

# COMPANY PROFILE



## INDUSTRIAL AIRCONDITIONING AND VENTILATION

*"We are HVAC engineering, contracting and maintenance specialists, our core proficiency is providing industrial solutions and we strive to do the **right thing** in everything we do"*

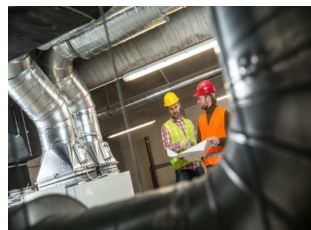
[www.rovac.co.za](http://www.rovac.co.za)



Design



Supply



Install



Maintain

# Company Profile of Rovac Engineering

## Contents

Company Particulars .....	2
Our Business .....	2
Services Offered.....	3
Commitment.....	3
Operating Philosophy.....	4
SHEQ Management .....	4
Key Personnel .....	5
Company Organogram .....	6
Reference Projects.....	7

## Company Particulars

<i>Company name:</i>	Rovac Engineering (Pty) Ltd
<i>Registration No.:</i>	2005/009110/07
<i>VAT No.:</i>	4010134676
<i>BBBEE:</i>	Non Compliant (In progress)
<i>CIDB:</i>	6ME
<i>Established:</i>	1992 (Converted from a CC to a Pty in 2005)
<i>Physical address:</i>	Unit 20, Greenfields Business Centre, 1451 North Coast Road, Durban, South Africa
<i>Postal address:</i>	PO Box 401060, Redhill, 4071, South Africa
<i>Telephone:</i>	+27 (0)31 5691253
<i>E-mail:</i>	<a href="mailto:rob@rovac.co.za">rob@rovac.co.za</a>
<i>Web site:</i>	<a href="http://www.rovac.co.za">www.rovac.co.za</a>

## Our Business

Rovac Engineering is a design and construct HVAC contractor providing turnkey solutions for the industrial market. We are based in Durban, South Africa and have been providing quality HVAC installations for our customers since our establishment in 1992.

Rovac Engineering is a “one source” solution for HVAC applications and we offer the following services:

- System Design
- Supply of equipment
- Installation
- Commissioning
- Maintenance

Rovac Engineering has a successful track record of delivering high-quality installations and this together with our partnering approach to the marketplace assures our high repeat business record with our customers. We have a wealth of experience and expertise in broad range of industrial HVAC and related projects including:

- Process and comfort ventilation and airconditioning
- Steam generation plants
- Compressed air plants
- Chilled water generation plants
- Process cooling and heating systems
- Piping distribution systems
- Air replacement plants
- Clean rooms
- Purification and filtration systems for control and MCC rooms
- Close control HVAC systems for laboratories
- Dust and fume control systems
- Textile HVAC systems with the associated specialized equipment
- Non-standard, customised process equipment including chillers and process heating and cooling units

# Services Offered

## **System Design:**

Our engineering capabilities range from designing large complex HVAC systems to small once-off specialized equipment to suit specific applications. Our strength lies in our approach of looking at applications from alternative angles to provide cost effective, energy efficient solutions.

## **Supply of Equipment:**

Our partnering approach to business extends to maintaining outstanding long term relationships with our suppliers whom we view as part of our team. Our non-negotiable demand for quality, service and on-time delivery is reciprocated by our loyalty and assured prompt payment.

## **Construction Services:**

Safety, Health, Environmental and Quality (SHEQ) management is the defining measure that sets the professional contractor apart from the bidder. At Rovac Engineering, huge emphasis is placed on these aspects and are integral to our company and project management.

## **System Commissioning:**

Our installations are commissioned in-house in accordance with recognised international standards (CIBSE, ASHRAE) and developed method statements which includes pre-commissioning checks, start up, testing, balancing and reporting.

## **Service and Maintenance:**

In keeping with our partnership policy we offer backup service and maintenance programs that let our customers count on Rovac Engineering long after the installation is complete. This service is provided by our technical support division and is tailored to suit our customers specific needs and supported with a 24/7 call out response by certified technicians. Our computerised tracking of all maintenance and repairs, including service history and cost reports allow us to easily evaluate system performance and operating expense.

# Commitment

Rovac Engineering is committed to maintain a high standard of safety, health and environmental management while providing our clients with the best quality service and workmanship.

In order to continually improve and achieve excellence in these fields we at Rovac will ensure:

Customer satisfaction through:

- Providing top quality service and workmanship,
- Building customer relations by listening to our customers and translating those needs into product and services,
- Achieving targets set by ourselves and our customers
- Innovative, tailor-made solutions and
- Using our application know-how to improve our customer's processes and efficiency.

