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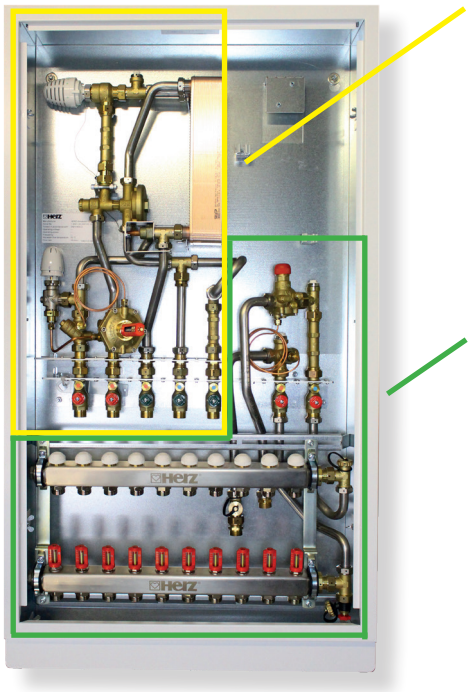
Heating Interface Unit LEN

Modern low-energy applications in a 4-pipe system

Overview

HERZ LEN, the heat interface unit (HIU) in a 4-pipe system, for high hot water comfort with simultaneous use in modern low-energy networks. The station is supplied, for example, via district heating or local heat generators, with separate energy circuits for hot water and space heating. This means that heat pumps can also be used as heat generators under optimal conditions. The buffer storage tanks normally used additionally facilitate the integration of renewable energies such as solar power and solar thermal energy. Maximum energy efficiency in heat provision can thus be achieved. The 4-pipe system also allows the station to be used for heating as well as for cooling/temperature control with simultaneous decentralised hot water production. HERZ LEN uses a highly efficient heat exchanger for decentralised hot water production on demand in the high-temperature circuit. Hygienic hot water is produced immediately and only when needed directly in the living unit. A central or decentralised hot water tank is no longer required with this system. For this reason, there is also no need for a circulation pipe. This means that much less energy is also wasted in the storage and transport of hot water. At the same time, thanks to the extraordinarily high transfer capacity of the heat exchanger, the return temperature of the entire system is particularly low.

A feature that works very well in combination with district or local heating, heat pumps or even condensing boiler technology and further increases system efficiency. Room heating or cooling is separated from this and brought in directly from the separate low-temperature circuit, via an integrated heating circuit distributor. This means that particularly energy-efficient solutions with a high proportion of renewable energies can be used for the provision of space heating. HERZ dwelling stations thus make a significant contribution to energy saving and the long-term reduction of emissions in the space heating sector.



Hot water supply

- High hot water comfort due to the instantaneous water heater principle
- Thermostatically controlled tap temperature
- HERZ differential pressure regulator 25- 60 kPa for hydraulic balancing
- HERZ pressure-temperature regulator
- Fittings for heat quantity and cold water meters, also for continuous operation

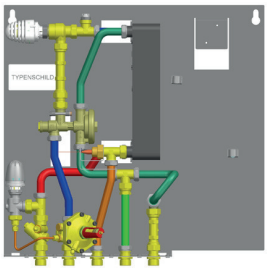
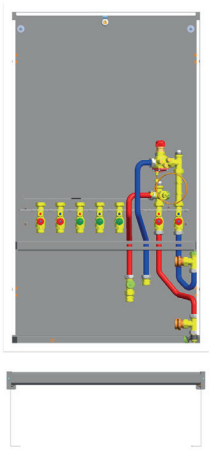
Space heating supply

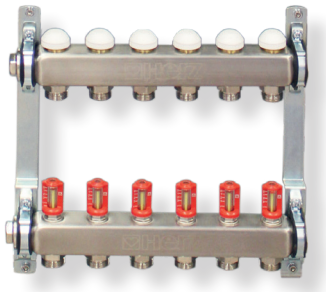
- Separate heating supply with low temperature
- Can also be used for cooling/temperature control via the heating surfaces
- HERZ stainless steel manifold with thermostatic valves and flow meter 0-3 l/min
- 4 in 1: HERZ differential pressure regulator with shut-off, zone valve function and adjustable flow limitation
- Automatic hydraulic balancing between all heating circuit manifolds in the building
- Heat meter adapter suitable for continuous operation

