

# STALWART

**-86°C EcoTouch ULT Freezer  
STF-588E**



**7" touch screen**

including microprocessor control and monitoring system is installed in eye level, all controls and displays are easy to operate and read.

**Exterior cold-rolled steel cabinet**

with a powder coat paint finish for a uniform exterior that anti-corrosion and anti-rust

**Interior #304 Stainless steel** with round corner for durable use and easy cleaning.

**2 stainless steel inner**

doors with ergonomic latch, double seals and foaming insulation reducing cold air leakage and ensure quick temperature recovery after door open.

**#304 Stainless steel shelves**

with adjustable height are easy for various samples storage.

**Pressure release port**

permits easy access after door closing.

Outer door with double gaskets, better for insulation

**4 casters with brake** are easy for moving

**Easy-to-remove and washable filter**

provides protection from dust on the condenser, increasing refrigeration performance.



# Introduction

-86°C EcoTouch ULT freezer is designed with 7" touch screen for easy observation and operation. It is built by two compressors' cascade refrigerant system which ensure the valuable bio samples in reliable and safety storage temperature. It is also energy saving by using hydrocarbon refrigerant. Interior is made of #304 stainless steel for easy cleaning and durable use. The EcoTouch ULT freezer optimizes sample storage capacity within a small footprint. There are 4 models with different capacities for users optional.

# Features

## A Smart Freezer

- 7" touch screen, easy observation & convenient operation
- Historical temperature curve and alarm records on screen
- Self-diagnostic, automatic check & alarm for key components
- Standard USB port, download data conveniently



## A Green Freezer

- Non greenhouse gas is used, an environmental friendly freezer.
- Hydrocarbon two compressor cascade cooling system for super low power consumption.

## A User-Friendly Freezer

- SUS304 interior with round corner for easy cleaning & rust free
- Document pocket to put paper, create a stylish lab
- Maximum sample storage capacity with an optimum footprint
- Special noise reduction design, a real quiet lab partner
- Optional electric lock for safety and convenient administration



Foamed inner door with latch



SS304 inner door latch



SS304 interior, figure marked strip and sensor



Protection against Wall



Washable filter



Heavy-duty caster with lock



Testing port



7-day circular chart recorder is Optional

## Specification

	Model	STF-588E
Technical Data	Type	Upright
	Capacity(L/cu ft)	588/20.76
	Inner doors	2 pcs, SUS304 forming door
	Shelves	3 pcs, SUS304
	Inner chamber material	SUS304
	Cooling type	Direct cooling
	Refrigerant	Hydrocarbon, CFC Free, Non greenhouse gas
	Noise level (dB)	51
Temperature	Ambient temperature(°C)	10~32(°C)
	Temperature range(°C)	-40~-86(°C)
Cooling & Controller	Cooling	Two compressors
	System	cascade system
	Compressor Brand	SECOP
	Sensor	PT100
	Controller	Microprocessor
	Display & Control	7" Touch Screen
Electronic parameter	Voltage/Frequency	220~240V 50/60Hz 110V 60Hz
	Power (W)	815
	Power Consumption (kWh/24h)	12
Vials load	2ml Vials (pcs)	40000
Size & Weight	Internal (W*D*H) mm	606×738×1310
	External (W*D*H) mm	880×1080×2000
	Packing (W*D*H) mm	970×1140×2190
	Net/Gross weight (kg)	249/275
Alarm System	High/low temperature	√
	Power off failure	√
	Abnormal voltage	√
	Sensor error	√
	Filter screen check	√
	Controller failure	√
	Low battery	√
	Condenser malfunction	√
	High ambient temperature	√
	Door ajar	√

## Specification

Accessories	Caster	4
	Test hole/Diameter	1/25mm
	Remote alarm contact	√
	USB Port	Y
	RS232/485 port	Optional
	Temperature recorder	Optional
	Freezer racks	Optional
	CO2 backup system	Optional
	LN2 backup system	Optional

## Application

The -86°C ULT freezer is specially designed for a stable ultra low temperature storage condition, to store germs, erythrocytes, leucocytes, viruses and many other biological materials. Installations can be found in research institutes, pharmacy industry, clinical labs, blood banks and laboratories in electronic & chemical plants.