

**YSI**

# *Refrigeration Equipment*



**YORCO**

S A L E S P V T . L T D .

**MODEL NO.: YSI-240****YSI DE-HUMIDIFIER**

—Self Standing with castor wheels

Dry air is essential to manufacture Tablets, Capsules, etc. Similarly high humidity causes damage to materials during storage as well as delicate equipments and instruments in Research Laboratories. De-Humidifier solves all these problems by removing Excess Moisture from the room air. Removal of moisture helps in improving the product quality and production speed and keeps the instrument performance accurate even in adverse atmospheric conditions. Humidity is controlled by imported Humidistat and measured by Hygrometer/Dry-Wet thermometer & chart.

De-Humidifier is a compact portable unit controlling humidity upto 30% with an accuracy of +3%. This is available in 1 tonne capacity to cover approx 100 sq. ft. & 1.5 tonne capacity to cover approx 150 sq. ft. of floor area. The unit does not alter the room temperature. To maintain the better working condition for the persons to work inside the room the area should further be air conditioned and sealed properly, and minimum number of persons be allowed inside and avoid frequent opening of the door. De-Humidifier is supplied with castors wheels for easy



mobility and built in tray of capacity 5 Ltrs (Approx) for collecting water. Maximum height : - 90cm  
Suitable to work on 220 V, single phase, 50 Hz, Ac supply.  
Capacity : - 1.0 Ton, 1.5 Ton

Optional Accessories:

- (a) Control Box with Humidistat for controlling humidity.
- (a) Digital Microprocessor Humidity controller cum Indicator controlling & indicating Humidity in % directly.

**MODEL NO.: YSI-250****YSI FREEZER DRYER**

-Lypholizer

YSI Freeze Dryer covers a range of applications from multi user centralised laboratory applications, pilot plants etc. It is a free standing, castor mounted unit with a fully accessible cabinet. It is supplied with a powerful double stage vacuum pump. Standard Laboratory Model with Hermetically sealed reputed make compressor gives temperature upto  $-40^{\circ}\text{C}$ . Environment friendly CFC free refrigerant is used and PUF Insulated for better efficiency. Condenser trap is provided at nonmagnetic stainless steel dished bottom for complete effluent removal.

Refrigerant coils made of copper are heavily insulated for maximum efficiency. Temperature is adjustable upto  $-40^{\circ}\text{C}$  and is maintained automatically by Digital Temp. Controller. Vacuum drum having 22.8 cm dia and 25.4 cm height is made up of nonmagnetic stainless steel with perspex top cover and incorporates 8/12 quick seal valves/ports for manifold drying. Double stage vacuum pump with gas blast giving vacuum  $1 \times 10^{-3}$  torr Mc lode Gauge. Sample port having 12.5 mm outer dia provided for quick drying. Electronic vacuum indicator, PIRANI gauge is used. Specially designed Digital temperature indicator



to read temperature as low as  $-40^{\circ}\text{C}$ , mounted on front panel. Aesthetically designed cabinet in steel gives a pleasant look.

Suitable to work on 220V, Hz Ac supply.

Capacity : 3 liters, 5 liters.

Optional Accessories :

- Secondary unit.
- Pre freezing attachment for  $-20^{\circ}\text{C}$ .
- Voltage Stabilizer -5kva.



**MODEL NO.: YSI-255**

**YSI ULTRA CRYOSTAT TABLE TOP**

—Constant Temp. Bath

Salient Features : Ergonomic and Convenient Design, Environment friendly CFC Free refrigerant used and PUF insulated for better efficiency, Easy to maintain

The body of the bath is mounted on sturdy angle iron frame with inner chamber made of thick polished stainless steel with cooling coil duly soldered on the outside of the same to ensure homogeneous temperature inside. The outer wall is PCRC sheet duly pre treated and powder coated paint for longer life. The hollow space between the inner chamber and outer wall is filled with high grade insulation to prevent loss of temperature. The refrigeration system consisting of hermetically sealed ISI marked reputed make compressor for minimum noise level and smooth operation, guaranteed for performance from original manufacturer. Incorporated with other quality components, it ensures a high degree of reliability over a long period. Temperature range from ambient to  $-20^{\circ}\text{C}$  controlled by Microprocessor based Temp. Controller-cum-digital display. Suitable to work on 220 V, single phase, 50 Hz, AC supply.

