

### **Compulsory requirements**

- Bidders must be registered with the Construction Industry Development Board (CIDB) and must have an active CIDB Contractor grading of **2ME** or higher (Provide CRS number for verification)
- Bidder must attend the compulsory site briefing (Briefing session attendance register must be signed at briefing meeting)
- Provide installation diagrams
- Provide product information or catalogue/brochure

**See attached detailed technical specification for commissioning of one (1) HVAC units for compartments C17.2**

### **Technical specifications**

	<b>Unit</b>	<b>Capacity</b>		<b>Unit</b>	<b>Capacity</b>
<b>Nominal Cooling Capacity</b>	Btu/h	230000	<b>Evaporation Air Flow</b>	CFM	8000
	W	67406	<b>Evaporation External Static Pressure</b>	Pa	294
<b>Nominal Heating Capacity</b>	Btu/h	255000	<b>Condenser Power Supply</b>	V/Ph/Hz	380-415/3/50
	W	74733	<b>Condenser Sound Pressure Level</b>	dBA	74
<b>Nominal EER</b>	kW/kW	2.31	<b>Approximately Height</b>	mm	1735
<b>Nominal COP</b>	kW/kW	2.85	<b>Approximately Width</b>	mm	2250
<b>Depth</b>	mm	2800	<b>Approximately Net Weight</b>	kg	1200

**See attached detailed technical specification for commissioning of one (1) HVAC units for compartments C10.7**

**Technical specifications**

	<b>Unit</b>	<b>Capacity</b>		<b>Unit</b>	<b>Capacity</b>
<b>Nominal Cooling Capacity</b>	Btu/h	85 000	<b>Evaporation Air Flow</b>	CFM	9534
	W	67406	<b>Evaporation External Static Pressure</b>	Pa	206
<b>Nominal Heating Capacity</b>	Btu/h	93 300	<b>Condenser Power Supply</b>	V/Ph/Hz	380-415/3/50
	W	72330	<b>Condenser Sound Pressure Level</b>	dBA	70
<b>Nominal EER</b>	kW/kW	2.96	<b>Approximately Height</b>	mm	1454
<b>Nominal COP</b>	kW/kW	3.38	<b>Approximately Width</b>	mm	2209
<b>Depth</b>	mm	2670	<b>Approximately Net Weight</b>	kg	1020

**HVAC Units must be equipped with the following**

<b>Item Description</b>
PCO5+ Electric Programmable Control
Equipped with 27 functional and control capabilities
Variable head pressure control for low ambient cooling
Day and night temperature settings
Electronic expansion valves for precise refrigerant control
Self diagnostic and error warning codes
Standard 7days programmable timer and LCD thermostat
Sequential compressor and load balancing operation
Simple BMS and third-party interface

<ul style="list-style-type: none"> <li>• Ability to connect remote sensor with 25m cable</li> </ul>
<ul style="list-style-type: none"> <li>• Basic BMS Connection</li> </ul>
<ul style="list-style-type: none"> <li>• 2 x Thermistor Temperature Probe – 6mm temperature Sensors per unit with a 0.5 accuracy reading and up to 80 °C</li> </ul>
<ul style="list-style-type: none"> <li>• Manufacture and install purpose made galvanized ducting internally insulated</li> </ul>
<ul style="list-style-type: none"> <li>• Install two washable filter sets per unit in return ducting</li> </ul>
<ul style="list-style-type: none"> <li>• Supply and install two indoor deflection air grill per unit</li> </ul>
<ul style="list-style-type: none"> <li>• Supply and install new electrical cables from the main supply distribution board, including new Isolators and new circuit breakers as per manufacture specification</li> </ul>

**NB:** Failure to meet the technical specifications or providing supporting documents will result in the bidder being disqualified.

The Successful service provider will be required:

- **Appointed Service provider must issue a COC after completion of instantiation**
- **Minimum 12 month guarantee on workmanship**
- **Minimum 12 month warranty on equipment**
- **Successful bidder will be required to complete the project 6 weeks**