We will win with people through their development and empowerment and through goal orientated leadership.

We strive for excellence in all we do by planning, controlling and continually improving our management systems and business processes. This extends to our resource utilization and environmental effects of our processes and products.

We promote dialogue with interested parties, employees and authorities in an open and transparent manner. We act with integrity.

We comply, as a minimum, with all applicable legal and other agreed requirements. We only carry out work of which the risks we know and can control.

Safety, Health and the protection of the environment form an integral part of our activities and will include our employees, suppliers, contractors and the community at large.

## Operating Philosophy

Rovac Engineering's core activities are design, project management and SHEQ management. Our non-core activities are outsourced in line with our philosophy of promotion and support of small businesses. Health, safety and environmental management form part of our core process and, even though we outsource some activities, we view and manage these as if they were in-house.

Our non-core processes include:

### Manufacturing

- Ducting manufacture
- Electrical panel manufacture
- Custom unit fabrication

### Specialist Installation

- Certain installation work such as electrical, controls and thermal insulation is carried out by specialist sub-contractors under our supervision.
- All other installation work is carried out by our own supervised installation teams.

## SHEQ Management

We have developed and implemented an Integrated Safety, Quality and Environmental Management System to demonstrate our ability:

- To consistently provide products and services that meet customer and applicable regulatory requirements.
- To address customer satisfaction through the effective application of the system including continual improvement and the prevention of nonconformity.
- To provide safe and healthy working conditions for our employees and other parties.
- To protect the environment during our activities

The scope of this Integrated Management System covers Rovac Engineering's provision of products and services which include the design, supply, installation commissioning and maintenance of:

- Building heating, ventilation, air-conditioning and refrigeration systems.
- Industrial and process heating, ventilation, air-conditioning and refrigeration.
- Custom built heating ventilation, air-conditioning and refrigeration equipment.

The Integrated Quality, Environmental, Safety, and Health (SHEQ) systems of Rovac Engineering addresses the requirements of international standards ISO 9001-2015, ISO 14001-2015 and OSHAS 18001-2015.

## Key Personnel

### **Rob Futter**

*Designation* Managing Director  
*Age* 57  
*Experience* 33 years  
*Qualifications* HND Mech Eng  
*Responsibilities* Sales, design & management  
*Contact* [rob@rovac.co.za](mailto:rob@rovac.co.za)

### **Mark Cadden**

*Designation* Technical Director  
*Age* 59  
*Experience* 40 years  
*Qualifications* SAQCC Refrigeration Gas Practitioner/Inspector  
*Responsibilities* Management of technical support  
*Contact* [mark@rovac.co.za](mailto:mark@rovac.co.za)

