Microbooster Heat Pump

METRO Microbooster V, P, VS and PS

METRO Microbooster produces hot water for a household of four persons or more by recycling energy from almost any type of liquid, including central heating, brine, and low temperature district heating.

If the heat source is hot enough it is even possible to use it to directly preheat the domestic hot water before activating the heat pump. This gives the Microbooster an incredibly high COP of 8.5 (only models VS and PS).

Advantages with METRO Microbooster

- Outstandingly high COP
- Optimized for horizontal transportation and easy installation
- Utilizes most liquids as heat source
- Low sound emissions
- Legionella control with heat pump alone
- PV ready and SG ready

EXPERTS IN HEATING AND HOT WATER

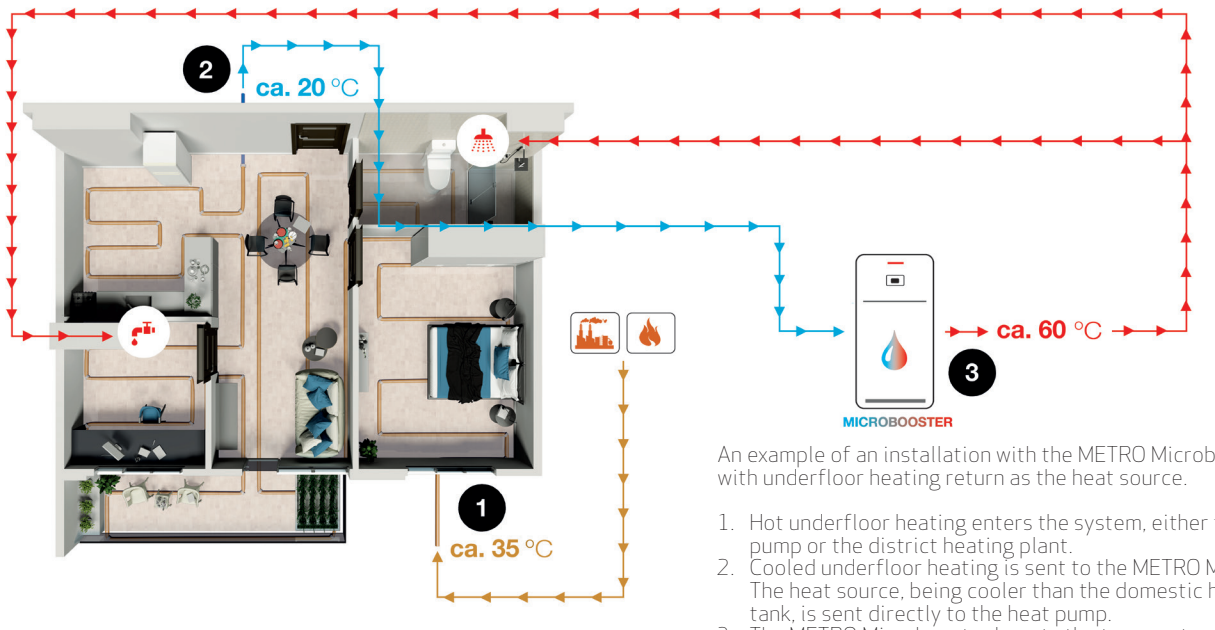
METRO THERM

Recycles heat from most liquids

METRO Microbooster uses the heat from most liquids to heat household water supplies. The heat pump uses electricity to extract heat from the liquid heat source, whether it is brine, central heating water, or low temperature district heating. At a heat source temperature of 40 °C, you get up to 8.5 times more energy than you put into it. In other words, when the heat pump uses 1 kWh to extract heat, it produces up to 8.5 kWh to heat water. The heat pump works with heat sources from 5 °C (brine) or 10 °C (uninhibited water) and up to 55 °C (models P and V) or 60 °C (models PS and VS).

Adjust to your needs

You can adjust METRO Microbooster to cater exactly for your specific needs. The many options include combining it with solar heating or underfloor heating. When combined with low temperature district heating it provides the added benefit of cooling the district heating return. You can access all the main operational modes, functions, set points, and information on the unit from home. The control panel is user-friendly, and the settings include operational modes such as AUTO, ECO, BOOST BACKUP and HOLIDAY.



An example of an installation with the METRO Microbooster could be with underfloor heating return as the heat source.

1. Hot underfloor heating enters the system, either from a heat pump or the district heating plant.
2. Cooled underfloor heating is sent to the METRO Microbooster. The heat source, being cooler than the domestic hot water in the tank, is sent directly to the heat pump.
3. The METRO Microbooster boosts the temperature of the dome stic hot water to between 50 and 60 °C.

Technical data

	Unit	P	S	PS	VS
Height	mm	1570			
Diameter	mm	Ø603			
Nominal volume, storage tank	l	190		180	
Volume at 40°C	L	247		234	
With/without direct preheating coil	-	Without direct preheating coil		With direct preheating coil	
Power supply	V/Hz	230/50			
Electric heater power	W	1500			
Refrigerant type	-	R134a			
Max. domestic hot water pressure	MPa	1.0			
Max. allowed heat source pressure	MPa	0.3	1.0	0.3	1.0
Heat source temperature range	°C	5 (10)* - 55		5 (10)* - 60	
Sound power	dB(A)	46			
Performance data					
Heat source at 25°C, domestic hot water at 10-53,5°C (EN16147, L)					
COP	-	5.3		5.2	
Heat up time	hh:mm	04:30			
Heating capacity	W	2100			
Stand-by heat losses	W	12			
Heat source at 40°C, domestic hot water at 10-53,5°C (EN16147, L)					
COP	-	6.0		8.5	
Heat up time	hh:mm	02:50		03:45	
Heating capacity	W	2700		2500	
Stand-by heat losses	W	9			

00:312-1903