

VOLUME VARIABLE, OUTLOOK FAIR

NEW AGENTS FOR SAV IN SCOTLAND



SAV Modules has a new agent in Scotland. The appointment underlines SAV's conviction that the Scottish market for energy saving, variable volume technology is opening up - *fast!*

Simon Kerr of DBSA Ltd brings a unique combination of specialist knowledge and experience to his new role. The existing range offered by his Agency makes a perfect synergy with SAV's modular solutions for hot and cold water distribution and monitoring.

A native of Belfast, Simon moved back to Edinburgh, where he took his degree in mechanical engineering, in 1996. He brought with him valuable experience gained working in design and sales for an air conditioning specialist.

That experience stood him in good stead when he joined the former DB Sales organisation marketing fan coil products in Scotland.

Comprehensive service

Now from its base just 20 miles south of Edinburgh DBSA Ltd can offer consultants a much more comprehensive service (see www.dbsales.co.uk) as Simon Kerr explains:

"A typical office block using fan coil units and variable speed pumps needs Differential Pressure Control Valves (DPCV's) to ensure correct authority for the control valves serving the fan coils. SAV's FlowCon commissioning module has built-in a DPCV and this valve needs to be sized correctly to match the coil resistances of the fan coil units. Swirl Diffuser selection can also be limited to the available external static pressure of the fan coil.

So product selection is interdependent.

Now we can offer the designer a package of SAV FlowCon commissioning modules, fan coil units and swirl diffusers all sized to compliment each other.

It's a fast and simple design strategy that ensures the room comfort conditions that only a carefully selected system can provide."

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As the nation looks to maximize energy savings, Scottish building services designers are increasingly turning to variable volume systems. It's predicted that variable speed units could save between 60-70% of the pump energy used in typical building heating and cooling applications.

However, designers face the challenge of utilising the undoubted energy saving potential of variable speed pumps, while achieving thermal balance in the system. Pressure has to be controlled in such a way as to ensure that some parts of the system aren't starved, while others receive excessive flow.

Energy saving

The solution lies with differential pressure control valves (DPCV's). But to maximise the energy saving potential *the closer the pump sensors are located to the terminals the better*. In this way efficient pump control can be maintained over not just the pressure drop in the riser, but in the main branch line too.



SAV's modular approach with localized pressure control offers a solution to the problem.

FloCon Commissioning Modules used with flexible multi-layer pipework make it possible to sub-divide the system into smaller, self-contained sub systems each served by a single distribution Module with its own integral DPCV. *The distance from DPCV to control valve is reduced to the minimum and accurate modulating control of the pumping system is maximised.*

The right 2-port valves can be selected. Modules also reduce the need for additional sub-branch rigid pipework.

The Commissioning Module technique enables one compact DPCV to be shared by up to six terminal units with a maximum loading of 11.6kW heating and 6.3kW cooling per terminal – a highly cost efficient ratio.

Moreover, because the DPCV's are located close to the terminals, the pressures they control are relatively low – typically 0.2 – 0.5 bar. *That crucial good valve authority can be achieved every time.*

SAV MODULES BRING "GREENER" HOT WATER SOLUTIONS TO SCOTLAND

SAV's innovative range of modular hot water solutions is now available in Scotland.

The new AquaCon series of heat exchange modules utilises technology developed by the District Heating Division of Danfoss A/S. It makes a perfect complement to the Modular solutions offered by SAV for building services distribution and control.

AquaCon is a "heat it when you need it" system that eliminates standing losses and features low return temperatures. It's ideal for use with renewable energy sources including heat pumps, solar collectors and, of course, central boiler plant including units fired with biomass fuels."

Energy saving

The new AquaCon Modules brings a dramatically improved level of energy saving heat transfer efficiency to domestic hot water supplies. Because hot water is only generated when it is required there are no storage losses in the system. No separate storage cylinder, or calorifier is required, yet hot water is instantly available.

Available in a range of sizes from 35-220 kW SAV AquaCon Modules are particularly suited to multi-dwelling applications served by a common boiler plant. Apartment blocks, prisons, hospitals etc can all have ample supplies of hot water – *with energy metering where required*. The comprehensive range of design options – with flow rates from 12.5 to 32.3 l/min - means a solution is available for virtually any application.

The overall package design is so small that major savings in space and energy go hand in hand.

Models will be available for both direct and indirect systems. In the direct application hot water from the central plant will be distributed straight into the unit served by the AquaCon Module. Indirect versions feature a second heat exchange module, which acts as an interface between the hot water main supply from the boiler and the circuit within the dwelling. In this way heat energy can be taken efficiently from the central boiler, while maintaining a "sealed system" condition for the individual apartment.



A Record of Success

Engineers in Scotland have been quick to appreciate the improved efficiency, more accurate control and easier installation and servicing offered by SAV Modules.

Here are just a few of the projects already using SAV solutions:

- George Street, Edinburgh
- Aberdeen University SFF Phase 1
- McRoberts Building, Aberdeen
- Bath Street apartments, Glasgow
- Quartermile project, Edinburgh
- Cadogan Street Glasgow
- Atlantic Quay, Glasgow
- Dundee University
- Guild Hall, Glasgow
- HI Conference Centre, Edinburgh
- Lochend Care Home, Edinburgh
- Lochrin Square, Edinburgh
- Ninewell Hospital, Dundee
- Quartermile Commercial, Edinburgh
- Quartermile Domestic, Edinburgh
- Royal College of Surgeons Hotel development, Edinburgh
- Skypark, Glasgow
- Zoology Building, Aberdeen University
- Subsea 7, Aberdeen
- Teleweb, Erskine
- ApartHotel, Edinburgh ...

...and more are on their way

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The link with SAV is already working. Within a few weeks of its appointment DBSA Sales had landed a major order for FloCon Modules for the SubSea 7 project in Aberdeen. Reaction to AquaCon range has been equally positive with Modules already specified for the new ApartHotel in Edinburgh.

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NEW SAV ENERGY SERVICE

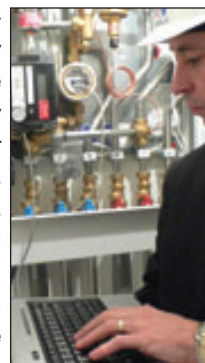
SAV has launched a new energy watch service for designers and operators of buildings.

SAV Energy will be an essential tool for all building operators and system designers facing up the challenges of a low carbon economy and accurate energy auditing.

Current BMS technology is complicated and expensive to programme and is far from being "user-friendly" when it comes to providing manageable data on actual consumption. SAV Modules break the system down into smaller, self-

contained "mini-systems" energy meters can be located at the very heart of the matter gathering accurate, meaningful, localised building services data.

The signals carrying data from the meters can be transferred back to a Hydro Centre data logger as frequently as every 30 minutes for downloading or transmission to a central point.



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