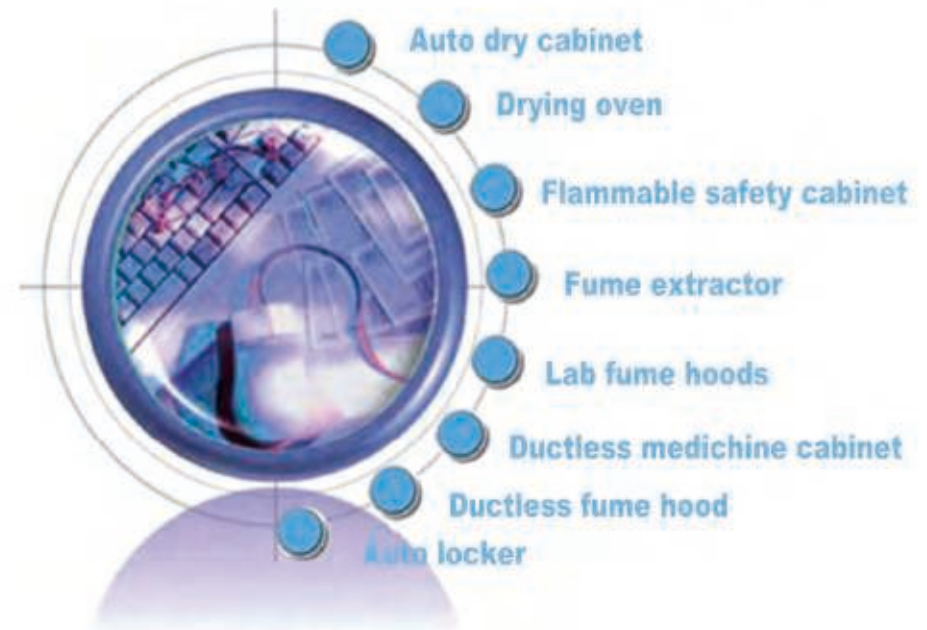# CATEC

CATEC SECURITY EQUIPMENT

Keeping your items secure from

- humidity damage
- fire and explosion
- harmful pollution
- theft and dust
- oxidation
- chemical erosion

RoHs CE

QUALITY ASSURANCE
SAFETY STORAGE

2021version

- Auto dry cabinet
- Drying oven
- Flammable safety cabinet
- Fume extractor
- Lab fume hoods
- Ductless medichine cabinet
- Ductless fume hood
- Auto locker

We are manufacturer for security equipment like safety cabinets, fume hoods, dry cabinets, n2 gas cabinets, drying ovens, auto lockers and other electronic appliances that can keep your items secure from fire and explosion, harmful pollution, humidity damage, theft and dust. 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, pharmacy, etc.

CATEC SECURITY 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 inch touch screen to monitor the ambient humidity/temp, VOC concentration, and alarming system

Strong activated carbon plus HEPA filtration conformed to ASTM standard

Imported PSC draught Fan

Material:strong anti-erosion 8mm PP plate structure

25W LED Light
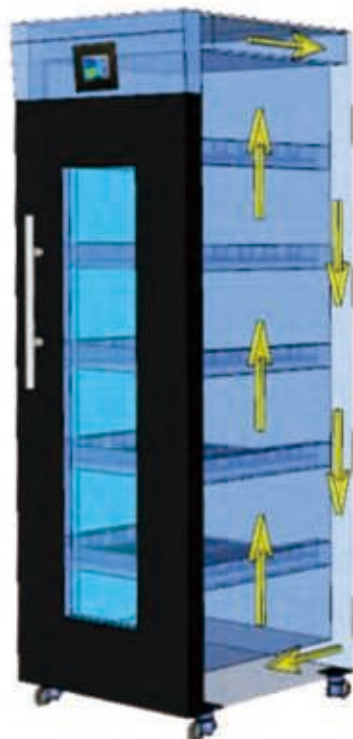
Front/side Acrylic Window ≥ 6mm

