

Industrial
Solutions Overview

Armstrong **Industrial**

FILE NO: IND001 DATE: APR 2026

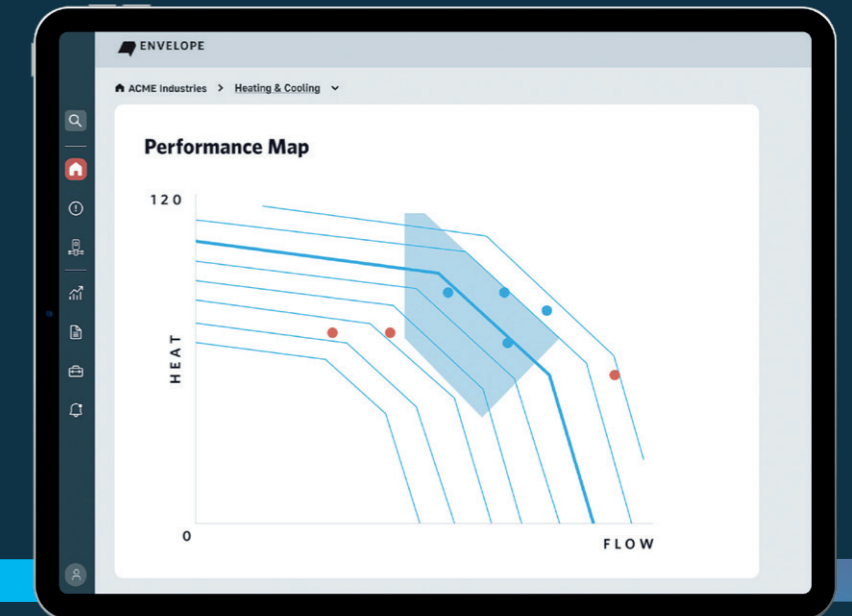
Leading fluid flow and gas solutions that drive sustainability.



Nobody sees the whole system the way Armstrong does.



Scan the QR code for further information.



Armstrong **Industrial** is a division of Armstrong Fluid Technology, leveraging over 90 years of global experience in a wide range of sustainable gas and fluid flow applications.

Our solutions embody demand-based control and digitalised optimisation to deliver superior performance and create the greatest value for customers.

We see the whole system through a distinctive lens, continually optimising performance through our Armstrong Envelope platform, creating extensive datasets of component operations for performance mapping.

Driving sustainability

Our vision is to create the benchmark for mechanical plant standards – propelling us towards a greener, safer and more sustainable world for all.

Armstrong **Industrial** combines the core capabilities, expertise and strengths of Armstrong Gas Transmission Systems and Pressure Systems. This allows us to deliver leading fluid flow and gas solutions that drive sustainability by improving energy efficiency and reducing both carbon emissions and embodied carbon.

Single channel to diverse industry solutions

Through our customer-centric approach, Armstrong **Industrial** provides a comprehensive range of fluid flow and gas solutions through our sector-focused approach:

Armstrong Industrial: Fluid caters to primary sectors (such as mining, quarrying and forestry) and basic materials sectors (such as iron, steel, cement, glass and paper), as well as sectors related to food, textiles, consumer products, pharmaceuticals, chemicals, manufacturing, energy and environmental services. We also have capabilities for applications in new emerging technologies such as hydrogen production and nanotechnology.

Armstrong Industrial: Gas focuses on the oil and gas sector (upstream, midstream and downstream) and energy utility applications such as gas distribution and thermal power generation.

Envelope by Armstrong Fluid Technology

Envelope is an integrated digital platform that unites Armstrong **Industrial** products and partner solutions, delivering system optimisation through Performance Mapping, cutting-edge analytics and lifecycle services – leveraging our intelligent control systems to ensure that our solutions operate at their best efficiency throughout their life.

Our **Design Envelope** product solutions incorporate intelligent control and automation software, using demand-based control and ensure high efficiency performance at part-load operation.

Our **System Envelope** solutions combine our solutions to deliver pre-packaged system solutions such as our intelligent fluid management systems, booster sets or fully engineered to order package plant rooms (PPRs).

