Carrier Commercial HVAC Solutions

OFFICIAL TENDER QUOTATION
Ref: CAR-CT-2026-904
Date: 19 March 2026
Validity: 30 Days

Carrier Commercial HVAC Solutions
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Client: Apex Consulting Engineers | **Project:** Horizon Medical Center - Central Plant Modernization
Equipment Tag: AHU-02 - Cleanroom Air Handling Unit Package

1. Technical Performance Schedule

Parameter	Spec Requirement	Offered by Carrier	Technical Note
Supply Airflow	5300 l/s	**5350 l/s**	Minor positive variance (+0.9%)
External Static Pressure	1000 Pa	**1000 Pa**	Design match
Fan Arrangement	2x EC500 Plug fans	**2x Ziehl-Abegg ECblue 500mm fans**	Equivalent EC plug array
Fan Power Input	8382 W (8.4 kW)	**8382 W**	400V / 3Ph / 50Hz
Cooling Coil Capacity	56.4 kW	**58.2 kW**	Slight over-capacity (+3.2%)
Entering Air Conditions	22.0 °C DB / 15.7 °C WB	**22.0 °C DB / 15.7 °C WB**	Design match
Leaving Air Conditions	14.5 °C DB / 12.3 °C WB	**14.5 °C DB / 12.3 °C WB**	Design match
DX Coil Materials	SS casing, Cu tubes, Al fins	**SS304 casing, Cu tubes, Al fins**	8 passes, 185 m²
Condensate Drip Tray	1.2mm SS V-shape sloped	**1.2mm 304 SS V-shape sloped**	Center drain Ø28mm
Base Frame	100 x 50 galv channel	**100 x 50mm Galv channel**	Bolted tapered flange
Panels & Insulation	50mm Chromadek double-skin	**50mm Chromadek double-skin**	Polystyrene insulated
Primary Filtration	G4 / EU4 (50mm washable)	**G4 Primary washable panel (50mm)**	6x 592x592 & 3x 592x292
Secondary Filtration	F8 Bag Filter (300mm soft)	**F7 Bag Filter (300mm soft)**	F7 offered instead of F8 (Marginal)
Differential Gauge	Magnehelic gauge fitted	**Dwyer Magnehelic gauge fitted**	Across filter banks
Electrical & Controls	Isolator, E-Stop, lights, panel	**Isolator, E-Stop, lights, panel**	Pre-wired factory panel
VRF Interface Kit	VRF kit fitment	**Optional Extra (+$ 1,450)**	Quoted as optional add-on (Marginal)
Sloped Weather Roof	90mm to 50mm slope	**90mm to 50mm sloped roof**	Weather cowl fitted
Unit Weight	1155 kg approx	**1165 kg approx**	Verified engineering weight

2. Commercial Pricing & Scope Demarcation

Scope Item	Terms / Clarification	Amount (USD)
Carrier 39HQ Base AHU	Standard unit with electrical panel	**$ 26,800.00**
VRF Interface Kit	Pre-piped and wired in cubicle	**$ 1,450.00 (Optional)**
Delivery to Jobsite	Freight to jobsite included	**Included**

Authorized Representative: Bradley Peters, Senior Applications Engineer | *Technical Sales Division* (E&OE;)