

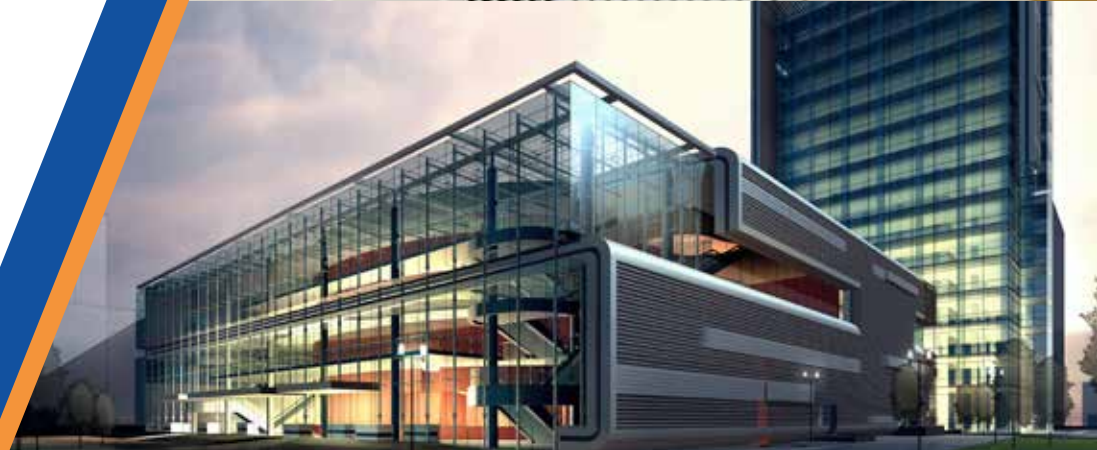
ATP

ADVANCED TECHNICAL PRODUCTS
















Suppliers of Heating & Pipeline Products

Applying Knowledge & Experience to Devise Customised Solutions

Extensive range of superior products to the commercial and industrial markets.



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About ATP



Advanced Technical Products Ltd (ATP) are the suppliers of an extensive range of superior pipeline & heating products to the commercial & industrial markets. We have exclusive distribution & well established supply partners for heating, heat exchange, hot water generation, valve and pipeline products.

Our extensive experience & qualified staff provide a wealth of knowledge in all industrial & commercial heating applications. We can assess your requirements & apply this knowledge & experience to devise a customised solution. Whether it is a simple sizing of a valve or hot water generation for a hospital, we can help.

ATP is located on the outskirts of Dublin in a modern business unit. From here our office can serve the needs of end users be they contractors, consultants or architects.

In addition, we also offer;

Site Survey - ATP are available to visit project locations in order to carry out site surveys. These will enable drawings to be prepared for manufacture of products such as coil heat exchangers, calorifiers, expansion bellows and our range of space heating products.

Product Demonstrations - On projects where products are supplied by ATP, we are happy to visit site shortly after the goods have been delivered, to demonstrate to relevant personnel the correct handling and installation of the product.

Product Training & CPDs - ATP offer a range of product training and CPD (Continuous Professional Development) seminars for selected products in conjunction with our suppliers.

ATP are happy to offer advice or guidance on any product offered in this brochure.

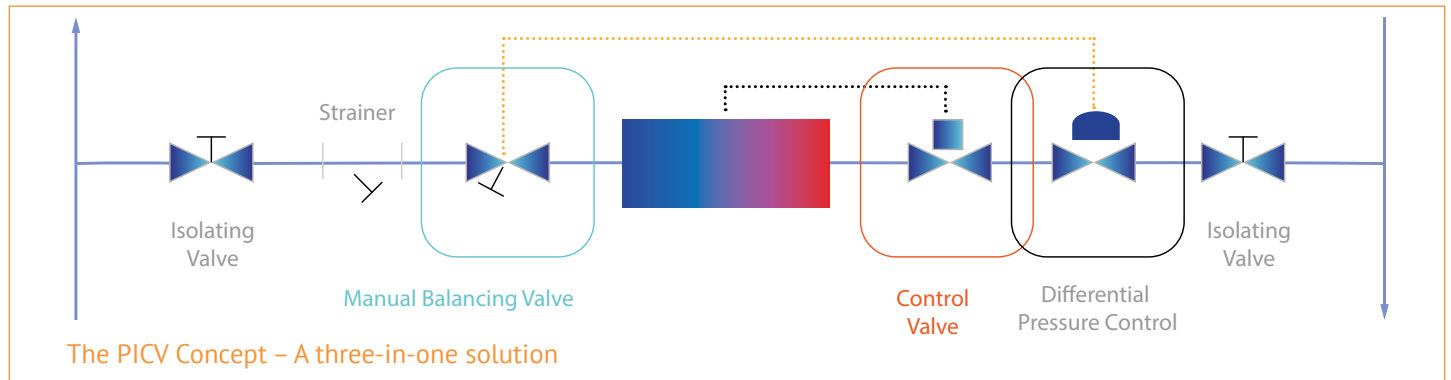
PICVs (Pressure Independent Control Valves)

ATP offer a full range of PICV (Pressure Independent Control Valves) from Flowcon, Denmark.