Our **Enterprise Envelope** solutions offer optimisation for complete systems, beyond just our own equipment (such as boilers or chillers). These solutions come into their own in fields such as district energy networks.

The result is lower energy use, installed cost, operating cost and carbon emissions – as well as lower project and operating risk.

Pumps and fluid solutions for advanced HVAC performance management.

Design Envelope Energy Efficiency Solutions

Design Envelope is a demand based intelligent control system that dynamically adjusts equipment operation to match system demand.

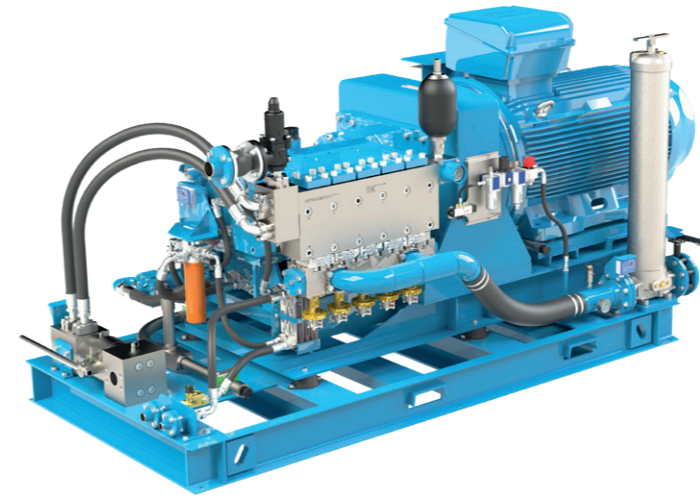
Design Envelope Permanent Magnet (DEPM) Motor Pumps

Design Envelope pumps are a broad range of intelligent vertical in-line, twin-head or end-suctions pumps in up to 900kW (1250HP) sizes, which can be configured to suit any application requirements.

Our patented Tango pumps offer two motors in a shared casing to save floor space. The pumps operate in parallel to maximise energy savings but can also continue to operate independently during maintenance to ensure performance is not disrupted.



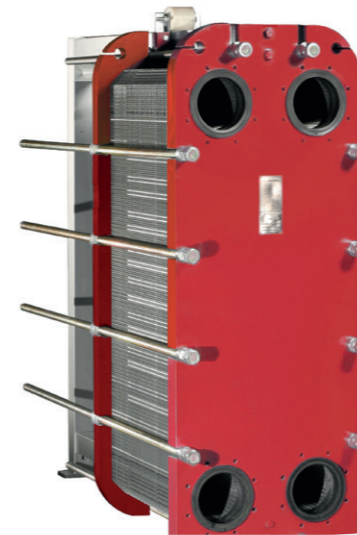
DESIGN
ENVELOPE



High-Pressure S Range Reciprocating Pumps

The S Range of reciprocating plunger pumps provide a safe and reliable supply of high-pressure water-based fluids for heavy industrial applications.

Available in three plunger (Trimax) or five plunger (Quinmax) models up to 500hp (375kW) and can be supplied as part of a fully configured system to suit the individual application needs.



Heat Exchangers

Armstrong heat exchangers provide dependable, efficient performance for a broad range of commercial and industrial applications where fluids must be quickly heated or cooled.

Our range of shell and tube, brazed and plate and frame heat exchangers offer industry-wide compatibility and are available in numerous material and working pressures to suit the most demanding requirements.

Commercial Gas Boilers

Our new range of wall hung and floor standing high efficiency boilers have been specifically crafted for commercial gas applications.

Designed with efficiency and sustainability in mind, these boilers offer 98.2% operating efficiency with low carbon and NOx emissions. Optional remote active performance management enables real-time performance monitoring and proactive maintenance.



3760 Pressurisation Units

The Armstrong 3760 Pressurisation Unit range offers a complete suite of products and combinations of pressurisation, dosing and degassing features to ensure the effective operation and efficiency of any large commercial or industrial sealed HVAC system.



Design Envelope Integrated Control Systems

Armstrong's Integrated Control Systems deliver advanced cooling automation that optimises the operation of multiple variable speed pumps, fans and cooling towers or fluid coolers.

Benefit from energy savings up to 20% and water savings up to 3%, compared to a constant flow configuration.





System Envelope Plant Automation and Optimisation Solutions

Systems Envelope SE-A optimises air-cooled systems. The Armstrong Systems Envelope - A10 and A20 boosts energy efficiencies of new and existing chiller plant installations to leading class levels. It works with all variable primary configurations, keeping the entire plant - including both air-cooled chillers and chilled water pumps - running at optimum performance and occupant comfort.

Enterprise Envelope EE-W optimises water-cooled systems. The W10 and W20 controllers boost the efficiency of new and existing chiller plant installations. They work with all variable primary configurations, keeping the entire plant - including water-cooled chillers, cooling towers, chilled water and condenser pumps - running smoothly for optimum efficiency and occupant comfort.

System Envelope Energy Transfer Station (SE-ETS)

The SE-ETS is a factory-assembled and fully tested packaged system, complete with integrated system controls for seamless operation. It consists of a single, twin or triple heat transfer module that incorporates up to three brazed plate heat exchangers and pumping modules (with tango pumps or a Tango pump-and-pressure independent control valve options) which can be configured to suit space available on site.

It has exact heat transfer mapped curves embedded in its control software to enable the system to proactively optimise flow, and reduce energy consumption by more than 30%.



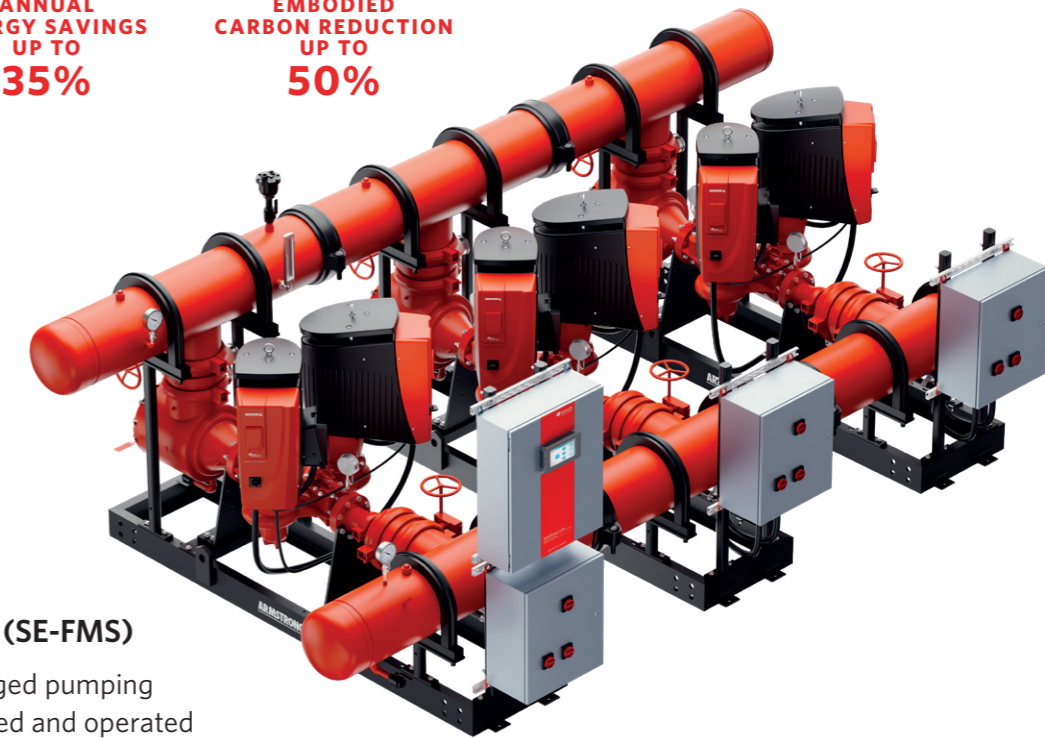
INSTALLED COST SAVINGS UP TO **30%**



ANNUAL ENERGY SAVINGS UP TO **35%**



EMBODIED CARBON REDUCTION UP TO **50%**



System Envelope Fluid Management System (SE-FMS)

SE-FMS simplifies how packaged pumping systems are designed, delivered and operated by bringing key stages of the system life cycle together.

