

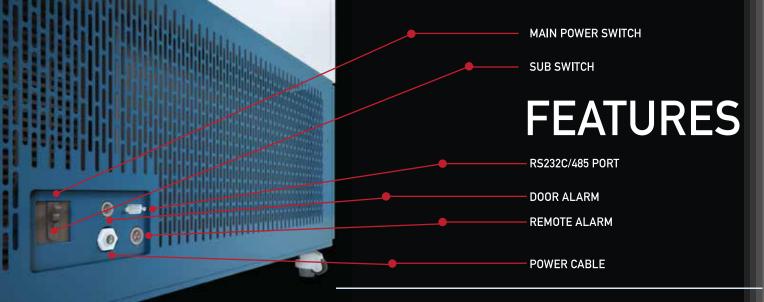


# TWINCORE

THE ONLY ULT FREEZER WITH A REDUNDANT REFRIGERATION SYSTEM







7" Touch-screen controller with WizBox system - Setpoints, alarms, diagnostics, password, freezer ID -Inventory management System - TwinCore high efficiency dual cooling system

Filter free mechanism, lowers the heat rejection - Unique double evaporator design with maximum contact on walls for the fastest cooling down - Adjustable shelves available in HDPE Or Stainless Steel - Automatic voltage compensator protects electrical components - Full length door handle with Ergonomic Safety Latch - 100% Natural refrigerant at low pressure -Pull Up capacity almost 12H, no CO2 Back-Up required

Because it has two complete and separate refrigeration systems, the TwinCore has a true backup which will maintain set pointdown to -82°C at all-times and not only -60°C for couple of hours like the leading brand competitor's system. The second compressor will act as a backup. Energy usage is also dramatically reduced.

Standard ultra-low freezers rely on a cascade refrigeration system. If this system fails, the freezer and your samples have to be removed within hours. LN2 or CO2 backups only sustain temperatures for approximately 7 hours, and require routine re-filling, maintenance & supervision.

In case of failure, your TwinCore ULT can be on site serviced without compromising or having to remove your precious samples, since it will stay at -82°C indefinitely!

Revolutionary Double Independent refrigeration systems offering unbeatable security and outstanding Integrity for your samples.

TwinCore© ultra-low freezers are designed for -86°C storage of high-value samples. Perfect for critical material storage in bio-repositories, medical research facilities, BSL4 labs, hospitals...

TwinCore© Technology employs 2 optimized autocascade compressors. However it only requires one compressor to hold temperature up to -82°C.

## 7" TOUCH SCREEN WITH WIZBOX SYSTEM

SETPOINTS, ALARMS, DIAGNOSTICS, PASSWORD, FREEZER ID & STORAGE MANAGEMENT

RECORDER: 24HR TEMP. MONITORING ON SCREEN + OPTIONAL MODELS



### **SETTING**



## CUSTOMIZE DESIRED SETTING FOR TWINCORE UPRIGHT

Built in control panel of TFT-LCD touch screen with convenient user interface allows entire information management by functional interface.

Control Protection by password.

Display of freezer identification information.

### **HISTORY**



#### MIGRATE TO LOGGING DATA MENU

Monitoring status of freezer for last 24 hours. MMC or USB data download available including separate function.

#### **INVENTORY**



## MIGRATE TO STORAGE INFORMATION MENU

Unique storage management system down to box level. No hand written record keeping. No need to leave the door open to search for your sample location. Inventory system with energy saving environment minimizes energy consumption to keep desired temperature of your freezer.

## **EVENTS**



#### MIGRATE TO EVENT HISTORY MENU

Real Time monitoring for freezer is provided by central server from manufacturer so end users can enjoy convenient UI and focus on their research.



Register user and contact number. When touched, keypad is activated.

Touch **ENTER** for saving the input information.



Insert information and press ENTER for saving. Touch to remove the keypad screen.

## ALERT MONITORING SYSTEM



BRING YOUR ULT ANYWHERE, ANYTIME!