**MODEL NO.: YSI-265**

**YSI REFRIGERATED WATER BATH**

The body of the bath is mounted on a sturdy angle iron frame with inner chamber consisting of thick polished stainless steel reservoir with cooling coil continuously soldered on the outside of the same to ensure perfect cooling effect to achieve  $+ 0^{\circ}\text{C}$ . The outer wall is made of thick CRC sheet pre treated and powder coated paint for longer life. The hollow space between the inner chamber and outer wall is filled with high grade insulation to prevent loss of temperature. The Environment friendly CFC Free refrigeration system consisting of Hermetically sealed ISI marked reputed make compressor for minimum noise level and smooth operation. Coupled with other quality components, it ensures a high degree of reliability over a long period.

Heating system comprises of ISI marked immersion type heating element for attaining temperature above ambient. A glass viewing window is provided for having an inside view of the Working Chamber. The unit is provided with a high performance circulation pump to circulate the inside fluid to ensure a constant and uniform temperature throughout. The circulation system is also provided with outlets to externally circulate the water/fluid, for example in the condenser coil of Soxhlet's apparatus/Rotary evaporator etc.

Available in following working chamber sizes :

- Mini size : Cap. 1500 ml
- Regular size : 250 x 250 x 250 mm

Optional Accessories :

- Stabilizer 2 KVA

**MODEL NO.: YSI-256**

**YSI ULTRA LOW TEMPERATURE BATH**

Description same as per YSI-255 but temp. range from  $-20^{\circ}\text{C}$  to  $100^{\circ}\text{C}$ . Both sizes can be supplied.

**MODEL NO.: YSI-257**

**YSI ULTRA LOW TEMPERATURE BATH**

Description same as per YSI-255 but temp. range from  $-30^{\circ}\text{C}$  to  $60^{\circ}\text{C}$ . Both sizes can be supplied.



The unit serves the dual purpose i.e. it can be used as a stand alone unit, as well as, a part or subsystem of some bigger system. Temperature Range  $0^{\circ}\text{C}$  to  $90^{\circ}\text{C}$  Microprocessor based Digital Temperature Controller cum Indicator incorporating highly reliable RTD-Pt. 100 and CMOS ICs for noise immunity.

Working Chamber: S.S. : 500 x 250 x 250 mm

Optional Accessories (YSI-256, 257, 265) :

- Stabilizer-3 KVA

REFRIGERATION

**MODEL NO.: YSL-270**

**YSI -20°C MEDICAL FREEZER**

The Medical Freezer offers effective storage of Ice floe, goods which need to be frozen. It is suitable for hospital, antiepidemic stations, blood bank, university laboratories, Refrigeration System

- Applied with international brand compressor condenser fan, tube condenser, Unique refrigeration technology to make

Structural Design :

- Overall are angle design makes appearance more concise and soft.
- Upright side door with build-in handle for easy-opening, limit door hinge to prevent collision when door open.
- Inner Chamber is made of Polyester joint less to avoid more cooling leaking out, and provide more stable inside. temperature performance outer is made of CRC Powder coated.
- High adjustable shelves with plastic coated steel.
- Build-in lock with safety and beauty.
- Four caster design for customer to move as needed.

Safety Guarantee :

- Multiple alarm modes like : High/low temperature alarm, sensor malfunction alarm, to ensure the safety storage inside, audible and visible alarm mode.
- Protect function like, boot time delay, stop spacing to ensure stable and reliable running.
- Controller password protect function to avoid change running parameter randomly (optional).
- Micro-Processorbased temperature control systemwith high precision for good uniformity inside.

