HVAC Technologies
Compressors Experts

AIR CONDITIONING AND REFRIGERATION

Company Profile

2026 · Installation, maintenance and repair of air conditioning and refrigeration machinery.



REGISTERED NAME

HVAC Technologies (Pty) Ltd

ADDRESS

Unit A3, Wadeville Business Park, 3 Sardine Road
Wadeville, Germiston, 1428

CONTACT

+27 64 008 1786
info@hvactechnologies.co.za

WEBSITE

hvactechnologies.co.za

OVERVIEW

Air conditioning, installed and kept running

HVAC Technologies installs, maintains and repairs air conditioning and refrigeration machinery for commercial and industrial clients, working from Wadeville, Germiston.

What we work on

- Variable Refrigerant Volume (VRV) units
- Hide-away units
- Console units
- Refrigeration and air conditioning machinery

Our sister company

Compressor Experts (Pty) Ltd runs the compressor workshop — overhauls, motor rewinds, exchange units and rentals, with its own transport and rigging. HVAC Technologies works on site; Compressor Experts works on the bench.

compressorexperts.co.za

What we do

Air conditioning installation

Installation of air conditioning machinery for commercial and industrial premises.

- Variable Refrigerant Volume (VRV) units
- Hide-away units
- Console units

Maintenance

Planned and corrective maintenance on air conditioning and refrigeration machinery.

- Scheduled maintenance
- Corrective maintenance
- Fault finding

Repairs

General repairs on refrigeration and air conditioning machinery.

- VRV, hide-away and console units
- Refrigeration machinery
- Air conditioning machinery

Commissioning

Commissioning of installed air conditioning and refrigeration systems.

- System commissioning
- Start-up and operational checks



Unit rigged into position by crane truck



Chiller serviced on a rooftop plant deck

SELECTED WORK

We investigate, diagnose and solve

No client is named. References are available on request.

> **Ammonia plant: 272 litres of oil recovered from the evaporator**
> Industrial ammonia (R717) refrigeration plant, two BITZER OSNA7471-K screw compressors cooling CO_2 for beverage production. It started as a routine plant audit.

What we found

- Compressors operating outside their design envelope
- Abnormally low discharge temperature of 17°C, with evidence of wet operation
- Severe oil carryover into the evaporator
- Oil flooding significantly reducing heat transfer efficiency
- Continuous oil losses despite repeated top-ups

Result so far

272 litres of accumulated oil recovered from the evaporator so far, and compressor discharge temperature up from **17°C to 56°C**. The frost on the plant and the oil sight glass has cleared.

> Oil remains in the system. A full oil service is scheduled for the upcoming plant shutdown, and the next phase is to identify and correct the root cause of the oil carryover.



Ammonia plant running clear of frost after oil recovery



Oil sight glass readable again after oil recovery

Specialist capability

- Ammonia (R717) refrigeration
- CO_2 cooling systems
- Industrial screw compressors
- Plant audits and refrigeration optimisation
- Root-cause failure analysis

Full service range

Beyond installation, maintenance, repair and commissioning, our field teams carry the following service lines.

Package units · Chilled water units and air-cooled chillers · Cooling tower servicing · Glycol units · Heat pump units · BMS maintenance · Compressor repairs · Process cooling · Vacuum coolers · Blast and spiral freezers

Engineering Procurement & Equipment Supply

HVAC Technologies provides engineering procurement, equipment supply and related technical services across a broad range of industrial, process, mechanical and HVAC applications, sourced and supplied through our supplier network.

Storage Systems

- Atmospheric storage tanks
- Horizontal storage tanks
- Vertical storage tanks
- Mixing and blending tanks
- Agitated vessels
- Hopper bins
- Bunded storage systems

Pumps

- Centrifugal pumps
- Positive-displacement pumps
- Screw pumps
- Diaphragm pumps

Fans & Ventilation Equipment

- Centrifugal fans
- Process ventilation fans
- Cooling tower fans
- Fan silencers
- Fan inlet and outlet dampers

Compressors

- Reciprocating compressors
- Centrifugal compressors
- Rotary screw compressors
- CO_2 compressors

Air Conditioning & HVAC Systems

- Air-conditioning systems
- Chilled-water systems
- Cooling towers
- Refrigeration systems
- Cleanroom HVAC systems
- Industrial HVAC systems
- Air purification systems

Valves & Flow-Control Equipment

- Gate valves
- Globe valves
- Ball valves
- Butterfly valves
- Check valves
- Non-return valves
- Needle valves
- Diaphragm valves
- Flow-control valves
- Pressure-relief valves
- Emergency shutdown valves (ESD)
- On/off valves
- Solenoid valves
- Pneumatic control valves
- Pneumatically actuated valves

Additional Engineering & Technical Services

- Equipment selection and technical specification
- Engineering procurement and supplier sourcing
- Preparation and evaluation of technical documentation
- Coordination of equipment delivery and logistics
- Supplier and vendor liaison

COMPLIANCE

For your procurement file

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TELEPHONE

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GROUP

Sister company to Compressor Experts

Registration number, B-BBEE status and tax clearance are supplied on request with the current certificates attached, so that what reaches your procurement file is always the valid version.

References

References are available on request.

Contact

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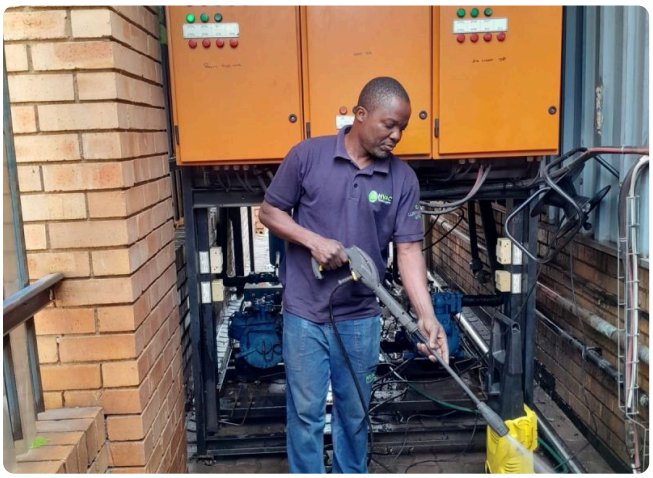
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Electrical panels and pump set on site



Air-cooled chiller attended on site