NO BUTTON, 1-TOUCH TO SET TEMP., TIME & STORAGE MANAGEMENT

**SMART DESIGN USER INTERFACE** 

MAIN FUNCTION PARAMETERS ARE DISPLAYED ON SCREEN

IP ADDRESS FOR EACH ULT UNIT

INTERNET VIA ETHERNET OR WIFI (LAN or ETHERNET RECOMMENDED)

ON SCREEN TEMP CHART RECORDING

**USB STORAGE FOR DATA DOWNLOAD** 

STORAGE MANAGEMENT FUNCTIONS:

[RECORD LOCATION OF SAMPLES IN CHAMBER

& TRACK THEM EASILY AFTERWARDS, ON SCREEN]

**AUTO-DIAGNOSTIC FUNCTIONS:** 

[AUTOMATIC CHECKING & ALARMS IN CASE OF FAILURE]



STORAGE CAPACITY



WIZ BOX Transfer



Warning Corrective Action



is reported LIVE

Proactive Service









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MODEL No.	DF8514J	DF8517J	DF8520J	DF8524J
Rack Capacity	16 Racks	16 Racks	20 Racks	20 Racks
2 inch/50mm boxes	240	320	400	500
Sample Vials, 2mL	24000	32000	40000	50000
3 inch/75mm boxes	144	192	240	300
Sample Vials, 4mL	14400	19200	24000	30000



