FAV Group of Companies

General











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Z01 Series Sample Cutter



Application

To cut out circular specimens of fixed diameter rapidly, accurately and safely. Virtually any type material can be accommodated, including woven, non-woven and knitted textiles, carpet, film, foam, plastics, paper and board, etc.

Standards

ISO 3801 EN 12127

Key Specification

Model	Z01B	Z01KI	Z01KII
Specimen size	100cm^2	11.3cm^2	154 cm^2
Specimen diameter	112.8mm	38mm	140mm
Specimen thickness		<5mm	
Cut method		Manual	

Z03 Sample Cutter



Application

To cut out circular specimens of fixed diameter rapidly, accurately and safely. It also can determine fabrics weight in unit area sample with the help of electronic balance. Any type of fabric material can be accommodated.

Standards

ISO 3801 EN 12127

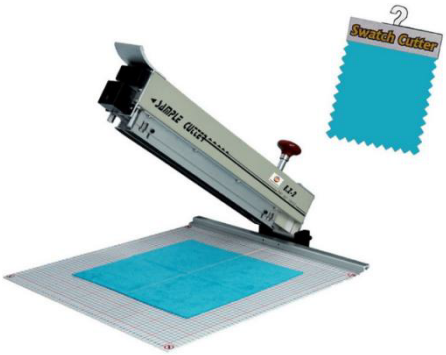
Key Specification

Cutting method	Manual
Cutting area	100cm2
Sample diameter	112.84mm

EZ-2 Swatch Cutter

Application

To cut out specimens of fixed size rapidly, accurately and safely. It can be installed in any table top without limited.



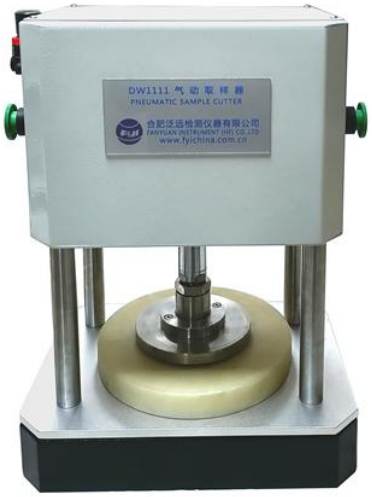
Key Specification

Cutting blade	Dia. 80mm
Cutting thickness	10mm
Cutting length	450mm

DW1111 Pneumatic Sample Cutter

Application

To cut out circular or dumb-bell shape specimens of fixed diameter rapidly, accurately and safely. Virtually any type material can be accommodated, including woven, non-woven and knitted textiles, carpet, film, foam, plastics, paper and board, etc.



Standards

ISO 3801 mass per unit area | EN 12127

Key Specification

Cutting method	Pneumatic
Input pressure	· 0.5Mpa
Cutting pressure	7KN when the input pressure is 0.6Mpa



DW1116 Pneumatic Sample Cutter

Application

To prepare the sample of various sizes in fabric, rubber & plastic, and other field.

Key Specification

Cutting method	Pneumatic
Input pressure	0.4~0.65Mpa
Max. output pressure	3 Ton
Pressure plate size	Φ180mm
Max. cutting size	320*180mm



DW1117 Automatic Sample Cutter

Application

For preparing samples required for physical performance, chemical experiments and other tests in textile, rubber, leather, etc.

Key Specification

Cutter head	Tungsten steel blades
Working mode	Mechanical circular knife rolling cutting
Cutting size	2×2mm, 5×5mm, 10×10mm
Max. sample	180×180mm

T300/400/500/600/800/1000 Manual

Sample Cutting Machine



Application

To cut cotton fabric, wool, silk, hemp, chemical fiber, etc.

Key Specification

Model	Max cutting thickness (mm)	Knife length(mm)
T300	15~50	300
T400	15~60	400
T500	15~70	500
T600	15~80	600
T800	15~100	800
T1000	15~120	1000

T500A/600A/800A/1000A Series

Automatic Sample Cutting Machine



Application

To cut cotton fabric, wool, silk, hemp, chemical fiber, etc.

Key Specification

Model	T500A	T600A	T800A	T1000A
Effective cutting thickness(mm)	50	50	50	50
Blade length(mm)	500	600	800	1000
Tooth pitch(mm)	5	5	5~7	5~7



HZT-B/HZT-A/HZT-A+/HZK-FA Series Electronic Balance

Application

For weighing use, easy operation and maintenance.