Ranging in size from 1/2" to 6" with a variety of actuator options.

PICV's are a 3 in 1 valve consisting of a dynamic balancing valve, a 2 port control valve and a differential pressure control valve all contained in a single valve. They ensure that the correct flow is delivered, independent of the variations in pressure.

The design of the Flowcon PICV also ensures that the valves give 100% authority over the flow at any of its flow settings.



Flowcon Green

Green 0/1/1HF

- 15-25mm. Flow rates 0.0103 – 0.736l/s
- Cartridge type valve for easy maintenance & flow rate alteration
- Range of actuators including fully electric 0-10V, 2 position/ 3 point floating, thermal modulating & thermal on/off

Green2

- 25/32mm. Flow rates 0.25 – 1.29l/s
- Cartridge type valve for easy maintenance & flow rate alteration
- Range of actuators including fully electric 0-10V, 2 position/ 3 point floating

Green3

- 40/50mm. Flow rates 0.528 – 3.79 l/s
- Range of actuators including fully electric 0-10V, 2 position/ 3 point floating

Equal Percentage (EQ)

- Green PICVs are also available with an Equal Percentage (EQ) characteristic

FlowCon
international



Flowcon SM

- Flanged valves 50 to 150mm Flow rates 1 – 25 l/s
- Programmable display actuator for simple set up & commissioning
- Actuator available with failsafe backup battery and BACnet
- Available with an Equal Percentage (EQ) characteristic



Flowcon UniQ

- 15/20mm
- Flow rates 0.005 – 0.18 l/s



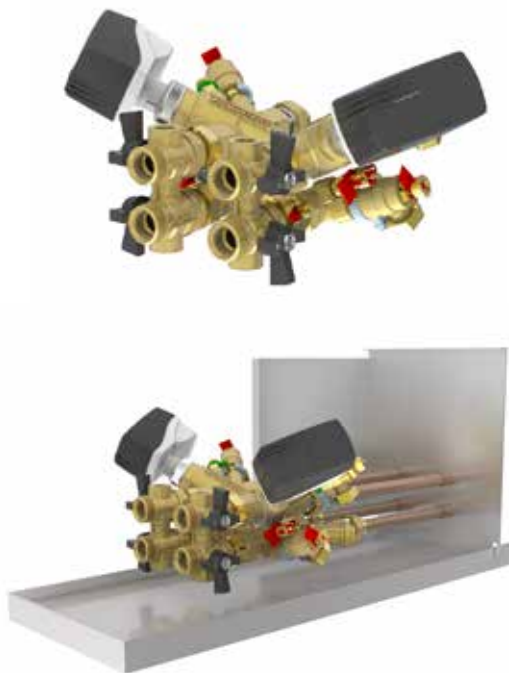
By-Pass Valve Assemblies

By-Pass assemblies are pre-assembled, factory tested and ready for direct installation and can be used for fan coils, chilled beams, chilled ceilings or other HVAC units.

A By-Pass assembly ensures that everything necessary for a successful installation is supplied in one package. The FlowCon assembly is available with either dynamic balancing or PICV and allow flushing, isolation, balancing and temperature control of the HVAC unit.

FlowCon's By-Pass range includes three different types: the 2-Union By-Pass, the 4 union by-pass and the Mini By-Pass. They are an easy solution to consultants, mechanical- and electrical contractors and end-users due to easy selection, installation, commissioning, control and maintenance of the terminal unit.

- One-piece 2 or 4 union assemblies available with either 40 or 80mm centres
- Enables flushing of system without flushing through valve or coil
- Allows rapid installation
- Includes PICV / Balancing Valve and strainer
- Customisable to suit application



The 80mm centres assembly has the advantage of being easy to install & insulate. Maintenance of the valve is improved with more room to access the cartridge & actuator.

The 40mm centres Mini by-pass can be fitted directly to the fan coil unit and be located above an extended drip tray if required.

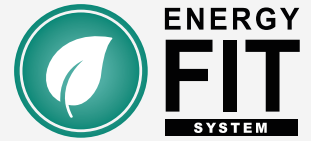
The assemblies generally include the PICV, actuator, test points, strainer & drain valve.

ATP can also offer insulation shells for the standard assemblies as well as flexible hoses for connection between the assembly & coil.