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
CFS-DS800	800*620*1290	764*540*860	230㎥/h 0.4-0.6m/s	220V-240V 50/60Hz	42W 3A	40dBA		
CFS-DS1000	1000*620*1315	971*512*885	230㎥/h 0.4-0.6m/s	220V-240V 50/60Hz	42W 3A	40dBA	filter*1 set fan*1 LED light*1 7 inch LCD display epoxy resin worktop power wire alarming system	fixed/movable base ceramics/SS/tempered glass worktop filter options: organic gas filter integrated gas filter HEPA filter
CFS-DM1275	1275*620*1340	1172*522*866	230㎥/h 0.4-0.6m/s	220V-240V 50/60Hz	42W 3A	40dBA		
CFS-DM1600	1600*620*1340	1172*522*866	460㎥/h 0.4-0.6m/s	220V-240V 50/60Hz	42W 3A	40dBA		
CFS-DL1600	1600*790*1495	1497*692*1014	690㎥/h 0.4-0.6m/s	220V-240V 50/60Hz	42W 3A	40dBA		

Imported PSC draught Fan

Strong activated carbon plus HEPA filtration conformed to ASTM standard

25W LED Light

Stainless steel door handle

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

5mm transparent PVC window

PP trays

Material: strong anti-erosion 8mm PP plate

Air circulation diagram

Technical details

Spec	Outer Size (W*D*H/mm)	Inner Size (W*D*H/mm)	Filtering Rate	Power	Volume	Other Details	Parts Option
CFS-G800P	800*510*2170	710*450*1750	220m³/h	220V/50Hz 76W 3A	160bottles （500ml）	Filter*1 set fan*1 PP tray*5 LED light*1 7 inch LCD display alarming system	spare PP tray spare filter

DUCTLESS SMART FILTRATION MEDICINE CABINET

Imported PSC draught Fan

Strong activated carbon plus HEPA filtration conformed to ASTM standard

25W LED Light

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

Tempered glass window

pp trays

Material: galvanized steel with epoxy resin electrostatic sprayed
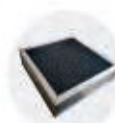
Air circulation diagram

Technical details

Spec	Outer Size (W*D*H/mm)	Inner Size (W*D*H/mm)	Filtering Rate	Power	Volume	shelf	Other Details	Parts Option
CFS-G800	800*510*2150	760*432*1720	220m³/h	220V/50Hz 76W 3A	160bottles (500ml)	PP tray*10	filter*1 set fan*1 LED light*1 7 inch LCD display alarming system	spare PP tray galvanized steel shelf spare filter
CFS-G1600	1600*510*2150	1560*432*1720	220m³/h	220V/50Hz 110W 3A	320bottles (500ml)	PP tray*10		
CFS-GS819	819*354*725	753*322*519	75m³/h	220V/50Hz 42W, 3A	48bottles (500ml)	PP tray*2		

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 spec.	CF1200	CF1500	CF1800
Outer dimension （L*W*H）	1200*850*2350mm	1500*850*2350mm	1800*850*2350mm
Max door open	820mm （vertically adjustable）		
exhaust flux at air speed 0.5m/s	23.4CMM/840CFM	30.6CMM/1100CFM	50.8CMM/1825CFM
Working board material	White PP,thickness 8MM, bending designed to avoid spilling over.options for solid physiochemical board or epoxy resin or ceramic.		
operation window	Transparent tempered glass, thickness 5MM		
Gas collecting hood	Conical necking type		
Standard parts			
Lighting device	All cover fluorescent 30Wx1	All cover fluorescent 30Wx1	All cover fluorescent 40Wx1
Power socket	AC220V/10A X 4pcs		
Power switch board	For light, operation panel and general on/off control		
Remote control water valves	For pure water and pipe water		
PP sink	1pcs		

