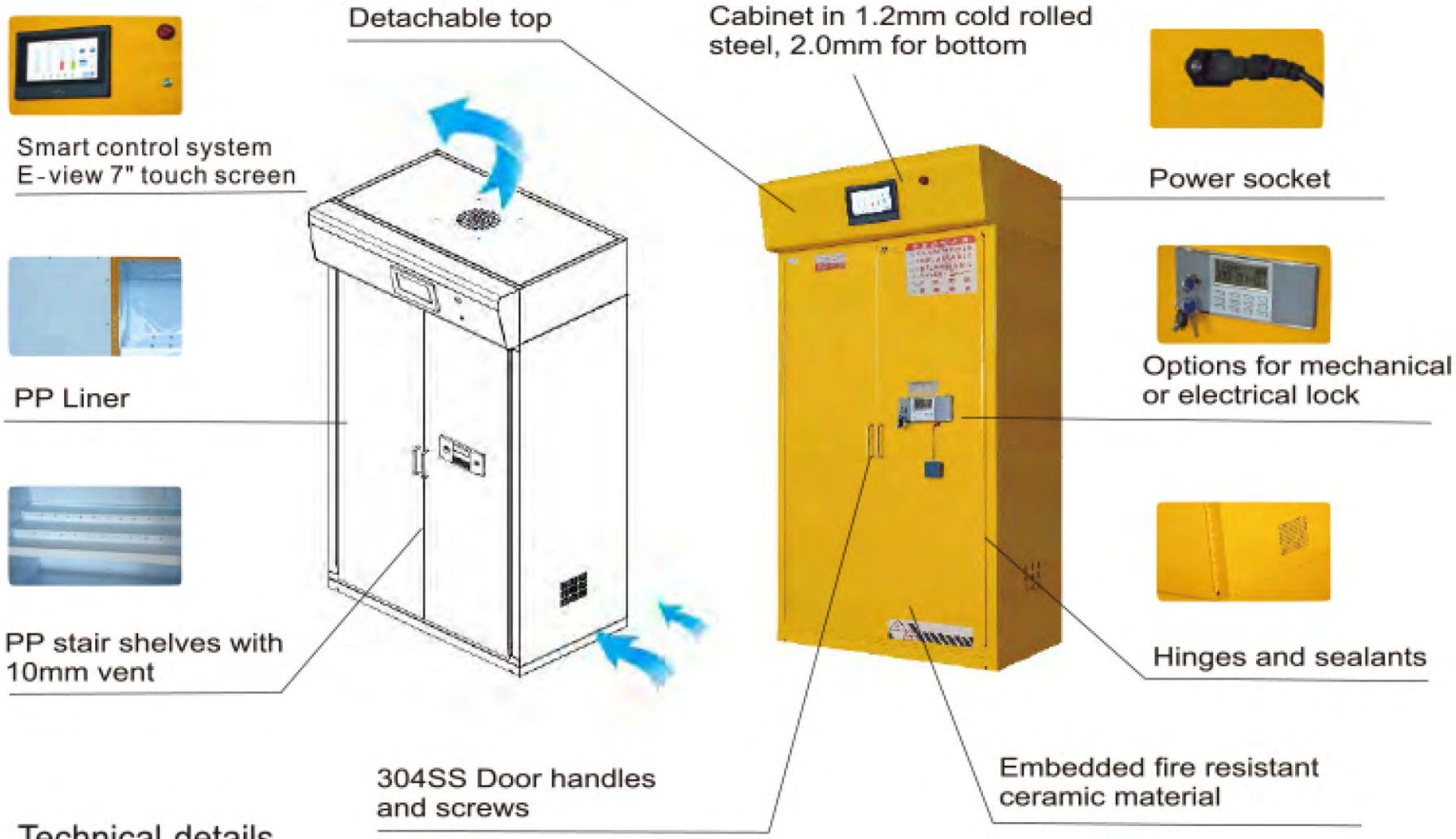
Alarming system for temperature/humidity limitations

Fuse mechanism for door closing when temperature exceeds 70°C

Smoke alarm

Strong anti-corrosion PP boards

Strong anti-corrosion PP tray



Technical details

Spec	Outer Size (W*D*H/mm)	Power	Volume	Color	Other Details	Parts option
CFS-WYRG03	900*510*1960mm	220V/50Hz 40W 2A	40dBA	Yellow	2 door/manual, Filter*8, fan*1, PP board*3, 7" LED display, power line, alarming system	Shelves, movable base, filter saturation alarming system, filter
CFS- WDPG03	900*510*1960mm	220V/50Hz 40W 2A	40dBA	Blue		