Electric Control :

- Micro-Processor based temperature control system with our own property rights, LED digital temperature display with can

Horizontal Type (Chest)

Capacity	Inside Size (W x D x H)mm	Input power
110L	410 x 410 x 654	145W
165L	430 x 780 x 480	160W
225L	430 x 1080 x 480	207W
350L	530 x 1080 x 625	320W
500L	530 x 1400 x 685	375W



- set the temperature between -10°C --25°C to assure the uniformity inside freezer
- Wide voltage band for ±10% on 220/50Hz, 1 Phase.

Material Use :

- The Data Body is made of cold plate in and out, and the surface is treated with advance anti corrosion phosphatic spraying process with elegant powder coating which makes it durable & reliable.
- Foam material: Foamed with international popular high density,non-CFC foam material for better heat preservation effect, less deformation.
- Refrigerant : environmental Hydrocarbon refrigerant.
- Available both Upright & Chest Model in various capacity.

Vertical Type (upright)

Capacity	Inside Size (W x D x H)mm	Input power
270L	440 x 440 x 1490	370W
450L	530 x 626 x 1356	450W



**MODEL NO.: YSL-273Ex**

**YSI ULTRA LOW TEMPERATURE RESEARCH CABINET**

The Ultra-low Temperature Freezer offers a wide variety of research and storage applications, such as low temperature scientific experiments, preservation of plasma, biomaterial, tunny, biological product and testing low-temperature-resistand properties of military products. It is suitable for blood bank, hospitals, sanitation and antiepidemic, sanitation, research institutes, electronic industries, university laboratories, military in dustries, pelagic fishery companies.

**Control System:**

- Microprocessor-based temperature controller, -10°C ~ -86°C can be set freely, controlling precision is it , Digital temperature display Keyboard lock and password protected configuration page, Delayed start and safe stop interval between restart and being terminated Audible and visual alarm: High or low temperature alarm, Power failure alarm, Low battery alarm, Door open alarm, Filter blocking alarm, system failure alarm.
- Power supply: 200V/50Hz 1 phase,

**Structure Design:**

- Upright type, Stainless steel interior, Outer is painted steel panel, 4 units Casters for easy handing Front opening lockable door with full height handle, with Vacuum release port Adjustable 2-3 stainless steel shelves with inner door, double silicon gasket seal, Two-times foaming technology, 100-155mm foaming insulation, with VIP+ . With temperature printer, optional record 7 days data, 72 hour battery backup for printer and controller display, Optional: Chart recorder, Co2 backup system, storage racks/boxes, Remote alarm system.

**Refrigeration System:**

- Imported Danfoss compressor, Two units compressors in parallel connection, to reduce noise and improve the cooling temperature come to -86°C steady.
- Fan electromotor with internationally famous of Germany EBM
- Unique refrigerant technolosing mixture refrigerant, which composed of R134a, R404a, R23, R410A, N2 and so on, CFC free Certificate: CE, ISO9001, IS013485 CE Marked



REFRIGERATION

Capacity	Inside Size (WxDxH)	Input Power
100 L	450 x 450 x 500	800W
200L	528 x 470 x 768	1000W
300L	580 x 450 x 1200	15000W
400L	740 x 450 x 1200	1800W
538L	662 x 600 x 1330	2000W

**MODEL NO.: YSI-274**

**YSI COMBINED REFRIGERATOR & FREEZER**

Technical specification

Effective Capacity : 253 L(Refrigerator room 154L, Freezer room 99L)

Temperature range : Up room: +2°C to 8°C

Down room : -10°C to 40°C

Control System:

- Microprocessor -based temperature controller allows independent control of temperature in the upper room within 2°C-8°C, in the lower room within - 10°C--4°C, all can be set freely.
- LCD display, to make clear the temperature information.
- Perfect audible/visual alarm: High or low temperature alarm, system failure alarm Power supply: 220V/50Hz 1 phase.

