

Food, Beverage & Dairy Projects Flexachem support





Summary

- Privately owned Cork based company founded in 1982
- The company portfolio delivers expertise for our customers across all business sectors
- Product focus of Safety through Reliability of performance –
 Giving our customers improved Uptime
- Focussed portfolio support via dedicated teams in Process Equipment, Valves, Pumps & Mechanical Seals



- Chemical
- Pharmaceutical
- Biotechnology
- General Process Industries
- Refinery plants
- Energy generation
- Paint
- Cosmetics
- Food and Beverage
- Meat Processing
- Water & Waste Water treatment
- Steam & Utility Applications
- Contractors & Process Skid Builders











Partnership approach with our clients to deliver engineered solutions to meet your application & performance needs – from component to project turnkey

General summary



Process

- Production solutions
- Product blending & CIP Skids
- Tank cleaning
- Heat Transfer -Heat exchangers
- Tank Agitators
- Tank breathing & Safety
- Pipeline components
- Waste treatment

Valves

- Divert
- Mix proof
- Isolation
- Control
- Block + Bleed

Pumps

- Centrifugal
- Vacuum
- Positive displacement
- Helicoidal

Seals

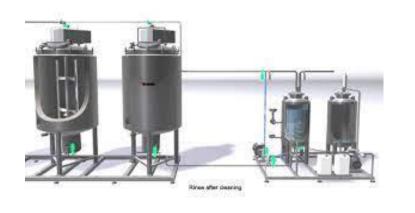
- Agitator seals
- Pump seals

Production solutions – For all these applications

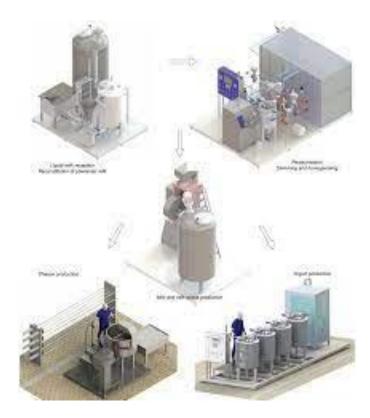
Dairy, Sauces, Yoghurt, Creams, Pasteurisation...