INTELLIGENT SAFETY CABINET

Warning label

Galvanized steel sheet

Grounding wire

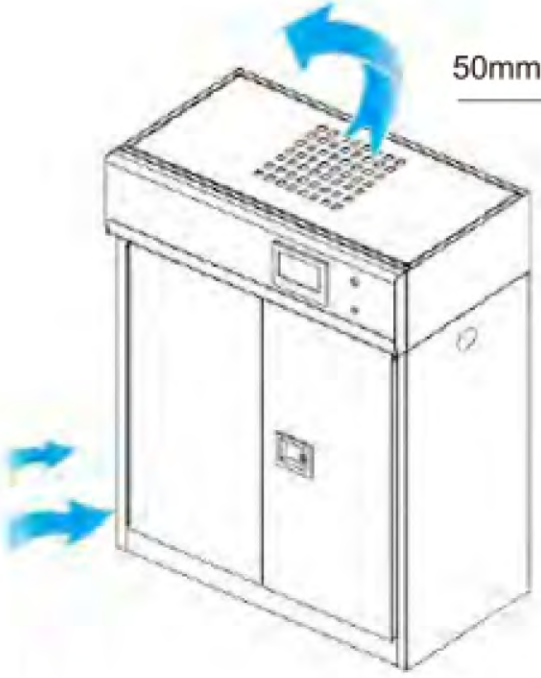
HEPA filtration, 99.995% efficiency for particles over 0.3um

Cabinet in 1.2mm cold rolled steel, 2.0mm for bottom

Embedded fire resistant ceramic material thickness 38mm

Vent hole

50mm leakproof sump



Spec	Outer Size (W*D*H/mm)	Power	Volume	Other Details	Parts option
CFS-Z0G03	1090*460*1400mm	220V/50Hz 40W 2A	40dBA	2 door/manual, Filter*8, fan*1, galvanized steel board*1, 7" LED display, power line, alarming system	Shelves, movable base, filter saturation alarming system, filter
CFS- Z045	1090*460*1930mm	220V/50Hz 40W 2A	40dBA		

Features:

- Specially designed and manufactured for extracting and filtering gas and fume generated from electronic soldering, laser carving, laser markup etc., applicable for dual work stations, ten work stations or more. The customized systems are available for reflow soldering oven, selective soldering and so on
- Strong heavy-duty metal structure to be adaptable to the harshest environments
- Built-in super-silence high volume motor for the air-flow up to 320 m³/h
- Four efficient filters inside to ensure high filter efficiency
- Flexible stainless steel arms for strong support and practical extending.
- Professional module design for using convenience and fast installment.
- Austrian Phouesay Los sound-absorbing cotton and special designed airflow tube make the machine to work with lowest noise
- Innovative cellular plate to prolong the working life of filters
- Intelligent IC for filter pressure error alarming
- Three-layer filters: pre-filter, HEPA filter and gas filter. Pre-filter for particles, HEPA filter for micro particles with the diameter of 0.3micron up to 99.999%; gas filter can filter for toxic gases

Model	CF-200S	CF-200D
Air inlet	φ75 mm	φ75 mm*2
Voltage	AC220V 50Hz	AC220V 50Hz
Rating Power	120W	300W
Purification rate	0.3μm 99.97%	0.3μm 99.97%
Noise level	<50dB	<55dB
Arm	¢75mm*L1.3M, single arm	¢75mm*L1.3M, two arms
Air flow	260m³/h	360m³/h
Dimension（mm）	W405×D300×H440	W405×D300×H440
Environment requirements	Temperature:10-50℃, Humidity below 80%RH, suitable for indoor use	

DRYING OVEN

- Application: for drying, baking, temp testing, heat aging, or sterilizing in mining industries, electronics, labs, research institutes, and other industries.
- Safety structure mirror, stainless steel made inner container, and high quality steel for outer cabinet.
- LED display and microcomputer control, LCD display optional.
- Door glass with wide view for user's observation convenience.
- Nano-material for door sealing and insulation on material for heat preservation.
- Variety of blast drying ovens, vacuum drying ovens, incubators, and constant temperature/humidity cabinets, for your options!

