



Function

HIUs (Heat Interface Units) are thermohydraulic user satellites that allow the independent management of the heating system and the production of domestic hot water for users connected to centralized heating systems. They are typically installed in residential complexes with multiple housing units, where it is necessary to utilize the thermal power made available by a shared thermal plant. The heating is managed and distributed to individual apartments through a connection between the building's central heating plant and the individual homes, which are individually controlled by the HIU module.

Technical data

Max flow	950 l/h
Max temperature	85 °C
Max pressure	16 bar
Kv value 1)	1.0
Liquid	Water – Water + Glycol max. 30%
Heat meter preparation	110 mm – 3/4" M
Plate heat exchanger	Zilmet ZB 315 – Fast Connections
Number of plates	21
Zone valve	2-way – 3-point controlled motor
Supply voltage	230 V – 50 Hz
Max electrical consumption	Max 8.5 W
Primary flow control	Yes
PV valve (differential pressure control)	Yes
Adjustment	20 – 60 kPa
By-pass flow	Yes
Filter	Yes
Air vent	Yes
Drainage	Yes

Mechanical characteristics

Primary circuit supply connection	3/4" M
Primary circuit return connection	3/4" M
Center distance of primary circuit connections	70 mm
Apartment heating supply connection	3/4" M
Apartment heating return connection	3/4" M
Storage tank supply connection	3/4" M
Storage tank return connection	3/4" M
Center distance of apartment heating connections	70 mm
Safety valve discharge connection	Copper tube Ø15 mm
Filling cycle connections	1/2" M
External dimensions	550 x 450 x 240 mm
Gross weight	25,0 kg
Net weight	23,5 kg

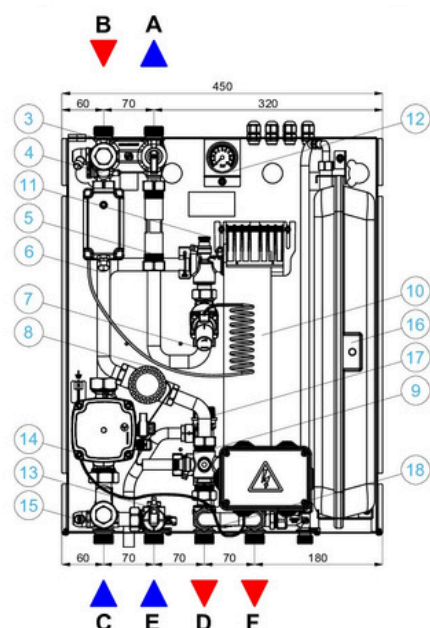
Apartment heating circuit

Max flow	960 l/h
Max temperature	80 °C
Max pressure	3 bar
Residual head at 1000 l/h	49.3 kPa
Nominal thermal power	22 kW
Liquid	Water – Water + Glycol max. 30%
Circulation pump	Grundfos UPM3 Hybrid 15-70 130
Adjustment	Proportional curve
Supply voltage	230 V – 50 Hz
Electrical consumption	min. 2 W – max. 52 W
Expansion vessel	Zilmet 13I0000901
Capacity	9 l
Pre-charge	1 ± 0.2 bar
Thermostatic valve temperature control	Yes
Adjustment	20 – 70 °C (5)
Low pressure switch	Yes, ON / OFF
ON pressure	0.35 bar
OFF pressure	0.15 bar
Safety valve	Yes
Adjustment	3 bar
Pressure gauge	Yes, 0–10 bar
Filter	Yes
Air vent	Yes
Drainage	Yes

General electrical characteristics

Supply voltage	230 V – 50 Hz
Max energy consumption	max. 60,5 W
IP protection rating	IPX0D

Composition



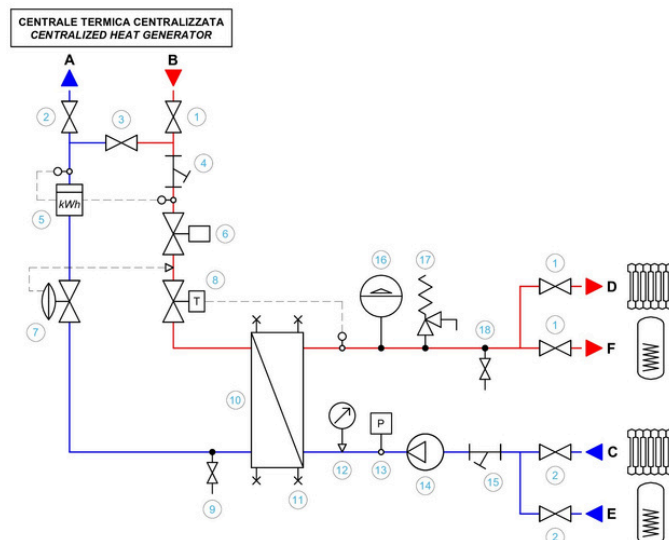
- 1 Ball valve (optional)
- 2 Ball valve (optional)
- 3 By-pass flow
- 4 Primary filter
- 5 Heat meter (optional)
- 6 Primary on / off valve
- 7 PV valve (differential pressure control)
- 8 Thermostatic valve
- 9 Primary drainage
- 10 Heat exchanger
- 11 Air vent
- 12 Pressure gauge
- 13 Pressure switch
- 14 Heating circulation pump
- 15 Heating filter
- 16 Expansion vessel
- 17 Heating safety valve
- 18 Heating drainage

Certifications

Product compliant with:
- EN 16297-2 / EN 16297-3:2012 ErPReady
- PED Directive – 2014/68/EU



Hydraulic functional diagram



Hydraulic characteristics