Specialist Valves

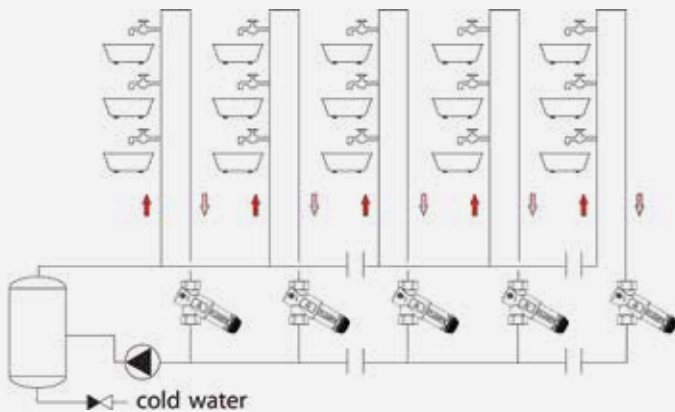
FlowCon Energy FIT System

- All-in-one system including PICV, Intelligent Interface and sensor kit
- Complete overview of energy and flow
- Intelligent Interface with integrated BTU meter and flow meter
- Simple monitoring via Bluetooth® or analog to BMS. Communicates to Flowcon App
- Flanged valves 65-250mm Flow rates 1.48-76.8 l/s



Flowcon TJUST Hot Water Return Balancing Valves

- Thermostatic control valve
- Size 15-25mm
- Temperature range: +35°C to +65°C
- Manual flushing mode or option for actuator control



Flowcon Differential Pressure Control Valve

- Sizes 15 -40mm - removable cartridge type for easy maintenance
- Sizes 50 - 150mm – universal flanged body
- Flow rates 15 - 119000l/hr
- Adjustable differential pressure



Keraflo Delayed Action Float Valves

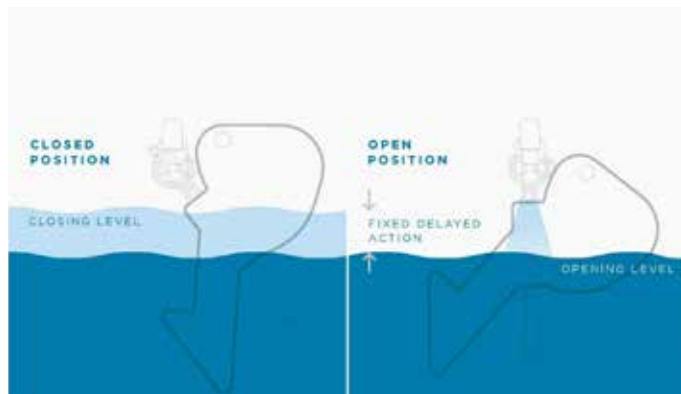
This unique valve designs offer huge advantages over traditional ball-float valves. Water hammer, valve bounce and pump hunting is eliminated while positive operation improves water turnover.

K Type Valve – sizes 15mm to 80mm



The weighted key-shaped float can be accurately set in a number of positions on the brass float arm. This in turn actuates the valve at a predetermined difference in water level, driving it fully open or fully closed without water hammer. This positive action avoids dribble, reduces noise and allows full flow until the selected closed level is reached.

Other variants are available – KAX type for raised valve chambers or the KS type made in stainless steel typically for seawater, demineralised water and process applications.

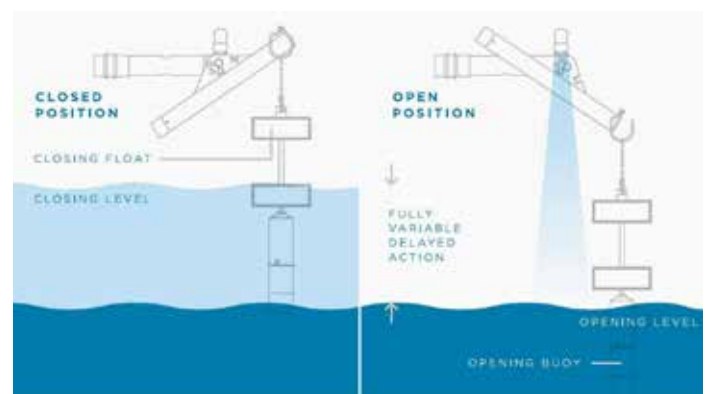


KB Type Valve – sizes 20 – 80mm



The valves are operated by a transfer of weight in an actuator tube which causes the valve to open or close. The arrangement of the float and buoy assembly produces a delayed change of balance in the actuator as the water level alters. The total assembly is relatively light with no pressure related stresses. As a result, the valve does not require any supporting structure.

Aylesbury 'KB' type float valves have a variable delayed action and feature a chain in place of a rigid float arm, enabling virtually unlimited opening and closing levels. This allows for a considerable drop from the valve to the water level, overcoming issues associated with drop arms.



Tanktronic

The modern solution to monitoring and controlling cold water storage tanks.

Tanktronic is an electronic tank management system which provides a simple solution to monitoring water levels and temperature. The technology can also manage and control tank filling and feed all this information back to your building management system.

