

Logotherm®

## Low Temperature Network Solutions



### *LogoEco Hybrid FL*

Unique combination of a HIU and a thermal battery

- Domestic Hot Water (DHW) preparation on-demand
- For primary energy systems which are operating with low primary temperatures
- Choice between 3 different levels of energy storage

## Boost low primary network temperature for Domestic Hot Water

Primary networks temperatures are being lowered in the interest of energy efficiency and reduction the CO<sub>2</sub> emission. Current solutions include the use of heat pumps (air source and ground source) for increasing the available energy to supply domestic hot water (DHW). The LogoEco Hybrid FL is a unique combination of a Heat Interface Unit (HIU) and a FlexTherm Eco, an ultra-compact and efficient thermal battery for the preparation of Domestic Hot Water (DHW). The FlexTherm Eco stores energy (electrical or thermal) to make it available for instantaneous hot water generation.

### Ideal for multi-occupancy residential buildings

The LogoEco Hybrid FL is especially designed for use in multi-occupancy residential buildings in which the main primary energy is coming from the plant room where for example a heat pump or district heating network is supplying the low primary temperature (e.g. 45°C primary flow temperature). This low primary temperature will be transferred via the installed riser to the single apartments. Inside the single apartments the LogoEco Hybrid FL is installed.

The LogoEco Hybrid FL provides both Domestic Hot Water as well as space heating:

- The DHW is first heated using the heat interface unit (LogoEco) and then receives a secondary boost via the thermal energy battery (Flextherm Eco)
- Space heating is provided using the lower network temperature alone

### Standard power supply

The LogoEco Hybrid is suitable for standard 230V/16A power supply and can be installed without changing the electrical installation.

### Wide range of Heat Interface Units

Flamco offers you a comprehensive range of Heat Interface Units, suitable for your specific requirements. Please see backside for possible combinations and contact your local Flamco Account Manager to help you selecting the required HIU and FlexTherm Eco.

### Flexible pipes for ease of installation

The HIU and FlexTherm Eco can be easily connected using the Universal Connection Kit. This kit comes with flexible pipes (corrugated steel pipes) allowing multiple set-ups of the LogoEco Hybrid.



*FlexTherm Eco next to HIU*

*FlexTherm Eco below HIU*

Contact your local Flamco Account Manager to help you selecting the required HIU and FlexTherm Eco.

Use our online tool to calculate the time and amount of domestic hot water.



## FlexTherm Eco

FlexTherm Eco is a thermal battery. It converts electricity directly into heat and stores it for the generation of domestic hot water. With its compact design and efficient operation, FlexTherm Eco is a space saving option for every home, and boasts an efficiency energy label A+ (for inactivity losses).

### Key benefits

- Heat is stored in PCM (Phase Change Material - special salt)
- PCM stores about 3x more energy than water in the same volume
- DHW is heated instantaneously in special heat exchanger
- DHW Output temp can be higher than supply temperature
- Charged from electrics 2,8kW electrical heater – 1 phase 12A
- Power supply 230V/16A



Type	Storage capacity [kWh]	Max. working pressure [bar]	Dimensions			Weight [kg]	Pc. per Pallet	Part No.
			Width [mm]	Length [mm]	Height [mm]			
FlexTherm Eco 3E (S-Line)	3.5	10.0	360	570	445	70	1	18200
FlexTherm Eco 6E (M-Line)	7.0	10.0	360	570	645	120	1	18201
FlexTherm Eco 9E (L-Line)	10.5	10.0	360	570	880	170	1	18202

## Universal Connection Kit

This kit allows to connect the FlexTherm Eco to any of the specified HIU.



