



Thermia Legend Legend Duo



Legend

Efficient and reliable

Based on reliable and well-established technology, Legend is an efficient heat pump for people who are looking for an easy-to-maintain heating system with a low operating cost. The optimum technology ensures that the operation of the heat pump is constantly fine-tuned to meet current needs and conditions. This minimizes energy consumption.

The high SCOP of 5.24, which is a measurement of the heat pump efficiency during the year, means that you can reduce heating costs by up to 80 percent. Legend uses the climate-friendly refrigerant R452B. This has a very low GWP value* and, thanks to its unique design, Thermia Legend requires less refrigerant than other heat pumps. In fact, the CO₂ equivalent is 85% lower than traditional refrigerants in similar heat pumps.

The hot water tank is fitted with our TWS** technology, which means that hot water is produced faster and at higher temperatures than with traditional techniques.

Using the optional Thermia Online tool, you can remotely monitor your heat pump via a computer, tablet or smartphone, any time and from anywhere with an internet connection.

The Thermia Legend Duo is a variant of the Thermia Legend. The Duo model does not have an integrated hot water tank. In this case, a separate hot water tank MBH Legend is available in volumes of 200 and 300 liters.



* Global warming potential" and is stated in GWP / gram of gas. See product sheet for the value of each product's CO₂ equivalents.

** TWS = Patented heating technology for water heaters, developed by Thermia.

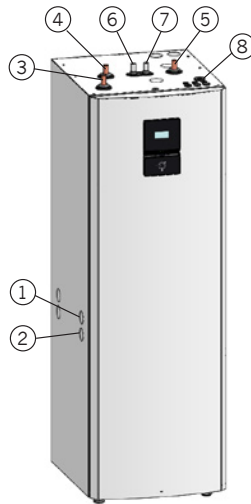
Technical data Legend

Legend duo

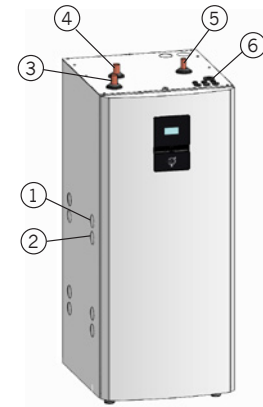
Connections Legend

The brine can be connected on either the left or right-hand sides of the heat pump, (or as option with additional pipes on top).

- 1 Brine return line (Brine in), 28 mm
- 2 Brine supply line (Brine out), 28 mm
- 3 Heating system supply line, 22 mm
- 4 Heating system return line, 22 mm
- 5 Connection for bleed valve, 22 mm
- 6 Hot water, 22 mm
- 7 Cold water, 22 mm
- 8 Lead-in for incoming power supply, sensors and communication cable



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The brine can be connected on either the left or right-hand sides of the heat pump, (or as option with additional pipes on top).

- 1 Brine return line (Brine in), 28 mm
- 2 Brine supply line (Brine out), 28 mm
- 3 Heating system supply line, 4-10 kW: 22 mm, 13-17 kW: 28 mm
- 4 Heating system & hot water tank return line: 4-10 kW: 22 mm, 13-17 kW: 28 mm
- 5 Supply line hot water tank, 22 mm
- 6 Lead-in for incoming power supply, sensors and communication cable

