



AmerKool III™

Performance enhancement
for Gas Turbines



BETTER AIR IS OUR BUSINESS®

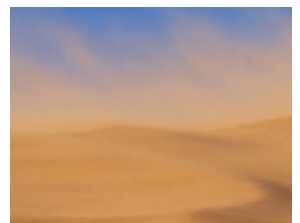


GAS TURBINE
SOLUTIONS

Best in class cooling solutions

AAF Amerkool III evaporative coolers help gas turbines realize greater power and lower heat rate during periods of high ambient temperature.

Right now, over 1000 MW are being gained on gas turbines each summer, using evaporative coolers provided by AAF.



Ambient Temperatures of up to 49°C

Economic benefits

Recover lost power

With humidification efficiency of 90% or greater, Amerkool III evaporative coolers achieve low intake air temperatures which help recover power lost to high ambient temperature.

Enhancing fuel efficiency

By cooling intake air, increase in heat rate is curtailed, leading to less fuel consumption.

Minimize site utility consumption

Fully automatic operation ensures that make-up water requirements are minimized while ensuring that circulating water quality is maintained within specification. AAF's incremental product development will ensure that control strategies are implemented which smooth out variations of flow and minimize power consumption during times of high ambient relative humidity

On a hot day in Gulf Coast Countries, with ambient temperature at 49°C, evaporative cooling will reduce inlet temperature by over 20°C. On large gas turbines the power recovered may be as high as 30MW, using just a 10 kW motor on a circulating pump.



Services

Water Management

AAF uses highly efficient Amerfans to prevent free water passing into the intake system. These vertical droplet catchers are industry leading in their water droplet efficiency.

Condition Monitoring

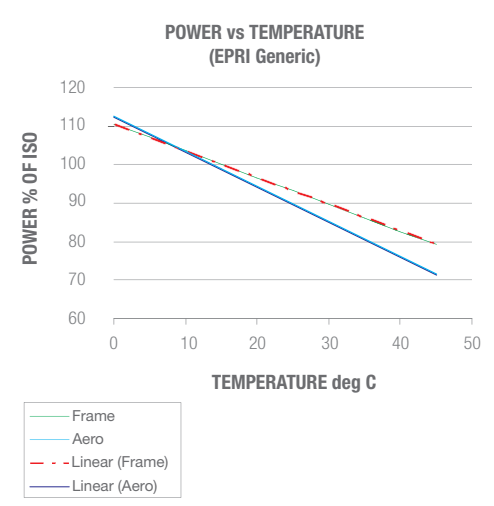
AAF's Active Filter Management reports back cooler parameters to the AAF Data Centre, ensuring that the cooler is being monitored regularly.

Combination with EPA

AAF is unique in providing EPAKool. Combining evaporative cooling with AAF high efficiency filters ensures that gains made by cooling are not offset by losses to fouling.

Turnkey

AAF can provide experience Site Supervisors or a complete turnkey service, with ongoing technical support.



AAF Gas Turbine Inlet Cooling Technologies include:

- Post filtration evaporative cooling (Amerkool III)
- Pre-filtration fogging (Amerkool FFF)
- Post-filtration closed circuit chilled water systems (Amerchill)

Quality, expertise and innovation

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For further technical information and to assess your upgrade requirements & potential operational benefits please contact: AAF Evaporative Cooling Team email: GTInletCooling@aafgb.com



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AAF has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice.