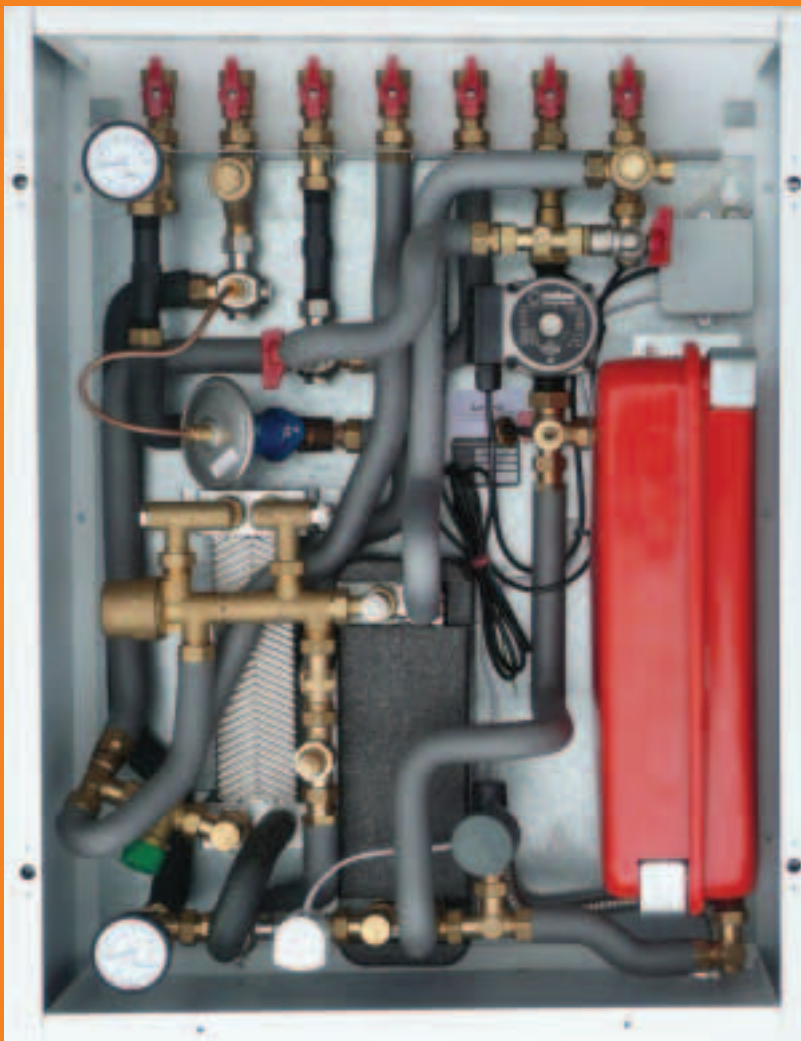


Logotherm Thermal Interface Units

The modern solution for district heating schemes.



- *High efficiency heating and hot water*
- *Saves space in multi dwelling buildings*
- *Reduces overall energy usage*
- *Reduces carbon emissions*
- *Reduces project expenditure*
- *Makes system maintenance easier*
- *Energy metering capabilities.*





Logotherm Thermal Interface Units Introduction

Meibes Logotherm Thermal Interface Units (TIUs) facilitate the use of decentralised systems for space heating and domestic hot water in blocks of apartments and other buildings with multiple residents or tenants.

As such, Logotherm enables significant reductions in energy consumption and carbon emissions, while also reducing capital and life cycle costs, without compromising on the comfort of the occupants. It also makes it considerably easier to integrate renewable and conventional heat sources to make optimum use of the resources available.

Each individual apartment requires individual heating demand at varied times, using Meibes (TIUs) provides increased efficiency.



What Logotherm does

Logotherm is a pre fabricated unit that provides a solution for central heat source systems, linked via a network of three pipes – heating flow and return and separate potable water feed. Cold water is heated via the Logotherm's heat exchanger to provide instantaneous hot water with no requirement for hot water storage.

A zone valve in each Logotherm, linked to standard timer and room thermostats, controls the space heating for each apartment/space. Integral metering of heat ensures that occupants can be accurately charged for their heat consumption.

Logotherm TIUs incorporate the patented Proportional Modulating Valve, which intelligently prioritises the requirement for domestic hot water generation over heating, in a similar way to a combination boiler. Whenever there is a call for hot water, the PM-valve diverts the primary flow through the heat exchanger to generate hot water. When the demand for hot water has been satisfied the primary flow reverts to the space heating system.

Making full use of renewables

Use of Logotherm with an optional buffer vessel enables integration of a range of heat sources. These include low carbon energy sources such as combined heat and power (CHP), solar thermal heating and heat pumps, as well as biomass, gas or oil boilers.



Logotherm benefits

Benefits for specifiers and developers

- Lower capital costs
- Reduced installation time
- Fuel supply to plant room only, no distribution of gas throughout building
- Single flue from plant room, no separate flues in apartments
- No hot water storage
- Each apartment/space only requires three pipes to supply water and energy
- Improved energy efficiency and SAP rating by maximising efficiency of central plant
- Enables integration of different heat sources
- All distribution systems are low pressure and low temperature
- Easier to gain planning consent.

Benefits for property managers

- No need to enter apartments for routine maintenance
- All plant in a single plant room
- Reduced energy consumption – in the order of 11% compared to individual boilers (higher with solar or heat pumps)
- Renewables input can be sold to tenants for faster return on investment.

The Logotherm solution

Logotherm is a space saving, high efficiency heating and hot water solution with reduced energy, carbon emissions and expenditure.

Isn't it time you considered Logotherm for your domestic district heating scheme?



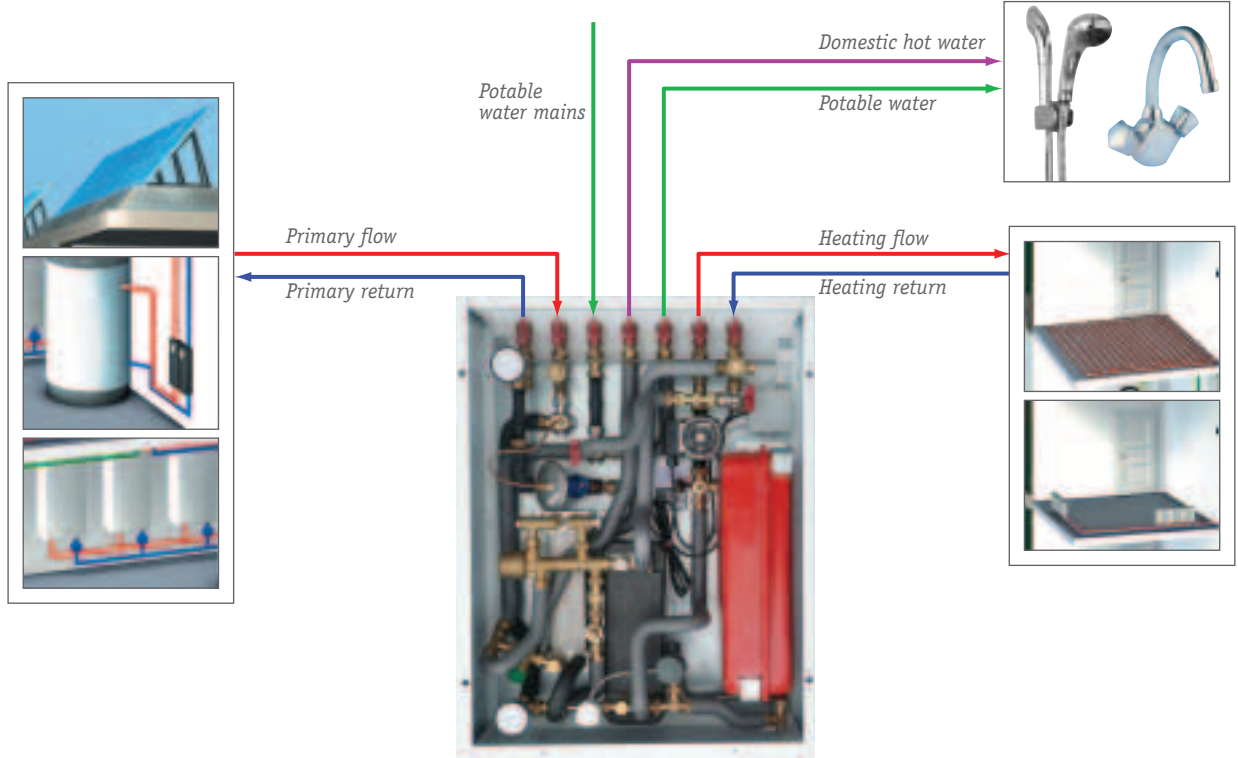
Developer's advantages:

No gas installation throughout the building
No flues in apartments
Simple integration of renewables
More energy efficient, better SAP rating

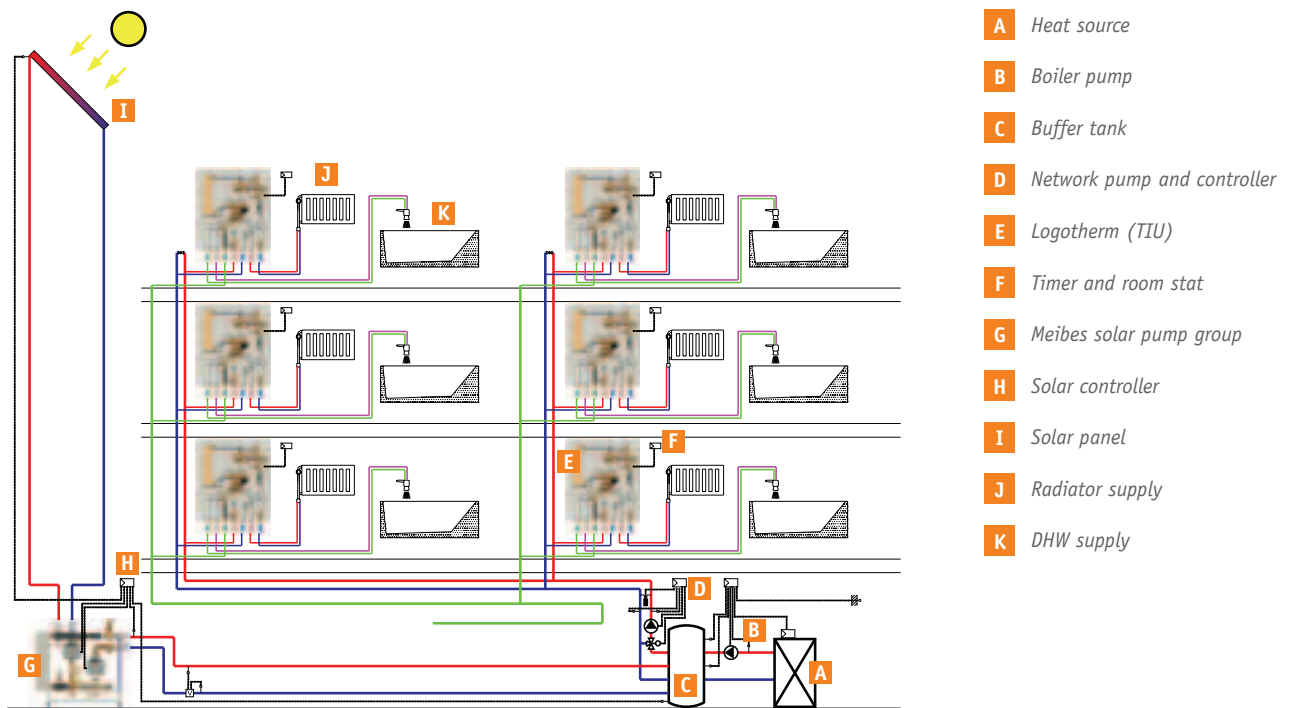
Management company's advantages:

No gas devices to maintain in apartments
No need to enter apartments
Renewables input can be sold to tenants
More energy efficient, better SAP rating

System elements example – How Logotherm works

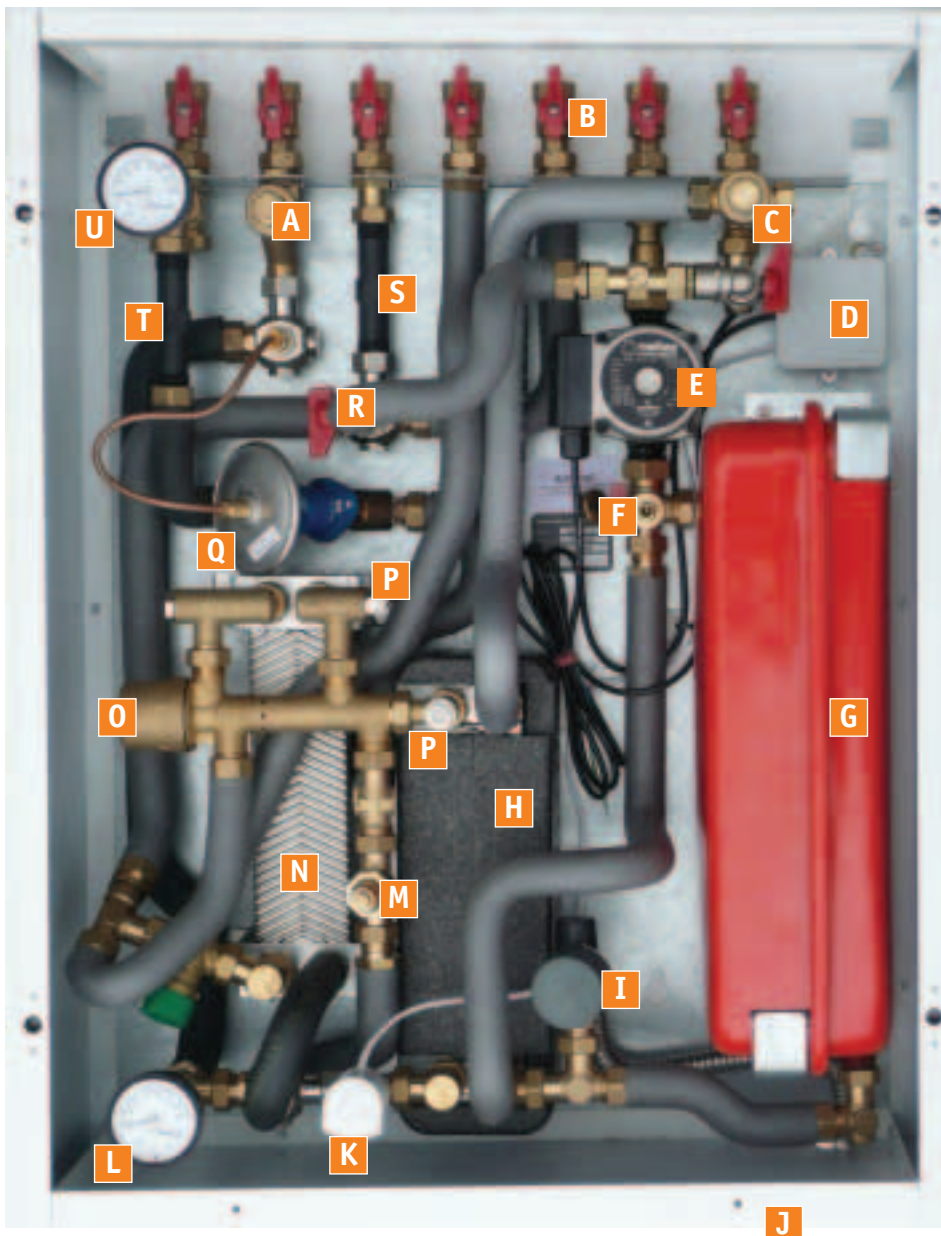


Energy centre for heating and hot water with integrated solar system



- A** Heat source
- B** Boiler pump
- C** Buffer tank
- D** Network pump and controller
- E** Logotherm (TIU)
- F** Timer and room stat
- G** Meibes solar pump group
- H** Solar controller
- I** Solar panel
- J** Radiator supply
- K** DHW supply

Inside the Meibes Logotherm unit



- | | | |
|--|--|-----------------------------------|
| A Primary flow strainer | I Pressure relief valve and gauge | Q Balancer valve (DPCV) |
| B First fix rail with ball valves | J Pressure relief pipe | R Fill point |
| C Secondary return strainer | K Primary zone valve | S Water meter spool piece |
| D Electric connection box | L Primary flow T/P gauge | T Heat meter spool piece |
| E Circulation pump space heating | M Thermostatic bypass valve | U Primary return T/P gauge |
| F Fill and flushing point | N Plate heat exchanger DHW | |
| G Expansion vessel | O PM valve | |
| H Plate heat exchanger heating | P Bleed points primary | |



Pegler Yorkshire

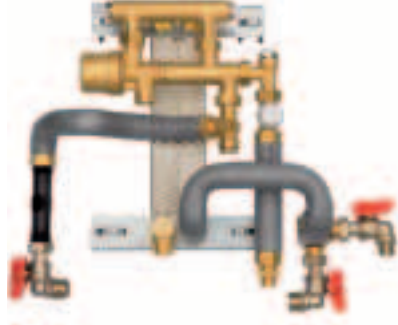
Logotherm product range



LogoComfort

Decentralised system for heating and hot drinking water

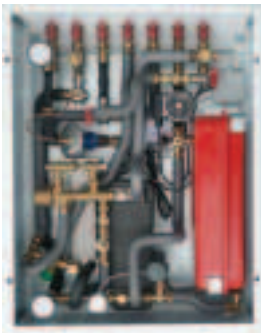
- Compact, ready-to-connect system in 2 finishes:
 - Basic models for standard solutions
 - Module system for customer-specific design
- High output range, up to 46 kW, 17 lit./min.
- Individual heating regulation with precise settlement of consumption
- Heating of drinking water with heat exchanger.



LogoPack

Decentralised system for heating and hot water (for riser installers)

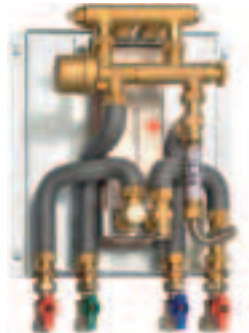
- Complete pre-fitted system
- Rising sections prefabricated to requirements
- Ascending pipes pre-insulated
- Minimum space required
- Short assembly time thanks to prefabricated system solution.



Local Heating Stations

Systems for direct/indirect connection to local and district heating networks

- Large capacities, economical operation, and low installation costs
- Direct and indirect connection: Capacity range max 20 kW, Operating pressure primary PN 16, Secondary PN 10, Flow temperature max 110°C
- Custom solutions, including higher temperatures and operating pressures, on request.



LogoVital

Decentralised system for hot water

- Complete, ready-to-connect
- Instant hot water, even for large requirements
- Complete pre-fitted system
- No problems with legionellae
- Small compact unit.

For more detailed information about the Meibes range of products visit our website:

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