

	SCOPE OF WORK	ASSET MANAGEMENT
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Title: **Supply And Delivery of Air-conditioning Units at Simmerpan Complex**

Document Identifier: **240-**

Alternative Reference **SOW 2025 -**
Number:

Area of Applicability: **Transmission**

Functional Area: **Simmerpan**

Revision: **1**

Total Pages: **7**

Next Review Date: **N/A**

Disclosure Classification: **Controlled Disclosure**

1. Introduction

The Simmerpan Complex requires the procurement of new air-conditioning units to replace existing units that are obsolete, inefficient, or non-functional. Proper temperature control and energy-efficient cooling and heating are critical for office, control, and technical areas within the complex.

This Scope of Work defines the requirements for the supply and delivery of air-conditioning units to the site, ensuring clarity on specifications, quantities, and delivery conditions.

2. Supporting Clauses

2.1 Scope

The scope includes the supply, delivery, and offloading of air-conditioning units at the Simmerpan Complex, Germiston.

The Supplier shall supply the following units:

- 12,000 BTU midwall split units – Quantity (70 units)
- 18,000 BTU midwall split units – Quantity (114 units)
- 22,000 BTU midwall split units – Quantity (20 units)
- 36,000 BTU midwall split units – Quantity (5 units)

Technical Specification

18,000 BTU Midwall Split Units (114 Units)

- **Type:** Wall-mounted inverter split unit
- **Cooling Capacity:** 5.3 kW (18,000 BTU)
- **Heating Capacity** | ≥ 5.5 kW |
- **Energy Efficiency:** Inverter type, minimum Energy Efficiency Rating: A or higher
- **Refrigerant:** R410A (environmentally friendly, non-ozone depleting)
- **Sound Level:** Indoor ≤ 40 dB(A); Outdoor ≤ 55 dB(A)
- **Voltage:** 220–240 V, 50 Hz, single-phase
- **Mounting:** Midwall indoor unit with matching outdoor condenser
- **Finish:** White, corrosion-resistant casing (indoor and outdoor units)
- **Accessories:** Mounting brackets
- **Control:** Digital thermostat, remote-controlled
- **Warranty:** Minimum 3 years.
- **Documentation:** Manufacturer's datasheet, warranty certificate, and user manual to be supplied with each unit

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22,000 BTU Midwall Split Units (20 Units)

- **Type:** Wall-mounted inverter split unit
- **Cooling Capacity:** 7.0 kW (22,000 BTU)
- **Heating Capacity** | ≥ 7.2 kW |
- **Energy Efficiency:** Inverter type, minimum Energy Efficiency Rating: A or higher
- **Refrigerant:** R410A(environmentally friendly, non-ozone depleting)
- **Sound Level:** Indoor ≤ 40 dB(A); Outdoor ≤ 55 dB(A)
- **Voltage:** 220–240 V, 50 Hz, single-phase
- **Mounting:** Midwall indoor unit with matching outdoor condenser
- **Finish:** White, corrosion-resistant casing (indoor and outdoor units)
- **Accessories:** Mounting brackets
- **Control:** Digital thermostat, remote-controlled
- **Warranty:** Minimum 3 years.
- **Documentation:** Manufacturer's datasheet, warranty certificate, and user manual to be supplied with each unit

12,000 BTU Midwall Split Units (70 units)

- **Type:** Wall-mounted inverter split unit
- **Cooling Capacity:** 3.5 kW (12,000 BTU)
- **Heating Capacity** | ≥ 3.6 kW |
- **Energy Efficiency:** Inverter type, minimum Energy Efficiency Rating: A or higher
- **Refrigerant:** R410A(environmentally friendly, non-ozone depleting)
- **Sound Level:** Indoor ≤ 40 dB(A); Outdoor ≤ 55 dB(A)
- **Voltage:** 220–240 V, 50 Hz single-phase
- **Mounting:** Midwall indoor unit with matching outdoor condenser
- **Finish:** White, corrosion-resistant casing (indoor and outdoor units)
- **Accessories:** Mounting brackets
- **Control:** Digital thermostat, remote-controlled
- **Warranty:** Minimum 3 years.
- **Documentation:** Manufacturer's datasheet, warranty certificate, and user manual to be supplied with each unit

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36,000 BTU Midwall Split Unit (5 units)

- **Type:** Wall-mounted inverter split unit
- **Cooling Capacity:** 10.5 kW (36,000 BTU)
- **Heating Capacity** | ≥ 11.0 kW|
- **Energy Efficiency:** Inverter type, minimum Energy Efficiency Rating: A or higher
- **Refrigerant:** R410A(environmentally friendly, non-ozone depleting)
- **Sound Level:** Indoor ≤ 40 dB(A); Outdoor ≤ 55 dB(A)
- **Voltage:** 380–415 V, 50 Hz Three-phase
- **Mounting:** Midwall indoor unit with matching outdoor condenser
- **Finish:** White, corrosion-resistant casing (indoor and outdoor units)
- **Accessories:** Mounting brackets
- **Control:** Digital thermostat, remote-controlled
- **Warranty:** Minimum 3 years.
- **Documentation:** Manufacturer's datasheet, warranty certificate, and user manual to be supplied with each unit

2.1.1 Purpose

The purpose of this Scope of Work is to:

- Clearly define the technical and operational requirements for the air-conditioning units to be supplied.

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- Ensure that all units are brand new, energy-efficient, and compliant with South African standards (SANS/SABS).
- Specify delivery, documentation, and warranty requirements to enable efficient receipt, inspection, and future maintenance.
- Provide a measurable framework for assessing Supplier compliance and performance.

Accessories

- Mounting brackets

Exclusions

- Installation, mounting, or commissioning of units
- Removal or disposal of existing units

Acceptance Criteria

Units will be accepted when:

- Delivered to the correct location in good condition.
- Quantities and models match the Purchase Order.
- All documentation (datasheets, warranties, certificates) is provided.
- Purchaser's representative signs the delivery note confirming receipt.

Delivery Requirements

- Deliver all units to the designated storage/delivery point at Simmerpan Complex, Germiston.
- Notify the Purchaser 48 hours prior to delivery.
- Deliver during working hours: 07:30 – 16:00, Monday to Friday.
- Provide delivery note, manufacturer datasheets, warranty certificates, and user manuals upon delivery

2.1.2 Applicability

Parties using this document shall apply the most recent edition of the following standards:

2.2 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

- a) SANS 60335-2-40, Safety of Electrical Heat Pumps, Air-Conditioners and Dehumidifiers

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- b) ISO 5149, Mechanical Refrigerating Systems – Safety Requirements
- c) National Environmental Management Act (NEMA)
- d) ISO 9001 Quality management systems – Requirements
- e) Occupational Health and Safety Act, Act No. 85 of 1993
- f) Manufacturer's Specifications

2.2.2 Informative

- g) ASHRAE 15, Safety Standard for Refrigeration Systems
- h) IEC 60364, Electrical Installations for Buildings
- i) SANS 10142, Code of Practice for the Wiring of Premises

2.3 Abbreviations

Abbreviation	Explanation
NTCSA	National Transmission Company of South Africa
HVAC	Heating, Ventilation, and Air Conditioning
ISO	International Organisation for Standards
SANS	South African National Standard
IEC	International Electrotechnical Commission

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