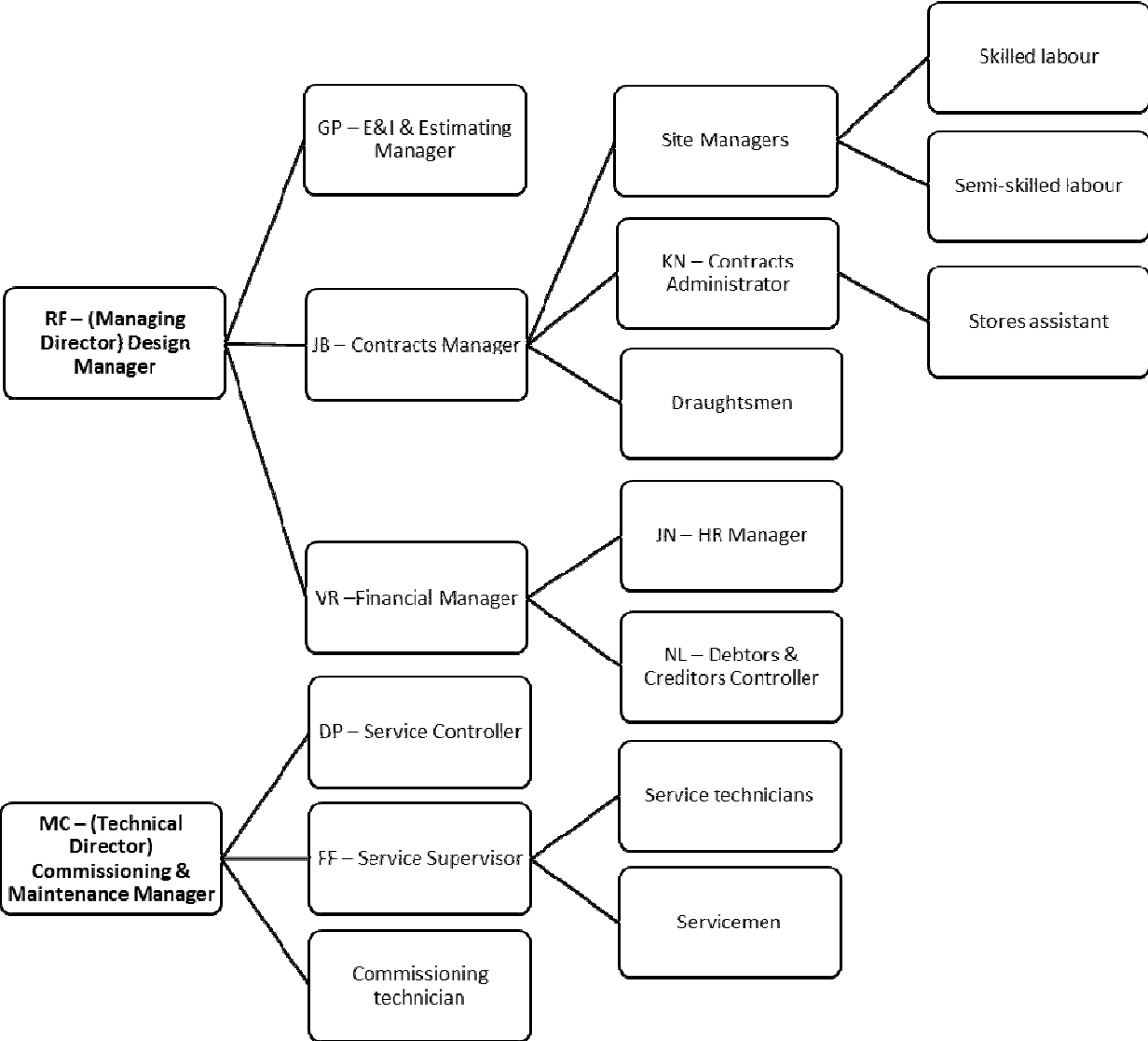
### **John Barnes**

*Designation* Construction Manager  
*Age* 43  
*Experience* 23 years  
*Qualifications* Matric, Academy of Draughting  
*Responsibilities* Management of site activities  
*Contact* [john@rovac.co.za](mailto:john@rovac.co.za)

### **Greg Plotz**

*Designation* Estimating and E&I Manager  
*Age* 56  
*Experience* 32 years  
*Qualifications* N5 Electrical Engineering  
*Responsibilities* Management of cost estimating , electrical and instrumentation  
*Contact* [gregp@rovac.co.za](mailto:gregp@rovac.co.za)

# Company Organogram



## Reference Projects

We have completed over 1200 projects. Here are some our recent and more interesting projects:

Customer:	Project:	Description:	Completion date:	Value:
NAMPAK RIGIDS	COOLING SYSTEM UPGRADE	Supply, installation and commissioning of the chilled and cooling water systems for the injection moulding machines and the HVAC system serving the production room.	Oct-20	R 14.8 million
SAPPI SAICCOR	WOODYARD DUST CONTROL	Design, supply, installation and commissioning of dust control systems for the woodyard.	Aug-20	R 2.71 million
SAPPI TUGELA MILL	LIGNO PACKING ROOM	Supply, installation, commissioning and maintenance of the low humidity HVAC system serving the ligno-sulphate packing room.	Jul-20	R 1.46 million
MSSL ROSSLYN	COOLING SYSTEM UPGRADE	Supply, installation and commissioning of a cooling water system for the injection moulding machines.	Jun-20	R 3.45 million
SAPPI SAICCOR	CONTROL ROOM HVAC	Supply, installation, commissioning and maintenance of the new HVAC serving the control room. Project Vulindela.	Mar-20	R 1.96 million
MERCEDES BENZ	IDZ HOP BODYSHOP	Supply, installation, commissioning and maintenance of the HVAC systems for the Hang on Parts Bodyshop in the IDZ East London.	Jan-20	R 5.27 million
MERCEDES BENZ	B16 BODYSHOP	Supply, installation, commissioning and maintenance of the HVAC systems for the Building 16 Bodyshop in the IDZ East London.	Jan-20	R 35.1 million
SAPPI NGODWANA	LABORATORY HVAC	Design, supply, installation, commissioning and maintenance of a new HVAC system for the laboratory.	Dec-19	R 8.98 million
MARA PHONES (HODARI)	FACTORY HVAC	Supply, installation, commissioning and maintenance of the new HVAC and compressed air systems for the mobile phone manufacturing factory.	Nov-19	R 3.24 million
MERCEDES BENZ (AECOM)	PROJECT NEMO (POLAND)	Design of the mechanical services (HVAC, compressed air, chilled water and hot water) for the new engine plant in Poland. Rovac was sub-consultant to AECOM.	Nov-19	n/a
VWSA (AECOM)	NEW MEASURING ROOM	Design of the HVAC system serving a new measuring room. Rovac was sub-consultant to AECOM.	Apr-17	n/a
MERCEDES BENZ (AECOM)	J-SITE LOGISTICS BUILDING	Design of the HVAC systems serving the logistics building and gatehouse in East London SA. Rovac was sub-consultant to AECOM.	May-18	n/a
FARADY FUTURE (AECOM)	NEW PAINT SHOP	Preliminary design of the mechanical services for a paint shop in California USA. Rovac was sub-consultant to AECOM.	Mar-16	n/a
SUMITOMO RUBBER LADYSMITH	HVAC INSTALLATION - SOUTHERN CROSS FACTORY EXPANSION	Design, supply, installation, commissioning and maintenance of the HVAC and cooling systems for the factory.	Mar-18	R 18.1 million
NTE	DUST EXHAUST	Design, supply, installation and commissioning of a dust control system.	May-17	R 538,000
SUMITOMO	DRUM COOLING SYSTEM	Design, supply, installation and commissioning of a process cooling system.	Nov-17	R 2,95 million

