

CASE STUDY

AERZEN TRUSTED FOR ATEX SOLUTIONS

Customer choose AERZEN to provide robust, reliable and safe equipment for hazardous applications.

TAILORED

Solutions to suit customer needs

RELIABLE

Typical AERZEN quality

SAFETY

Gas-tight and ATEX certified



BACKGROUND

Ensuring plant safety whilst maintaining reliability

The customer has a long previous experience with AERZEN equipment in Ireland. On site they manufacture active pharmaceutical ingredients, to empower patients of all ages to live healthier lives.

As as part of plant modernisation and in line with recent regulatory advances the company decided to replace the previous 20+ year old units serving the Balance Tank Vent process.



AERZEN had the technical ability to understand the requirements of this non-standard application and modify their design to suit us”

Technical Manager
On site



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AERZEN

THE SOLUTION

Safe, reliable blowers for hazardous processes.

AERZEN gas boosters are designed specifically to handle toxic, corrosive and flammable media. With several key design features in place of those those expected on a typical air-blower.

1

Up-rated materials – no according to EN1012-3:2013, housing parts in up-rated nodular cast iron to provide sufficient ductility. Silencers and ancillaries in stainless steel for corrosion protection.

2

Gas-tight sealing – shaft seal by double radial lip seal with grease barrier, inboard by piston ring labyrinth with neutral chambers routed to the suction side of the unit or purged.

3

Up-rated design – TÜV certified single event Explosion Proof unit proven via hydrostatic test up to 31.5bar.

4

ATEX Certified – according to Cat 2, Zone 1, IIB, T3 including provision of ATEX-certified motors and instrumentation. Other zoning on request.



Type of technology	Rotary lobe blower
Version	Gas-booster
Volume flows	110 to 9,000 m ³ /h
Overpressure	1,000 mbar
Conveying media	Toxic, flammable and corrosive gases

THE RESULT

Powerful performance, economical consumption.

The two up-rated AERZEN GM 4S Delta Blowers are installed in duty / standby configuration on the existing plinths, and play a key role in removing the build up of potentially flammable vapours, which are then recirculated in the balance tanks to ensure mixing and replenishment of micro-organisms.



New AERZEN units (above) replaced older AERZEN units (right).



Quieter performance and smaller footprint

SUMMARY

By choosing AERZEN once again as a supplier, the customer have ensured the continuity of operation of both onsite water treatment plant (WWTP) and wider manufacturing operation, whilst in parallel assuring plant safety and reliability.