



Case Study – Can Line Beer

Increase Temperature

Location : Europe Beer Canning Line
Target : Increased Fill Temperature

Total Annualised Benefit
€ 88,246

Situation : The brewer was filling 5000 ml cans at 80,000 cans per hour on a Krones volumetric filler with approx. 70% of product filled was lager, 30% light beer and 20% dark beer. Operational performance of the line had required that the beer was chilled to 10°C to reduce foaming from an ambient temperature of 15oC. Additionally, the beer was flash pasteurized and cooled before the filler (filling temperature of 10°C) so energy required to chill the beer down following the pasteurization step prior to filling and then even greater energy utilized for the can re-warming (back up to 15°C) step post the seamer to avoid condensation and quality issues.

Solution : Cavitus fitted a Gen2 Foam Control unit to the line, rated to 120,000 cans per hour. As this line had high foam levels and a speed of 95,000cphr the larger powered unit was recommended. The Cavitus unit was fitted just before the last CO₂ bubble breaker and 40 cm prior to the seamer entrance. The installation of the transducer/sonotrode on the conveyor was completed in 20 minutes and the cabinet control panel was fitted outside of the filler and completed in under 2.0 hours.

Result : By applying the Cavitus foam control system, increased beer filling temperature from 10°C to 15°C

reducing the energy requirement for chilling and can re-warming post the seamer.

Payback period for the client was less than 9 months.



Business Case returns based on an average 95,000 cph facility, operating for 7200 hours per annum at OEE of 62%, 330 ml can

Improvement	Est Volume per annum	Value
Energy Saving from 50C temperature increase on chiller	Saving of 92 KW per hour for 4,464 hours @ €0.14 per KWH	€ 57,496
Energy Saving from 50C temperature increase on rewarmer	steam saving of 7,883 MMBTU @ €6 per MMBTU	€ 15,750
CO ₂ bubble breaker saving	Saving on CO ₂ from turning off CO ₂ bubble breaker	€ 15,000
Total Savings		€ 88,246

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