

TECHNICAL DESCRIPTION

Thermia Idun

Indoor unit

Thermia AB is not liable or bound by warranty if these instructions are not adhered to during installation or service.

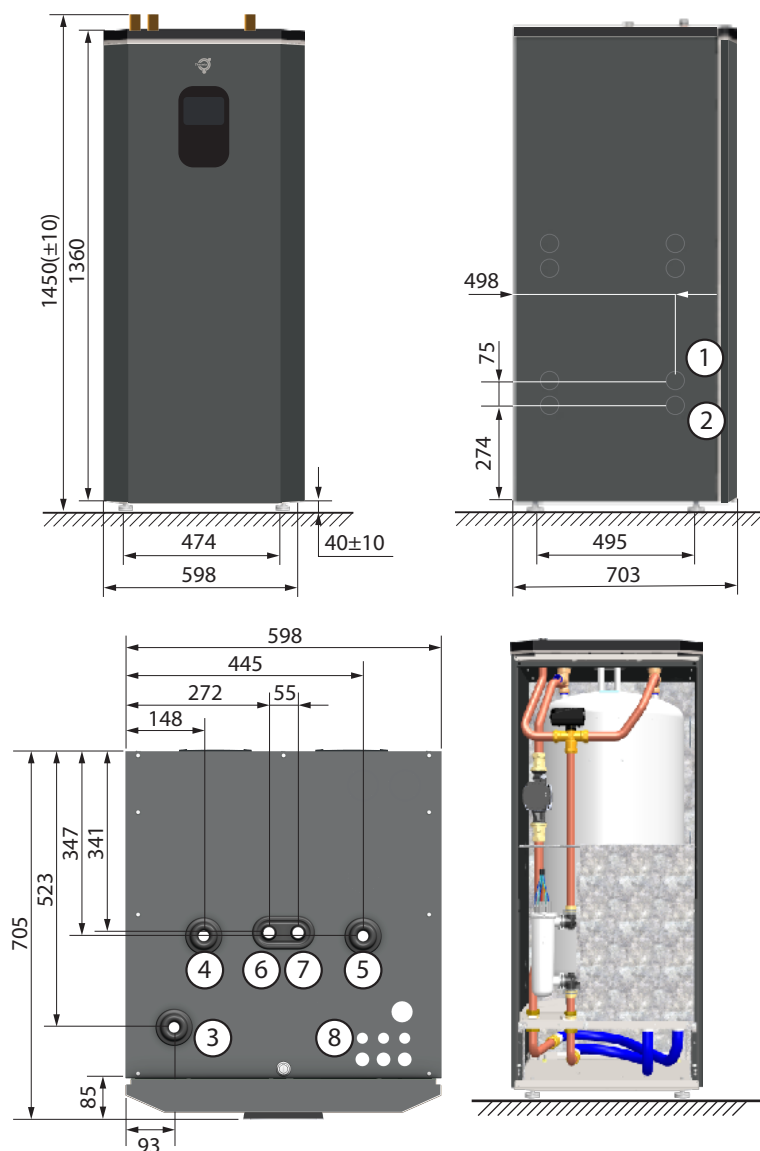
The English language is used for the original instructions. Other languages are a translation of the original instructions. (Directive 2006/42/EC)

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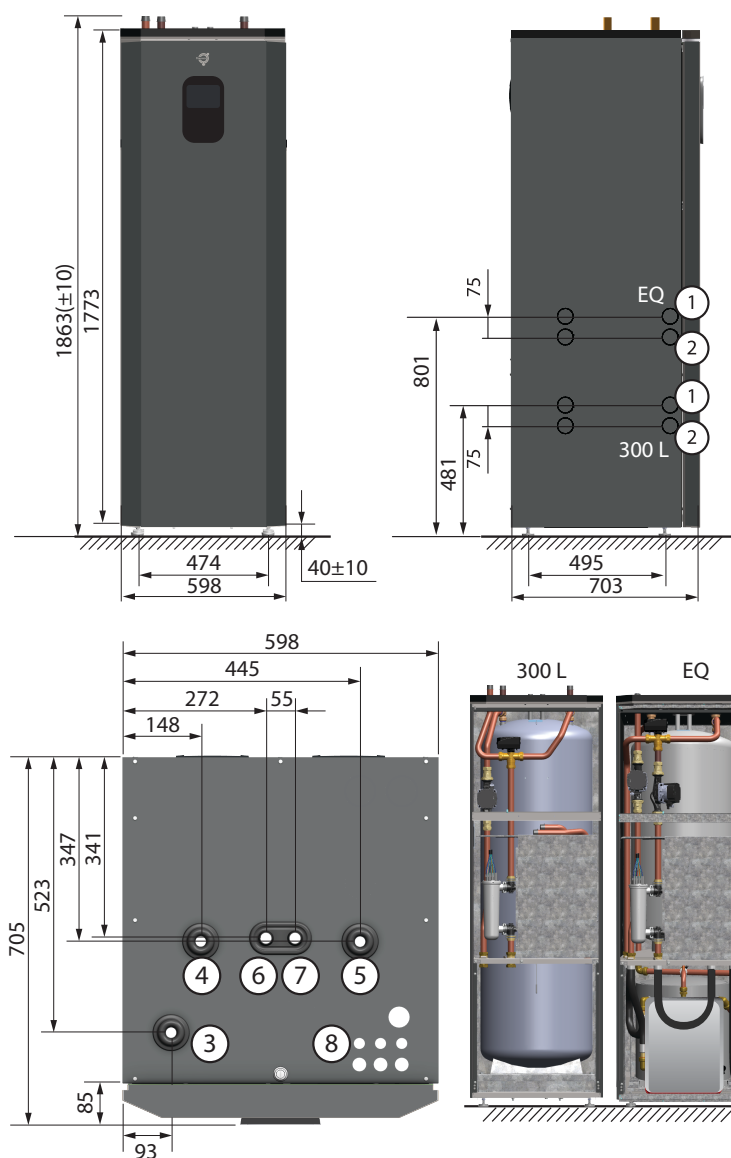
1 Dimensions and connections

1.1 Thermia Idun Compact



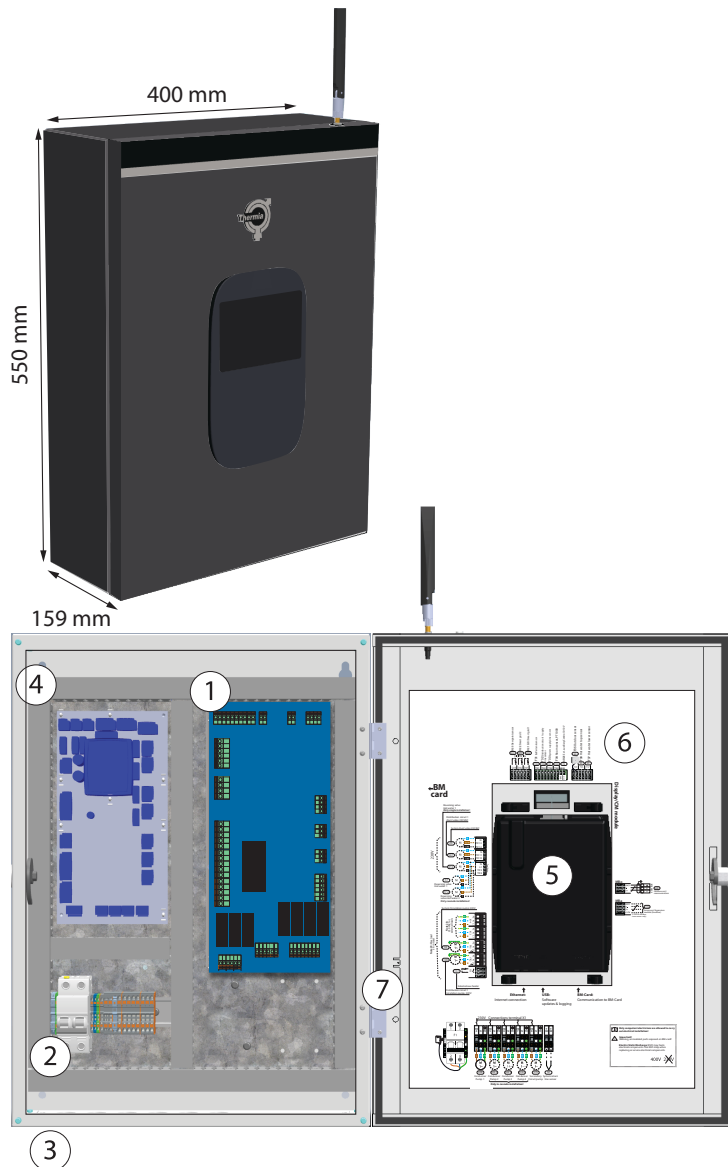
1. Supply line from outdoor unit, 28 mm Cu (left or right)
2. Return line to outdoor unit, 28 mm Cu (left or right)
3. Heating system supply, 28 mm
4. Heating system return, 28 mm
5. Connection for bleed valve, 28 mm
6. Hot water line, 22 mm
7. Cold water line, 22 mm
8. Lead-in for power supply, sensor and communication cable