Key Specification

Model No.	HZT-B2000/3000/ 5000/6000/10000	HZT-A200/300/500/ 600/1000/2000/3000	HZT-A+100/200/300	HZK-FA110/210
Capacity(g)	2000/3000/5000/ 6000/10000	200/300/500/600/ 1000/2000/3000	100/200/300	110/210
Readability	0.1g	0.01g	0.001g	0.0001g
Sensor	Strain sensor			Split electromagnetic force sensor

Temperature Indicating Strip



Application

To indicate the maximum temperature achieved in textile processing by changing its color.

Key Specification

Temperature Range	40°C～71°C(104°F-160°F) 204°C～260°C(399°F-500°F) 160°C～199°C(320°F-390°F)

7210-00 Quartz Thermohygrograph



Application

For temperature and humidity recording in semiconductor manufacturing plants, environmental laboratories, chemical warehouses, computer rooms, etc.

Key Specification

Range	-15°C ~40°C for temperature 0~100% RH
Temp. accuracy	±1°C for temperature (10 to 30°C, other: ±2°C)
Humidity accuracy	±3%RH (20 to 95%RH at 15 to 25°C, other ±5%RH)

CT100 Psychrometer



Application

For measuring the surrounding wet and dry bulb temperatures, through which the relative humidity and the dew point can be obtained from a single measurement.

Key Specification

Measuring range	-5°C ~ 50°C
Temperature unit	°C, °F

LOG150/160 High Temperature/Pressure Logger



LOG150



LOG160

Application

For measuring and recording temperature on occasions like validating the dye liquor temperature in dyeing machines.Log160 also can record pressure.

Key Specification

Model No.	LOG150	LOG160
Housing Material	Stainless steel	
Temp. range	-40ºC ~ 140ºC	
Pressure range	/	100/300PSI

L95-2 Hygrothermograph



Application

It is used to measure the temperature and humidity of lab in the field of laboratory temperature controlling, scientific research, HVAC system, safety of food and drug, chemical industry and medicine, and other fields

Key Specification

Test item	Temperature and humidity
Range	Temperature: - 40 ~100
	Humidity :0~100%RH

X85-2S Homothermal Magnetic Stirrer



Application

Used magnet stirs to stir liquid in a container.

Key Specification

Temp. range	RT~300°C
Speed range	100~1,500rpm
Stirring capacity	5 liters (H_2O)

D20 Series Electric Stirrer



Application

The Tester is used widely in laboratory for mixing.

Key Specification

Model	D2004W	D2010W	D2015W	D2025W
Motor torque (mN·m)	200	450	600	1000
Speed	60~1,500r/min			

HH-600 Thermostatic Water Bath



Application

Used in drying, concentration, distillation, macerating chemical reagents, macerating drugs and biological products, thermostatic heating and other temperature tests of water bath.

Key Specificatio n

Range of temperature control	RT ~ 99.9°C
Heating power	2kw



HD101 Series Electrothermal Blast Oven

Application

To perform torrefaction, dryness, heat treatment and other high temperature treatment of yarn, fabric, etc.

Key Specification

Model No.	HD101-30	HD101-80	HD101-136	HD101-220
Volume	30L	80L	136L	220L
Input power	850W	1,550W	2,050W	2,450W
Temperature range	RT+10~200			
Fluctuation	±1.0°C			
Resolution	0.1°C			



ZS Series Ultrasonic Industrial Humidifier

Application

Water mist is diffused into the air through pneumatics drive to increase the humidity of the surrounding air.

Key Specification

Control Method / Humidifying Rate	1.8kg/h	3kg/h	6kg/h	9kg/h	12kg/h
Switch Control	ZS-06	ZS-10	ZS-20	ZS-30	ZS-40
Timer Control	ZS-06S	ZS-10S	ZS-20S	ZS-30S	ZS-40S
Humidity Control	ZS-06Z	ZS-10Z	ZS-20Z	ZS-30Z	ZS-40Z



YG751 -80(80L)



YG751 -150(150L)



YG751 -800(800L)