Options for other parts

Cups,sinks,air cocks, water cocks, air blowers, power sockets,explosion-proof lighting,Venturi valve control, Butterfly valve control, converter control,touch pad, Surface wind speed detection, sound and light alarm, etc.
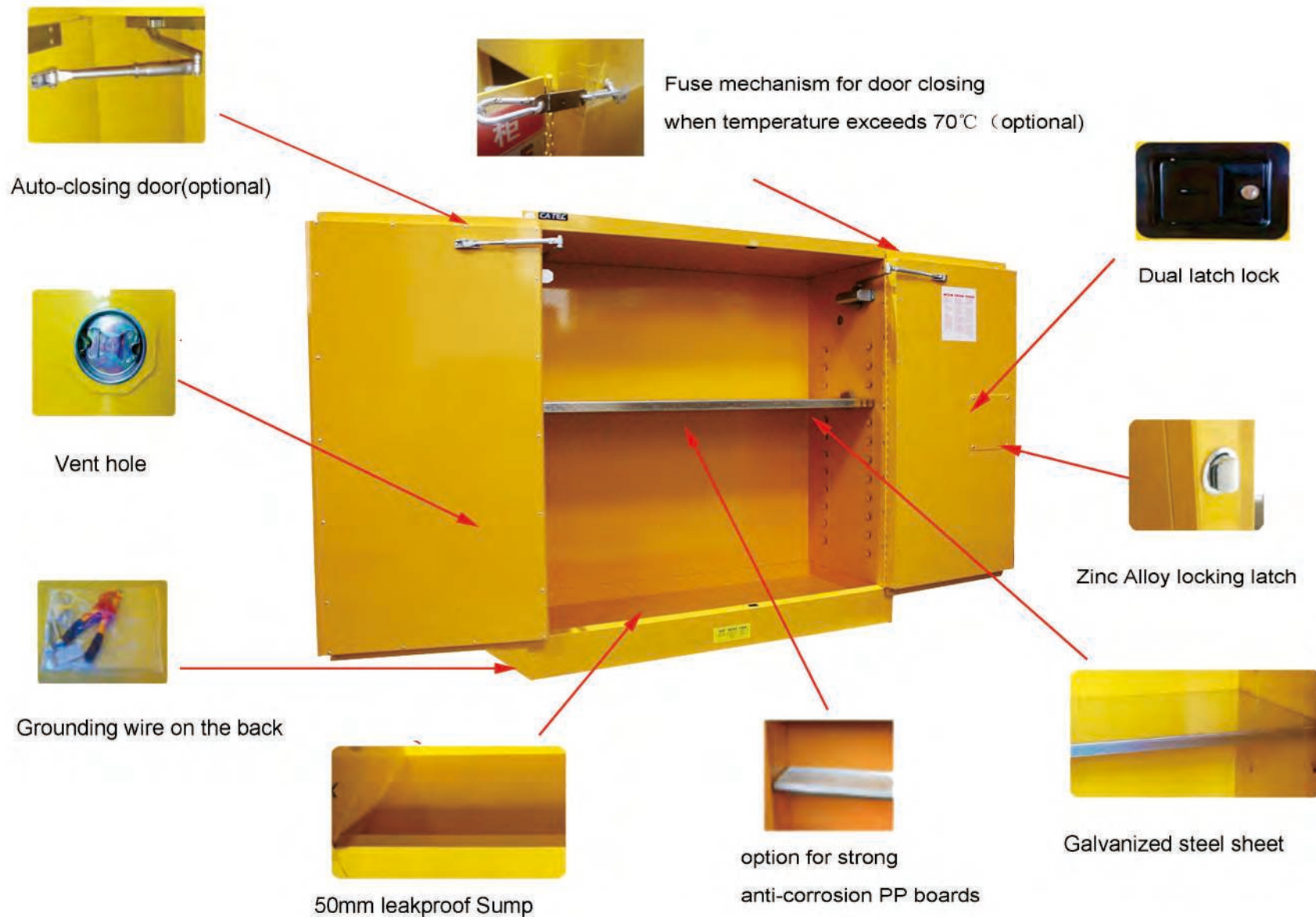
- Designed as per American standards of OSHA and NFPA standards, for safety storage of flammable, combustible, and hazardous materials

- 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.