- Monitoring and controlling water level and temperature
- Supporting single and multiple tanks
- Incorporating input and output device connectivity
- Having a quick-start feature with intuitive interface
- Allowing for alarms, failsafe and holiday schedule functionality
- Being compatible with building management systems (BMS)



Flowcon IVC Manual Balancing valves

- Sizes 15-50mm DZR Brass or Bronze (WRAS approved) bodies
- Sizes 65-600mm flanged ductile iron with variable or fixed orifice



Butterfly Valves

- Sizes upto 800mm
- Lugged or wafer type
- Hand lever or gear operated
- A wide range of options on the seat & disc material to suit most applications



Other Valve products:

- Check valves
- Strainers
- Gate valves
- Ball valves
- Pressure reducing valves
- Air vents
- Metering stations



GATE VALVES



BALL VALVES



STRAINERS



CHECK VALVES



GLOBE VALVES



SUCTION
DIFFUSER



METERING
STATIONS



DUAL PLATE CHECK
VALVES - FLANGED



FLANGED GATE
VALVES



TRIPLE DUTY
VALVES



AIR VENTS -
DOUBLE / TRIPLE
ACTION



AIR VENTS

Calorifiers

Ormandy Rycroft Calorifiers



Ormandy Rycroft is a name which is synonymous with quality for decades. ATP are exclusive distributors for Ormandy Rycroft Engineering in Ireland and are proud to have supplied calorifiers, heat exchangers and packaged skids to many prestigious projects.

Healthcare, Commercial, Hotel and Pharma are some of the many areas where constant supplies of hot water are required. Many of the main hospitals, DFI companies, International Hotel Chains and Pharmaceutical Companies insist on Quality and choose Ormandy Rycroft.

Storage calorifiers, with high performance tubular heat exchangers, are generally manufactured in solid copper but for high pressure systems copper lined steel vessels are supplied. Stainless steel calorifiers are also available.

- Full range of capacities available
- Vented and unvented systems
- Heat exchanger: "U" tube fully removable for maintenance
- Suitable for all primary mediums – MTHW, LTHW, steam and heat recovery

Evoplate Hot Water Generator

The Ormandy EVOPLATE is a compact, highly efficient packaged water heating system capable of supplying hot water at 60°C and meeting peak demands in excess of the rated boiler input duty. The system comprises of stored water volume, instantaneous brazed plate heat exchanger, domestic circulating pump, flow regulator and optional direct acting primary temperature controller.

- The EVOPLATE is supplied ready fitted and is easy to install
- Achieve the maximum possible performance from condensing boiler installations
- Reduced downtime and maintenance
- Reduced risk from Legionella bacteria



Maximiser Semi Storage high output calorifiers

The Maximiser range of high output semi storage calorifiers was developed to meet peak loads with reduced storage volume by the use of an in built instantaneous heat exchanger and secondary shunt pump. Normal demand is met by the continuous flow from the heat exchanger with peaks being supplied from a combination of water from the exchanger and the vessel contents.

- Reduced storage volumes and standing losses with rapid recovery
- Reduction in plantroom space requirements
- Maximiser units designed for hourly output of up to four times the nominal storage capacity
- Peak loads in excess of the hourly output rate can be achieved without increasing boiler output requirements
- Full active storage within the calorifier reduces the risk of growth of the Legionella bacteria



ATP Stainless Steel Commercial Range

ATP offer a high quality range of single and twin coil stainless steel calorifiers suitable for most commercial, retail & leisure applications.

- Available in a range of standard sizes from 200 to 3000 litres
- Manufactured from AISI316L stainless steel
- Max. working pressure 6 bar (tank), 12 bar (exchanger)
- Fully insulated and supplied with pvc cover
- Standard screwed connections
- Electric elements available on request
- Optional electronic cathodic protection



ATP can also supply units designed specifically to suit your requirements with special sizes, additional connections and varying insulation thicknesses/types.



Calorifiers with Removable tube bundles also available.

Buffer vessels for hot or chilled water with standard sizes up to 5000 litres

Ormandy Rycroft Shell & Tube Exchangers

Ormandy Rycroft offers a wide range of shell and tube heat exchangers for use in the HVAC, Petro-chemical and Food industries. Shell and tube heat exchangers are most suited to applications with medium to high temperature profiles and can be designed to withstand high pressures. HVAC steam to water packages available with condense coolers and pump sets.

- Materials – carbon steel, stainless steel, copper, cupronickels 90/10 and 70/30
- Low maintenance costs
- Low pressure drops
- High heat transfer coefficients when fitted with high performance tube
- Exchangers can be designed to use in aggressive or hard water environments



Site Measurement Available

Total packaged solution comprising heat exchangers, controls, pressurisation set, all mountings and, where appropriate, condensate return pump system.

Replacement Plates & Tube Bundles

We also offer a site measurement service for replacement tube bundles regardless of age or make.