Production solutions

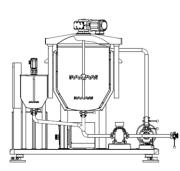






Sample skids with high shear









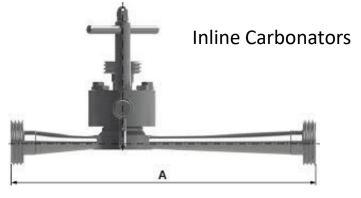
Production solutions —

Pressure venting, Carbonation for brewing & Degassing, Pigging systems













Degassing skid

Pressure relief





Product Blending — Liquid and powder addition, homogenisation..etc









CIP Skids – Mobile, semi + fully automated

























Class 1 — Static spray ball Range up to 5.2 metres

Class 2
Rotating spray ball
Range up to 2.6 metres

Class 3
Rotating spray ball
Range up to 3.0 metres

Class 4
Rotating spray ball
Range up to 9.5 metres

Class 5
Rotating spray ball
Range up to 24.0 metres

Tank Cleaning



Product Heat Exchangers



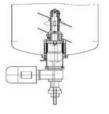


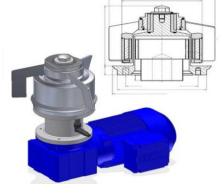


Kelvion





















Top entry agitators

Tank Agitators – Top, Side or Bottom entry

From small vessel to larger silo, we cover all tank mixing applications









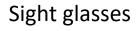


Vapour control







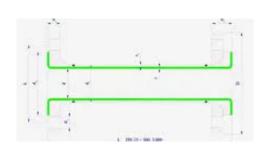




Expansion Bellows

Tank Level Gauges

Pipeline & Tank components











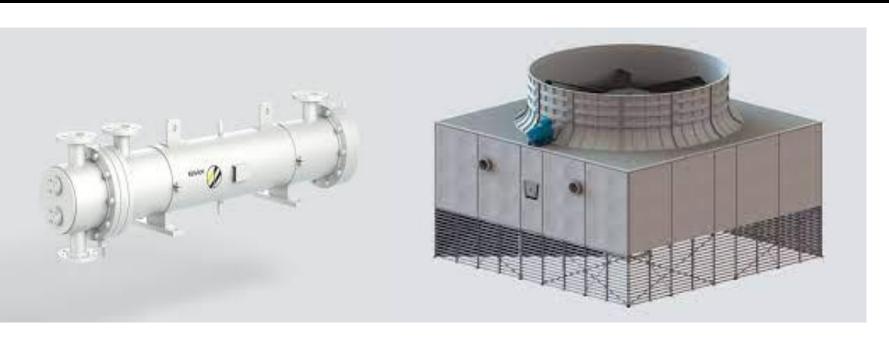






Corrosion resistant pipework

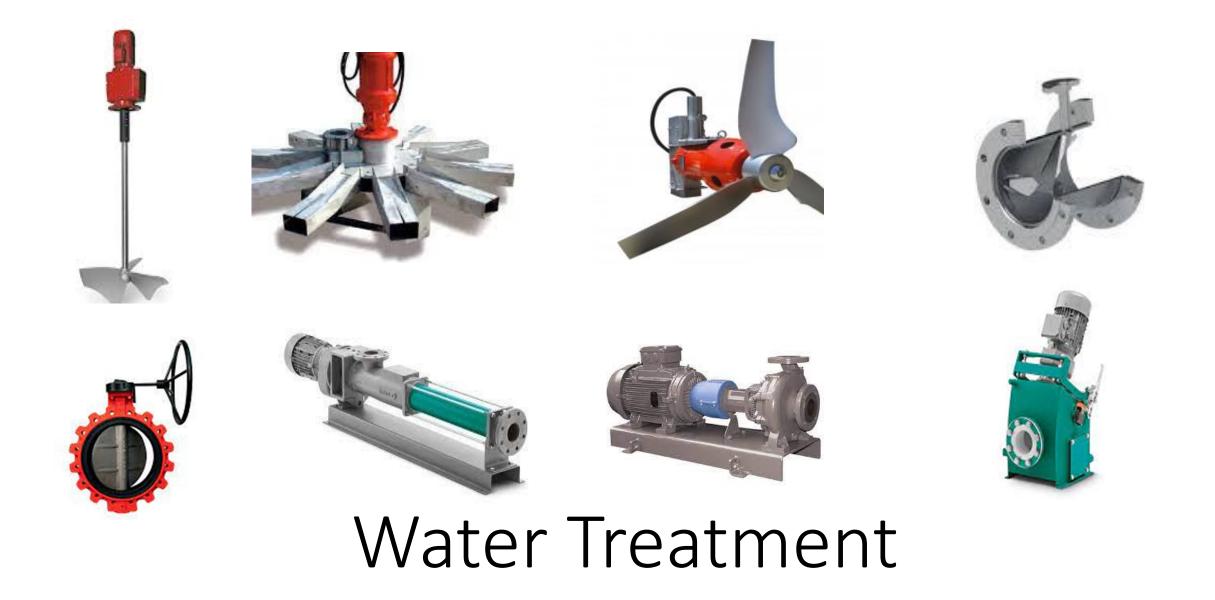
Utilities - Heat Exchangers & Cooling Towers





Shell & Tube Cooling Towers Plate + Frame





Tank agitators, static mixers, valves, pumps, submersible pumps, submersible agitators, surface & immersed aeration + diffusers

Product Valves





































































- Durco Mark3 Process pumps
- Innomag Magnetic drive Sealless pumps
- SIHI Vacuum pumps
- Seal pots
- Commissioning & Alignment













Mechanical Seals

Project Flow

Basic Process Flow Diagram

 Define basic volumes, flow rates and pipeline sizes end to end

Detailed Process Flow Diagram

 Evolved specification and URS development Mechanical specifications

Overlay P&ID

 Inclusion of instrumentation, control and automation

Specification for enquiry

- Bill of materials listing
- Partnership commentary and submission of costs
- PO discussion

Equipment schedule

- Delivery
- Install
- Close out

Technical Comment

We encourage discussion on options to maximise efficiency & optimise the budget

ATEX discussions will have a bearing on solutions offered

Lead times options will also be tabled

Site commissioning and sign off protocol to be agreed per product type in advance of purchase

Service engineers subject to our partners rate of site costs

Lead times

- Depends on the capital equipment type
- Longer lead items are typically production skids and CIP skids however, most items fall into the 6-16 weeks bracket for delivery once specifications are known & confirmed with the factory
- Lead times are dependent on specifications agreed for the duties, factory loading, materials availability, payment stages and client approval for any drawings relevant for manufacture



Finance

- Once overall budget is worked out this can be discussed
- A value package will also be available for multiple equipment spend
- Typically for CAPEX spend, stage payments will be involved
- Formal Purchase Order required for ISO audit purposes



Project Support







Process

- Michael Bradley

Pumps

Phil Soltan

Valves

BrendanMerrigan

Michael.Bradley@flexachem.com

Mobile +353 86 0476178

Phil.soltan@flexachem.com
Mobile +353 86 1853782

Brendan.merrigan@flexachem.com

Mobile +353 87 2598124