Structure Design:

- Upright type, Outer is painted steel/board,inner is ABS material.
- Double sealing design with lock, Rotatable sure-grip door



- handle.
- 4 Casters provided for easy handling
- Upper room with 3 unit shelves, lower room have 3 drawers.

Refrigeration System:

- 2 units compressor for separate room and EBM fan motor
- Refrigerant as R507 and R1 34a, CFC free
- Special refrigeration circulation technology.
- Certificate: IS09001, IS013485, CE Marked

**MODEL NO.: YSI-272**

**YSI ULTRA LOW TEMPERATURE RESEARCH CABINET**

The Ultra-low Temperature Freezer offers a wide variety of research and storage applications, such as low temperature scientific experiments, preservation of plasma, biomaterial, vaccine, biomedical, properties of military products. It is suitable for research institutes, electronic industries, chemical engineering industries, hospitals, sanitation and antiepidemic stations, university laboratories, military industries.

Control System:

- Microprocessor-based temperature control, temperature range: from -10°C to -40°C, can be set freely. LCD display, to make clear the temperature functions.

Perfect audible/visual alarm:

- High or low temperature alarm, system failure alarm Power supply: 220V/50Hz 1 phase, can be changed as 220V 60Hz or 110V 50/60Hz.

Structure Design:

- Upright type, ABS/ St. Steel material interior, Outer body is painted steel board.
- The safety lock on the door, with door handle.



- 4 units Caster provided for easy handling.
- 4-7 units drawers made of plastic inside.
- Optional: chart recorder

Refrigeration System:

- The Danfoss compressor and EBM fan motor from Germany. Refrigerant as R507, CFC free
- Certificate: CE, IS09001, IS013485, CE Marked

Horizontal Type (Chest)

Capacity	Inside Chamber
110L	Aluminum
270L	St. Steel
350L	St. Steel
530L	St. Steel

Vertical Type (Upright)

Capacity	Inner Chamber
90L	ABS Material
270L	ABS Material
350L	St. Steel
530L	St. Steel



**MODEL NO.: YSL-275**

**YSI BLOOD / VACCINE  
TRANSPORTATION BOX**

**Purpose**

- To store and transport blood, serum, plasma, vaccine, reagents and special medicine in medical industry Also used as medicines pass box for epidemic prevention station, blood bank, health center, CDC, animal husbandry bureau, army and logistic service express company, pharmaceutical factory, genetic engineering.

**User Friendly Design**

- The whole roll structure prevents collision damage.
- Multilayer stacking.

**Safety Guarantee**

- Functional alarm system with audible and visible. Remote control.
- Constantly alarm after power off.
- Keyboard likable.

**Product Features**

- Multiple voltage used as AC220V or DC12V/24V, power supply of cigarette lighter.
- Whole roll PE structure
- Combined with air cold and direct cooling mode. Multi-function : Inner temperature adjust from -25°C to 30°C, (heat able), temperature fluctuation between with 1 °C.



REFRIGERATION

Model	YSL -275 90 Liters	YSI-275 30 Liters
Storage Capacity	90 Liters span load 50 bags 450m1 blood OR 30 Liters	90 Liters span load 50 bags 450m1 blood OR 30 Liters
Temperature	4°C or 22°C	4°C or 22°C
Ambient Temp.	-5°C to 43°C	-5°C to 43°C
Working Voltage	DC12 / 24V / AC100-240V 50 / 60Hz Automatic selection	DC12 / 24V / AC100-240V 50 / 60Hz Automatic selection
Compressor	Danfoss compressor	Danfoss compressor
Alarm Functions	High / Low temp. alarm, visual & audible	"
Material	Whole LLDPE	Whole LLDPE
Insulation	50mm	50mm
Outer Size	1000*565*862mm (L x W x H)	615*370*471mm
Inside Size	494*365*540mm (L x W x H)	364*253*352mm
Optional	Hydraulic support bar, Remote alarm system	"

**MODEL NO.: YSI-580****YSI MEDICAL REFRIGERATOR**

## Scope of Application

- Suitable for storage of biological products, vaccines, drugs, reagents, etc. Suitable for use in pharmaceutical factories, hospitals, centers for disease prevention & control, clinics, etc.