Heat Exchangers

Plate Heat Exchangers

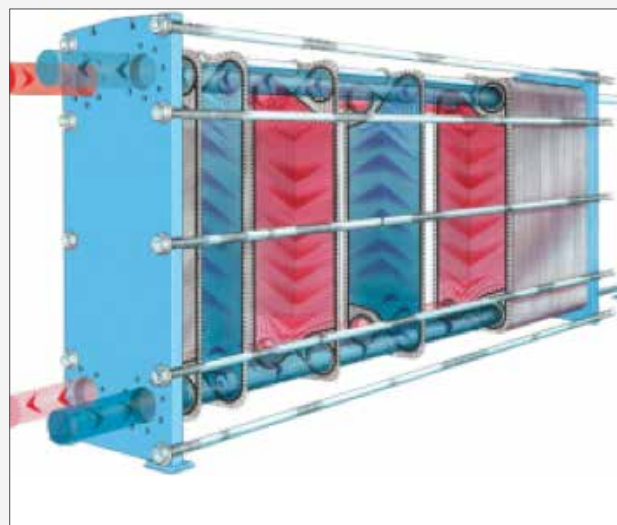
Tranter Plate & Frame Heat Exchangers

Our plate and frame range is available with most plate materials from 316/304 stainless steel and other metals on request. The gasket types range from the standard EPDM to Viton and other materials as required by the service.

The plate heat exchanger is a series of gasketed, embossed metal plates arranged alternately and bolted together between end frames to form channels through which hot and cold media flow.

The Tranter Plate Heat Exchanger provides outstanding efficiency

transferring heat from one liquid to another or from steam to liquid. This modular exchanger combines frames, plates and connections to form a variety of configurations. By using different types of plates, with different characteristics, the exchangers can be adapted to a wide variety of applications. The exchangers can easily be disassembled for inspection, maintenance or even expansion by adding plates.



SWEP Brazed Plate Heat Exchangers

The Brazed Plate Heat Exchanger (BPHE) is one of the most efficient ways to transfer heat from one medium to another. A BPHE consists of corrugated plates combined to create complex channels through which a hot medium and a cold medium can be distributed. The media come into close proximity inside the BPHE without mixing on either side of the corrugated plate, and energy is transferred from one to the other as they flow side-by-side.

The SWEP brazed heat exchanger has certain advantages:

Compact Size: A BPHE is extremely compact. Installing a BPHE leads to an 85-90% reduction in volume and weight compared with a shell & tube exchanger of the same capacity. The BPHE footprint can be as small as one tenth of the shell & tube footprint. This means great design freedom for every application – and reduced installation costs.

Small Hold-Up Volume: The BPHE system holds only a fraction of the heat transfer medium. This implies lower initial costs, and the surrounding system components will probably become smaller and cheaper. In refrigerant systems, lower hold-up volumes are also an environmental advantage.

Efficient: About 95% of the material is used to transfer heat. There is no “dead zone” outside gaskets because there is no need for gaskets. With a BPHE you get up to 25% better capacity utilization compared with a plate-and-frame heat exchanger with rubber gaskets, and up to 10 times better compared with a shell & tube heat exchanger.

Used For Low Temperature Differences: The highly turbulent flow inside the BPHE makes it possible to exploit the benefits of working with small temperature differences. A BPHE operates efficiently even at temperature differences as low as 1K.

Stock: ATP carry a stock of popular brazed PHE's to suit DHW & LPHW applications.



Packaged Heat Exchangers

Ormandy design and manufacture a complete range of skid mounted plate heat exchanger packages for applications including LTHW heating, chilled water and process systems.

All plate heat exchanger packages are WRAS approved and factory tested prior to despatch and designed to reduce installation time and be located within space limitations on site.

WRAS approved plate heat exchanger packages can be supplied with the following equipment:

- Primary and secondary pumps – fixed or variable speed and supplied with inertia bases as required
- Control and High limit valves (electric or pneumatic actuators)
- Pressurisation units
- Control panels with BMS compatibility and fault indication
- Air and dirt separators
- Dosing pots
- Primary and secondary headers

Ormandy Rycroft Breeze plate heat exchangers can also be installed 'stand alone' or in combination with a buffer vessel as a WRAS approved Plate and Buffer unit. The combination of Breeze and buffer vessel is used when hot water demand is not constant and high peak flow rates occur frequently. Peak demands are met by the instantaneous plate heat exchanger output and the stored volume within the buffer vessel.

Ormandy Rycroft has a multi-disciplined design team with extensive experience in the field of unvented packages. Mechanical, thermal and electrical design issues are all addressed in their engineering department based in Bradford, UK. All the main items including the electric control panels are manufactured by Ormandy Rycroft ensuring compatibility of all components. With full accreditation to BS EN ISO 9001 clients can be assured of a quality package.



Air Curtains

Air curtains protect the entrance to the building from either cold or warm air as well as dust or insects. Its application allows to minimize the loss of heat, which both influences operating costs of the building and comfort of work.

GUARD air curtains



GUARD is a professional and attractive air curtain whose main objective is to maintain a protective barrier at the entrance to the building.

GUARD units are available in 1m, 1.5m & 2m lengths and can be supplied with LPHW heated coil, PTC electric elements or as an ambient unit.

