

COOLNOMIX® saves 15% on refrigeration at Bonnie Doon Golf Club



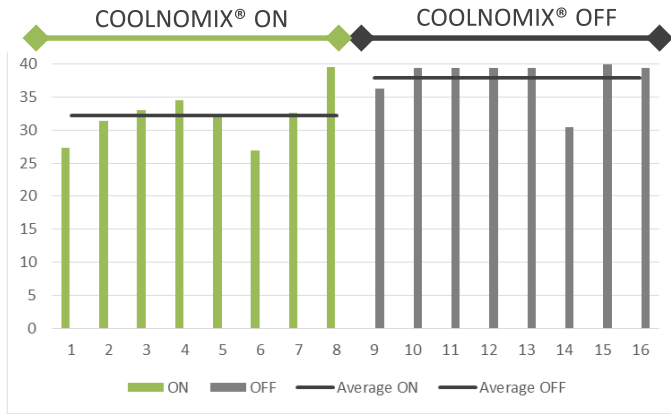
Bonnie Doon Golf Club installed COOLNOMIX® AC-01 on the main compressor supplying the cool room and bar fridges at the club located in Southern Sydney. The sites achieved savings 15% and significantly improved operation to maximise equipment life.



Site	Bonnie Doon Golf Club Banks Avenue Pagewood NSW 2XXX
Type	Golf Club
System Details	1 x Bitzer compressor supplying cool room and bar fridges
Control System	Sentien Electronics Controller
Operation	Internal set point temperature 4°C
Case Study Details	Monitoring period: 7 th July 2015 to 31 st October 2015.
Results	Average daily kWh without COOLNOMIX®: 38.0kWh Average daily kWh with COOLNOMIX®: 32.2kWh Savings: 15.3%

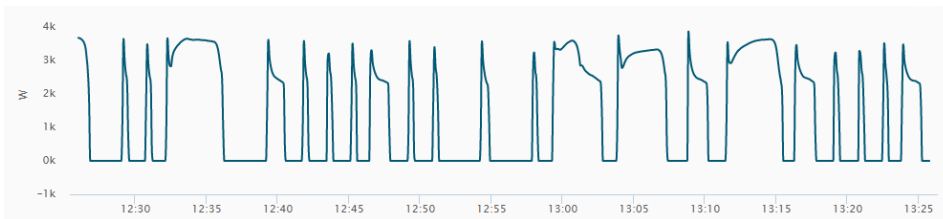
Bonnie Doon Golf Club COOLNOMIX® Case Study Results

COOLNOMIX® demonstrated savings of 15.3% over the time periods compared. The periods analysed were selected for their comparable ambient temperature profile. The chart below shows the performance of COOLNOMIX® reducing power consumption consistently across the test periods.



Electrical Data Logging

The case study included the monitoring of detailed power consumption profiles of the compressor. The below demonstrates the profile observed prior to COOLNOMIX® being switched on. 20-25 stop/start cycles were observed per hour due to the bar fridges activating the compressor separately to the cool room.



As part of the COOLNOMIX® installation process the operational control configuration was modified to minimise the short cycling as shown below:

