



Packaged solutions

Built off-site | Benefits on-site

AT ARMSTRONG, WE'RE
MAKING ENERGY MAKE SENSE.
We design, engineer and
implement totally integrated
intelligent energy solutions.

From pump and chiller upgrades to
complete energy centre installations,
we work in productive partnerships
with private and public sector clients
throughout the UK to deliver innovative
and robust solutions - with ongoing
support and single source responsibility.

1934

Since our founding in 1934 by Samuel Allan Armstrong, our company has pioneered an uncompromising range of products and solutions for customers. From the very beginning, our name has been a benchmark for quality in design, engineering and manufacturing.

In 1952, our company, under the direction of James A.C. Armstrong, began to institute bold initiatives across the entire spectrum of our corporate activities that set our course for the next 30 years. In the decades that followed, we developed new technologies, established international manufacturing operations and expanded into more diverse markets.

ALWAYS WITHOUT COMPROMISE

Today, as we serve customers through-out the world, our original commitment to production of the highest quality is unchanged.

We will not compromise the expectation of us, and we will never allow an inferior product to carry the Armstrong name. For Armstrong, identifying customer needs, offering superior technology, and building great customer experiences, are all part of a long-standing family tradition.

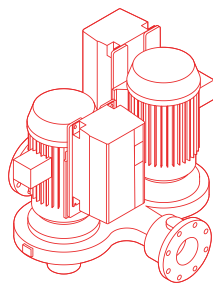
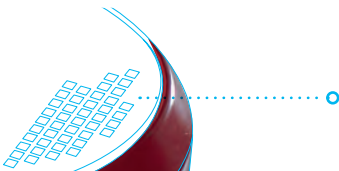


ESTABLISHED LEADER

..... IN
INNOVATION

Drawing on decades of experience, our design teams are dedicated to a leading-edge development.

Armstrong's history of new product introductions is evidence of our commitment to innovation, and a constant focus on meeting and surpassing the needs of our customers.



INTERNATIONALLY RECOGNISED

Our products are internationally recognised for design efficiency, long service life and operating economy.

Our applications are installed in some of the worlds premier facilities. Our goal is to provide leadership to the industry, practical solutions to customer problems, and superior alternatives to conventional thinking.

A PARTNERSHIP APPROACH

**FOR OPTIMAL
SOLUTIONS**

Our products and solutions begin with an interactive approach, encompassing our own engineering, manufacturing and field sales personnel.

We listen to our customer's needs. This process promotes the development of cutting edge technology, resulting in products and solutions that are right for their markets, applications and deliver value to the customer / end-user. Using the most advanced engineering techniques, including solid modelling, FEA and CAD, Armstrong meets the challenge of the 21st century.

PURPOSE-BUILT

We create purpose-built products and solutions for the specialised needs of our industry. Our engineers work closely with your team to focus on optimal solutions, minimised costs, and maximised value for your particular requirements.



INTELLIGENT SERVICE

Armstrong maintains a team of field service engineers covering the UK, Western Europe, the Middle East and North Africa. Armstrong can provide routine and unplanned maintenance and service to your installation.

UTILISATION

In harnessing appliance intelligence and harvesting operational data and trends Armstrong can also revalidate or recommend recalibration of your system operation, advise on imminent failure or abnormal operational or conditions to prolong the life of your plant and maximise uptime and performance reliability.

APPLICATIONS

LTHW, MTHW, HTHW	Fire Protection
Steam	Biomass
CHW	Heat Pumps
DHWS	Chiller Plant
Hydraulic systems	CWS Storage /
Thermal exchange	Boosting
CHP	Transformers
Power generation	Acoustic enclosures
Switchgear	Solar Thermal
Control Gear	Solar PV

ACCREDITATIONS

ISO 9001	BAFSA Member
ISO 14001	CIBSE Patrons
Gas Safe Register	ESTA Members
NIC EIC Approved	Founder Members of
BPMA Members	“Build Off-site”

CORE COMPETENCIES

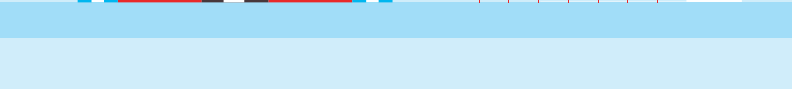
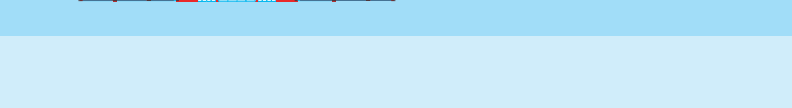
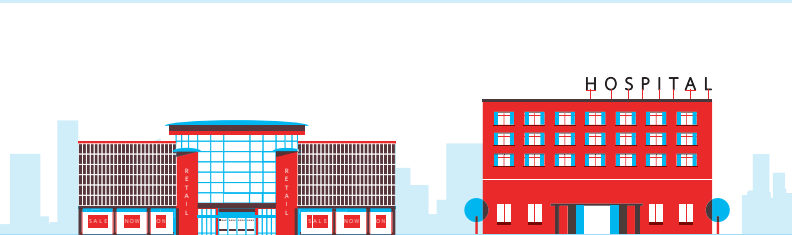
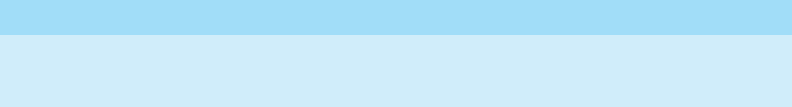
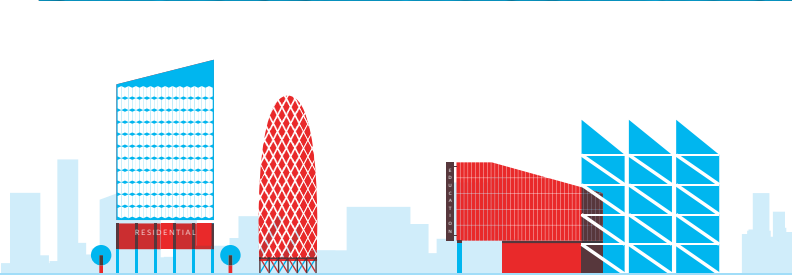
Fluid Management	Off-site Construction
Variable Speed Systems	Project Delivery
Demand Based Control	Intelligent Support