The units are supplied with mounting brackets & a speed / heat controller and can be supplied with optional BMS interface, door switch or control valve (LPHW version).

Suitable for mounting heights up to 3.7m. For mounting heights higher than this please see our ACD HD range or our Industrial Air Curtain range.

ACD Standard Air Curtains

- They are finished in a high quality epoxy polyester powder RAL9010 (other colours are available on request)
- Available in water or electrically heated versions. Suitable for mounting heights up to 2.7m
- Complete with remote on/off/change speed switch (and heat select switch for electric versions)
- Optional relay for BMS enable / disable

ACD Recessed Air Curtains



The recessed units use the same high quality components as the Standard models. They are specifically designed to fit into small recessed ceiling areas having a depth of only 25cm.

Supplied with drop down hinged linear grille for ease of installation and servicing. The grille is finished in a high quality polyester powder coat

RAL9010 (other colours available on request).

- Available in water or electrically heated versions
- Suitable for mounting heights up to 2.7m
- Complete with remote on/off/change speed switch (and heat select switch for electric versions)
- Optional relay for BMS enable / disable

ACD Architectural Unit



The architectural range of air curtains meet architects' requirements for neat, unobtrusive, efficient installations suited to stylish designs for contemporary buildings.

Other applications for this type of unit are shops, offices and retail outlets that require high performance, energy efficient solutions.

The units are generally supplied in brushed finish stainless steel but are also available in mirror polished stainless steel or colour coded to meet most RAL colour schemes.



- Available in water or electrically heated versions
- Suitable for mounting heights up to 2.7m or available as a vertical unit.
- Complete with remote on/off/change speed switch (and heat select switch for electric versions)
- Optional relay for BMS enable / disable

GUARD PRO Industrial Air Curtain



Sonniger GUARD PRO is a robust & effective air curtain suitable for creating a barrier against the outdoor environment. Suitable for protecting industrial premises from the loss of heat energy through doorways ranging from 3-7,5 m thanks to high efficiency and utilising modular construction.

GUARD PRO is available in 1.5m & 2m lengths and is available with a LPHW heated coil, electric PTC heater or as an ambient unit.



GUARD PRO can be mounted horizontally above the door opening or vertically to the side of the opening where this would suit the application better. The units can be stacked to create a barrier for tall warehouse doors. The units can be mixed with a heated unit at the bottom & ambient unit at the top for more energy efficient use.

Trench Heating

Verano VKN Fan Assisted Trench Heating

- New generation of fan assisted trench heaters
- High thermal outputs
- 4V fan motor
- Highly energy efficient heat exchanger

Basic sizes:

VKN1

- Trench height: 65, 90 mm
- Trench width: 140, 170 mm
- Trench length (Lk): 950÷2000 mm

VKN5

- 75,90mm
- 250,350mm
- 950-2750mm

Non-standard (NS) length heaters can be made on order.



Verano CVK Climaconvectors

Verano **trench climaconvectors** and **wall mounted climaconvectors** are available with a depth of 140 mm and a width of 350 mm. CVK length ranges are 750 mm, 1100mm, 1500mm, 1900 mm, 2300, 2650 mm.

Available as 2 or 4 pipe versions for heating and cooling.

Standard equipment:

- tray (cover) made of hot-dip zinc-magnesium coated steel, RAL 9005 black powder coated
- highly efficient heating part – copper-aluminium heat exchanger, Black powder coat with bleeding valve
- modern fan with silent and efficient 24V DC motor, fan cover, grille made of natural or anodized aluminium, roll-up or linear type
- threaded half-union connectors with cover for connector chamber
- assembly struts, fastening anchors, tray position adjustment system



Verano VKN SILENT

High thermal output complementing minimum noise level!

Ideal for any rooms and chambers with the extreme low noise level requirement our fan assisted trench heaters add energy efficiency and high thermal output on the top. The construction of the heat exchanger has been modified and a different type of the fan impeller/motor utilised. Everything has been accomplished for quieter work and increased efficiency. The newest 100 mm high VKN5 fan assisted trench heaters provide **improved noise level, with the like other models' thermal duties, respectively.**

Product features:

- High thermal output complementing minimum noise level
- Health and safety met – any servicing current only 24V
- Highly energy efficient heat exchanger
- Product compliant to PN-EN 16430
- Trench height: 100 mm
- Trench width: 170, 250 mm
- Trench length (Lk): 650÷3500 mm



Verano VK15 Natural Convection Trench Heating

- Trench height: 75, 90, 110, 140, 250, 350, 540 mm
- Trench width: 200, 250, 290, 380 mm
- Trench length: 800÷4000 mm
- Non-standard (NS) length heaters can be made on order.

Special curves & corners can be designed to suit application.

Non-standard (NS) length heaters can be made on order.