Customer:	Project:	Description:	Completion date:	Value:
CATLER	CHILLERS & DUCTING	Design, supply, installation and commissioning of a new chilled water and process exhaust system.	Jul-17	R 1.05 million
SUMITOMO	HYDRAULIC WATER COOLING SYSTEM	Design, supply, installation and commissioning of a process cooling system.	Nov-17	R 2,43 million
ACTION CLASSIC	REFRIGERATION SYSTEMS	Design, supply, installation and commissioning of refrigeration and kitchen exhaust systems.	Nov-17	R 1.05 million
SUMITOMO	APEX HOT ROOM INSTALLATION	Design, supply, installation and commissioning of a process heating system.	Jan-18	R 1.1 million
DIVPAK	HVAC MODIFICATIONS	Design, supply, installation and commissioning of HVAC system.	Apr-17	R 1.72 million
MSSL	ROSSLYN ASU MODIFICATIONS	Design, supply, installation and commissioning of air supply systems serving the paint shop.	Jan-17	R 4.52 million
TOYOTA	BRAKE DRUM DUST EXTRACT	Design, supply, installation and commissioning of dust extract system serving the engine plant.	Feb-17	R 800,000
SUMITOMO RUBBER LADYSMITH	HVAC INSTALLATION - MAKING AREA	Design, supply, installation, commissioning and maintenance of the HVAC and cooling systems for the factory.	Feb-17	R 23.2 million
OLD MUTUAL	NEWCHILLER INSTALLATION TO GATEWAY SHOPPING CENTRE	Supply, installation and commissioning of a new chiller serving the shopping centre.	Mar-16	R 1.73 million
MONDI R/BAY	CHIPPER MCC HVAC	Design, supply, installation and commissioning of the HVAC and air purification systems serving the electrical and control rooms.	Sep-16	R 8.2 million
SUMITOMO RUBBER LADYSMITH	HVAC INSTALLATION - SUNRISE PROJECT	Design, supply, installation, commissioning and maintenance of the HVAC and cooling systems for the factory.	Apr-16	R 15.9 million
TOYOTA	QUANTUM HVAC CHILLER	Design, supply, installation, commissioning and maintenance of the new chilled water system.	Nov-15	R 6.4 million
ILLOVO	NAKAMBALA ZAMBIA SILO HVAC	Design, supply, installation and commissioning silo conditioning HVAC systems for the new refinery building.	Jun-16	R 8.6 million
NMI	MERCEDES BENZ HVAC INSTALLATION	Supply, installation, commissioning and maintenance of the new HVAC systems serving the new dealership building.	Jun-16	R 6.17 million
SUMITOMO RUBBER LADYSMITH	HVAC INSTALLATION	Design, supply, installation, commissioning and maintenance of the new HVAC systems serving the factory.	Sep-16	R 13.8 million
RESERVE BANK	HVAC INSTALLATION	Supply, installation, commissioning and maintenance of the new HVAC systems serving the Durban building.	Jun-16	R 15.9 million
MSSL	PHASE 2 COOLING WATER	Design, supply, installation and commissioning of the expansion of the cooling water system.	Jul-15	R 3.0 million
ASPEN	HVAC INSTALLATION	Supply, installation, commissioning and maintenance of the new HVAC systems serving the new offices.	Jun-15	R 4.17 million