OPTIONAL SPECIAL DESIGNS

Auto-closing door(optional)

Fuse mechanism for door closing when temperature exceeds 70℃ （optional）

Dual latch lock

Vent hole

Zinc Alloy locking latch

Grounding wire on the back

50mm leakproof Sump

option for strong anti-corrosion PP boards

Galvanized steel sheet

Technical details of flammable safety cabinet

Galvanized steel sheet

pp board

Model name	Material	Length	With	Thickness	Applicable spec	Remarks
Shelf	Galvanized steel sheet	348	330	25	CFS-G004	For STD spec
Shelf	Galvanized steel sheet	508	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, 2 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*87	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

FLAMMABLE
INFLAMABLE
INFLAMMABLE

Yellow indicates flammable liquids   Red indicates combustible liquids   Blue indicates weak acids and base
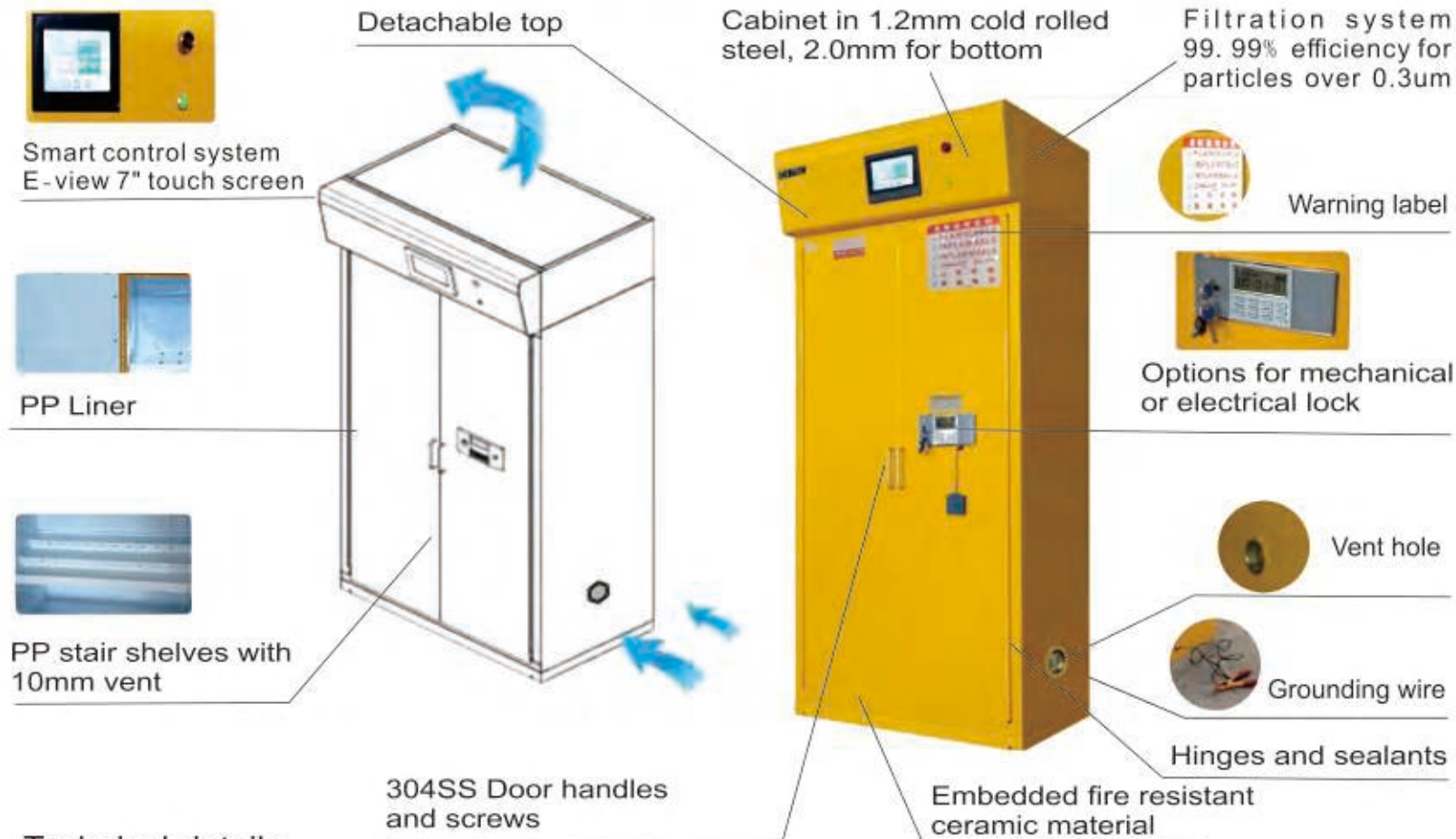
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DRUM SAFETY STORAGE CABINET

Drum safety cabinet is specially used for the storage of one or 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 moving.

