



Mining - Bulk air and Compressor Cooling

Industrial Water Cooling (IWC) is a South African based specialist EPC contractor which has been providing engineered cooling solutions to agro-processing plants across Africa since the 1980's. IWC has the engineering expertise, backed up by the experience, to provide cooling solutions to any agro-processing application.

Cooling applications within the mining industry typically include bulk air cooling, compressor cooling, and process related cooling. Our product range include cooling towers, heat exchangers and chillers as well as factory assembled 'package' type towers or field erected towers in a variety of materials (chiefly concrete or GRP).

IWC have worked on many projects across the African continent and further afield and client references are available on request. We are both ISO and OHSAS accredited.



Mining use cases

BULK AIR COOLING

The Challenge

Underground mines are now operating at ever increasing depths and are very reliant on the supply of both cold water and cold air. Mponeng Gold Mine in South Africa is recognized as the deepest mine in the world and operates at depths of over 4.0km's. The temperature at these depths can reach up to 65°C which has an impact on productivity and safety.

Our Solution

Studies have shown that a 1°C drop in the prevailing wet bulb temperature results in a 3 to 4% increase in productivity and improves the underground working environment. We provided a joint venture solution that facilitated the pumping of ice slurry into the mine to reduce and improve the working conditions and temperatures. Along with the ice slurry solution, Bulk Air Coolers (BAC) were also installed to produce cold air.

COMPRESSOR COOLING

The Challenge

Compressors on mines typically operate in very demanding conditions and are expected to perform 24/7 and require constant cooling to perform optimally.

Our Solution

Our range of factory assembled 'package' cooling towers provide these cooling requirements.



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