

Microflex[®] UNO

Over 160 m of flexibility

Case Study





GOAL

To upgrade a gas combustion system in a multi-storey residential building, ensuring energy efficiency, safety and compliance with execution times.

• WHO

Client: MACOS Ltd. Installer: MB impianti Ltd.
Thermal engineer: QUODO di Braga Gianmarco e C sas.
Distributor: Clerici SPA (Cernusco sul Naviglio branch).
Agency: SOCIETÀ LUTI S.n.c.

• WHAT

Upgrade a gas combustion plant with a hybrid system.

• WATTS SOLUTION

Microflex® UNO

• WHERE

Milan, Italy

• WHEN

2025

MB Impianti srl of Calco (LC), in collaboration with heating engineer Gianmarco Braga of QUODO and the Cernusco sul Naviglio branch of Clerici SpA, was commissioned by MACOS srl to design and upgrade a gas combustion system in a multi-storey residential building located in the northern part of Milan, in an area that has undergone progressive renovation in recent years.

From design to excavation, from plant engineering to finishing, the building's energy redevelopment project represented a significant investment in the urban redevelopment of a neighbourhood characterised by a mix of functionality and Milanese tradition, where residential buildings, healthcare facilities and public green spaces coexist.

This multi-storey residential complex was designed to offer a perfect balance between comfort, aesthetics and energy efficiency, with architectural choices that blend seamlessly into the surrounding urban environment.



Microflex® UNO coil

The project involved several stages of implementation and, after careful analysis during the design phase, the installation company and the heating engineer proposed Microflex® UNO pre-insulated flexible piping to meet the energy efficiency, safety and performance requirements of heating and air conditioning systems.

In particular, Microflex® UNO is designed for use in a wide range of applications, both for heating and cooling, with an operating temperature ranging from -10°C to 95°C.

Thanks to its resistance to pressures of up to 6 bar, the product is ideal for low and medium temperature heating systems, as well as for cooling systems, where it is essential to maintain a constant fluid temperature without incurring efficiency losses.

Furthermore, the possibility of purchasing Microflex® UNO in customised lengths, depending on the requirements of the system, made it possible to optimise the installation, reducing waste and adapting perfectly to the technical specifications of the project.

“Quality of service, punctual delivery times and flexibility of the Microflex[®] product. Watts has been able to offer a service tailored to plant requirements.”



Microflex[®] UNO: an overview of the plant



Why Microflex[®] UNO

Microflex[®] UNO proved to be the ideal solution thanks to the intrinsic characteristics of the product, such as the PEX-a SDR11 inner pipe (a highly resistant and flexible material capable of guaranteeing superior long-term performance), the oxygen barrier compliant with DIN 4726, which prevents the passage of oxygen, protects the system from corrosion and preserves the integrity of the system, and the multi-layer thermal insulation in expanded cross-linked polyethylene (PEX) (CFC-free), which offers excellent thermal insulation properties thanks to its closed-cell structure.

In addition, the corrugated high-density polyethylene (PE-HD) outer sheath provides further protection to the inner pipe. The corrugated double-wall structure offers greater mechanical strength, protecting the system from physical damage during installation and throughout the system's service life.

What our customers say

“Thanks to its high flexibility, Microflex® has made it possible to significantly limit excavation work, reducing installation times and costs. These results were supported by the quality of the service offered and the punctuality of deliveries,” emphasises Marco Belloni of MB Impianti srl. “These aspects proved to be fundamental for the successful development of the project.”



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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WATTS®



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