Technical details

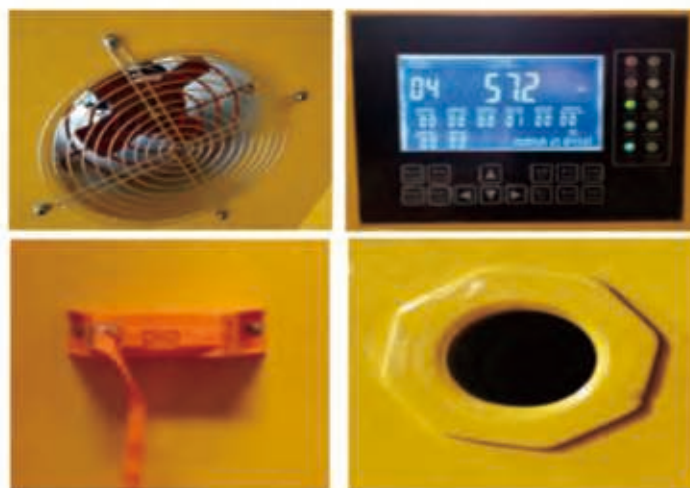| Spec	Capacity (gallon)	Outer Size (W*D*H/mm)	Inner Size (W*D*H/mm)	Weight (kg)	Door Type	Parts
CFS-55OS	60	860*860*1650mm	780*760*1550mm	195	manual	two doors one shelf one earthing cable one drum roller
CFS-55OSA					auto closing	
CFS-110OD	110	1500*860*1650mm	1420*760*1550mm	355	manual	two doors one shelf one earthing cable two drum rollers
CFS-110ODA					auto closing	

Smart control system
E-view 7" touch screen

Detachable top

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

Filtration system 99.99% efficiency for particles over 0.3um

Warning label

PP Liner

Options for mechanical or electrical lock

PP stair shelves with 10mm vent

Vent hole

304SS Door handles and screws

Grounding wire

Hinges and sealants

Embedded fire resistant ceramic material

Technical details

| Spec	Outer Size (W*D*H/mm)	Power	Capacity	Color	Shelf qty	Other Details	Parts Option
CFS-ZY030	1090*460*1400mm	220V/50Hz 40W 2A	30 gal	yellow	galvanized steel board*1	electric secure lock Filter*1set fan*1 7 inch LCD display power line alarming system	PP stepped shelf spare shelf spare filter
CFS-ZD030				blue			
CFS-ZY045	1090*460*1930mm		45 gal	yellow	galvanized steel board*2		
CFS-ZD045				blue			

Features:

1. Welded 1.2mm thickness steel, designed to meet international standards of OSHA and NFPA (CODE 30).Double-walled steel structure for fire proof.

2. Explosion-proof cabinet with double explosion-proof glass and all the other accessories are explosion-proof.

3. Industrial special locking system for security.

4. There is a vent hole on the side of the cabinet to ensure the gas flow in the cabinet.

5. Quality fixed belts to keep the gas cylinder stand.

6. Special options:

- Combustible gas detection alarm: when the gas alarm detects that the gas. concentration reaches the critical point of the lower or upper explosion limit, it will send out an alarm signal.
- Special gas detection alarm: select special gas detection alarm device according to the storage condition of gas cylinder, with high sensitivity and accuracy, more safe and reliable.
- Automatic exhaust system:When the sensor in the cabinet detects the gas leakage and gives an alarm, the top fan will automatically work to discharge the gas out of the room through the exhaust pipe.
- alarming system for temperature or humidity limitations.
- smoke alarm: alarm when the inside smoke concentration exceed the setting value
- auto-closing door.
- Adjustable fold down ramp, for easy loading or unloading the gas cylinder bottle.

