

SOCCER CITY (FNB) STADIUM

JOHANNESBURG, GP, SOUTH AFRICA

RECREATIONAL

THE WORLD CUP AND THE AFRICAN POT

Formerly FNB Stadium, Soccer City Stadium in Johannesburg underwent a major upgrade for the 2010 FIFA World Cup by transforming the 80,000-seat venue into a unique structure inspired by the shape of an African pot. Soccer City is currently the largest stadium in Africa with a capacity of 94,700 seats.

PROJECT DETAILS

With a mixture of environments and large-scale needs, Soccer City Stadium was loaded with an impressive list of conditioning equipment that included 347 water source heat pumps, 134 fans, 14 air handler units, and four computer room units. The main plant room was populated with four cooling towers, and four secondary condenser water pumps controlled on differential pressure.

Desmond Cory, a member of Redbase Systems, describes the MACH-Global™ as the workhorse of the installation, “We have two fully-loaded MACH-Global™ controllers. We are using the two subnetworks on the one MACH-Global™ controller to pick up the MACH2™, MACH1™, and MACH-Zone™ controllers.”

The entire installation is BACnet® which allows for integration into a third-party’s electrical power controls system.



PROJECT TYPE:

Retrofit

INSTALLATION TYPE:

HVAC, Boiler, Chiller

TOTAL CAPACITY:

94,700 seats

EQUIPMENT INSTALLED:

- 2 MACH-Global™**
- 2 MACH1™**
- 6 MACH-Global™ Output Expansion Card**
- 8 MACH-Global™ Input Expansion Card**
- 10 SPACE-Sensor Temperature**
- 14 MACH-Zone™**
- 21 MACH2™**
- 34 MACH2™ Expansion Card**

NETWORK:

Ethernet

INTEGRATION:

BACnet®

TOTAL SYSTEM POINTS:

735

RELIABLE CONTROLS® DEALER:

Redbase Systems

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www.reliablecontrols.com/projects/overview