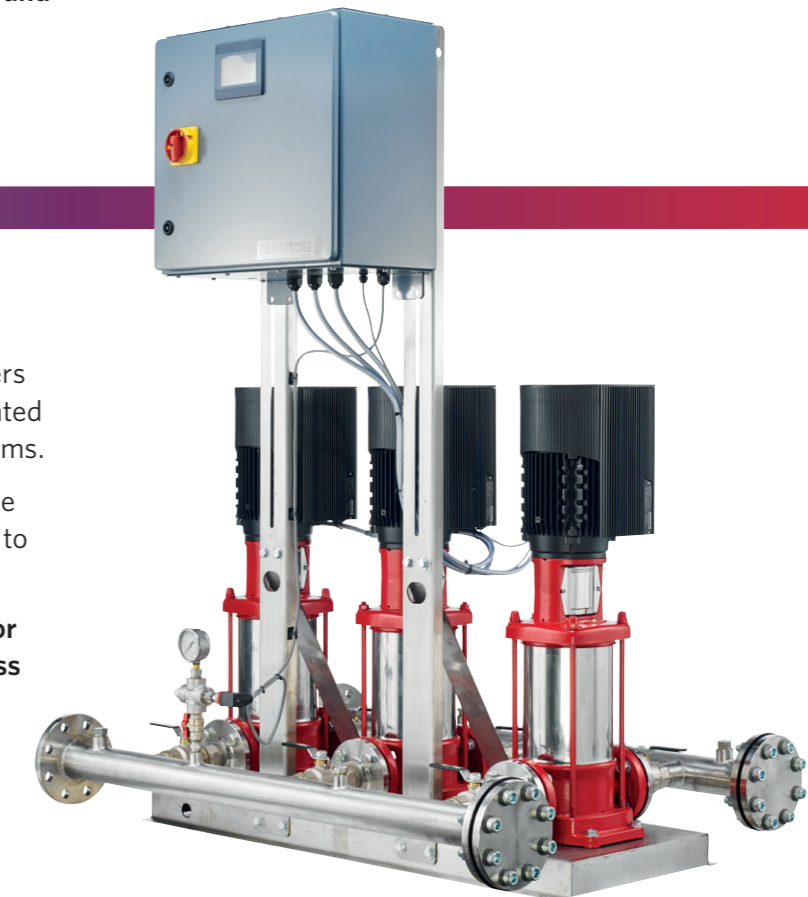
SE-FMS is a modular system that removes operational inefficiencies, saves time and money, enables optimised performance, and reduced lifecycle cost.

Design Envelope 6800 Boosters

Armstrong Design Envelope **6800** Boosters are fully assembled, programmed, integrated and factory-tested turn-key booster systems.

They are equipped with vertical multistage pumps and come in arrangements of two to five pumps.

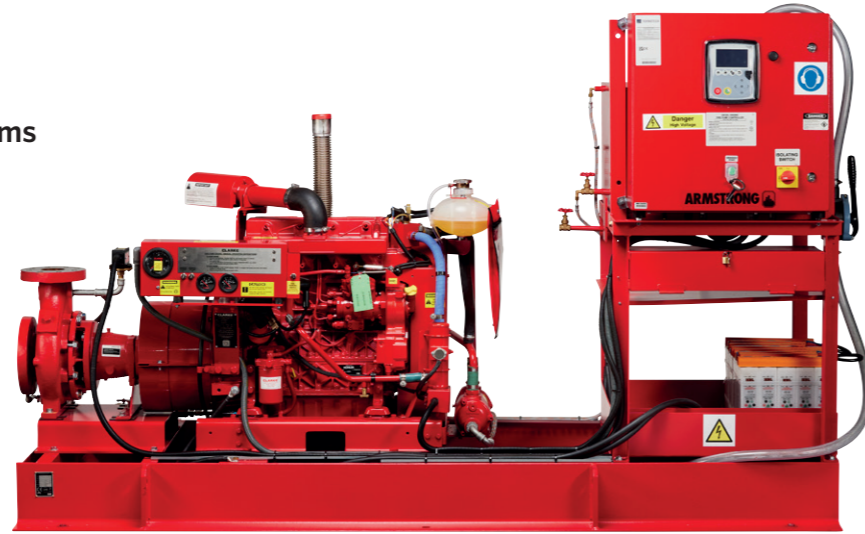
The integrated controls allow for superior performance and energy efficiency across broad operating envelopes.



