

Specialist Products
by
Product Specialists



*Energy Saving Solutions
in Partnership with
Market Leading Brands*



A Division of Watts Water Technologies Inc.

Specialist Products by Product Specialists

Kinviro Ltd is a knowledge-based, engineering-led, solutions provider specialising in energy-saving micro CHP and energy metering systems. Its principal supply partners are SenerTec, the world's leading manufacturer of micro CHP systems and Watts Industries, developers of the innovative Domosolutions range of energy metering (see page opposite).



Kinviro Directors Frank Daly and Alan Callister.

Directors Frank Daly and Alan Callister are both highly-qualified engineers and, what sets Kinviro apart from other industry players, is the application of their combined strengths and experience to assist specifiers and installers when providing high-performing, cost-effective, energy-efficient heating and hot water solutions.

With the introduction of the Energy Performance of Buildings Directive (EPBD) and the subsequent enforcement of BER certification – coupled with rising energy costs – specifiers and clients alike are now more conscious than ever of the need for genuinely-sustainable heating systems.

Serving the heating and hot water requirements of large, mixed-use developments and apartment complexes requires an innovative approach, especially in order to meet the energy performance criteria of new building regulations. Centralised energy generation with a renewable or efficient energy input, coupled with accurate metering, is the answer.

Such district/community heating schemes are cost-effective to install, easy to manage, eradicate the need for separate water storage in individual apartments, and do away with the need for costly maintenance of individual boilers.

Kinviro has been, and still is, involved in a number of such projects. Domosolutions from Watts Industries are metering systems specifically designed for centralised energy sources, while inclusion of SenerTec's micro CHP, the Dachs, in the central energy centre is a cost-effective method of meeting building energy targets.

While the quality characteristics of the respective product ranges are long-established and field-proven, critical to the performance of the turnkey solutions devised by Kinviro is the engineering input of Frank and Alan. They provide project consultation, design assistance, technical support, installation guidance and commissioning advice, working closely with the consulting engineer and contractor to ensure optimum system efficiencies and energy savings.

As the foregoing illustrates, what Kinviro represents is **Specialist Products by Product Specialists.**

Domosolutions Interface Units

Watts Industries Italia, part of the Watts Industries Group, is a leader in the heating, air conditioning and plumbing market. The company is well-known for the fundamental role it plays in the sector, with the launch of systems and products such as flush Modul manifolds, zone control, quick-connect one-piece fittings, balancing valves, heat metering/billing systems and hydraulic backflow preventer units.

Domosolutions is one of the key ranges within the portfolio and is available in two distinct categories – Domocal and Domocompact.

Domocal offers metering of energy drawn from district heating systems, whether it is for heating purposes or for the instantaneous production of sanitary hot water. The unit can produce hot water at 30 litres per minute and has an integral cold water consumption meter measuring usage associated with individual consumption. In all Domocal has 63 different configurations from which to choose.

Domocompact offers versatility as well as practicality, and has the capacity to meter two separate heating circuits, cold water usage, and sanitary hot water generated from a centralised source.

Both units come complete with energy meter installed and pre-wired, as well as full insulation to eliminate the heat losses.

Benefits

- Suitable for condensing and non-condensing applications
- Easily integrated for accurate billing
- Fully integrated metering system, including cold water metering
- Insulated jacket to eliminate heat loss
- Can be wall or flush-mounted
- Continuous hot water at a rate of 30lts per minute at 40°C



Dachs Micro CHP

The Dachs is a micro combined heat and power (CHP) system that suits the smaller energy consumer but which can also be configured to meet larger sites' requirements in multi-module arrangements.

It is the most widely-used CHP system in Europe with over 20,000 units installed, and is also the most popular micro CHP in Ireland, having been installed in numerous sites across the island of Ireland.

Developed and manufactured by German company SenerTec GmbH, it is a packaged unit designed to operate on natural gas or LPG, and is best suited to applications where there is a continuous demand for heat and electricity such as nursing homes, small hospitals, fire stations, hotels, swimming pools and district heating.

The Dachs SE System can be configured to meet the varying heat and power demands of different building types. Therefore, Dachs installations range from stand-alone units to full systems working in conjunction with other sources of heat and power.

Benefits

- Reliable, tried and tested, 20-year-old technology
- Increased energy performance
- Reduced energy consumption
- Reduced carbon footprint



QUALIFIES FOR ACCELERATED CAPITAL ALLOWANCES

Dachs and Domosolutions Applications

- Apartment Buildings
- Commercial Buildings
- District Heating for Housing Schemes
- Large Private Homes
- Hotels
- Leisure Centres
- Nursing Homes
- Hospitals

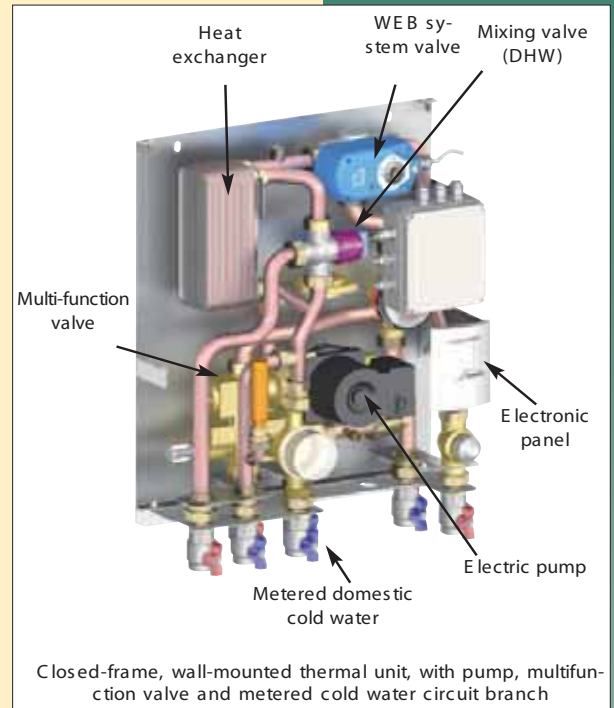
Technical Specifications



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Nominal technical data: DOMOCAL with pump models

	Traditional boilers	Condensing boilers
Maximum temperature of hot fluid at inlet	90°C	90°C
Nominal temperature of hot fluid at inlet	75°C	60°C
Maximum operating pressure (static)	8 Bar	8 Bar
Nominal flow rate of primary fluid	1.0 m ³ /h	1.0 m ³ /h
Nominal flow rate of hot fluid at outlet (heating)	0.8 m ³ /h	0.8 m ³ /h
Nominal head of hot fluid at outlet (heating)	36 kPa	36 kPa
Nominal temperature of DHW	46°C	46°C
Nominal power for DHW production (Δt=35k)	39 kW	48 kW
Adjustable outlet temperature	32-50°C	32-50°C
Power supply	230Vac-50Hz	230Vac-50Hz
Current drawn	0.6 A	0.6 A



Nominal technical data: Dachs SE Condensing Packaged System



Fuel Input	20.5 KW
Electrical Input	5.5 We
Heat Output	12.5 KWt
Heat Output Condensing	Up to 14.8 KWt
Overall Efficiency	88% to 99%
Weight	530 KG
Noise	52 dBA
Service Interval	3,500 hrs
Buffer Tank Volume	750



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