Customer:	Project:	Description:	Completion date:	Value:
BOARDWALK RICHARDS BAY	SHOPPING CENTRE HVAC EXPANSION	Supply, installation, commissioning and maintenance of the expansion of the chilled water and air handling systems.	Jul-15	R 5.84 million
TOYOTA	PRESS PLANT EXTENSION	Supply, installation and commissioning of the HVAC and compressed air systems serving the press plant factory extension.	Jun-15	R 3.0 million
AECOM	COCA COLA MOZAMBIQUE	Design of the mechanical services (HVAC, compressed air, natural gas, chilled water and steam) for the new bottling plant. Rovac was sub-consultant to AECOM.	Dec-16	R 2.9 million
GALLERIA SHOPPING CENTRE	WOOLWORTHS CHILLER PLANT	Supply, installation and commissioning of a new chilled water plant serving Woolworths shop.	Dec-14	R 2.35 million
OLD MUTUAL	NEW COOLING TOWERS TO GATEWAY SHOPPING CENTRE	Supply, installation and commissioning of new HVAC cooling towers serving the shopping centre.	Dec-14	R 3.99 million
TOYOTA	NEW QUANTUM PAINT & BODY SHOP	Design, supply, installation, commissioning and maintenance of the HVAC and cooling water systems serving a paint and body shop.	Dec-14	R 18.8 million
ILLOVO SUGAR	NEW PACKING STATION HVAC & DUST CONTROL	Design, supply, installation and commissioning of the HVAC and dust extract systems serving a new sugar packing station.	Sep-14	R 1.83 million
TIGER BRANDS	FACTORY EXPANSION - HVAC INSTALLATION	Supply, installation and commissioning of the new HVAC systems serving the factory.	Sep-14	R 8.28 million
UNILEVER	FACTORY EXPANSION - HVAC INSTALLATION	Supply, installation and commissioning of the new HVAC systems serving the factory.	Jan-15	R 11.0 million
BOARDWALK RICHARDS BAY	SHOPPING CENTRE HVAC EXPANSION	Supply, installation, commissioning and maintenance of the new chilled water system serving the building and new air handling systems.	Mar-14	R 4.51 million
DEFY	FACTORY COOLING WATER INSTALLATION	Supply, installation and commissioning of the cooling water and compressed air piping systems serving the factory injection moulding expansion.	Mar-14	R 3.19 million
RODIZONE	FERTILITY CLINIC HVAC INSTALLATION	Supply, installation, commissioning and maintenance of the new chilled water HVAC system serving the medical day centre.	Jan-14	R 2.7 million
MONDI PAPER	RICHARDS BAY NEW TURBINE HALL HVAC	Design, supply, installation, commissioning and maintenance of the chilled water HVAC and air purification systems serving the electrical rooms and turbine hall.	Dec-13	R 9.21 million
SRF	NEW FACTORY HVAC INSTALLATION	Supply, installation and commissioning of the new HVAC systems serving the factory and administration buildings.	Nov-13	R 9.01 million
MSSL	NEW FACTORY MECHANICAL SERVICES INSTALLATION	Design, supply, installation, commissioning and maintenance of the mechanical services to a new automotive small parts factory (chilled water, cooling water, compressed air and HVAC)	Nov-13	R 9.94 million
SAPREF	TRAINING CENTRE HVAC	Supply, installation, commissioning and maintenance of the new chilled water HVAC system serving the training centre building.	Nov-13	R 3.67 million