Technical details

Spec	Outer Size (W*D*H/mm)	Weight (kg)	Gas Cylinder	Door Type	Options
CFS-GC101	600*450*1900mm	63	single	single	alarm fan
CFS- GC102	900*450*1900mm	90	double	double	

7 inch touch screen
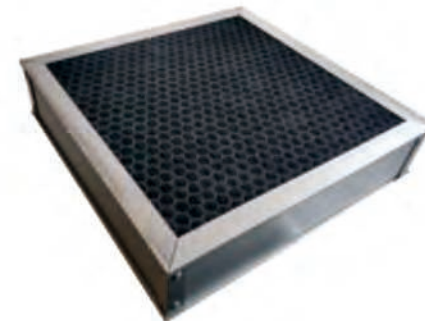
integrated carbon filter

Features:

1. Epoxy ESD coated 1.2mm galvanized steel structure, endurable lead free paint, strong anti-erosion.

2. 7" LCD touch screen panel, smart control for real time VOC, temperature and humidity movement, with resettable alarming system.

3. High efficiency filtration system as per ASTM standard for acid and alkali gas (filtration rage 99% for VOC), also 99.995% filtration rate for particles over 0.3um.

4. Imported PSC fan of USA, stable functioning, ultra-low noise, and without ESD sparkle.

Spec	Outer Size (W*D*H/mm)	Fan Installed (pcs)	Filters (Layer)	Filtration Capacity (m3/h)	Power (W)	Noise	Gross Weight (kg)
CFS-MX600	600*460*460	1	4	240	160	≤60db	37.5

- 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 ℃

Model name	Spec	Inner Size (W*D*H/mm)	Outer Size (W*D*H/mm)	Technical parameters	Shelf qty (pcs)
Desk-top blast drying oven	DCTG-9023A	300*300*270	580*480*440	RT+10-250℃, C220V,50Hz, error 0.1℃/±0.5℃, 500-1050W	2
	DCTG-9053A	420*350*350	700*530*520		2
	DCTG-9123A	550*350*550	830*530*720		2
	DCTG-9203A	600*550*550	880*730*770		2
	DCTG-9025A	300*300*270	580*480*440	RT+10-300℃, C220V,50Hz, error 0.1℃/±0.5℃, 500-2100W	2
	DCTG-9055A	420*350*350	700*530*520		2
	DCTG-9125A	550*350*550	830*530*720		2
	DCTG-9205A	600*550*550	880*730*770		2
Vertical blast drying oven	VCTG-9030A	340*320*320	490*500*560	RT+10-250℃, C220V,50Hz, error 0.1℃/±0.5℃, 500-2100W timing 0-9999min	2
	VCTG-9070A	400*350*500	550*530*760		2
	VCTG-9140A	550*450*550	700*650*810		2
	VCTG-9240A	500*600*750	650*800*1010		2
	VCTG-9420A	600*550*1300	750*750*1560	RT+10-250℃, C220V,50Hz, error 0.1℃/±0.5℃, 500-6000W timing 0-9999min	3
	VCTG-9620A	800*600*1300	950*800*1560		4
	VCTG-9920A	1000*600*1600	1150*800*1860		4
	VCTG-9425A	340*320*320	490*500*560	RT+10-300℃, C220V,50Hz, error 0.1℃/±0.5℃, 4000-7500W timing 0-9999min	3
	VCTG-9625A	400*350*500	550*530*760		4
	VCTG-9925A	550*450*550	700*650*810		4
Vacuum drying oven	VCTF-6020	300*300*275	580*450*450	RT+5-250℃, C220V,50Hz, error 0.1℃/±0.5℃, 500-3500W timing 0-9999min vac.degree 133pa	1
	VCTF-6030	320*320*300	630*510*460		1
	VCTF-6050	415*370*345	720*525*535		2
	VCTF-6090	450*450*450	615*590*1470		2
	VCTF-6210	560*640*600	720*820*1750	RT+10-250℃, C380V,50Hz, error 0.1℃/±0.5℃, 4100-5500W timing 0-9999min vac.degree 133pa	3
	VCTF-6250	700*600*600	1050*760*910		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	$\leq 4 \times 10^{-2}$	$\leq 4 \times 10^{-2}$	$\leq 4 \times 10^{-2}$	$\leq 4 \times 10^{-2}$
	with gas ballast	$\leq 8 \times 10^{-2}$	$\leq 8 \times 10^{-2}$	$\leq 8 \times 10^{-2}$	$\leq 8 \times 10^{-2}$
Ultimate total pressure(Pa)	without gas ballast	$\leq 5 \times 10^{-1}$	$\leq 5 \times 10^{-1}$	$\leq 5 \times 10^{-1}$	$\leq 5 \times 10^{-1}$
	with gas ballast	$\leq 8 \times 10^{-1}$	$\leq 8 \times 10^{-1}$	$\leq 8 \times 10^{-1}$	$\leq 8 \times 10^{-1}$
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

