



INDUSTRIAL COOLING IN THE INDIAN OCEAN



The Challenge

An international food and drink supplier of canned fish called in temperature control specialists ICS Cool Energy as existing process air conditioning systems failed to cope in 35°C and temperatures soared at its plant in the Indian Ocean. It was making the working environment unbearable and having an adverse impact on product life and quality.



Russ Baker
Sales Director
(Hire)

"Not everyone can fly to the Indian Ocean to provide a fast fix. But we were straight on a plane and now there's a longer term solution in place."

WE MAKE IT WORK

The Solution

As a temporary measure during the on-site assessment, ICS Cool Energy technicians reinstated a faulty chiller which involved some modifications to the system and a replacement compressor.

The only spare compressor available was for a cold store operating at -20°C so the expansion valve was resized to match and a maximum operating pressure (MOP) style cap was selected as the compressor to ensure a maximum operating condition of -5°C .

Following a number of quick modifications, the solution supplied the customer with 120kW of cooling as a temporary fast fix while a longer term solution was processed.



The Result

Since the emergency visit, new equipment has been installed with enough power to combat the high ambient temperatures so the capacity of the system has been increased to provide 1,072kW of cooling, giving the factory and 800 staff comfortable air conditioning.

- Two new air handling units, with two new air cooled chillers.
- Heat recovery for greater energy and cost savings. Waste heat generated by the chiller is captured and used to preheat water to 55°C ; saving boiler fuel costs and energy.

ICS Cool Energy's technical team set up an automatic control system and provided essential maintenance training for the local staff to keep the plant running efficiently until the next scheduled maintenance visit.

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Our International offices:

Ireland: +353 (0)46 92 52934

Germany: +49 (0)7046 88087 0

Netherlands: +31 (0)88 258 258 0

Switzerland: +41 (0)55 415 91 09

Austria: 00800 0116 0117

France: +33 1 60 66 80 83

 UK HIRE: 0800 840 4210

 hire@icscoolenergy.com