1.2 Thermia Idun Total EQ/300I



1. Supply line from outdoor unit, 28 mm Cu (left or right)
2. Return line to outdoor unit, 28 mm Cu (left or right)
3. Heating system supply, 28 mm
4. Heating system return, 28 mm
5. Connection for bleed valve, 28 mm
6. Hot water line, 22 mm
7. Cold water line, 22 mm
8. Lead-in for power supply, sensor and communication cable

1.3 Thermia Idun Standard



1. BM-Card
2. Incoming power, sensor and communication terminal
3. Lead-in
4. Designated place for EM-Card
5. Back of display, connections for BM-Card, network & USB
6. Label sheet, instructions for connections
7. Grounded cable

2 Technical data

Property	unit	Idun Compact	IdunTotal EQ	Idun Total 300L	Idun Standard
Mains power supply	V		400V~3N 50Hz		230V~1N
Rated power, circulation pumps	kW	0,1	0,2	0,1	N/A
Immersion heater, steps	kW		1,5/ 3,0/ 4,5/ 6,0/ 7,5/ 9,0		N/A
Fuse separate supply, immersion heater only	A		6 / 6 / 13 / 13 / 13 / 16		N/A
Energy class: Hot Water Storage Tank			C		N/A
Max pressure Heating	bar(g)		3		N/A
Flow coefficient	kVS	3,75	3,72	4,09	N/A
Hot water tank volume	l	184	184	290	N/A
Weight empty	kg	91	137	118	10
Weight filled	kg	275	321	302	N/A
Width	mm	598 ±10		598 ±10	400 ±10
Depth	mm	703 ±10		703 ±10	159 ±10
Height	mm	1450 ±10		1863 ±10	550 ±10
Height, diagonal when tilting	mm	1550±10		1930 ±10	N/A

3 Flow and pressure

3.1 Considerations – Water flow in the heating system

To ensure good energy management in the heating system it is important to consider what heating water flow that is required to have in the heating system. The controls in the Thermia Idun indoor units provide settings and logic for automatic flow control.

The indoor unit itself does not set specific requirements for the heating water flow. The setting is dependent on the properties of the heating system and on what outdoor unit that is used in the system installation.

In operation the water flow can be found in **System information -> Operating data** and scroll down to **Flow rate** and it is shown in l/min.

To adjust the minimum water flow go to **Installer setting** scroll to **Circulation pumps -> Condenser pump HP** and adjust the **Min/Max flow** of the internal circulation pump as needed. The minimum water flow is set to 70% as default, but this may need to be adjusted so that you have at least the recommended water flow as minimum water flow.

Note! Thermia Idun Standard is designed to support on/off circulation pumps only, so in such installations it's crucial that the circulation pump used in the system can support the minimum flow rate requirements etc.

