



CASE STUDY

SNAP FITNESS

Coolnomix® Report,

Report compiled by David Groves 04/09/2022

tutumenergy.es





Annual Savings for Snap Fitness from this pilot:



kWh

23,572.92kWh representing a reduction of 74% per year in energy consumption



CO2

6,623.99 kg or 6.62 tonnes



Financial Savings

of £7,071.88



Coolnomix®

Reduce the energy consumption of your air conditioning and refrigeration without affecting the output you need. Our technology is maintenance free and can be easily installed by our qualified engineers with no disruption to your operation.

We keep your people, equipment and produce cool, and your energy budget from overheating.

About **snap fitness**^{24/7}

Snap Fitness is a privately owned and operated health and fitness club founded in 2003, their headquarters are based in Chanhassen, Minnesota, USA.



OVERVIEW

Tutum Energy and Snap Fitness agreed to carry out a 4 week trial on two air conditioning units in their Gym and Studio in their Ilkeston branch.

TRIAL

- Coolnomix® units were installed and connected to two air conditioning units. In order to correctly measure the kWh consumption of these units, smart meters were connected to each of the external condensers for both the air conditioning units and refrigeration unit.
- The units were installed and activated on 11th August 2022. The units were set to run in weekly cycles with:

Coolnomix® OFF - Coolnomix® ON - Coolnomix® OFF - Cool-nomix ON (mode for 4 weeks or 28 days in total).
- During the pilot the metered half hourly and daily data has been downloaded and analysed. This data is available to the engineering team at Snap Fitness.





RESULTS

Snap Fitness, England



DAILY

- Coolnomix® active (ON) reduced daily energy consumption by 74% reducing kWh consumption across the 2 pilot AC units by 64.58 kWh per day.
- This saving is based on average daily consumption of electricity with Coolnomix® ON and Coolnomix® OFF over the 28 day trial period.



DAILY ENERGY CONSUMPTION (KWH) AND SAVING WITH COOLNOMIX®			
Site	Daily consumption (kWh)		Daily savings (kWh)
	OFF	ON	
Snap Fitness (Ilkeston branch)	86.76	22.18	64.58

CONSUMPTION BY AC UNIT PER DAY (KWH)				
Site	Daily consumption (kWh)		Daily savings (kWh)	Daily savings (%)
	OFF	ON		
Snap Fitness Studio AC	47.52	16.55	30.97	65%
Snap Fitness Gym AC	39.24	3.63	33.62	86%
Total	86.76	22.18	64.58	74%

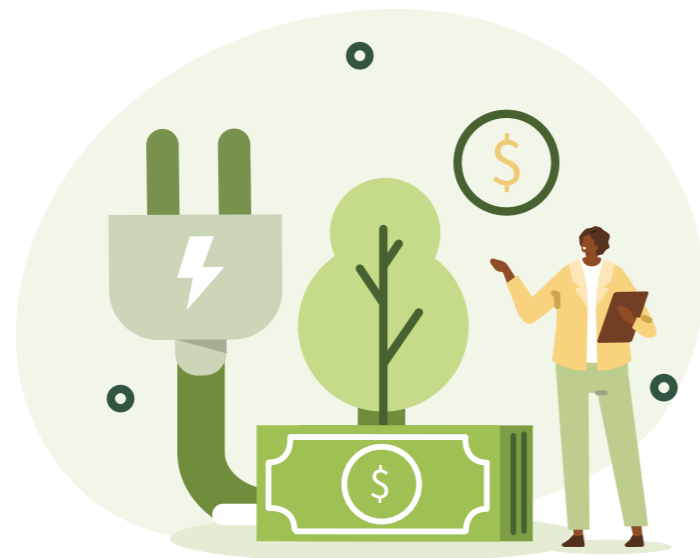
ANNUAL ENERGY REDUCTION & SAVINGS FORECAST (2 AIR CONDITIONING UNITS)			
	kWh	Financial savings	CO2 (kg)
Daily	64.58	£19.38	18.15
Weekly	452.08	£135.63	127.04
Monthly	1,964.41	£589.32	552.00
Annually	23,572.92	£7,071.88	6,623.99



CONCLUSION

The pilot accurately confirms energy savings for kWh and CO2 reductions across the 2 AC units. The financial savings have been based on a trial site electricity supply cost of 0.30p per kWh. With average electricity prices set to rise beyond 0.40p per kWh over the next few months and with further inflation forecast over the coming years the savings model and Coolnomix® payback period will only improve.

Spread over an estimated AC estate across Snap Fitness clubs consisting of 100 suitable units the annual benefits of installing Coolnomix®, based on the pilot results will be as follows:



Energy Reduction & Savings Forecast (based on 100 Coolnomix® units installations)

Year 1

kWh = 1,178,646 kWh per year
CO2 savings = 331,200 kg or 331.2 tonnes
Financial savings = £353,594

(based on the average of 32.29 kWh per day)

After 5 years

kWh = potentially over 5.8 million+ kWh saved
CO2 = 1.6 million+ tonnes saved
Financial savings = over £1.7 million

After 10 years

kWh = potentially over 11.7 million kWh saved
CO2 = 3.3 million+ tonnes saved
Financial savings = over £3.5 million

WE'RE AHEAD OF THE GAME

We deliver a powerful suite of solutions that reduce your carbon emissions, save you money with lower energy bills and generate revenue from being a more flexible energy user with the help of today's leading technology.

[See our Coolnomix® brochure and videos](#) / [See our other solutions](#)



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