

# Heating Interface Unit - HIU Salzburg

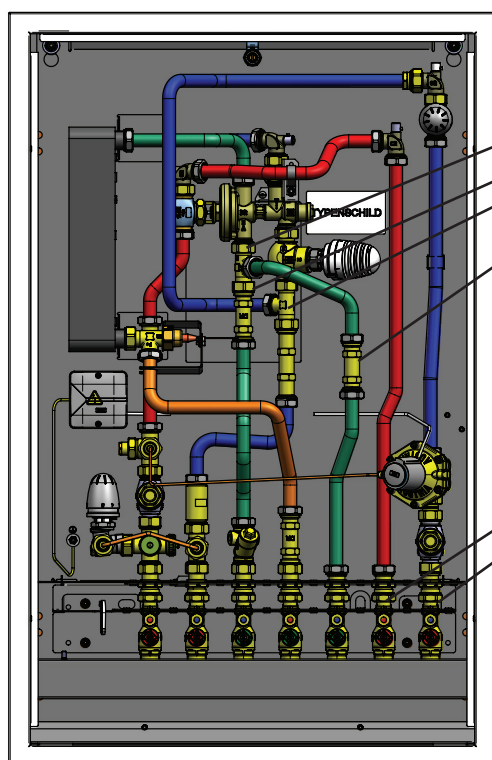
**Fully equipped for highest expectations**



## Overview

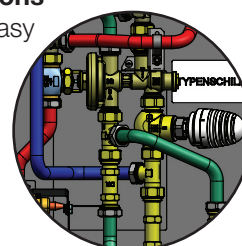
The conventional and until now most common method of hot water processing is by using a hot water storage tank. This type of device warms up the water long before it is used, and stores or “saves” it in a hot condition. The inevitable loss of heat incurred (depending on the temperature) in this process necessitates a regular reheating.

The disadvantages of this method of preparing hot water are sufficiently well known. By the use of constructive measures or by changing the method used, the intention is to prevent the occurrence of legionella at the earliest point in this process. All these measures are aimed at avoiding the “saving” of hot water over a time period, in order to prevent the propagation of the legionella. This type of device, which does not require any storage potential in its function, is known by the general heading of a “continuous water heater”.



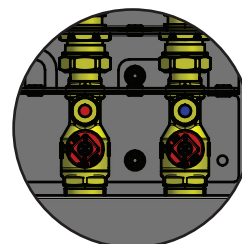
### 4 Different metering options

individual metering made easy  
brass spool pieces allow  
permanent operation



### Combined version available

the ability to supply radiant heating  
with an additional supply for radiators  
e.g. the bathroom radiator



## Features

- ✓ Various mounting options, on wall or in flush cabinet e.g. with an integrated heating manifold preinstalled
- ✓ Time- and cost-saving installation as only three supply pipes are required in one riser for all dwellings
- ✓ Hygienic hot potable water preparation according to the continuous flow principle. No potable water reserve required
- ✓ Safe and reliable operation with minimal service costs
- ✓ HIU pipework and heat exchanger made of high-quality stainless steel
- ✓ HIU is a complete package comprising of all components mounted on a frame, factory assembled and tested
- ✓ The continuous-flow heating enables a permanent supply when domestic hot water is required
- ✓ Lowest return temperatures enable the operation of highly energy efficient heat networks
- ✓ Pre-assembled ball valve first fix rail for preinstallation without the need to install the HIU module at an early project stage
- ✓ Minimal space required
- ✓ Thermostatic control of DHW temperature

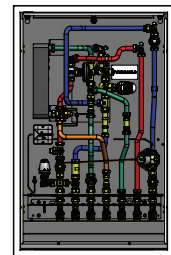


## ☑ Reliable hot water production

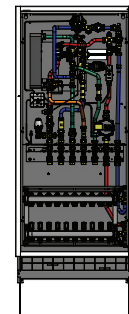
In the stand-by mode the heating water flows from the primary circuit (district heating main) via a bypass which is kept at operating temperature with a return temperature limiter. If hot water is drawn from a tap by a domestic user connected to the system, the pressure temperature controller allows flow on both the cold water and the primary heating circuit. Cold water flows through the heat exchanger, is heated up and promptly available as hot water at the domestic hot water tap. The temperature of the domestic hot water is controlled by a thermostatic controller. Salzburg stations also offer a priority valve which ensures most of the supply energy is available for the domestic hot water production when tapping.