Benefits

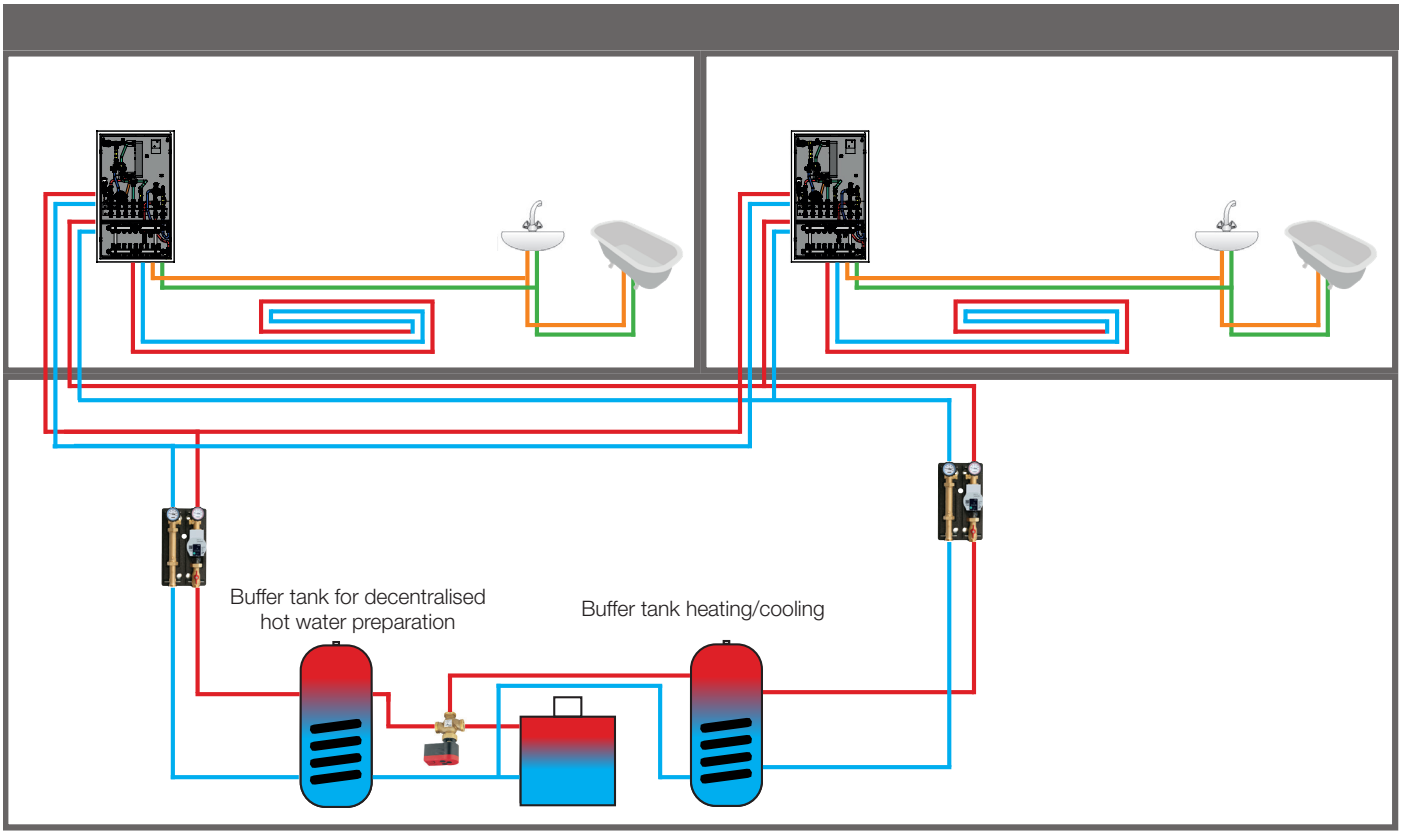
- Minimum space requirement HERZ housing stations are manufactured completely as a unit in our own production facility and tested several times for leak tightness
- Enables the use of the space heating for pleasant temperature control/cooling in summer
- Lower return temperatures result in very good stratification in the buffer tank
- Separation of hot water preparation and space heating enables the efficient use of heat pumps
- HIU piping and heat exchanger made of high-quality stainless steel
- Optimum utilisation of the calorific value effect and long burner runtimes result in a high overall efficiency
- Decentralised hot water production offers high Hot water comfort with high water hygiene
- Thermostatic control of the hot water temperature
- Safe and reliable operation with minimal service costs
- Minimum space requirement

Order overview

Model		Dim.	Order number
	Drinking water module HIU LEN	**11 l/min**	1 **4021** 20
		15 l/min	1 **4021** 21
		18 l/min	1 **4021** 22
		22 l/min	1 **4021** 23
	Flush-mounted box with ball valve rail and integrated connection pipework for the heating circuit distributor. The connection pipework includes a HERZ differential pressure regulator 35 kPa, with zone valve and shut-off function, as well as with adjustable flow limitation. Also already integrated is a fitting piece for the heat meter made of brass 110 mm G ¾“, which is also suitable for suitable for continuous operation		1 **4018** 70
	Front frame and front door white, powder-coated (RAL 9003), front door with bolt		1 **4018** 69
	HERZ sensor holder for the temperature sensor (M 10 x 1) Heat meter heating		1 **4022** 46
	HERZ sensor holder for the temperature sensor (M 10 x 1) Heat meter for hot water preparation		1 **4111** 60
	HERZ thermomotor 2-point; M 28 x 1.5, 2 pts; also suitable for pulse-pause operation; 5 mm stroke, adapter M 28 x 1.5; colour red integrated, cable fixed, without limit switch; closing force 100 N; power consumption 1 Watt		1 **7708** 53

HERZ Stainless steel manifold for HIU		Dim.	Order number
	With flowmeter (3 l/min), DN 25, consisting of return manifold with thermostatic valves (M 28 x 1.5), flow manifold with flowmeter inserts. Manifold connection with internal thread G 1“, manifold outlets with G ¾“ Euro cone. For use in 1 **4061** 21 Flush-mounted cabinet long for HIU compact Accessories clamp sets (1 **6098** xx) are to be to be ordered separately.	**3x**	1 **4023** 93
		4x	1 **4023** 94
		5x	1 **4023** 95
		6x	1 **4023** 96
		7x	1 **4023** 97
		8x	1 **4023** 98
		9x	1 **4023** 99
		10x	1 **4023** 90

Installation example heat pump application



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