YG751 Series Lab Air Conditioning Chamber

Application

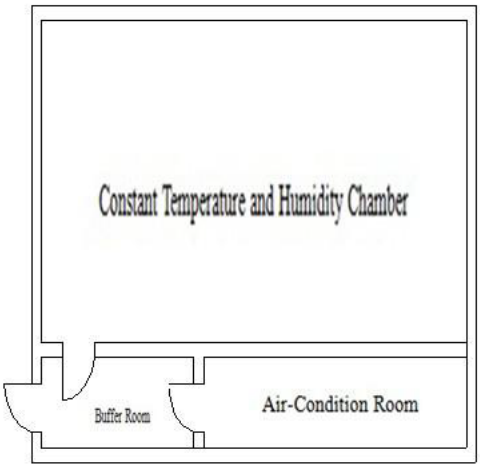
To perform torrefaction, dryness, heat treatment and other high temperature treatment of yarn, fabric, etc.

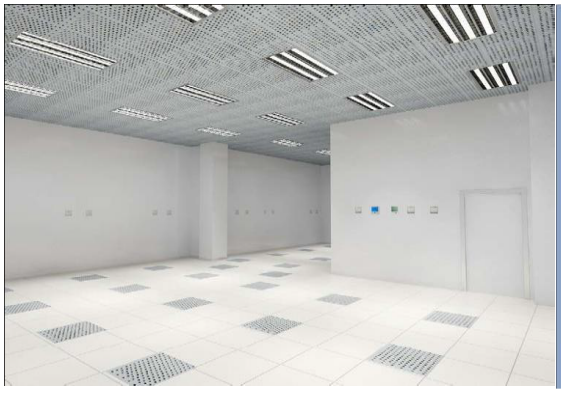
Standards

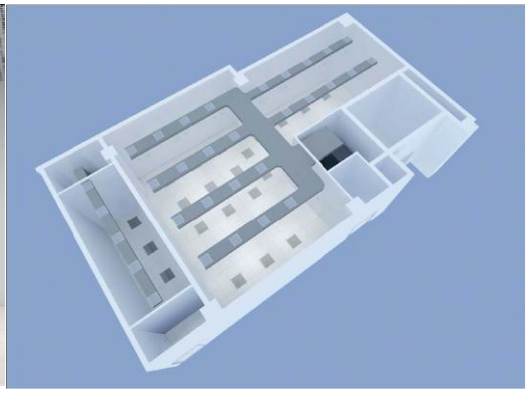
ISO 139 EN 149

Key Specification

Model No.	YG751D-80/ YG751-80	YG751D-150/ YG751-150	YG751-225	YG751-408	YG751-800
Chamber volume	80L	150L	225L	408L	800L
Type	Desktop & Floor type		Floor type		
Temperature range and accuracy	0 ~ 150°C (Desktop & Floor type)/ -20 ~ 150°C (Desktop & Floor type)/ -40 ~ 150°C (Floor type)/-60 ~ 150°C (Floor type) (Please specify before place order), ±2°C				
Humidity range and accuracy	20%~98%RH, ±2%RH				







FYI Series Laboratory Air Conditioning System

Application

Constant Temperature and Humidity System, a whole systematic engineering, uses intelligent devices to keep the temperature and humidity change within tiny range in the enclosed room.

Standards

ISO 139 1973 ASTM D1776 ISO 187 90



RP01 Mini PH Meter

Application

It is an ideal instrument for aquarium, fishing industry, swimming pool, school laboratory, food & beverage, etc.

Key Specification

PH measuring range	0.00 ~14.00 pH
PH resolution	0.01 pH
PH accuracy	±0.1 pH



JENCO6173 Desktop PH Meter

Application

It is a compact desktop instrument, which can get the reliable PH value fast. It is suitable for a wide range of industries, e.g. food, beverage, water treatment, environmental analysis, etc.

Key Specification

PH measuring range	-6.00 ~ 20.00 pH
PH resolution	0.01 pH
PH accuracy	±0.01 pH
Temperature measuring range	-10~120ºC

V5600 Spectrophotometer



Application

It is used to determine the transmittance or absorbance of measured material at specific wavelength or within a certain wavelength range.

Key Specification

Optical System	Double beam
Wavelength range	320~1100nm
Spectral bandwidth	2nm
Light source	Tungsten lamp

UV5500 UV-Visible Spectrophotometer



Application

It is used to determine the transmittance or absorbance of measured material at specific wavelength or within a certain wavelength range.

