

TSU-4RW-N6 | REF3-VAC*

High Performance Undercounter Refrigerator

+2 to +8°C Undercounter Refrigerator

3.0 cu.ft. | 85 L



TSU-4RW-N6 | REF3-VAC

TSU-4RW-N6 | REF3-VAC high performance undercounter refrigerators are designed to meet current and evolving CDC, NSF, and ANSI guidelines for vaccine storage. The TSU-4RW-N6 | REF3-VAC is ENERGY STAR® Certified and capable of maintaining the 5°C setpoint standard for storing vaccines with a +/- uniformity of 3°C to better reduce the risk of freezing vital vaccines and biologics. Built with accessibility in mind, this unit is ADA compliant and engineered with a glass door for easy visibility of stored contents.

Meeting Regulatory Standards

Current and emerging guidelines from the CDC, NSF, and ANSI involve strict storage requirements for vaccines and biologics. The TSU-4RW-N6 | REF3-VAC is purpose-designed to meet these evolving guidelines as they pertain to temperature control, uniformity, and recovery. This unit is UL 471 listed, and meets all electrical standards required by most equivalent Nationally Recognized Testing Laboratories (NRTL).

Ease of Use and Accessibility

With a compact footprint, the TSU-4RW-N6 | REF3-VAC is designed to be incorporated in ADA compliant workspaces, and fits under most tables, cabinets, and lab benches. A convenient glass door provides visibility into the interior of the unit to avoid unnecessary door openings. In the event an open door is forgotten, the self-closing door will mitigate scenarios that could result in lost product. An optional stacking accessory is available to maximize storage capacity when space constraints become an issue.

Temperature Uniformity Ensures Product Safety

Strict temperature control keeps stored product within the CDC recommended 2-8°C temperature range for optimal vaccine storage. Many vaccines risk inactivation if allowed to freeze. The TSU-4RW-N6 | REF3-VAC is designed to prevent interior temperature from dropping below 2°C at any location within the cabinet, even if the unit is empty. By contrast, interior temperatures are engineered to cool back to setpoint temperatures within 15 minutes of a 3 minute door opening.



Display and Monitoring

An unweighted temperature probe and temperature display in 0.1°C increments give users the most accurate temperature readings—all in real time. Easy-to-use touchpad display, and microprocessor controller provide dependable control of interior setpoints, while an electronic key lock prevents accidental setpoint changes.



Security and Alarm Notification

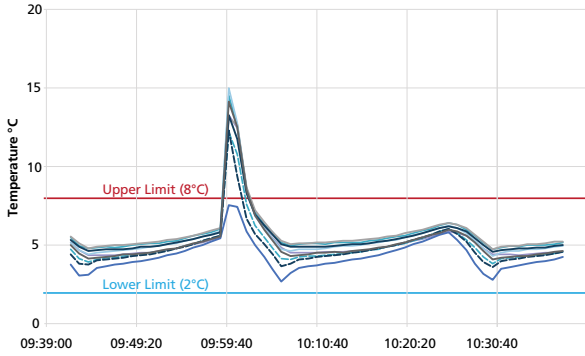
High and low temperature alarms notify users when temperature excursion events are occurring. Alarm delay time is adjustable to meet different user needs and working conditions. A physical key lock at the top of the unit makes it possible to store important samples and controlled substances.



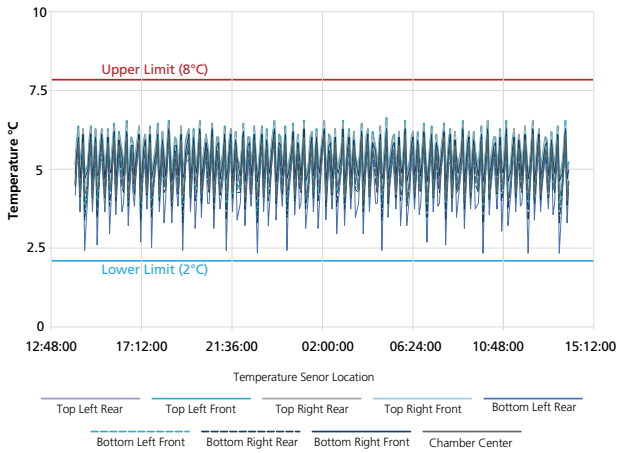
Energy and Sustainability

This Energy Star certified undercounter provides energy efficiency and sustainability, without compromising performance. Traditional HFC refrigerants have been replaced with environmentally friendly HC refrigerants to meet Significant New Alternatives Policy (SNAP) guidelines for low global warming and ozone depleting substances.