## ☑ Salzburg family

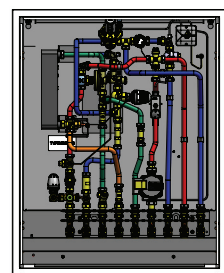
☑ **Salzburg HT** is designed to supply radiator heating systems with heat loads up to 15 kW. The unit features a HERZ differential pressure controller fixed at 23 kPa to secure the proper operation of typical thermostatic radiator valves in the apartment. It furthermore serves as a zone valve to control the space heating via a room controller. Optionally a primary side DPCV can be fitted to achieve an automatic and dynamic hydraulic balance between multiple units. The return temperature of the space heating can be adjusted with the fitted return temperature limiter installed to guarantee system efficiency.



☑ **Salzburg NT** is designed to supply radiant heating systems like underfloor heatings with heat loads up to 12 kW. The unit features a HERZ differential pressure controller fixed at 23 kPa to secure the proper operation of the radiant heating in the apartment. It furthermore serves as a zone valve to control the space heating via a room controller. Optionally a primary side DPCV can be fitted to achieve an automatic and dynamic hydraulic balance between multiple units. The supply temperature of the space heating can be set between 20 - 50 °C via the thermostatic temperature control, a high efficiency circulating pump for the space heating is included. If needed the unit can be delivered with underfloor heating manifolds of up to 10 circuits preinstalled in the flush cabinet.