电源

Working temperature
Set value

Dry Cabinet for Humidity Control Storage

- LED display, Honeywell humidity sensor with error of ±3%RH.
- Quality 1mm and 1.2mm cold rolled plate, reinforced structure design, high intensity bearing, every shelf can bear over 100kg.
- 3.2mm toughened glass.
- Zinc alloy lock with air press.
- ROHS certified powder coating technology with Dupont powder, high anti-erosion performance to avoild your stored goods from pollution and static shock.
- AC power 85V-265V50/60Hz, compatible for worldwide application.
- Smart control system and resettable target humidity.
- Compliant with IPC/JEDEC J-STD-033B, and CE certified.
- Addtional options to be added:
  1) data logging system by USB connection
  2) security code lock
  3) humidity/temp alarm system with buzzer or light tower
  4) heating system up to 40℃ or 60 ℃
  5) nitrogen purging system
  6) independent segregated compartments
  7) stainless steel cabinet

Display Panel

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

- Reference humidity and storing goods

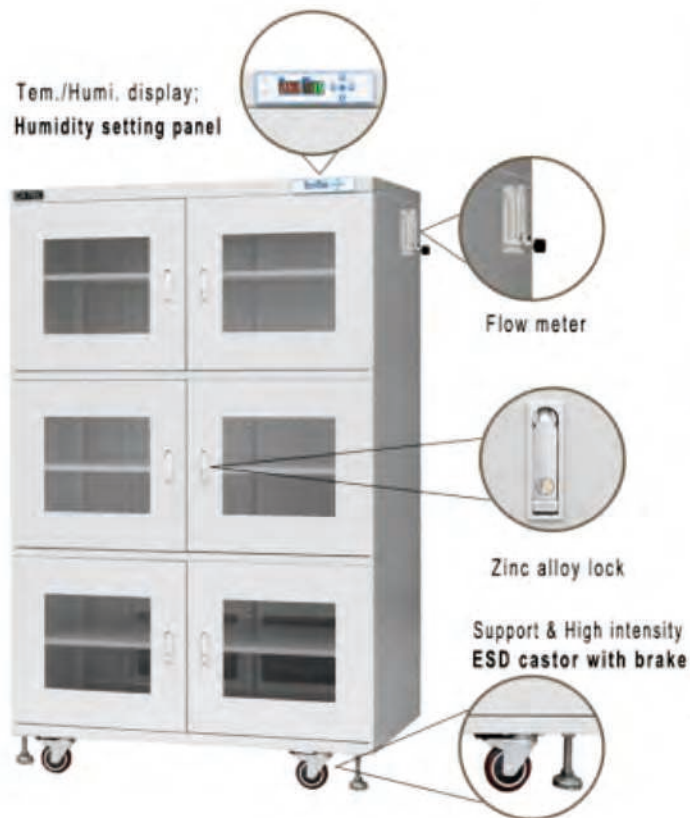| Relative Humidity	Suitable items for storage
A/60~50%RH	Paintings, antiques, paper money, old books, Fax paper, copy paper, etc.
A/50~30%RH	Cameras, CD, LD, technical draw ing, video cameras, lenses, microscopes, endoscopes, binoculars, magnetic tapes, disks, records, films, negatives, positive films, musical instruments, stamps, furs, medicinal materials, tea, coffee, cigarette, leather goods, etc.
A/30~20%RH	Precision dies, measurement instruments, all electronic parts to be stored w ithin 45days, normal PCB, phosphor, metallic pow ders, semiconductors, medical supplies, etc.
B/20~10%RH	Precision electronic parts to be stored w ithin 90days, IC, BGA, special chemicals, lead free PCB, photo couples, XTL, SCR, special samples, measuring tools, seeds, pollen, seedlings, etc.
C/10~1%RH	Materials w hich are typically sensitive to humidity, e.g., high precision IC, BGA, silver articles, copper articles, etc.
U/5~1%RH	Extremely humidity sensitive device w ith materials that are likely to go oxidized like silver, brass, bronze, tungsten, etc., and nitrogen condition is recommended most of ten.