Door Opening Recovery, 1 Minute

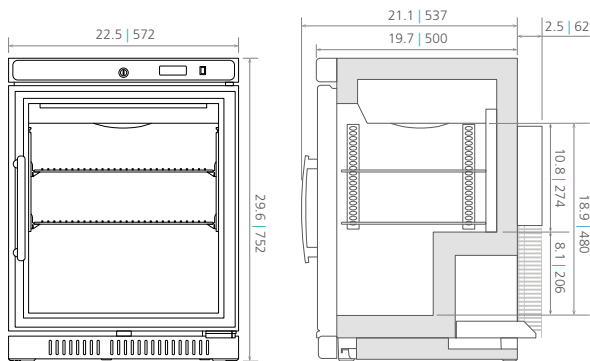



Uniformity, Steady State, 5°C



Dimensions

Unit : inch | mm



Model Number		TSU-4RW-N6 REF3-VAC
Exterior Dimensions (W x D x H) ¹⁾	inches mm	22.5 x 22.1 x 29.6 572 x 562 x 751
Interior Dimensions (W x D x H)	inches mm	18.5 x 14.6 x 18.9 471 x 370 x 480
Volume	cu.ft. liters	3.0 85
Net Weight	lbs kg	114 52
Performance		
Warranty ²⁾		2 years parts / labor
Cooling Performance ³⁾	°C	3 to 7
Temperature Setting Range	°C	3 to 7 in 0.1°C increments
Temperature Control Range ³⁾	°C	3 to 7 in 0.1°C increments
Control		
Controller		Microprocessor (one control probe and one monitor probe)
Display		LED
Temperature Set Method		Touchpad
Temperature Sensor		Thermistor
Refrigeration		
Refrigeration System		Single reciprocal type compressor
Compressor	W	(1) 174
Refrigerant		R-600a
Defrost		Automatic cycle
Insulation Material, SNAP Compliant		Rigid polyurethane, foamed-in-place, low GWP (cyclopentane)
Insulation Thickness	inches mm	Right, left, back, top: 2.0 50 Bottom: 2.2 55
Construction		
Exterior Material		Painted steel
Interior Material		Painted steel with stainless steel floor
Outer Door	qty	1 (glass, self closing)
Key Lock	qty	Standard door lock
Wire Shelves, Vinyl Coated	qty	2 (adjustable)
Shelf Dimension (W x D)	inches mm	17.3 x 14.0 440 x 355
Max. Load Per Shelf	lbs kg	26.5 12
Access Port	qty	1 (standard)
Access Port Position		Bottom of back of product
Access Port Diameter	inches mm	0.6 16
Leveling Feet	qty	4
Alarms (V=Visual, B=Buzzer)		
Power Failure		B (Momentary)
High Temperature		V-B
Low Temperature		V-B
Door Alarm		V-B
Diagnostics		V
Electrical and Noise Level		
Power Supply		115V, 60Hz, 1Ø, NEMA 5-15P, requires NEMA 5-15R receptacle
Options		
Blackout Panel		B-PANELTSU
Stacking Kit		TSU-4RW STKBRACKET
Optional Communication System		
Wireless, Cloud-Based, Automatic Data Management		LabAlert® Monitoring System

¹⁾ External dimensions of main cabinet only. Depth is 23.6" (600 mm) including the door handle

²⁾ Current warranty offered at time of printing and may be subject to change; US and Canada only

³⁾ Air temperature measured at refrigerator center, ambient temperature +24°C, no load

Specifications are subject to change without notice.

Performance data herein is based on independent testing at time of publication

*TSU-4RW-N6 | REF3-VAC is manufactured by Turbo Air Inc. and distributed by PHC Corporation of North America.