Space Heating

ATP offer a range of units to cover all space heating requirements:

Unit Heaters

Sonniger HEATER LPHW heated units

- Lightweight and stylish, these units are suitable for most applications including warehouses, sports halls, factories
- Available in 1,2 or 3 row versions to provide heating from 10 to 70kW as well as a compact heater with smaller footprint offering outputs from 5 to 20kW



Thermolier Industrial Unit Heaters

- High quality, robust and suitable for any environment, the Thermolier unit heaters can be heated with LTHW, HTHW as well as steam to make them suitable for industrial applications
- Option of either single phase or 3 phase power. Front louvers and careful situation of the units give exceptionally fast warm up and practical heat control in large spaces. Requiring little or no maintenance, these units are tough and efficient



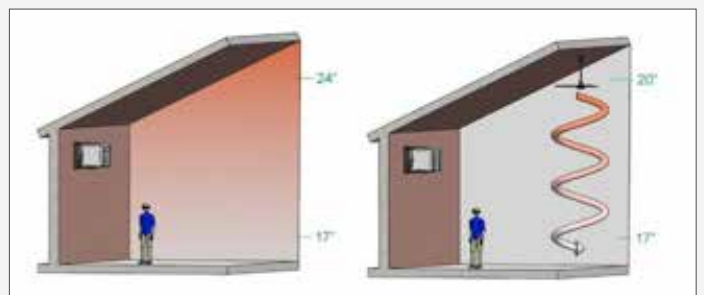
Winterwarm EH Electric Heaters available from 10 to 40kW

- Compact & low weight
- Tubular heating element
- Sustainable heating solution in combination with PV solar panels
- Modulating fan
- Control of 1-8 heaters via a single controller.



Destratification Fans

Where unit heaters are employed, it is often prudent to install destratification fans to mix the air through the height of the building, providing even heating and reducing energy requirements.



Coil Heat Exchangers



Heating and cooling coils are at the heart of many commercial and industrial applications. SPC has been designing and manufacturing coils for rapid heat transfer for more than three decades.

SPC manufacture heating and cooling coils for just about any industrial or commercial application. Their coils come in three types defined by the medium for heat transfer: water, steam, and refrigerant. In addition, for complete heating flexibility, they offer a range of electric heater batteries.

ATP offer a replacement service for coils in existing air handling units or ducted systems; providing a cost effective way of extending the life of existing air plant and site surveys for replacement or damaged coils that cannot be removed from the system.

Site Measurement Available

Fan Convectors



A Fan Convector is a quick & cost effective way to bring a room up to temperature. Belgravia Fan Convectors from SPC put heat where you need it, when you need it. Fan convectors can be utilised in churches, schools, colleges, libraries, sports halls, hotels, boardrooms, hospitals, leisure centres, and a wide range of shops, offices, and industrial buildings.

Belgravia fan convectors now include EC motors as standard, lowering specific fan power and saving energy.

The SPC range of fan convectors are available in a wide range of casing styles, on-view, wall or ceiling mounted, recessed into alcoves or ceilings and painted to suit.

Electric Heaters



ATP also offer a range of other electric heaters including over door heaters, ceiling & wall mounted heaters and plinth heaters.

Radiant Panels



SPC's Thermanite TEN-TWELVE radiant heating panels are a simple solution to rapidly bring a room up to temperature. They are frequently used in schools, hospitals and offices because they require no maintenance, have a wipe clean surface and release wall & floor space.

Low pressure hot water (LPHW) radiant panels rapidly distribute heat throughout a space and are much more responsive than underfloor heating.

Radiant panels are available in a number of styles

- Ceiling mounted
- Free hanging
- Plasterboard
- Wall mounted; and
- Sportsline (perfect for sports halls)

ThermaSail radiant conditioning sails fill the gap between chilled beams and chilled ceilings, opening up an entirely new range of architectural and design possibilities whilst combining the highest available efficiency in radiant cooling with ease of installation.

Expansion Bellows, Flexible Hoses and Anti Vibration Joints

“When an object is heated or cooled, its length changes by an amount proportional to the original length and the change in temperature.”

Expansion Bellows

Expansion Bellows are used in building pipework systems to allow for thermal expansion and movement. All pipework either expands or contracts in direct proportion to temperature changes.

Where it is not possible to cater for this movement by natural means in the pipe run, expansion bellows will be required.

ATP in conjunction with our supply partners can offer an expert selection service for all expansion requirements. ATP can offer an onsite measuring service for the replacement of existing bellows.

A full selection of anchors and guides are also available.



Rubber Bellows

When pumps or any other large pieces of equipment are installed in a system it is advisable to fit rubber flexible connectors. This lessens the conveyance of noise and vibration throughout the pipework.

Flexible Hoses

Flexible hoses have become an integral part of mechanical services installations, particularly for fan coil applications.

ATP can offer BSRIA tested fan coil hoses in various lengths and end connections – Compression, swivel nut, fixed male threaded.

The standard hose offered would be EPDM hose with stainless steel overbraid.