Customer:	Project:	Description:	Completion date:	Value:
SAPPI	NGODWANA GOCELL PROJECT	Supply, installation and commissioning of the chilled water plant and HVAC systems to the substations.	Jul-13	R 7.82 million
TOYOTA	NEW BODY SHOP	Design, supply, installation, commissioning and maintenance of a cooling water system serving the welding process.	May-13	R 8.7 million
UNITRANS	WASH BAY MECHANICAL INSTALLATION	Supply, installation and commissioning of mechanical systems for a new truck was bay facility.	Apr-13	R 3.6 million
BOARDWALK RICHARDS BAY	SHOPPING CENTRE HVAC EXPANSION	Supply, installation, commissioning and maintenance of the new chilled water system serving the building and new air handling systems.	Jan-13	R 1.72 million
NAMPAK	EXTRUSION PLANT HVAC	Supply, installation, commissioning and maintenance of the chilled water HVAC system to the new Extrusion Plant area.	Aug-12	R 1.2 million
MERCEDES BENZ SOUTH AFRICA	NEW BODY SHOP	Subconsultancy services for the design, and contractor management of a new cooling water system for welding process and HVAC systems serving a new body shop.	Jan-13	R 7.9 million (Contractors value)
GROWTHPOINT	MAYFAIR OFFICE BUILDING	Supply, installation, commissioning and maintenance of the chilled water HVAC system to the new Green Star rated building.	Jun-12	R 8.5 million
NINIAN & LESTER	KNITTING HALL HVAC	Supply, installation, commissioning and maintenance of a new chilled water HVAC system serving a knitting hall.	Feb-12	R 1.83 million
SAPPI	TISSUE HALL VENTILATION	Design, supply, installation and commissioning of a forced ventilation system serving the new tissue converting hall.	Jan-12	R 903,000
SAPREF	ADMINISTRATION BUILDING HVAC	Supply, installation, commissioning and maintenance of the new chilled water HVAC system serving the administration building.	Dec-11	R 8.57 million
BOARDWALK RICHARDS BAY	SHOPPING CENTRE HVAC EXPANSION	Supply, installation, commissioning and maintenance of the new chilled water system serving the building and new fresh air handling systems.	Nov-11	R 5.47 million
APOLLO TYRES	FACTORY HVAC	Design, supply, installation and commissioning of a chilled water plant and HVAC systems serving process rooms and MCC rooms.	Oct-11	R 2.1 million
ILLOVO SUGAR	UBOMBO MILL HVAC TO SUBSTATIONS	Design, supply, installation, commissioning and maintenance of the HVAC systems serving the electrical substations and turbine generator building.	Jun-11	R 4.84 million
SAPPI	TUGELA MILL HVAC TO BOILER SUBSTATION	Design, supply, installation, commissioning and maintenance of the HVAC and air purification systems serving the electrical room.	Apr-11	R 1.36 million
RIDGESIDE OFFICE TRUST	QUATERDECK OFFICE BUILDING HVAC	Supply, installation, commissioning and maintenance of the HVAC system serving the office building.	Mar-11	R 933,000
CATLER SA	CHILLER & STORAGE ROOM	Design, supply, installation, commissioning and maintenance of a process chilled water system and conditioned storage room.	Aug-10	R 747,000
MAPONYA DEVELOPMENTS	SHEPSTONE & WYLIE OFFICE BUILDING	Supply, installation, commissioning and maintenance of the chilled water HVAC system to the new Green Star rated building.	Nov-10	R 6.56 million

Customer:	Project:	Description:	Completion date:	Value:
DUBE TRADEPORT	TRADEHOUSE 1	Supply, installation, commissioning and maintenance of the chilled water HVAC system to the new tradehouse at King Shaka International Airport, Durban.	Aug-10	R 3.96 million
BDO INVESTMENTS	BDO OFFICE DEVELOPMENT	Supply, installation, commissioning and maintenance of the HVAC system serving the office building.	Aug-10	R 3.0 million
MARBURG SWEETS	DRYING OVEN	Design, supply, installation, commissioning and maintenance of the starch-moulded jelly candy drying oven.	Jul-10	R1.7 million
ILLOVO SUGAR	MARAGRA SUGAR DRIER	Supply, installation and commissioning of the ancillary equipment serving the new sugar drier. The system includes input heated air and output scrubber.	May-10	R1.18 million
INVESTEC	HVAC INSTALLATION TO NEW OFFICE BUILDING	Supply and installation of the HVAC system. The system is a variable primary flow chilled water type with zoned airhandling and fan coil units and incorporates exhaust air enthalpy reclaim for the fresh air.	Apr-10	R8.6 million
BOARDWALK RICHARDS BAY	UPGRADE OF HVAC	Supply and installation of new water cooled systems to shops and cinemas.	Feb-10	R 3.0 million
TFMC (TELKOM)	HVAC INSTALLATION	Supply and installation of the chilled water HVAC system to the cable station at Mntunzini.	Nov-09	R 3.8 million
OYSTERBOX HOTEL	HVAC INSTALLATION	Supply and installation of the chilled water HVAC system to the hotel.	Sep-09	R 13.9 million
TETRAPAK	HVAC TO FACTORY	Design, supply and installation of a displacement HVAC system to the factory.	Jun-09	R 3.0 million
ILLOVO NAKAMBALA ZAMBIA	HVAC TO SUBSTATIONS	Design, supply and installation of the HVAC systems to the substations and control room.	May-09	R 4.9 million
TOYOTA SA MOTORS	PAINT PLANT 3 – HVAC SYSTEMS	Design, supply, installation of the HVAC systems serving the paint repair areas.	Apr-09	R 8,4 million
TOYOTA SA MOTORS	UPGRADE OF COOLING TO HVAC PLANTS	Replacement of cooling coils for HVAC plants serving production areas.	Jan-09	R 776,000
TOYOTA SA MOTORS	EXHAUST FROM OVENS PAINT PLANT 3	Design, supply and installation of the exhaust ventilation modification to the ovens.	Sep-08	R 970,000
SPUNCHEM	LINE 3 EXTENSION	Design, supply and installation of the chilled water, compressed air and quench air systems for the new Line 3 extensions to the existing plant in Mt Edgecombe.	Jun-08	R 1.4 million
ARCELORMITTAL SOUTH AFRICA	COOLING SYSTEM FOR BLAST FURNACE N5 GEARBOX	Detail design and supply of a new closed circuit water cooling system and upgrade of the nitrogen cooling system for the top main gearbox for the blast furnace at the Newcastle plant. Primary cooling water is circulated through the gearbox and the heat exchanged to secondary plant industrial water. Nitrogen is used to pressurise the gearbox.	Jun-08	R 3.5 million