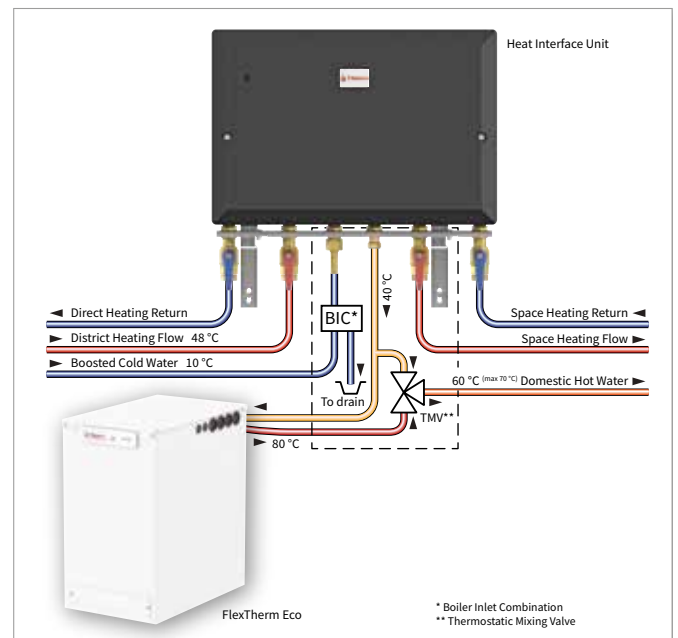
LogoEco Hybrid FL Kit A




LogoEco Hybrid FL Kit B

Type	For LogoEco:	Part No.
LogoEco Hybrid FL Kit A	Advance & Mechanic	M10101.0009
LogoEco Hybrid FL Kit B	Compact & Compact Tap	M10101.0010

## Installation example:



## Possible Heat Interface Units

HIU		Combined dimensions / weight (HIU + FlexTherm Eco)			Connections		
		FlexTherm Eco 3E (S-Line)	FlexTherm Eco 6E (M-Line)	FlexTherm Eco 9E (L-Line)	Heating		Domestic water
					Primary & secondary	Hot	Cold
LogoEco E H-HW		570 x 596 x 995 mm 87 kg	570 x 596 x 1195 mm 137 kg	570 x 596 x 1430 mm 187 kg	G3/4" Female	15 mm compression	15 mm pipe
LogoEco Compact E H-HW		570 x 672 x 1028 mm 87 kg	570 x 672 x 1228 mm 137 kg	570 x 672 x 1463 mm 187 kg	G3/4" Female	15 mm compression	15 mm pipe
LogoEco Compact E HW		570 x 672 x 1028 mm 87 kg	570 x 672 x 1228 mm 137 kg	570 x 672 x 1463 mm 187 kg	G3/4" Female	15 mm compression	15 mm pipe
LogoEco Split E H-HW		570 x 681 x 1075 mm 95 kg	570x681x1276 mm 145 kg	570 x 681 x 1510 mm 195 kg	G3/4" Female	15 mm compression	15 mm pipe
LogoEco Mix E H-HW		570 x 681 x 1075 mm 97 kg	570 x 681 x 1276 mm 147 kg	570 x 681 x 1510 mm 197 kg	G3/4" Female	15 mm compression	15 mm pipe
LogoEco T H-HW *		588 x 684 x 1098 mm 86 kg	588 x 684 x 1298 mm 136 kg	588 x 684 x 1533 mm 186 kg	G3/4" Female	15 mm compression	15 mm pipe
LogoEco Compact T H-HW *		570 x 662 x 1050 mm 89,5 kg	570 x 662 x 1250 mm 139,5 kg	570 x 662 x 1485 mm 189,5 kg	G3/4" Female	15 mm compression	15 mm pipe
LogoEco Compact T HW *		570 x 662 x 1050 mm 89,5 kg	570 x 662 x 1250 mm 139,5 kg	570 x 662 x 1485 mm 189,5 kg	G3/4" Female	15 mm compression	15 mm pipe
LogoEco Dual		570 x 685 x 1170 101 kg	570 x 685 x 1370 151 kg	570 x 685 x 1605 201 kg	G3/4" Female	** 15 mm compression	** 15 mm pipe

\* For all mechanic versions the primary temperature has to be minimum 55°C with the setting change on the valve.

\*\* In combination with a first fix rail the domestic water connections having WRAS approved valves.

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