**TEMPERATURE MANTAINED BY 2ND COMPRESSOR IF 1 FAILS** 

**NUMBER OF MODELS** 13, 17, 21.3 & 25.8 CU.FT

-115.6°F

**NUMBER OF COMPARTMENTS** 

**AUTOMATIC** 

HIGH PRESSURE FOAMING



**ALERT MONITORING SYSTEM** 

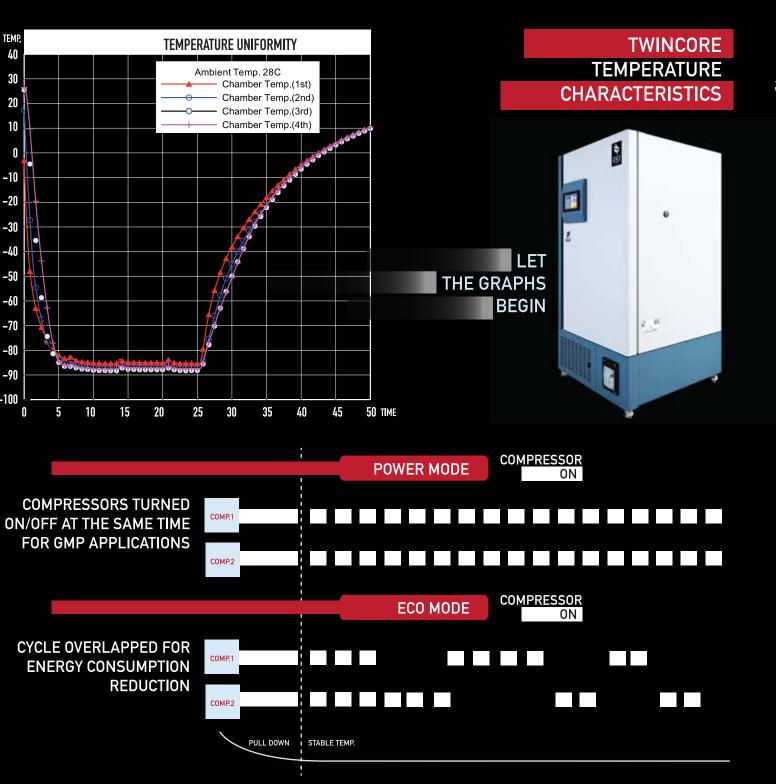
**INSULATION SYSTEM** 

4-20 mA OUTPUT

Z-SCI SCIENCE AND BEYOND

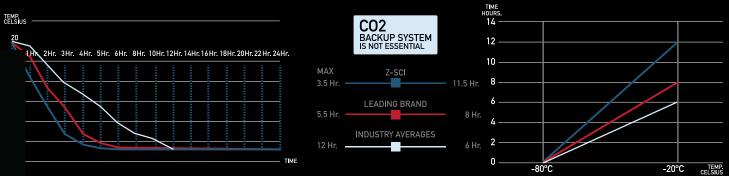
**USB PORT** 



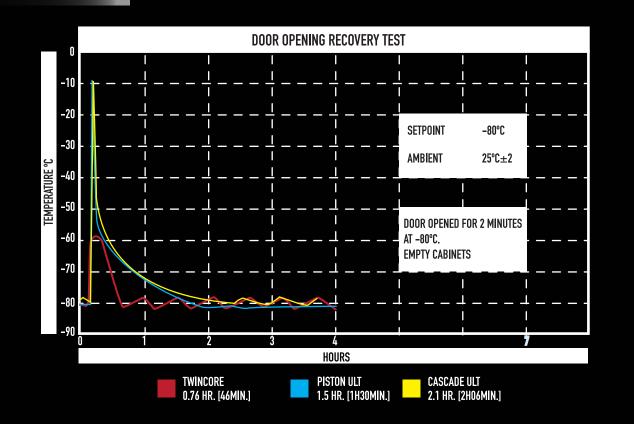


PULL-DOWN TIME FROM +20°C to -80°C

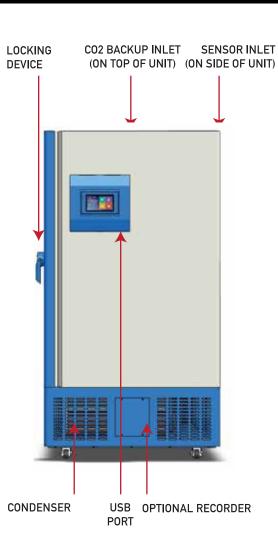
PULL-UP TIME FROM -80°C to -20°C

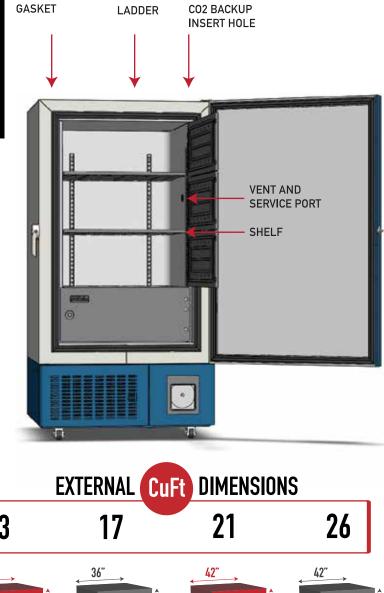


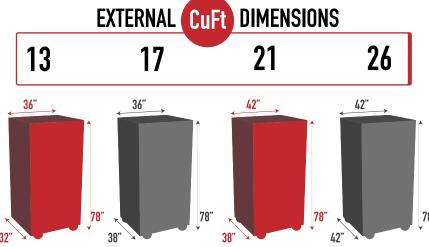
THE SAFEST ULT



# TWINCORE SAFEST ULT YET







## DATA SHEET

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MODEL No.	DF8514J	DF8517J	DF8520J	DF8524J			
Capacity	13 CuFt	17 CuFt	21 CuFt	26 CuFt			
Inner Doors	4	4	4	4			
Shelves	3		3	3			
Noise Level According NEN-EN-ISO 11202	46dB(A)	46dB(A)	46dB(A)	47dB(A)			
Internal Dimensions W x D x H mm (in)	600x480x1290 (23.5x19x51)	600x630x1290 (23.5x25x51)	750x630x1290 (29.5x25x51)	750x740x1290 (29.5x29x51)			
External Dimensions W x D x H mm (in)	914x813x1981 (36x32x78)	914x965x1981 (36x38x78)	1066x965x1981 (42x38x78)	1066x1066x1981 (42x42x78)			
Shipping Dimensions W x D x H mm (in)	1150x1050x2200 (45.2x41.3x86.6)	1150x1050x2200 (45.2x41.3x86.6)	1150x1200x2200 (45.2x47.2x86.6)	1150x1200x2200 (45.2x47.2x86.6)			
Energy Efficiency	0.49 kWh 11.76 kWh / 24h	0.50 kWh 12 kWh / 24h	0.51 kWh 12.24 kWh / 24h	0.59 kWh 14.16 kWh / 24h			
Net Weight	334Kg	380Kg	410Kg	450Kg			
Shipping Weight	354Kg	400Kg	430Kg	470Kg			
Sample Throughput Holes	Built-in Access Port (18 mm inner diameter)						
Temperature Range	-40°C to -86°C (Factory set on -80°C)						
Temperature Uniformity	+⁄- 3°C						
Microprocessor	Z-TOUCH Control Panel with Inventory Management & WIZ BOX System Audible, Visual and Remote Alarms, History, Events, Log In, Setting						
Refrigeration Hydi	Hydrocarbon Natural Mix Refrigerants (CFC/HFC free) - Safety Compliant EN60335-2-24						
Twin Core Technology	2 x 1 <sup>1/4</sup> HP						
	2 Independent Refrigeration Systems Capable of Holding -82°C at All Time						
Cabinet Material	Standard Epoxy Coated Steel Interior Stainless Steel Interior or PO Interior						
Insulation	Automatic High Pressure Foaming Under Vaccum (HPF-VIP Tech)						
Certification	CE, CSA, UL, ETL Certified						
Electrical	208-230V / 60Hz						
Built-In Voltage Booster	Standard for all models including voltage indicator alarm						



Z-SC1 BIOMEDICAL CORP. TEL. +1 877 - 381 - 5500 WWW.Z-SC1.COM

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