VERTICAL VACUUM DRYING OVEN(250 ℃

VERTICAL BLAST DRYING OVEN(250 ℃

ULTRA HIGH TEMP DRYING OVEN(400℃

DESK TYPE VACUUM DRYING OVEN(250 ℃

DESK TYPE BLAST DRYING OVEN(250 ℃

DRYING OVEN

Model name	Spec	Outer Size (W*D*H/mm)	Inner Size (W*D*H/mm)	Technical parameters	Shelf qty (pcs)
Desk-top blast drying oven	DCTG-9023A	580*480*440	300*300*270	RT+10~250℃, AC220V 50HZ, error 0.1℃/±0.5℃, 500~1050W	2
	DCTG-9053A	700*530*520	420*350*350		2
	DCTG-9123A	830*530*720	550*350*550		2
	DCTG-9203A	880*730*770	600*550*600		2
	DCTG-9025A	580*480*440	300*300*270	RT+10~300℃, AC220V 50HZ, error 0.1℃/±0.5℃, 500~2100W	2
	DCTG-9055A	700*530*520	420*350*350		2
	DCTG-9125A	830*530*720	550*350*550		2
	DCTG-9205A	880*730*770	600*550*600		2
Vertical blast drying oven	VCTG-9030A	480*500*630	340*320*320	RT+10~250℃, AC220V 50HZ, error 0.1℃/±0.5℃, 500~2100W timing 0~9999min	2
	VCTG-9070A	550*530*760	400*350*450		2
	VCTG-9140A	590*730*860	450*550*550		2
	VCTG-9240A	640*780*1060	500*600*750		2
	VCTG-9420A	740*730*1670	600*550*1300	RT+10~250℃, AC220V 50HZ, error 0.1℃/±0.5℃, 4000~6000W, timing 0~9999min	3
	VCTG-9620A	940*780*1690	800*600*1300		4
	VCTG-9920A	1140*780*1990	1000*600*1600		4
	VCTG-9425A	740*730*1670	600*550*1300	RT+10~300℃, AC220V 50HZ, error 0.1℃/±0.5℃, 4000~7500W, timing 0~9999min.	3
	VCTG-9625A	940*780*1690	800*600*1300		4
	VCTG-9925A	1140*780*1990	1000*600*1600		4
Vacuum drying oven	VCTF-6020	580*450*450	300*300*275	RT+5~250℃, AC220V 50HZ, error 0.1℃/±0.5℃ 500~3500W, timing0~999min, vac. Degree 133pa	1
	VCTF-6030	630*510*460	320*320*300		1
	VCTF-6050	720*525*535	415*370*345		2
	VCTF-6090	615*590*1470	450*450*450		2
	VCTF-6210	720*820*1750	560*640*600	RT+10~250℃, AC380V 50HZ, error 0.1℃/±0.5℃, 4100~5500W, timing0~999min	3
	VCTF-6250	1050*760*910	700*600*600		3

Model name	Spec	Outer size (W*D*H/mm)	inner size (W*D*H/mm)	Technical parameters	Shelf qty (pcs)
High-temp blast drying oven	HCTG-9030A	560*520*700	320*320*300	100~400℃, AC 220V 50HZ, error 0.1℃/±0.5℃, 2000~3500W, timing 0~9999min	2
	HCTG-9050A	640*600*695	410*350*350		2
	HCTG-9100A	690*750*850	450*450*450		2
	HCTG-9200A	945*850*840	600*600*600		2

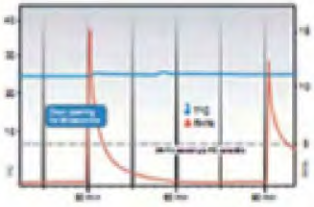
Vacuum Pump Technical Data

Model		DM2	DM4	DM8	DM15
Displacement speed(L/S)		2	4	8	15
Ultimate partial pressure(Pa)	Without gas ballast	$\leqslant 4X10^{-2}$	$\leqslant 4X10^{-2}$	$\leqslant 4X10^{-2}$	$\leqslant 4X10^{-2}$
	With gas ballast	$\leqslant 8X10^{-2}$	$\leqslant 8X10^{-2}$	$\leqslant 8X10^{-2}$	$\leqslant 8X10^{-2}$
Ultimate total pressure(Pa)	Without gas ballast	$\leqslant 5X10^{-1}$	$\leqslant 5X10^{-1}$	$\leqslant 5X10^{-1}$	$\leqslant 5X10^{-1}$
	With gas ballast	$\leqslant 8X10^{-1}$	$\leqslant 8X10^{-1}$	$\leqslant 8X10^{-1}$	$\leqslant 8X10^{-1}$
Noise Lp/Lw dB(A)		52/63	54/65	58/71	59/72
Inlet port(DN)		25KF	25KF	40KF	40KF
Outlet port(DN)		25KF	25KF	40KF	40KF
Oil filling(L)		1.1	1.5	3	4
Rotational speed of pump(r/min)		1400	1430	1400	1420
Motor power (kw)		0.37	0.55	1.1	1.5(2.2)
Weight(kg)		24	31	60	70
Overall dimensions(mm)		510*174*274	550*174*274	650*236*383	700*236*383