Customer:	Project:	Description:	Completion date:	Value:
MONDI FELIXTON	PAPER MACHINE EXTENSION	Supply and installation of the new machine hood and hot air ducting.	Mar-08	R 1.1 million
SAPPI TUGELA MILL	HVAC TO SUBSTATIONS 3&4 AND MIS ROOM	Design, supply and installation of the HVAC and purification systems to the substations and data room.	Mar-08	R 2.2 million
SPUNCHEM	LINE 3 QUENCH AIR SYSTEM	Design, supply and installation of the quench air system to the new line. The project included the upgrade of the existing chiller plant and piping as well as the airhandling plant for the new line.	Feb-08	R 1.2 million
SMITEX	TOMATO DRYING OVEN	Design and supply of a drying oven for the production of semi dry tomatoes. The oven batch dries approximately 1700kg of raw tomatoes in 10 hours.	Aug-07	R 409,000
MONDI PAPER – MEREBANK MILL	NOISE ABATEMENT	Design, supply and installation of sound attenuators on the roof fan discharges to reduce the noise levels to the residential area surrounding the mill.	Aug-07	R 2.4 million
SIEMENS	HVAC TO FACTORY EXTENSION	Supply and installation of the airconditioning and ventilation serving the expansion at the Pinetown factory in Durban.	Jul-07	R 1.4 million
TOYOTA SA MOTORS	BODY SHOP - COOLING WATER SYSTEM	Supply, installation, commissioning and maintenance of the closed circuit cooling water system serving the body shop welding machines. The system circulates 480 m <sup>3</sup> /hr and rejects 2800kW of heat through the closed circuit cooling towers. The contract also entailed the new compressed air reticulation to the shop.	Feb-07	R 7.0 million
TOYOTA SA MOTORS	PAINT PLANT 3 – HVAC SYSTEMS	Design, supply, installation, commissioning and maintenance of the HVAC systems serving the paint plant. A series of ventilation systems serves the general building areas providing filtered, heated and humidified outside air for comfort ventilation and building positive pressure for dust control purposes. Further HVAC systems serve the specific working zones and paint mix rooms and provide conditioned air to these areas.	Sep-06	R 14 million
TOYOTA SA MOTORS	PAINT PLANT 3 – CHILLER PLANT	Design, supply, installation, commissioning and maintenance of the chiller plant serving the spray booth air replacement plants, HVAC plants and paint processes. Total installed cooling capacity of 17800kW (5000tons).	Sep-06	R 16 million
TOYOTA SA MOTORS	PAINT PLANT 3 – STEAM PLANT	Design, supply, installation, commissioning and maintenance of the steam plant serving the paint plant. A series of four boilers generate a total of 20,000kg/hr at 10bar providing steam for heating in the spray booth air replacement plants and preparation process in the paint plant.	Sep-06	R 8 million
TOYOTA BOSHOKU	FACTORY VENTILATION	Design, supply, installation, commissioning and maintenance of the factory ventilation systems to the car seat manufacturing facility.	Apr-06	R 3.8 million