Key Specification

Optical System	Single-beam, 1200/mm diffraction grating
Wavelength range	190-1100nm
Spectral Bandwidth	2.0nm
Light source	Deuterium/Tungsten Lamp



UV8000 Double Beam UV Visible Spectrophotometer

Application

It is used to determine the material transmittance or absorbance at specific wavelength or within a certain wavelength range.

Key Specification

Model No.	UV-8000	UV-8000A	UV-8000S
Optical System		Double beam	
Wavelength range		190-1100nm	
Spectral Band width	1.8nm	1nm	0.5, 1, 2, 4, 5nm
Light source		Deuterium/Tungsten Lamp	



MASTER -20α



MASTER -80α

MASTER-20α/80αDigital Hand -held Refractometer

Application

For measuring concentration of sizing in textile industry, these sizing may be from starch, PVA or PAA and other samples of low concentration.

Key Specificatio n

Type	MASTER -20α	MASTER -80α
Scale range	Brix 0.0~20.0%	Brix 0.0~80.0%
Minimum scale	Brix 0.1%	Brix 0.1%
Measurement accuracy	Brix±0.2% (10~30°C)	Brix±0.2% (10~40°C)
Repeatability	Brix±0.1%	Brix±0.1%



NDJ-5S/8S　　SNB-1/2/3　　NDJ-5S^{T}/8S^{T}

SNB/NDJ Series Rotary Viscometer

Application

To measure the viscosity property of various fluid or semifluid. It can also measure the dynamic viscosity or structural viscosity of mineral oil, lubricating oil, adhesives, paint, dyestuff and ink.

Standards

ISO 2555 ISO 1652

Key Specification

Model No.	NDJ-5S/5S^{T}	NDJ-8S/8S^{T}	SNB-1	SNB-2	SNB-3
Measure range (cP)	10-100K	10-2,000K	10-600K	10-6,000K	100-80,000K
Speed (rpm)	6, 12, 30, 60	0.3, 0.6, 1.5, 3,6, 12, 30, 60	1-60	0.1-100	0.1-100
Temp. range	(0-100.0)°C (optional)			(0-100.0)°C	
Spindle	4 types: #1, #2, #3, #4 (#0 Spindle is optional)				

DW8260 Soxhlet Extractor (Crude Fat Tester)



Application

For determining grain, feed, oilseeds and various fat products with crude fat content · 0.5%.

Key Specification

Extraction bottle volume	250ml*6
Heating method	Water bath heating



R205B Rotary Evaporator For Vacuum Distillation

Application

It can rotate to form thin film under the condition of constant temperature heating and negative pressure. It achieves high efficient evaporation and condensation recovery by evaporation of solvent at the same time.

Key Specification

Evaporating flask	1000ml/29
Receiving flask	1000ml/29
Rotational speed	0~120rpm, digital display
Evaporation speed (H2O)	>1L/h

WSB-3A Whiteness Tester



Application

To measure objects whiteness, brightness, transparency, opacity, light scattering and absorption coefficient and other optical properties.

Standards

ISO 2469 ISO 2470

Key Specification

Light source	D65
Diameter of the diffuse ball	150mm
Measuring hole	Φ30mm
Zero drift	· 0.1/30min
Display value drift	· 0.2/30min
Show value error	· 0.1
Repeatability	· 0.2

ML10003 Magnifying Glass



Application

Used in electronic process, machining, chemical analysis, biological, drawing, art, PCB, gold and silver jewelry, stamp collecting, reading, writing, painting, etc.

Key Specification

Magnification	10×
Lens diameter	127mm
Light source	Adjustable LED ring light



XPL3200 Series Polarizing microscope

Application

It used to highlight the characteristic of various anisotropic samples.

Key Specification

Optical system	Infinite chromatic aberration correction optical system
Optical magnification	50-600X
Observation method	Single polarization, quadrature polarization, cone polarization
Observation tube	Trinocular head, 30° inclined, 100% same-light photography is possible
Eyepiece	High eye point, wide field flat field eyepiece PL10X22mm
Objective lens	Stress-free planar achromatic objectives 5X, 10X, 40X, 60X
Objective changer	Four-hole, adjustable converter center
Microscope body	Rotating stage, diameter 150mm, 360° aliquot, vernier value 6, center adjustable
Upper lighting system	Halogen lamp, brightness adjustable, built-in field light bar, aperture light bar
Lower lighting system	Halogen lamp, brightness adjustable; It can be rotated 360°
Condenser	Abbe condenser has a numerical aperture of 1.25 with variable light bar
Polarizing device	Can be rotated 360°
Analyzer	Can be rotatable 360° with scale and minimum vernier





DZQ130/DZS-5/10/20 Series Stainless Steel Electric Distiller

Application

It's a preparation of distilled water unit equipment, with electric heat pipe heat source and ordinary tap water as raw water and cooling water.