Technical details

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
DRY 98EW	448*400*688	446*372*598	1-50%	8	170	Yes
DRY 160EW	448*4501010	446*422*848		10	170	Yes
DRY 240EW	598*400*1310	596*372*1148		10	170	Yes
DRY 320EW	900*450*1010	898*422*848		10	170	Yes
DRY 435EW	900*600*1010	898*572*848		10	170	Yes
DRY 540EW	598*710*465	596*682*1298		10	260	Yes
DRY 718EW	598*710*1910	596*682*1723		15	340	Yes
DRY 870EW	900*600*1890	898*572*1698		15	340	Yes
DRY 1436EW-4	1200*710*1910	1198*682*1723		25	680	Yes
DRY 1436EW-6	1200*710*1910	1198*682*1723		25	680	Yes

Drying cabinet with smart nitrogen purging system:

- Options for air flow ranges: 5~25LPM, 5~60LPM, or 5~300LPM. The air purging will be cut off automatically when humidity reduced to set target, thus to save customer's N2 supply.

Tem./Humi. display;
Humidity setting panel

Flow meter

Zinc alloy lock

Support & High intensity
ESD castor with brake

Drying cabinet in stainless steel

Drying cabinet with heating for 40℃ or 60℃:

- To meet the demands for some special items that require low temperature baking.available for models of DRY320/ DRY435/ DRY870/ DRY1436.

Oxygen   Humidity

flowmeter

gas inject

Drying cabinet with oxygen content detection:

- The main purpose of humidity control storage is to keep the MSD from oxidation. However, the low humidity does not necessarily mean a low oxygen content. So we add the oxygen content detection system is necessary for those components made of brass, bronze, silver, tungsten, gold, etc. that are most likely to go oxidized.

Drying cabinet with independent segregated compartments:

- Each compartment is an independent working space, when you open one of the compartments the others won't be affected. Available for models of DRY320/ DRY435/ DRY718/ DRY870/ DRY1436.

Drying cabinet with buzzer or light tower alarming

Drying cabinet with drawers

Drying cabinet with nitrogen generator attached:

- Besides humidity controlled by the patented drying module, there's a N2 generator attached to produce endless nitrogen to purge into the cabinet to meet your demand of anti-oxidation. Available for models of DRY870/ DRY1436.

CA TEC SAFETY LOCKER

Application:

- High grade 1mm and 1.2mm cold rolled palte, reinforced structure, high intensity bearing and anti-erosion.
- Convenient for stuff storage and taking-out.
- Sound safety to aviod wrong taking.
- Reliable emergency system:When system error occurs and the door can not open, the administrator can use the administration key to open any compartments. Even if the power is off, the compartments can also be opened by manual.
- Friendly clear LCD wide screen for operation instruction.
- Local radio host recording for storage safety.
- Reliable data recording for checking.
- Best usage of your space.
- CE and RoHS certified.
- Options:IC card,ID card,coin,or self-setting code.

Spec	Cabinet Size (W*D*H/mm)	Box Size (W*D*H/mm)	Power (W)	Color option
CT20	1386*350*1921	274*330*230	85-265V 50-60Hz Standby 10W Working 30W	Blue Green Red etc
CT32	1386*400*1921	274*380*370		