Customer:	Project:	Description:	Completion date:	Value:
TOYOTA BOSHOKU	FACTORY PIPED SERVICES	Design, supply, installation, commissioning and maintenance of the compressed air and process cooling water systems for the factory.	Apr-06	R 1.7 million
TOYOTA BOSHOKU	OFFICE HVAC	Design, supply, installation, commissioning and maintenance of the HVAC system serving the administration offices and canteen. The airconditioned zones are served by a series of water-cooled package type airconditioning units with central cooling tower.	Apr-06	R 1.6 million
ILLOVO - PONGOLA	SUGAR CONDITIONING SILO DEHUMIDIFICATION SYSTEM	Supply, installation, commissioning and maintenance of the dehumidification system for the sugar conditioning silo.	Mar-06	R 3.3 million
MONDI PAPER – MEREBANK MILL	PM31 HALL VENTILATION	Mondi rebuilt their PM31 paper machine and Rovac supplied and installed the ventilation serving the machine hall.	Oct-05	R 7.9 million
MONDI PAPER – MEREBANK MILL	PM31 ELECTRICAL ROOMS HVAC	Design, supply, installation, commissioning and maintenance of the HVAC and air purification systems serving the electrical and control rooms.	Oct-05	R 8.1 million
TOYOTA SA MOTORS	EMISSION TEST LABORATORY HVAC	Design, supply, installation, commissioning and maintenance of the HVAC serving the test laboratory. The system included an ice thermal storage system to handle the peak heat loads during testing.	Jan-05	R 1.0 million
SAPPI	TECHNOLOGY CENTRE - PRETORIA	Design of the mechanical services to the technology center. Rovac worked with Arup, Campbell, Bernstein and Irwin as the mechanical consultants. The building comprised laboratories and offices.	Dec-04	R 7.9 million (Contractors value)
MONDI PAPER - RICHARDS BAY MILL	RB720 - HVAC	Design, supply, installation, commissioning and maintenance of the HVAC and air purification systems serving the electrical and control rooms.	Oct-04	R 18 million
MONDI PAPER – MEREBANK MILL	OFFICE BLOCK	Over a period of 8 years Rovac has refurbished the HVAC serving the administration offices. In 2004 the 3 <sup>rd</sup> floor was added and Rovac designed and installed a variable volume system to serve this area.	Oct-04	R 1.2 million
SAPPI - TUGELA MILL	PM4 ELECTRICAL ROOMS HVAC	Design, supply, installation, commissioning and maintenance of the chiller plant and electrical room HVAC and purification systems.	Jul-03	R 5.2 million
FIBREWOUND - SAPPI SAICCOR	EMISSION ABATEMENT SYSTEM	Design, supply, installation, commissioning and maintenance of the HVAC and air purification systems serving the electrical room for the emission scrubber.	Jul-03	R 208,000
PRINTABILITY	PAPER TRIM EXTRACT & COLLECTION	Design, supply, installation, commissioning and maintenance of a waste paper trim handling system for recycling.	Jun-02	R 670,000
CHAMBI CANDY	JELLY CANDY DRYING OVEN	Design, supply, installation, commissioning and maintenance of the starch-moulded jelly candy drying oven.	Jan-02	R 887,000
LIGNOTECH – SAPPI SAICCOR MILL	PACKING ROOM DEHUMIDIFICATION SYSTEM	Design, supply, installation, commissioning and maintenance of the dehumidification system serving the product packing room.	Oct-02	R 210,000

Customer:	Project:	Description:	Completion date:	Value:
SAPPI – STANGER MILL	CLO2 CHILLER PLANT	Design, supply, installation, commissioning and maintenance of the chiller plant serving the paper machine process cooling.	Aug-01	R 2.0 million
ILLOVO – PONGOLA	SUGAR DRYING DEHUMIDIFICATION SYSTEM	Design, supply, installation, commissioning and maintenance of the cold air dehumidification system for the refined sugar drying plant.	May-01	R 1.6 million
MONDI – RICHARDS BAY MILL	QCS SCANNER PURGE AIR UNIT	Design, supply, installation, commissioning and maintenance of a purge air unit serving a paper QCS scanner. The unit provides filtered, purified and conditioned air for pressurization of the scanner housing protecting it against the harsh paper machine environment. Rovac have provided a number of these units for various other projects some of which are self-contained air-cooled units and others which utilize chilled water.	Dec-98	R 250,000
DUNLOP TYRES – LADYSMITH PLANT	LOW HUMIDITY ROOM FOR CREELS	Supply and installation of a low humidity room for the creel wire. The room moisture content is a maximum 3.7g/kg.	Feb-96	R 363,000
DUNLOP TYRES – LADYSMITH PLANT	PROCESS HEATING & COOLING UNIT	Design, supply, installation, commissioning of a process heating and cooling unit serving the intermix tyre machine.	Nov-96	R 228,000
TOYOTA SA MOTORS	SPRAY BOOTH HUMIDITY CONTROL SYSTEM	Design, supply, installation, commissioning and maintenance of chiller plant and modification to existing spray booth ARP's for close tolerance temperature and humidity control.	Jan-94	R 6.7 million