Key Specification

Model No.	Water yield(L/h)	Power supply
DZQ130-5	·5	AC220V, 50Hz
DZQ130-10	· 10	AC380V, 50Hz
DZQ130-20	· 20	AC380V, 50Hz
DZQ130-50	· 50	AC380V, 50Hz
DZQ130-100	· 100	AC380V, 50Hz
DZS-5	5	AC220V, 50Hz
DZS-10	10	AC380V, 50Hz
DZS-20	20	AC380V, 50Hz



DT-2350P Series Handheld Stroboscope

Application

It is used to observe fast repeated motions and determine RPM of moving parts by "freezing" or "slowing down" the movement.

Key Specification

Model No.	DT-2350PA	DT-2350PB	DT-2350PC	DT-2350PD	DT-2350PE
Testing Range			50 ~ 12,000 FPM		

PT-L200A Handheld LED Stroboscope

Application

It is applicable to printing industry, paper industry, textile industry, steel cold rolling, large generators, aluminum foil industry, machinery manufacturing and other industries.

Key Specification

Model No.	PT-L200A	PT-L200B
Number of lamp beads	84	144
Frequency	50rpm~36000rpm	
Operating time	1~250min, settable	



PT-L200A

6236P Digital Tachometer



Application

To measure rollers, spindles and other rotary parts operating speed.

Key Specification

Measuring Range	Opto mode: 10~99,999 rpm Contact mode: 1.0~19,999 rpm Contact wire-speed mode: 1.00~1999.9 m/min
Resolution	Opto mode: 0.1 rpm (2.5~999.9 rpm); 1 rpm (· 1000 rpm) Contact mode: 0.1 rpm (0.5~999.9 rpm); 1 rpm (· 1000 rpm) Contact wire-speed mode: 0.01 m/min (0.05~99.99 m/min); 0.1 m/min (· 100 m/min)

LX-C/HS-C Shore Durometer



Application

To determine the Shore C hardness of low hardness materials, such as bobbin yarn, foam, sponge, etc.

Key Specification

Model No.	LX-C	HS-C
Type	Dial	Digital
Resolution	1HC	0.1HC
Measuring Range	0~100HC	
Recommended Measuring Range	10~90HC	
Travel of Indenter	2.5mm	
Indenter Head Size	SR 2.5mm	





SP-1500/5000 Spray Dryer

Application

For drying the liquid material with low thermal sensitive temperature and high viscosity.

Key Specification

Model No.	SP-1500	SP-5000
Max. capacity	1500ml/h	5L/h
Electric heating power	3KW	18KW
Temperature range of inlet air	30 ~280°C	30 ~250°C
Temperature range of outlet air	30 ~120°C	60 ~90°C

TDL-50B Desktop Centrifuge

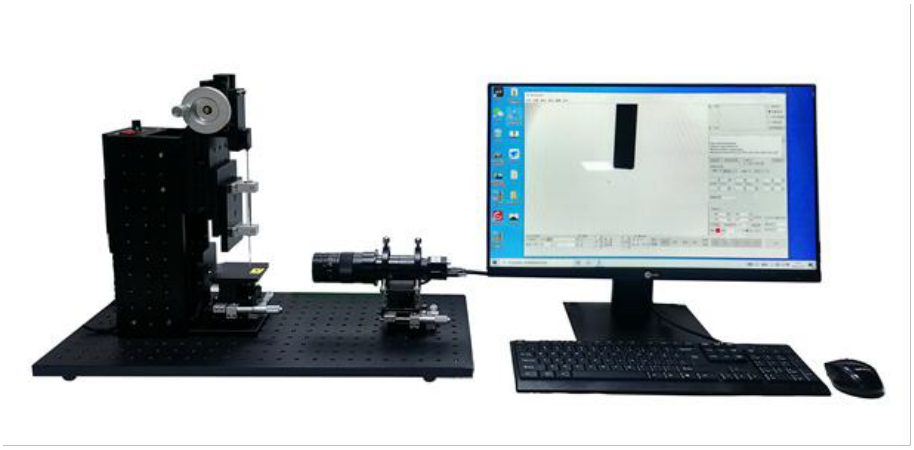
Application

Equipment that uses the centrifugal force generated by the rotor rotating mechanism to separate different substances.

