

Microflex[®] DUO: flexible solutions even on holiday

Luxury resorts in Sicily (Italy)

Case Study





AIM

To realise a condominium-managed luxury resort with individual and independent condominium accommodation and included services such as restaurant, swimming pool, reception.

WHO

Specifier: Ing. Salvatore Cataudella
Installer: Pietro Barone Impianti snc
Reseller: Biemme Termoidraulica of Pozzallo (RG).

WHAT

Construction of a luxury condominium resort with individual accommodation

SOLUTION

Microflex® DUO

WHERE

Val di Noto (Sicily), Italy

WHEN

2024

In the beautiful setting of the Val di Noto, in the province of Syracuse, a luxury resort has been realised with individual and independent condominium-managed accommodation and shared services such as a restaurant, swimming pool, reception and much more.

In particular, the innovative Microflex® DUO heating and air conditioning system was integrated into the project to guarantee an optimal climate in each accommodation, combining technology and flexibility and offering guests a unique experience of comfort and well-being.

The project went through several implementation phases. To make each accommodation independent, the designer created a single central heating and cooling unit connected to two inertial storage units of 2,000 litres each. To these devices, whose function is to accumulate thermal energy and release it gradually when necessary, a manifold with 18 outlets was connected, each of which was connected to a Microflex® DUO pipe. In this way, each individual housing was equipped with a heating/air conditioning module and can produce DHW on site, via a three-way valve and a plate heat exchanger.



Why Microflex® DUO

The Microflex® DUO pre-insulated flexible pipe system makes it possible to keep each housing unit independent, allowing guests to adjust the temperature independently according to their own preferences. Microflex® DUO is for heating and cooling systems with a pair of internal PEX-a SDR11 hoses characterised by an oxygen barrier (DIN 4726), suitable for fluids with temperatures $-10\div 95^{\circ}\text{C}$ and pressures up to 6 bar. Installation was quick and easy; this helped reduce construction time and optimise costs. Furthermore, the choice of Microflex® DUO not only reflects a commitment to technological innovation but also a special attention to nature and the landscape with a significant reduction in excavation.



For the project, 18 Microflex[®] DUO pre-insulated flexible hoses of different lengths (the longest being 95 m) were used for a total of more than 900 metres (about 10 football fields lined up one after the other)!

What our customers say

On the construction site, 18 Microflex[®] DUO pre-insulated flexible hoses of different lengths (the longest being an impressive 95 m) were used, making a total of more than 900 metres (about 10 football pitches lined up one after the other).

‘The made-to-measure cutting of the Microflex[®] pre-insulated flexible pipes,’ says the engineer in charge of the project, ‘is a competitive advantage offered by Watts that allows the pipes to be easily adapted to the specific needs of the site, guaranteeing optimal results and reducing waste. This feature, in fact, allows us to order only the lengths of pipe really needed for the project, thus avoiding additional costs associated with the purchase of fixed lengths, often imposed by other manufacturers’.





About us

Watts is an American multinational and one of the world's biggest manufacturers of plumbing and heating products and components. Established in 1874, the business is based in North Andover (USA) and listed on the New York Stock Exchange. Watts has an administrative headquarters in Italy, along with two production sites and two research centres, and owns various market-leading brands. Thanks to its know-how, reliability, professional ethics and attention to health, safety and the environment, Watts contributes to technological research in the sector with a constant focus on energy saving, safety, and the quality of life.

For further information, visit www.watts.eu

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