Legend		4	6	8	10	13***	17***	
Refrigerant	Type	R452B	R452B	R452B	R452B	R452B	R452B	
	Amount ¹	kg	0,575	0,575	0,85	0,9	1,0	1,25
Compressor	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	
	Electrical data							
3-N, ~50 Hz	Main power supply	Volt	400	400	400	400	400	
	Max working power, compressor	kW	2,1	2,4	3,0	4,1	5,1	7,1
	Rated power, circulation pumps	kW	0,15	0,15	0,15	0,2	0,25	0,3
	Auxiliary heater, 3 steps	kW	3/6/9	3/6/9	3/6/9	3/6/9	3/6/9	3/6/9
	Fuse ²	A	10/13/20	10/16/20	13/16/20	13/16/20	16/20/25	20/25/32
Start current ³	A	8	9	10	11	20	30	
Performance	Heating capacity ⁴	kW	4,71	5,56	7,35	9,81	12,42	16,69
	Power Input ⁴	kW	1,10	1,26	1,59	2,06	2,75	3,77
	COP ⁴		4,30	4,40	4,62	4,76	4,52	4,43
	SCOP, floor heating (35°C) ⁵		4,72	4,87	5,10	5,24	5,09	4,92
	SCOP, radiator heating (55°C) ⁵		3,41	3,65	3,74	3,94	3,83	3,80
	SCOP, floor heating (35°C) ⁶		4,59	4,74	4,96	5,09	4,94	4,79
SCOP, radiator heating (55°C) ⁶		3,33	3,56	3,64	3,84	3,74	3,70	
Energy class - system	Floor heating (35°C) ⁷		A+++	A+++	A+++	A+++	A+++	
	Radiator (55°C) ⁷		A+++	A++	A++	A++	A++	
Energy class - product	Floor heating (35°C) ⁸		A+++	A+++	A+++	A+++	A+++	
	Radiator (55°C) ⁸		A++	A++	A++	A++	A++	
	Hot water ⁹		A	A	A	A	A	
Max/min temperature	Cooling circuit	°C	25/-10	25/-10	25/-10	25/-10	25/-10	
	Heating circuit	°C	60/20	60/20	60/20	60/20	60/20	
Anti-freeze	Cooling circuit ¹⁰		Ethanol + water solution -17/+2 °C					
Sound power level	Legend ¹¹	dB(A)	40	40	41	41	n/a	n/a
	Legend Duo ¹¹	dB(A)	n/a	42	42	42	45	45
Water volume	Legend	l	184	184	184	184	n/a	n/a
	Legend Duo ¹²	l	n/a	optional	optional	optional	optional	optional
Weight	Legend, Empty	kg	146	148	165	170	n/a	n/a
	Legend, Filled	kg	336	338	355	360	n/a	n/a
	Legend Duo	kg	n/a	113	125	130	135	140
Dimensions	Legend	mm	598x703x1863	598x703x1863	598x703x1863	598x703x1863	n/a	n/a
	Legend Duo	mm	n/a	598x703x1450	598x703x1450	598x703x1450	598x703x1450	598x703x1450

1) The refrigerant circuit is hermetically sealed and subject to the F-gas directive. Global Warming Potential (GWP) for R452B according to EC 517/2014 is 698, giving a CO₂ equivalent corresponding to: 4: 401 kg, 6: 401 kg, 8: 593kg, 10: 628 kg, 13: 698 kg, 17: 873 kg.
 2) The minimum recommended fuse group size depends on auxiliary heater setting (3/6/9 kW) in combination with compressor. The maximal steps of auxiliary heater may be configured differently with/without compressor in the controller.
 3) According to IEC61000.
 4) At B0/W35, according to EN14511.
 5) SCOP according to EN14825. Cold climate (Helsinki), P-design: Legend 4: 5 kW (BOW55), 5 kW (BOW35). Legend 6: 6 kW (BOW55),

6 kW (BOW35). Legend 8: 8 kW (BOW55), 8 kW (BOW35). Legend 10: 11 kW (BOW55), 11 kW (BOW35). Legend 13: 14 kW (BOW55), 15 kW (BOW35). Legend 17: 19 kW (BOW55), 19 kW (BOW35)
 6) SCOP according to EN14825. Average climate (Strasbourg), P-design: Legend 4: 5 kW (BOW35), 5 kW (BOW55). Legend 6: 6 kW (BOW55), 6 kW (BOW35). Legend 8: 9 kW (BOW55), 8 kW (BOW35). Legend 10: 12 kW (BOW55), 11 kW (BOW35). Legend 13: 15 kW (BOW55), 14 kW (BOW35). Legend 17: 20 kW (BOW55), 18 kW (BOW35).
 7) When the heat pump is part of an integrated system. According to Eco-design Directive 811/2013
 8) When the heat pump is the sole heat generator and the built-in controller is not included. According to Eco-design Directive 811/2013.

9) Hot water performance according to EN16147, according to XL cycle.
 10) Always check local rules and regulations before using antifreeze.
 11) Sound power level according to EN 12102 and EN 3741 (BOW35)
 12) MBH Legend 200 (6-13kW)/MBH Legend 300 (6-17kW).
 *** Only Legend Duo