



The Medco MED85R-H Medication Fridge (VM-MED85RH) is a 75L nett / 85L gross single swing glass door pharmacy and clinical refrigerator with greater than 48-hour holdover during power cuts — a critical feature for South African healthcare facilities operating under load-shedding conditions. Temperature range: +2°C to +8°C at +35°C ambient, with 0.1°C accurate digital control. Double-

glazed UV-protected Low-E glass door with locking system provides secure, visible medication storage without door opening. High/low temperature alarm (audible and visual, activates after 5 minutes out of parameters), door open alarm (audible after 60 seconds), and battery-powered outage alarm with >48-hour capacity. Interior: aluminium, with 4 adjustable stainless steel or plastic-coated steel shelves. Exterior: stainless steel and Chromadek white coated mild steel. LED interior light (auto-off after 10 minutes). Internal compartment fan. Automatic defrost

75L Pharmaceutical-Grade Refrigeration with Double-Glazed Low-E Glass Door and 0.1°C Temperature Accuracy

The Medco MED85R-H (VM-MED85RH) is a single swing glass door medication refrigerator providing 75L nett usable storage capacity (85L gross) within a compact countertop-to-full-height footprint suited to dispensaries, nursing stations, treatment rooms, and pharmacy cold-chain environments. The double-glazed UV-protected Low-E glass door enables visual stock inspection without opening the door, reducing thermal cycling and maintaining the stable +2°C to +8°C temperature range required for temperature-sensitive medications, vaccines, and biologicals. Temperature control is rated to 0.1°C accuracy with a visible digital display and controller, providing the precision documentation trail required by the South African Pharmacy Council and public health cold-chain compliance frameworks. The interior is constructed from aluminium with four adjustable shelves in stainless steel or plastic-coated steel, accommodating varying pack sizes and stock configurations. The exterior combines stainless steel panels with white Chromadek coated mild steel — a combination providing the corrosion resistance and cleanability required in clinical environments. An internal compartment fan ensures uniform temperature distribution across all shelf levels, preventing localised warm spots that can compromise cold-chain integrity, particularly at high ambient temperatures. The unit operates to specification at +35°C ambient — relevant to non-air-conditioned clinical environments common in South African public health facilities.

Holdover Technology, Alarm Systems, and Load-Shedding Resilience

The defining feature of the MED85R-H is its holdover thermal performance: the unit maintains the +2°C to +8°C medication storage range for more than 48 hours during a total power cut, without connection to a generator, inverter, or backup power supply. This holdover capability is achieved through the combination of Ecomate polyurethane insulation — which carries zero global warming potential (GWP) and zero ozone depletion potential (ODP) — the double-glazed Low-E glass door, and

the refrigerator's thermal mass. In the South African load-shedding environment, where power interruptions regularly extend to 4, 6, or 8-hour windows across multiple daily slots, a >48-hour holdover provides complete cold-chain protection across an entire day's cumulative outage, eliminating stock loss risk from medication that must be maintained in the cold chain. The alarm system provides three independent alert functions: a high/low temperature alarm that activates audibly and visually when temperature remains outside +2°C to +8°C for more than 5 consecutive minutes; a door open alarm that activates audibly after 60 seconds of continuous door opening; and a battery-backed power outage alarm with audible and visual alert and greater than 48-hour alarm battery capacity, ensuring staff are notified of power loss even during after-hours or unattended periods.

Compliance, Power Protection, and Clinical Deployment in South Africa

The Medco MED85R-H carries ISO 9001 quality management certification and IEC 60335 electrical safety compliance, meeting the procurement requirements of South African public health supply chain and pharmacy cold-chain standards. A combined voltage stabiliser and surge protector is factory-fitted, protecting the refrigeration electronics and compressor against the voltage fluctuations and power surges common on the South African national grid — an important reliability consideration for equipment in continuous unattended operation. The 3.1m mains cable with plug provides installation flexibility without requiring an extension lead in most room configurations. The unit is RTMD (Remote Temperature Monitoring Device) ready, supporting integration with pharmacy cold-chain monitoring systems for automated temperature logging and regulatory compliance. Four swivel castors — two lockable — allow repositioning between rooms or for cleaning access without disconnection. An LED interior light with external manual switch and 10-minute auto-off function reduces heat load on the cabinet interior. Automatic defrost eliminates manual maintenance. Available in South Africa from Vital Medical, the VM-MED85RH is appropriate for pharmacy dispensaries, nursing station medication storage, clinic cold-chain rooms, and any clinical environment where ISO-compliant, load-shedding-resilient pharmaceutical refrigeration is required.

TECHNICAL SPECIFICATIONS TABLE

Specification	Detail
Brand	Medco
Model	MED85R-H
SKU	VM-MED85RH
Type	Single Swing Glass Door Medication Fridge with Holdover
Nett Volume	75L
Gross Volume	85L
Temperature Range	+2°C to +8°C at +35°C ambient
Temperature Control Accuracy	0.1°C
Temperature Display	Visible digital
Adjustable Shelves	4 (stainless steel or plastic-coated steel)
Interior Material	Aluminium
Exterior Material	Stainless steel & Chromadek white coated mild steel
Glass Door	1 — double-glazed, UV protection, Low-E
Door Locking System	Yes
Interior Light	LED — auto-off after 10 min; external manual switch
Internal Compartment Fan	Yes
Automatic Defrost	Yes
High/Low Temperature Alarm	Audible & visual — activates after 5 min out of +2°C to +8°C
Door Open Alarm	Audible after 60 seconds; visual after 60 seconds
Power Outage Alarm	Audible & visual — battery-backed, >48hr capacity
Holdover Time (Power Cut)	>48 hours
Insulation	Ecomate polyurethane (Zero GWP, Zero ODP)
CFC & HCFC Free	Yes
Voltage Stabiliser	Yes — combined surge protector & voltage stabiliser
RTMD Ready	Yes
Swivel Castors	4 (2 lockable)
Adjustable Feet	Optional
Mains Cable Length	3.1m with plug
Internal Dimensions	(H) 530 × (W) 420 × (D) 385mm
External Dimensions (without castors)	(H) 970 × (W) 619 × (D) 563mm
External Dimensions (with castors)	(H) 1070 × (W) 619 × (D) 563mm
Boxed Weight	65kg
Certifications	ISO 9001; IEC 60335

SKU: VM-MED85RH