Dry Cabinet for Humidity Control Storage

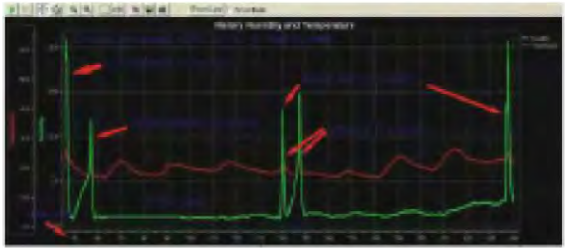
- LED display, Honeywell humidity sensor with error as ±3%RH.
- Quality 1mm and 1.2mm cold rolled steel, reinforced structure, high intensity bearing, every shelf can bear over 40kg load.
- 3.2mm tempered glass.
- Zinc alloy lock with air press.
- ROHS certified powder coating technology with Dupont powder, high anti-erosion performance to avoid your stored goods from pollution and static shock.
- AC power 85V~265V 50/60Hz, compatible for worldwide application.
- Smart Control System and resettable target humidity.
- Compliant with IPC/JEDEC J-STD-033B, and CE certified.
- Additional options to be added:
  1) data logging system by USB connection with computer for data reading and printing;
  2) security code lock;
  3) alarm system with light tower;
  4) heating system up to 40℃, for low temperature baking;
  5) nitrogen purging system;
  6) independent segregated compartments;
  7) stainless steel cabinet;

Display Panel



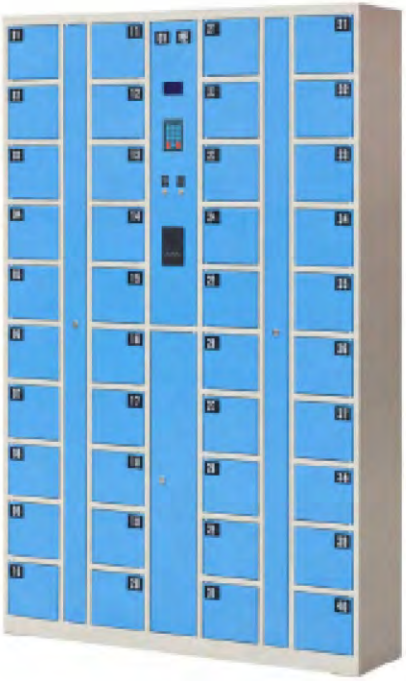
Product Name	Type	Controlled Scope	Control Mode
Medium humidity dry cabinet	A	20%~60%RH	Adjustable pointing control
Low humidity dry cabinet	B	10%~20%RH	Adjustable pointing control
Ultra-low humidity dry cabinet	C	1%~10%RH	Automatic

U type: ultra low humidity control, less than 5%RH



Spec	Outer Size (W*D*H/mm)	Inner Size (W*D*H/mm)	Controlled Humidity (RH)	Average Power (W)	Maximum Power (W)	Anti-ESD Function (Y/N)
DRY98EA	W448*D400*H688	W446*D372*H598	20%~60%	13	91	Y
DRY98EB	W448*D400*H688	W446*D372*H598	10%~20%	18	126	Y
DRY98EC	W448*D400*H688	W446*D372*H598	1%~10%	18	126	Y
DRY1436EA-6	W1200*D710*H1910	W1198*D682*H1723	20%~60%	40	280	Y
DRY1436EB-6	W1200*D710*H1910	W1198*D682*H1723	10%~20%	80	560	Y
DRY1436EC-6	W1200*D710*H1910	W1198*D682*H1723	1%~10%	120	840	Y

PHONE LOCKER/ WARDROBE LOCKER



Application:

- Phone locker is generally used for special places where cellphone is prohibited to bring in, like special laboratories of big companies or institute, libraries, exhibition halls, museums, airports, government buildings, courts, procuratorates, prisons
- Wardrobe locker is convenient for user to store private belongings for the special places like special workshops, showrooms, gyms, supermarkets, big malls, hotels, night clubs, hospitals, theme parks, waterparks, zoos, etc.
- Locking options: IC/ID card, coins, barcode, fingerprint or padlock
- Display: 128*64 lattices with backlight, touch screen is optional

Spec	cabinet size (mm)	Box size (mm)	Power (W)	Color option
CT40CP	W1200*D300*H1792	W184*D280*H154	85~220V 50/60 HZ Standby 10W Working 30W	Blue, green, red, etc.
CT64	W2650*D350*H1920	W253*D330*H230		

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