Laboratory Taps & Showers

ATP offer the Arboles range of laboratory taps and safety showers

Laboratory Gas Taps

Our gas taps are specifically designed for the education and commercial sectors. Each product has a high visibility yellow drop lever or push turn operation. The drop lever valves have optional non return valves and nozzle restrictors. An integral 'anti rotation' pin is included is fitted as standard. All options are suitable for natural gas or LPG services.



Laboratory Water Taps

ATP offer fully WRAS certified standard water fittings featuring non-rising spindles and rubber seated valves. The water taps are available with lever action and quarter turn options. There is an 'anti rotation' pin fitted as standard. Outlets can be supplied with fixed nozzle, removable nozzle or the anti splash (aerator) nozzle. The hand wheels are coded to DIN EN 13792.



Dry Service Valves

Arboles UK dry service valves are specifically designed for use with laboratory gases. The design includes a 270° fine control operation. An integral 'anti rotation' pin is included is fitted as standard. The hand wheels are colour coded to the recognised standard DIN EN 13792.



Safety Showers & Eyewash Stations

Arboles offer a range of eyewashes and emergency showers to suit every requirement. Our products come in a range of mountings and are designed to exceed current international standards. Both our eyewash and shower range are covered by the current ANSI and relevant standards.



Other Products

Electric Water Heaters

The Kospel range of under & oversink water heaters are supplied with a stainless steel tank for enhanced durability and longevity.

Available in 5 or 10L versions with a 2kw element.

Larger versions up to 130L available in enamelled steel.



Decalcifiers

AQUA 2000 is a lime dissolver for heating and water installations with a flow up to 50 l/min. Ideal for private houses for one or two families, small commercial & industrial buildings, etc.

The lime dissolver can be mounted on copper, steel or polyethylene pipes with diameter 22-54 mm.

Larger units for up to 833 l/min are also available.



Pressure Relief Valves & Flame Arresters

Elmac Technologies' Flame Arresters are static devices that allow flow into or between enclosures whilst preventing flame transmission, thus protecting processes from the potentially catastrophic effects of an explosion. Different types of Flame Arresters are required depending on installation positioning, operating conditions and Explosion Groups.

The Elmac range of Flame Arresters comprises three main types:

- In-line Deflagration Arresters
- End-of-line Deflagration Arresters
- In-line Unstable Detonation Arresters – used to prevent worst-case scenario explosions

Flame Arresters are installed by contractors, OEMs and Operators in order to provide protection against explosions in a wide range of applications including: oil & gas, petrochemicals, pharmaceuticals, bio-fuels and distilleries. Our range of ATEX accredited flame arresters and pressure relief valves is designed and manufactured in the UK and have been independently flame and explosion type-tested and certified. All flame arresters and pressure relief valves are tested to the latest EN ISO 16852, the European Standard for flame arresters which provides for a significant safety margin in typical operating conditions.



End-of-line Deflagration Flame Arresters

End-of-Line Flame Arresters are designed to protect against atmospheric deflagration where the ignition source originates outside of the system.



In-Line Deflagration Flame Arresters

Elmac's series of In-Line Deflagration Flame Arresters are designed to prevent the propagation of flames in piping systems. By locating the arresters in close proximity to the potential source of ignition, any flame or explosion is confined to the immediate area. LCA Flame Arresters have multiple operating capabilities including high pressure, high temperature, and short time burn.



In-Line Detonation Flame Arresters

In-Line Detonation Flame Arresters are specifically designed for pipelines that are manifolded or with a significant distance between the ignition source and the Flame Arrester, or for use where the pipe is rough, bent or obstructed. Elmac can assist with the safe selection and installation of In-Line Detonation Flame Arresters crucial to applications such as offshore rigs, storage & process tanks, vapour recovery units and combustion systems. In-Line Detonation Flame Arresters can be placed any distance from the ignition source.



End-of-line Deflagration Flame Arresters

- Exceptional flow capacity from a compact valve size.
- Reduces explosion risk and environmental pollution.
- Low leakage rates minimise evaporation losses.
- Economic savings due to reduced product losses.
- Self-draining element prevents rain, dirt or other foreign matter entering the piping system.
- Easy visual in-situ inspection of the element.
- E-Flow™ element provides optimum flow performance and minimal pressure drop.
- Quick and easy to install and maintain with replaceable element.
- Minimum clogging of the element with minimal maintenance.
- Incorporates the patented RE-Flow™ technology.
- Optimised pallet design and sealing reduces chattering.
- Unique valve design provides complete weather protection
- Protects against atmospheric deflagration

ATP **ADVANCED TECHNICAL PRODUCTS**
Suppliers of Heating & Pipeline Products

Applying Knowledge & Experience to Devise Customised Solutions

ATP can also supply a range of other products on an individual basis or as part of maintenance supply including pumps, plastic pipework, steam traps, spares and much more.

ATP are proud to represent the following brands in Ireland.



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website
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