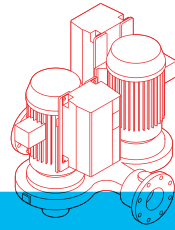
3000^{M²}

The Armstrong packaged systems facility at Birmingham is an industry leader in the manufacturing of packaged plant rooms and off-site-built systems.

The 3000m² production facility assembles over 120 packaged plant rooms and off-site systems annually.



3D



SOLID WORKS MODELLING

Armstrong pioneered packaged plant room development utilising 3D modelling computer systems; which enables us to build the entire plant room “virtually” prior to construction.

This eliminates clashes, fit up errors and other unpleasant surprises typical with traditional methods.

Our comprehensive parts library stretches to many thousands of parts, rigidly controlled, managed and updated for accuracy and validity, and includes many custom properties such as dry and wet weights, manufacturer details, etc...

STAKEHOLDER INPUT

Involvement is encouraged through the use of e-drawing software that enables a 3D file to be emailed to any number of recipients whereupon it can be opened, manipulated and flown through without the need for special software on the recipient PC.

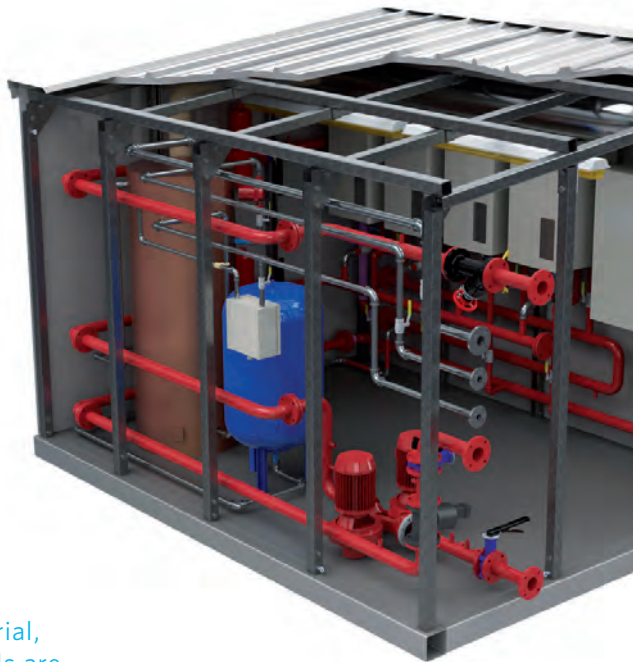


Comments can easily be inserted into the e-drawing to feed back to the design team. In addition, traditional 2D drawings are generated from the model and annotated in the traditional way for review, comment and records.

ACCURACY

100%

Following approval, bills of material, manufacture and assembly details are generated automatically from the 3D model, providing 100% accuracy.





PELTON



PELTON

Armstrong's control and automation team supports both our product applications and bespoke solutions for your application.

Today's intelligent plant contains many on-board features of automation and optimisation for peak performance of that piece of equipment, normally based on traditional PID feedback loops.

INNOVATIVE APPROACH

Armstrong's innovative approach to plant control is to position itself between those individual elements of functional plant; pumps, boilers, chillers, etc, and the building management system, taking an holistic view of the plant and from that position seek to optimise plant operation for energy efficiency and performance reliability through harmonious operation of all the functional elements through our Peloton Control Technology.

Implementation of the Peloton Control Technology enables greater efficiencies to be gained, through a collaborative approach to plant control. Using the Hartman loop™, a digital era technology, allows an Armstrong control solution to determine the optimal plant operating conditions.



Eight manufacturing facilities
on three continents, serving
customers in over

50
COUNTRIES.

TRULY
INTERNATIONAL
CAPABILITIES

MANUFACTURING

Armstrong's wide-ranging resources have enabled us to take a unified, global approach to quality manufacturing.

Our facilities feature automated manufacturing and quality control, utilising sophisticated computer testing throughout the entire production cycle.

- ⊕ Armstrong's fully integrated information system links facilities operations on a 24-hour basis.
- ⊕ This capability speeds production flow and ensures control over all phases of manufacturing and delivery process.





ARMSTRONGINTEGRATED.CO.UK

As standards, specifications and designs change
from time to time, please ask for confirmation of the
information given in this publication.

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ESTABLISHED 1934

ARMSTRONGINTEGRATED.CO.UK

MAKING
ENERGY
MAKE
SENSE™