## Control Panel

- High- brightness digital display enable users to set temperature within a range from 228C, and the precision of temperature Display reaches 0.1°C

## Refrigeration System

- Equipped with environmentally -friendly Freon-free refrigerant R134a and compressor supplied by an international famous brand, the refrigerator is characterized by fast refrigeration and low noise .

## Temperature Testing Port

- The cabinet is equipped with a testing port on the left side based on the standard configuration, bringing convenience to users in testing temperature inside the cabinet.

## Electrical Heating Glass Door

- The design of double- layer electrical heating glass door can prevent condensation on the door in an effective way.

## Security System

- The well-developed alarm system(sensor failure alarm, door opening alarm, high temperature/low temperature alarm, etc.) makes it safer for storage.
- Turn-on Delay & Stopping Interval Protection.
- The Door is equipped with a lock, preventing it from opening accidentally.



## Human - oriented

- The high-quality steel wire shelves are easy to clean and convenient for storage and removal of things.
- The 8 LED lamp beads ensure high brightness, high visibility and no blind corner.

Model	Capacity	Inside Size(WxDxH)mm	Input Power	Number of Shelves
YSI-580	260 L	445 x 525 x 1070	215 W	3
YSI-580	300L	445 x 530 x 1265	215 W	3+1





**MODEL NO.: YSI-580**

**YSI 2 ~ 8°C Medical Refrigerator**

Scope of Application

- Suitable for storage of biological products, vaccines, drugs, reagents etc. Suitable for use in pharmacies, pharmaceutical factories, hospitals, centers for disease prevention & control, clinics, etc.

Control Panel

- Equipped with HD Digital temperature display with a display accuracy of 0.1°C.
- The refrigerator is equipped with a temperature record printer and a backup battery.

Refrigeration System

- Equipped with international famous EMB fan.
- The cabinet has built-in-high-sensitivity temperature sensors ensuring accurate and constant temperature within a range from 2°C to 8°C inside it.
- Equipped with an energy-saving and high-efficiency compressor supplied by an international famous brand and environmentally-friendly Freon refrigerant R134a.

Refrigeration System

- Equipped with international famous EMB fan. The cabinet has built-in-high-sensitivity temperature sensors ensuring accurate and constant temperature within a range from 2°C to 8°C inside it.
- Equipped with an energy-saving and high-efficiency compressor supplied by an international famous brand and environmentally-friendly Freon refrigerant R134a.

Intelligent Temperature Control

- Equipped with a high-efficiency air-cooled condenser and a finned evaporator, ensuring fast refrigeration.



Electrical Heating Glass Door

- The refrigerator has a transparent double-layer thermal insulating glass door with the anti-condensation heating function.
- Equipped with stainless steel liner, which is corrosion-resistant and easy to clean.

Human - oriented

- The high-quality steel wire shelves are easy to clean and convenient for storage and removal of things.
- Equipped with 4 casters, with the front casters lockable.
- The door is equipped with a lock-preventing it from opening accidentally.

REFRIGERATION

Model	Capacity	Input Power (W)	Temperature (°C)	Internal Dim.(WxDxH)	Number of Shelves
YSI-580	500 L	460	2~ 8°C	590 x 675 x 1445	5
YSI-580	1000L	650	2~ 8°C	1080 x 630 x 1420	3x2
YSI-580	1500L	960	2~ 8°C	1680 x 640 x 1420	Standard Configuration 5x3 (The 7x3 Configuration is optional)



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