

## Data sheet LAW 14IMR



### Reversible air-to-water heat pump in split design incl. domestic hot water preparation.

Installation location:

Max. flow temperature: 55 °C

Casing colour: White

Heat pump system for heating and cooling with inverter control and integrated heat pump manager WPM Econ5Plus with standard display. The hydraulic unit (indoors) and outdoor unit, which are connected via a refrigerant pipe (special accessory). The outdoor unit with output-controlled compressor (inverter) adapts the heat output to the heat consumption of the building and can be installed close to the wall. Sound-optimised through electronically controlled fan. With a flexible control range, the heating and domestic hot water output can be adapted to the actual heat consumption. The optional cooling can take place via fan convectors or panel heating systems. For silent cooling via panel heating systems (e.g. underfloor heating), an intelligent room temperature controller, Smart-RTC, with humidity measurement (special accessory) is required to determine the dew point. The following components are mounted in a space-saving way and wired ready to use:

- Switchable pipe heater (2/4/6 kW) for support for space heating
- Domestic hot water cylinder 300 l with 3.2 m<sup>2</sup> tube heat exchanger and 1.5 kW flange heater for thermal disinfection
- Electronically regulated pump, 100 l buffer tank and overflow valve to guarantee the required heating water flow rate
- Safety valve incl. connection for an expansion vessel

Heating circuit circulating pump free compression 29600 Pa at a heating water flow rate of 2.4 m<sup>3</sup>/h. Energy efficiency EEI ≤ 0.20. Flexible expansion options for bivalent or bivalent-renewable operating mode. Condensate tray heating built-in as standard with LAW 14ITR. For LAW 9IMR available as a accessory (KWH 60). The electrical connection between the control



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to be mounted in the building and the outdoor unit takes place via a shielded 2-wire data cable (e.g. LiYY; cross-section 0.6 mm<sup>2</sup>) not included in the scope of supply.

Dirt trap and flow rate switch built in. Integrated flow and return sensors; external sensor (standard NTC-2) and pressure gauge included in the scope of supply.



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## Technical data

### Dimplex Reversible air-to-water heat pump in split design incl. domestic hot water preparation. (Low temperature)

Heat pump code	1038
Max. flow temperature	55 Grad
Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-20 Grad / 30 Grad
Heat output A-7/W35 / COP A-7/W35 *	13,1 kW / 2,7
Heat output max. A-7/W35 / COP A-7/W35 *	13,1 kW / 2,7
Heat output A2/W35 / COP A2/W35 *	10,7 kW / 3,3
Heat output max. A2/W35 / COP A2/W35 *	12,3 kW / 3,3
Heat output A7/W35 / COP A7/W35 *	10,2 kW / 4,4
Heat output max. A7/W35 / COP A-7/W35 *	14,6 kW / 2,7
Heat output A10/W35 / COP A10/W35 *	10,8 kW / 4,6
Heat output max. A10/W35 / COP A10/W35 *	14,9 kW / 4,4
Nominal power consumption according to EN 14511 at A2/W35	1,41 kW
Nominal power consumption A7/W35	3,31 kW
Sound power level	68 dB(A)
Sound pressure level in 10 m	37 dB(A)
Refrigerant / Amount of refrigerant	R410A / 2,98 kg
Max. heating water flow rate / Pressure drop	2,4 m3 pro h / 30400 Pa
Heat source flow (min.)	7200 m3 pro h
Width x Height x Depth **	950 x 1380 x 330 mm
Weight	316 kg
Rated voltage	1/N/PE ~230 V, 50 Hz
Starting current	5,9 A
Fuse protection HP with separate infeed ***	C 40 A
Type of defrosting	Reverse circulation
Heat pump seal of approval (valid until)	Yes / 08.09.2022

\*It is absolutely essential that the commissioning of the split heat pump takes place via after-sales service owing to the cooling technology training required to connect the indoor and outdoor units.

\*\*Please note that additional space is required for pipe connections, operation and maintenance.

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Description	Order ref.	Article number	Sample item	Item
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\* Other specific accessories available / required

Important information:

The combination of the components and the quantities indicated represent a non-binding sample system, which needs to be tested and individually adapted as required. Pump dimensioning must be reviewed according to the pressure loss of the system and the minimum heating water flow rate of the heat pump.



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