## FARRAR | 12A





## Application, Rating, and Electrical Data

Application	Precision temperature storage for biopharmaceutical and life science research applications
Storage Volume	5.3 cu ft   (150 L)
Temperature Range	-15° to -30°C
Set Point	-30°C
Electrical Power	115V 60Hz   220-240V 50/60Hz
Maximum Current	4.1A   2.0A
Facility Supply Rating	Branch circuit with earth ground, meeting plug/cord ratings as well as local electrical safety codes and requirements 110-120V AC: 15 A (minimum) 220-240V AC: 10 A (minimum)
Power Plug/Power Cord Length	NEMA 5-15 hospital-grade   115V 60Hz, 8 to 10 ft (2.4-3.0m) Inquire about additional plug/cord options
Certification/Agency Listing	QPS (Certified to UL and CSA Standards) IEC/UL61010-2-011: 2016   IEC 61010-1:2010, AMD1:2016
Energy Star	Yes, ENERGY STAR® Certified High Performance Freezer
ADA Compliant	Yes, fits under standard ADA compliant countertop
Indoor/Outdoor Use	Indoor use only, non-residential
Application Environment	Non-corrosive, non-flammable, non-explosive
Ambient Operating Temperature	+15°C to +32°C   +59°F to +90°F

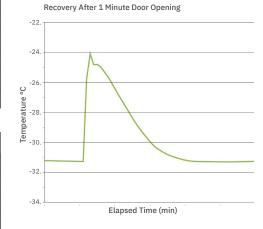
Refrigeration	
Refrigeration System	VCC compressor-based, forced-air hydrocarbon
Compressor	Hermetic, variable speed (VCC). Rated speed range: 1600-4000 rpm
Condenser Type	Air-cooled fin and tube, sealed
Expansion Device	Cap tube
Evaporator Type	Direct expansion with forced-air fin and tube
Defrost Method	Automatic
Refrigerant	R290, EPA SNAP and EU F-Gas compliant natural hydrocarbon refrigerant

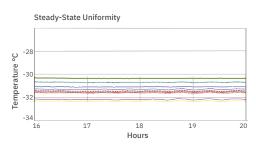
Controller / Configuration Settings		
User Interface	LED digital display, °C or °F	
Power Switch	On/Off	
Controller Type	Microprocessor with touchscreen input & display	
Security	Lockable exterior door, locking interior drawers available as accessory	
Control Sensor	RTD, stainless steel	
Communication Port	Remote alarm contacts	
Power Failure Alarm	Yes	
High/Low Alarms	Yes, fully adjustable	
Door Ajar Alarm	Yes, fully adjustable	
Condenser Temperature Alarm	Yes, fully adjustable	
Min/Max Temperature	Yes, display and reset	
Temperature Monitoring	Yes, 4oz bottle with screw cap	
Battery Back-up	Yes, 9 V non-rechargeable, lithium	

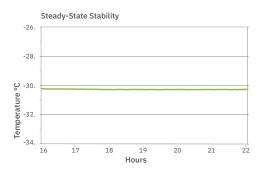
## **Performance Characteristics** (normal operating conditions)

Uniformity   °C	+/-2.0
Recovery to 29.5°C after 1 min door opening   min	23
Stability   °C	0.1
Energy consumption   kWh/day	3.99
Noise emission   dB	46
Heat rejection   BTU/hr	1701
Pull-down time to -30°C   min	70

All performance data from 5 cu ft freezer, 25°C ambient, -30.0°C





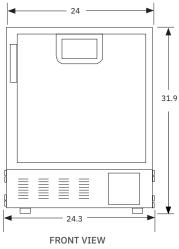


## FARRAR | TRANE





Dimensions and Construction		
Interior (w x h x d)	19.5 x 19.9 x 22.8 in   496 x 505 x 580 mm	
Exterior (w x h x d)	24 x 31.5 x 26.7 in   610 x 798 x 678 mm *Add 2.5" to the height if choosing optional casters	
Overall Exterior (w x h x d)	24.3 x 31.9 x 28.4 in   617 x 809 x 721 mm *Includes leveling feet, door handle, user interface, and access panels. * The maximum height added with leveling feet at highest level or casters installed is 2" (51 mm)	
Insulation	EPA SNAP and EU F-Gas compliant insulation and foaming agents	
Exterior/Interior Finish	Bacteria-resistant powder-coating	
Door	Solid, field-reversible	
Access Port	Rear Access Port- for external monitoring probe(s) (0.75 in   19 mm diameter)	
Interior Storage (w x d)	2 ventilated, powder coated shelves, adjustable 17.9 x 21.3 in   454 x 541mm, 100 lb   46 kg max capacity/shelf	
Mobility	Easily movable locking casters	
Net Weight	179 lb   82 kg	
Shipping Weight	240 lb   110 kg	
Clearance Requirements	Minimum 3" (76 mm) behind unit for for plug/cord and feature access Front ventilation eliminates the need for top or side clearance	
Available Accessories	Remote alarms, remote lock adapter kit, floor and wall seismic bracket kits, stacking kit, pedestal, storage trays, locking interior drawers, certificate of calibration, temperature validation, validation guide (IQ/OQ), extended warranty	
Certificate of Calibration	Yes, available as an option, generated with an ISO 17025 certified, NIST traceable thermometer	
Warranty	3 years compressor, 2 years parts, 1 year labor (Outside US/Canada: Please consult with your local representative for labor warranty information.)	



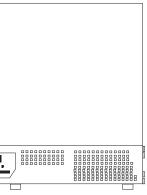
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TOP VIEW

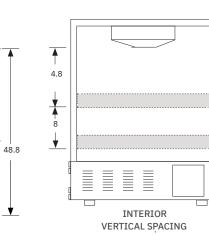
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BACK VIEW









For more information, visit www.cik-solutions.com or contact us at info@cik-solutions.com