3.2 External available flow/pressure with internal circulation pump - Thermia Idun series

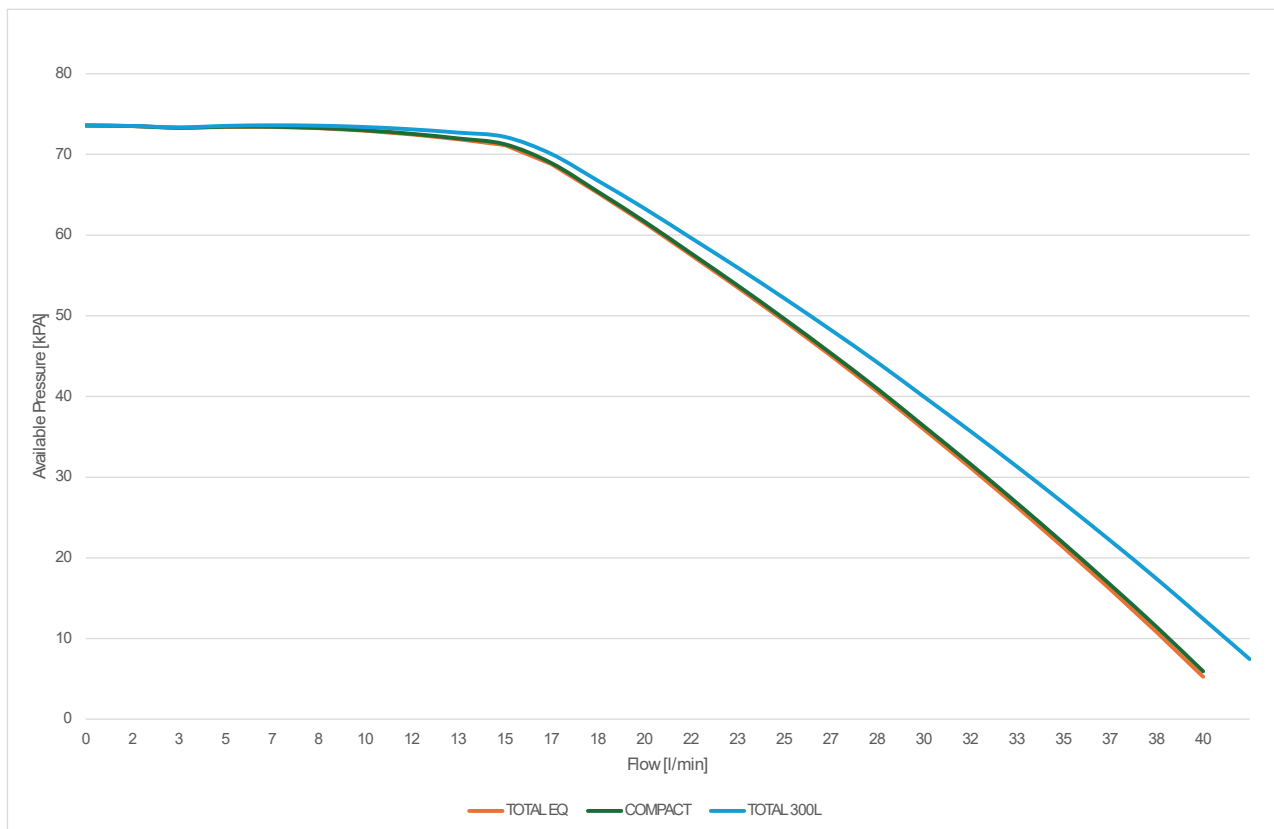
All floor-standing indoor units in the Thermia Idun series provide a built-in internal circulation pump for the heating system. Please see the diagram below of the maximum external available pressure/flow provided from each indoor unit model respectively.

Note! The pressure/flow diagram shown below is for the indoor unit only, it is **NOT** including the connection to an outdoor unit and its pipeworks, nor the pipeworks to the heating system.

Please see the documentation of the outdoor unit for flow requirements, flow coefficient etc.

Also assess what the pressure/flow requirements are of the heating system.

If the internal circulation pump provided does **NOT** supports the joint external requirements of the outdoor unit and the heating system, please consider installing an additional system circulation pump to ensure sufficient flow and ability to manage pressure requirements.



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