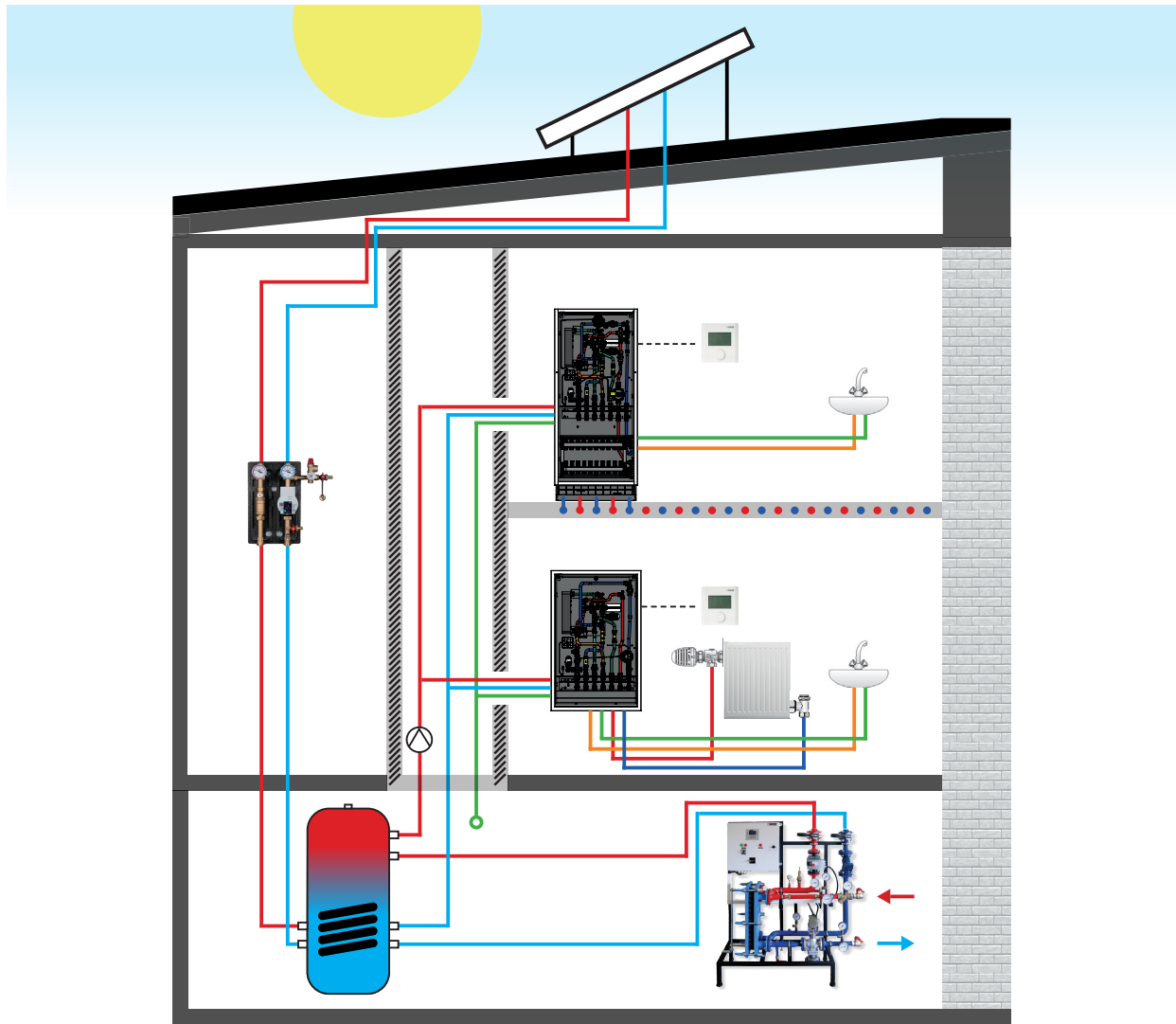


☑ **Salzburg NT with additional high temperature connection** is designed to supply radiant heating systems like underfloor heating with heat loads up to 12 kW and additionally offers a separate connection for high temperature applications, e.g. the bathroom radiator, or to supply an additional remote mixing unit for more spacious apartments. The unit features a HERZ differential pressure controller fixed at 23 kPa to secure the proper operation of the radiant heating in the apartment. It furthermore serves as a zone valve to control the space heating via a room controller. Optionally a primary side DPCV can be fitted to achieve an automatic and dynamic hydraulic balance between multiple units. The supply temperature of the space heating can be set between 20 - 50 °C via the thermostatic temperature control, a high efficiency circulating pump for the space heating is included. If needed the unit can be delivered with underfloor heating manifolds of up to 10 circuits preinstalled in the flush cabinet.



## ☑ Domestic hot water performance is key

Low supply and return temperatures are key to meet today's requirements of system efficiency in the production and the transport of heat. HERZ HIU's offer outstanding performance in that matter and are therefore the perfect partner of any district heating network as well as systems taking advantage of condensing boilers. Since typically connected to a buffer vessel, renewable energy sources can easily be integrated in such a system and help to further reduce emissions and costs whenever they are available. HERZ HIU's are offered in a variety of 4 DHW performance levels from 11 to 22 l/min tapping capacity so different apartment sizes can be taken into account easily.



## ☑ Fit for today's tasks

In contrast to the hot water storage method, the HIU only starts working when hot water is required, i.e. "drawn off".

HIUs are designed and optimised for operation in district and local heating systems. They are extremely efficient despite their compact design. Their area of application is focussed on single-family households (e.g. two adults, two children) in closed apartments on a multi-storey residential basis - particularly for the common case of subsequent district heating supply. The devices are also ideally suited for use in new buildings and single-family houses.

Depending on the potential of the primary supplier, HERZ HIUs have sufficient power for every application to be able to meet the normal comfort expectations of the consumers. The users' key criterion of quality in the practical use of these types of devices is the rate of flow of hot water supplied per unit time (minute). Furthermore, the hot water has to be of the temperature required or preset to, and also be maintained at that temperature for the whole time it is drawn-off.