Fire Pump Series / Fire Protection Systems

Armstrong fire pumps are state-of-the-art and available with a diesel or electric motor, meeting or exceeding the requirements of NFPA, UL, ULC and FM.

The compact pump design and reduced footprint make them perfectly suited for use in new construction, packaged fire systems and retrofit installations.



**COST SAVINGS AT
CRITICAL DUTIES
UP TO
20%**

Reduced Embodied Carbon

Ceramic components have 40-60% lower carbon footprint than steel



High-Pressure Umbilical Flushing Unit

Industrial high-pressure pumping solution that combines proven reliability with advanced efficiency technology - optimising operations while reducing energy consumption and operation costs.

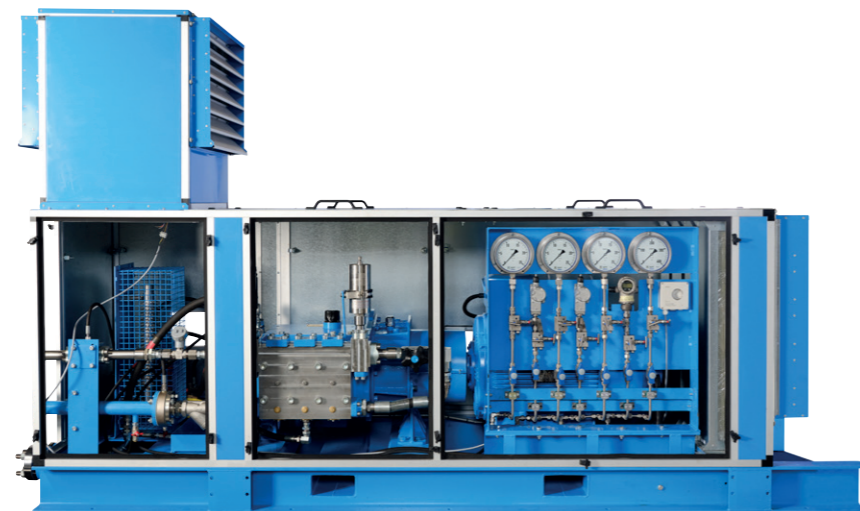
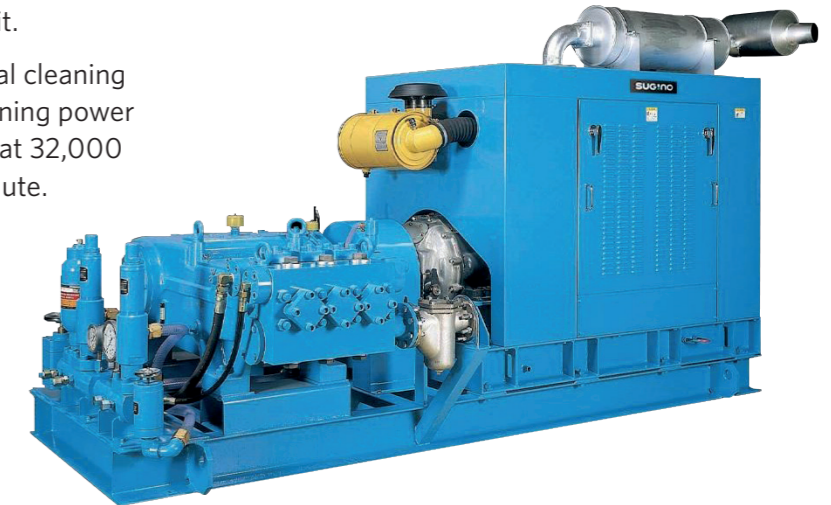
Features real-time monitoring and optimisation capabilities together with smart diagnostics to help optimise service schedules.



