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Amarinth’s scalable pump seal support system ATUs are ideally suited to short lead time contracts

Amarinth, a leading company specialising in the design, application and manufacture of centrifugal pumps and associated equipment to the Oil & Gas, petrochemical, chemical, industrial and power markets, now offers a scalable, configurable range of pump seal support system Automatic Top Up Units which are designed and manufactured in-house and can be completed to meet short lead time contracts.

Automatic Top Up Units (ATUs) enable the automatic refilling or topping up of Plan 53B barrier systems which maintain a constant barrier fluid supply through the seal system to the pump shaft seal, preventing leakage of the process fluid to atmosphere. Although ATUs are available from other suppliers, the long lead times of these units (typically 32 to 40 weeks) does not meet many of today’s shorter pump lead times which Amarith is experiencing, especially with the recent upturn in pump orders being placed by the Oil and Gas industry.

With no definitive API standard for ATUs, end-user specifications define the design, construction and test of these units which means every package has historically been bespoke, significantly extending lead times. Drawing on its decades of industry experience and knowledge of end-user specifications (for example Shell DEP, ADCO, Norsok, BP DGS and Petronas), Amarith has therefore developed a comprehensive and modular approach that is suitable for a broad range of applications and end-user needs.

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The ATUs, which are all manufactured in-house, are scalable and configurable enabling them to be completed to suit short lead time contracts, which can often be under 22 weeks, whilst continuing to meet stringent customer specifications and restrictive customer vendor lists for all instrumentation, valves and controls.

ATUs can be assembled to suit anything from a single pump to multiple charging pumps and in addition to the number of pumps, the system is readily scalable for the length of time the pumps are run. Amarith has already provided ATUs with tanks of working capacities in excess of 300 litres and greater capacities can be achieved within a scaled footprint. Manufactured from 316L stainless steel, meeting or exceeding all standard requirements, the Amarith ATUs are fully ATEX compliant. Safety is paramount, and the ATUs come as standard with a non-return valve on the feed line to the seal system, pressure control valves to relieve excess pressure and a level transmitter in the tank to warn of low fluid levels.

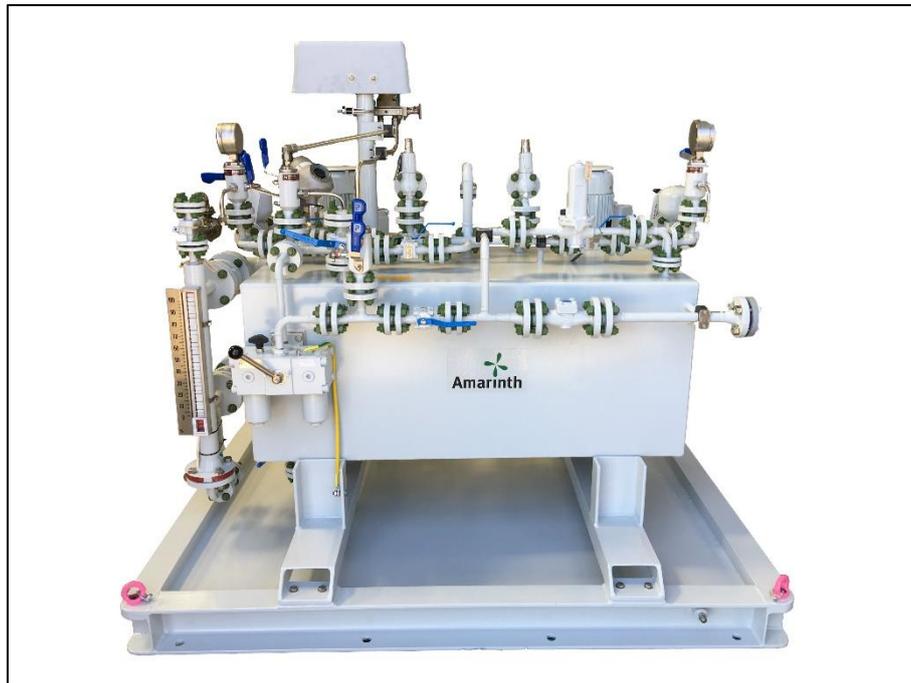
The layout of the Amarith ATU is designed with function and maintainability as the key parameters with carefully organised and consistent venting and drains throughout. An easily accessible basket strainer is provided with a differential pressure alarm to remind that filter cleaning is required. There is also an integral instrumentation sunshade to assist readability in bright conditions and to protect from solar temperatures. Safety equipment such as safety relief valves can also be included within the same layout allowing flexibility to suit a particular contract.

Drawing on its proven engineering agility and sound business processes, Amarith is working with a select group of suppliers to achieve a lead time of under 22 weeks if the contract requires it. All components are from approved vendors ensuring the whole system is fully compliant with a customer's requirements.

Oliver Briggshaw, Managing Director of Amarith, commented: “The recent increase in new pump orders we are experiencing is demanding ever shorter lead times and one of the longest lead time items in a system has been the ATU. By bringing the design and manufacture of these units in house and leveraging our proven skills in agile engineering, we have been able to make this breakthrough in design so that we can continue meet the evolving needs of our customers.”

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OPTIONAL PANEL or BOX ITEMS



One configuration of the Amarith Automatic Top Up Unit

NOTES TO EDITORS:

Founded in 2002, Amarith has harnessed the skills, creativity and passion of people who have worked in the pump industry for many years. Amarith delivers world-leading expertise in the design, application and manufacture of centrifugal pumps and associated equipment to ISO, ANSI & API standards, primarily for the Oil & Gas, petrochemical, chemical, industrial and power markets. The company's portfolio includes:

- **Pumps:** Horizontal and vertical API 610 pumps, chemical and industrial pumps, many of which are interchangeable with the Girdlestone pump ranges, eliminating the need for expensive modifications when replacements are required.
- **Pressure Vessels:** Protect System Plan 52 and 53A and 53B sealant systems with inbuilt condition monitoring for pumps and mixers that are suitable for Safe area up to Zone I.
- **Spares & Service:** High quality, fast lead time re-engineered spare parts to improve performance and extend pump life, including many which are directly interchangeable with the Girdlestone pump ranges.
- **Packages & Modules:** Condensate Recovery Units manufactured for Spirax Sarco incorporating the innovative Ci-Nergy intelligent variable speed control system, plus bespoke packages & skids built to order.
- **Business Systems:** state-of-the-art e-commerce technologies that deliver 24/7 support enabling customers to select pumps and place orders on-line and then track every stage of manufacture through to delivery, any time, anywhere in the world.

The company operates globally from its base in Rendlesham Suffolk, United Kingdom and has a customer base of world-leading companies, including BP, Shell, ExxonMobil, GlaxoSmithKline, Pfizer, Spirax Sarco, Diageo, AMEC, Fluor and Halliburton.

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