Key Specification

Max. speed	5,000rpm
Capacity of swing bucket	15ml
Max. relative centrifugal force	3,800(×g)
Timing range	0~99min





V5 Contact Angle Measurement System

Application

To measure the contact angle of liquid to solid surface.

Key Specification

Specimen stage control	Horizontal movement (X, Y)	Manual stroke: 25mm accuracy: 0.02mm
	Vertical movement (Z)	Manual stroke: 10mm accuracy: 0.02mm
	Specimen stage	60*60mm
Lens stage control	X movement	Stroke: 25mm accuracy: 0.02mm
	Y movement	Stroke: 10mm accuracy: 0.02mm
	<5mm Z movement	Stroke: 10mm accuracy: 0.02mm
	Distance between the lens and the needle	100~125mm adjustable, adjustment accuracy: 0.02mm
Injector	Syringe specification	50uL, syringe accuracy 1uL
Imaging system	Lens	Microscope lens, optical magnification 0.7~4.5x, total magnification 37~1192
	Camera	Industrial camera, resolution: 1280*1024, image speed: 15 frames/second, standard image format conversion, no image deformation
	Light source system	Adjustable brightness monochromatic cold light LED light source, image edge clearer Adjustment mode: knob adjustment
Contact angle measurement range		0°＜θ＜180°, accuracy 0.1°



3200 Surface Roughness Tester

Application

To measure surface roughness of many kinds of machining parts.

Key Specification

Parameters of roughness	Ra, Rz, Ry, Rq, Rt, Rp, Rv, Rmax, R3z, RSk, RS, RSm, Rmr
Measurement range	Ra: 0.025~12.5· m
Display range	Ra, Rq: 0.005~16·m , Rz, Ry, Rt, Rp, Rv, Rmax, R3z: 0.02~160·m ; RSk: 0~100%; RS, RSm: 1mm; Rmr: 0~100%(%Rt)
Range	ffl20·m , ffl40·m , ffl80·m
Max. resolution	0.001·m
Cut-off length	0.25mm, 0.8mm, 2.5mm, automatic
Evaluation length	1L-5L(optional), L is cut-off length
Error	·ffl 10%
Communication	RS232 interface



3231 Surface Roughness Tester

Application

It is used to assess the surface quality. Roughness, waveness and primary profile of varieties of parts can be measured by multi-parameters.

Standards

ISO 4287

Key Specification

Assessed profile	R: Roughness, W: Waveness, P: Primary profile
Parameters of roughness	Ra, Rz(ISO), Rz(JIS), Rc, Rq, Rt, Rp, Rv, Rmax, R3z, R3y, RSk, RS, RSm, Rmr, Rlo, RHSC, Rpc
Parameters of waveness	Wa, Wp, Wv, Wt, Wz(ISO), Wq, Wsk, Wc, WS, WSm, Wlo, WHSC, Wpc, Wmr(c), Wz(JIS)
Parameters of primary profile	Pa, Pp, Pv, Pt, Pz(ISO), Pq, Psk, Pc, PS, PSm, Plo, PHSC, Ppc, Pmr (c), Pz(JIS)
Parameters of RK	Rk, Rvk, Rpk, Mr1, Mr2
Filtering	RC, PCRC, GAUSS, RK(ISO13565)
Cut-off length	0.08mm, 0.25mm, 0.8mm, 2.5mm, 8mm
Evaluation length	1L-5L(optional), L is cut-off length
Sensor range	800·m
Resolution	0.001·m/50·m ; 0.016·m/800·m
Error	±5%
Data output	RS232 / USB



TF Series Lab Fume Hood

Application

It is one component of an exposure control system which is designed to contain, dilute and disperse gases, vapors and aerosols to the external environment.

Key Specification

Model		TF-1200	TF-1500	TF-1800
Outside dimensions	Top (mm)	1,200*850*1,500	1,500*850*1,500	1,800*850*1,500
	Bottom (mm)	1,200*790*850	1,500*790*850	1,800*790*850
Internal dimensions (mm)		954*705*1195	1,254*705*1,195	1,554*705*1,195
Air exhaust rate (m^3/h)		1300	1700	2100