Mobile Ultra High-Pressure Wash Unit

An integrated mechanical, hydraulic and electrical safety controls in a versatile portable unit.

The mobile UHP wash unit is an industrial cleaning system designed to deliver extreme cleaning power for demanding environments, operating at 32,000 PSI with a flow rate of 10 gallons per minute.



High-Pressure Wash System

Engineered for industrial fan, duct and surface cleaning applications.

Armstrong's high-pressure wash systems deliver 20-30% energy savings and a 20-30% reduction in CO₂ emissions with extended equipment life - meaning fewer replacements and less landfill.

Modular Heating System

The Armstrong Modular Heating System is designed as individual modules to allow easy installation on site into existing enclosures.

The compact and flexible design minimises space required with a flexible configuration to suit site requirements.

It is a complete heating system including boilers, pumps, valves, pressurisation system, controls, electrical isolators and electrical containment.



Fully Packaged Solutions

Armstrong pre-fabricated packaged solutions include a combination of: structural, process equipment, controls, electrical gear, and environmental enclosures that are designed and fabricated to customer specifications.

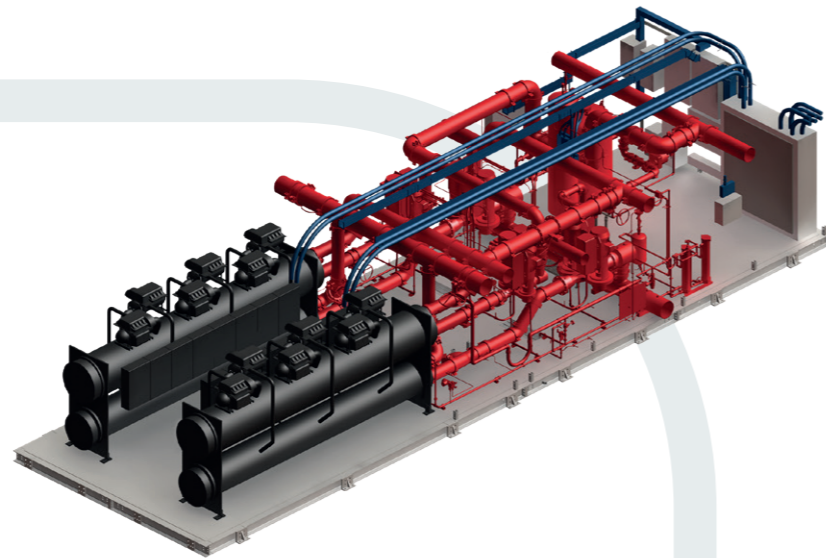
Tested to the highest quality standards, they are designed to reduce project timelines, installation cost and project risk.



Gas Boiler Houses

Our modular heating systems can also be delivered to site in a factory fitted enclosure.

- Architectural steel building panels or grp building options
- Integral or standalone instrument room
- Integral generator



Modular Packaged Plants

Armstrong heating and chiller system designs and full factory integration reduce the on-site civil structure as well as process superstructure requirements. Off-site fabrication cuts on-site overhead costs, associated risk with traditional field fabrications, and can speed up project lead-time.

We also offer modular packaged solutions for pressurisation plant, water treatment and HV/LV switchgear.

Fire Pump Houses


Armstrong enclosed fire pump packages combine a fire pump system, piping, electrical and exhaust components, and a weather-proof enclosure. Pump packages are designed, built and tested in a controlled ISO 14000 certified factory environment and shipped to site ready for installation.



360 SERVICE
AND
SUPPORT

**24/7 GLOBAL
RAPID RESPONSE**

360 Service and Support provides complete solution support for engineers, contractors and owners. Working collaboratively with our network partners, we provide cost-effective support resources to help you get the best possible performance from your mechanical systems.



For more information, contact your
Armstrong representative or visit us at:
armstrongfluidtechnology.com/en/industrial/home

ARMSTRONG FLUID TECHNOLOGY®
ESTABLISHED 1934