## Order data for HIU Salzburg NT

Order data HIU Salzburg NT				
Draw off capacity	11 l/min	15 l/min	18 l/min	22 l/min
HIU Salzburg NT	1 4021 58	1 4021 56	1 4024 18	1 4021 60
HIU Salzburg NT insulated	1 4021 55	1 4021 59	1 4024 17	1 4021 57
Flush cabinet short, pre assembly strip, front frame and door	1 4024 05			
Flush cabinet long, UFH manifold 3 - 10 circuits, front frame and door	1 4024 33-40			
Cover HIU Salzburg NT	1 4024 09			
Pre-assembly strip HIU Salzburg NT	1 4024 02			
Pressure balancing set	1 4024 19			
Adapter piece for heat meter sensor M 10 x 1 mm	1 4022 46			
Empty weight module	18 kg			
Connection	External thread ¾" conical sealing			
Nominal pressure	10 bar			
Max. supply temperature HIU Salzburg NT	85 °C			
Min. flow pressure MCW	2,8 bar			
Circulation pump space heating	Wilo Para RS 15/6 (SCU) / or similar			

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**MCW** - mains cold water, **UFH** - under floor heating, **TSR** - with thermostatic control valve, **DHW** - domestic hot water, **NT** - radiant heating version, **HT** - radiator heating version, **NTHT** - radiant heating version with additional high temperature outlet

## Order data for HIU Salzburg HT

Order data HIU Salzburg HT				
Draw off capacity	11 l/min.	15 l/min.	18 l/min.	22 l/min.
Salzburg HT	1 4021 54	1 4023 05	1 4023 07	1 4023 09
Salzburg HT insulated	1 4021 53	1 4023 04	1 4023 06	1 4023 08
Flush cabinet short, pre assembly strip, front frame and door	1 4024 05			
Flush cabinet long, UFH manifold 3-10 circuits, front frame and door	1 4024 33-40			
Cover Salzburg HT	1 4024 09			
Pre-assembly strip Salzburg HT	1 4024 02			
Pressure balancing set	1 4024 19			
Adapter piece for heat meter sensor M 10 x 1 mm	1 4022 46			
Empty weight module	18 kg			
Connection	External thread ¾" conical sealing			
Nominal pressure	16 bar			
Max. supply temperature Salzburg HT	85 °C			
Min. flow pressure MCW	2,8 bar			
Circulation pump space heating	-			

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MCW - mains cold water, UFH - under floor heating, TSR - with thermostatic control valve, DHW - domestic hot water, NT - radiant heating version, HT - radiator heating version, NTHT - radiant heating version with additional high temperature outlet

## Order data for HIU Salzburg NTHT

Order data HIU Salzburg NTHT				
Draw off capacity	11 l/min.	15 l/min.	18 l/min.	22 l/min.
Salzburg NTHT	1 4021 64	1 4024 11	1 4024 16	1 4021 66
Salzburg NTHT insulated	1 4021 65	1 4024 10	1 4024 15	1 4021 67
Flush cabinet short, pre assembly strip, front frame and door	1 4024 04			
Flush cabinet long, UFH manifold 3 - 10 circuits, front frame and door	1 4024 23 - 30			
Cover Salzburg NTHT	1 4024 08			
Pre assembly strip Salzburg NTHT	1 4024 03			
Pressure balancing set	1 4024 19			
Adapter piece for heat meter sensor M 10 x 1 mm	1 4022 46			
Empty weight module	20 kg			
Connection	External thread ¾" conical sealing			
Nominal pressure	10 bar			
Max. supply temperature Salzburg NTHT	85 °C			
Min. flow pressure MCW	2,8 bar			
Circulation pump space heating	Wilo Para RS 15/6 (SCU) / or similar			

\* **MCW** - mains cold water, **UFH** - under floor heating, **TSR** - with thermostatic control valve, **DHW** - domestic hot water, **NT** - radiant heating version, **HT** - radiator heating version, **NTHT** - radiant heating version with additional high temperature outlet

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*Weil's ohne  nicht geht*

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