

Microflex Quadro Heat Pump Pipe

Hot Tub Living Powered by Renewable Energy

Case Study





Microflex Quadro Heat Pump is a four core pre-insulated pipe designed for flow and return to the outside unit, it features two additional empty pipes for cables such as a data cable and voltage supply.



SCOPE

Quadro pipework for hot tub installation

- **WHO**
Mibec Ltd
- **WHAT**
Installing a hot tub in a home
- **HOW**
Microflex Quadro Heat Pump
- **WHERE**
UK
- **WHEN**
August 2020

Innovative connections

Hot tubs have been increasing in popularity across the UK both in holiday parks but also in gardens across the country. Usually hot tubs are located next to the property or self-catering unit both for ease of access but also due to restrictions on the pipework serving the system. Microflex Quadro solves this by being able to house the flow and return pipes as well as the electrics in a single pre-insulated pipe, freeing up the design options for customers. This has recently been used in a hot tub project in the UK where the customer was connecting a hot tub to a heat pump system.

The pipe was supplied by Watts Premier Partner Mibec who are the exclusive UK supplier of Microflex Quadro. Their MD Mitch Cadd explains why Microflex Quadro Heat Pump was the only choice for this project: "Installing a hot tub shouldn't be limited by the facilities needed to power and fill it. We wanted to ensure our client received the system they wanted in the location they planned to site it.

By using Microflex Quadro heat pump pipework, we can connect the hot tub to their heat pump system with all the electrics and water supplied through a single trench. This system is straightforward with no need for specialist tools so their plumber was confident to complete the installation."

Microflex Quadro Heat Pump Benefits

Microflex's thermal elastic, CFC free foam insulation is made from cross-linked PE-X with a closed microcellular structure. It has a minimal water absorption capacity of < 1% in accordance with ISO 2896.

The single pipe format minimises heat loss between the outside unit and building connection along with the advantage of all underground services being installed within a protection outer casing.

Microflex Quadro Heat Pump Pipework is available in a range of sizes to suit common project requirements.

Transport pipes

Corrosion-resistant transport pipe in cross-linked PE-Xa in accordance with EN ISO 15875, with yellow oxygen diffusion barrier in accordance with DIN 4726 for the heating water pipes.

Insulation

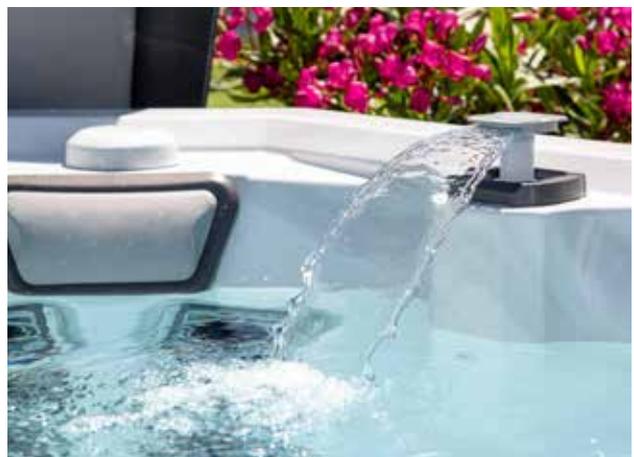
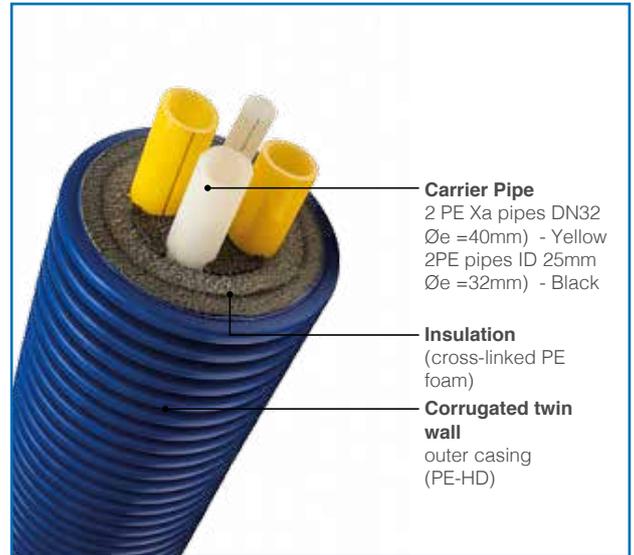
Thermal, elastic, CFC-free foam insulation made from cross-linked PE-X with closed microcellular structure. Minimal water absorption capacity of < 1% in accordance with ISO 2896. Insulating PE centrepiece guarantees an effective separation of flow, return, hot water and circulation pipes.

Casing

Double Walled Corrugated outside casing in HDPE, made in accordance with the closed chamber principle to provide high-grade protection to the piping system.

160mm Outercasing, 2 x 32mm (DN25) PE-Xa Pipes, 2 x 25mm (DN20) PE Pipes (for cables) MQ16032C25PEHP (Pipe Only)

200mm Outercasing 2 x 40mm (DN32) PE-Xa Pipes, 2 x 32mm (DN25) PE Pipes (for cables) MQ20040C32PEHP (Pipe only)



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