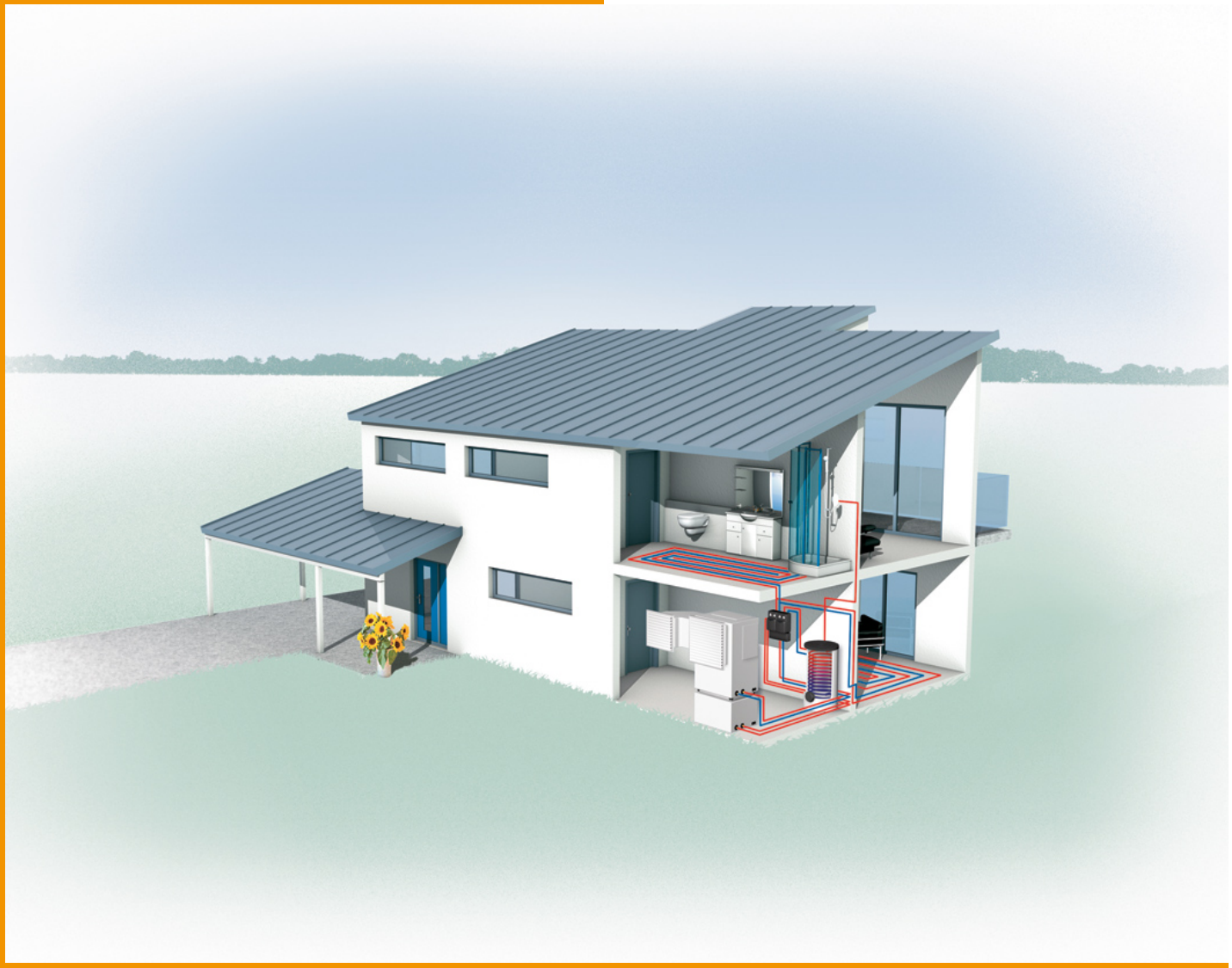

Air-to-water heat pump installed indoors

with variable air circuit

Surrounding air as a heat source

Nearly everywhere, surrounding air is available in unlimited quantities as an energy source for heat pumps. Dimplex air-to-water heat pumps utilise the energy stored in the surrounding air for efficient and environmentally friendly heating. Energy is extracted from the outside air, which is drawn in via a fan. The cooled air is then discharged outside. Dimplex air-to-water heat pumps are an economical heating system and, as the costs for tapping the heat source are minimal and the systems operate efficiently and reliably even at low outside temperatures, the amortisation times are short.

High-efficiency heat pumps with variable air circuit

The new high-efficiency heat pumps for indoor installation feature a flexible air circuit and a simple hydraulic connection. The outside air is drawn in at the back of the device. No air ducts are required. Thanks to the EC 3D radial fan, the air outlet can be on the left, right or top of the device (as needed). The hydraulic connection of the heat pump can be perfectly adjusted to the given conditions. For installation, the flow and return can be inserted into the casing from either the left or the right.

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LI 9TU for indoor installation - air outlet on the right

High-efficiency air-to-water heat pumps for indoor installation

- ✔ Variable air outlet to the left, right or top with the option of routing the hydraulic connections from right to left
- ✔ Electronic expansion valve for high seasonal performance factors and low operating costs
- ✔ Free-swinging compressor baseplate and low-speed EC radial fan for low acoustic emissions
- ✔ WPM EconPlus heat pump manager with integrated thermal energy metering and flow rate switch for high operational safety
- ✔ Compact dimensions for space-saving installation
  - Installation with PSP 120E built-under buffer tank possible

Heat pump manager WPM EconPlus

High-efficiency heat pumps are equipped with the EconPlus heat pump manager with sensor monitoring of the refrigeration circuit and an integrated thermal energy meter. The WPM Econ Plus also monitors the heat pump's operation and provides all of the functions of a modern heating regulation system, such as connection to modern communication networks and time programs for heating and domestic hot water preparation. When a heat pump is combined with other heat generators (boiler, solar), the heat pump manager regulates the entire system.

Device information for high-efficiency air-to-water heat pump for indoor installation

Order reference		LI 9TU	LI 12TU
Design		universal	universal
Connection voltage	V	400	400
Maximum flow temperature	°C	60	60
Heat output/COP A2W35 EN 14511	1. Comp.	~ 6,8 kW / 3,9	~ 9,4 kW / 4,0
Width x Height x Depth	mm	990 x 1565 x 780	990 x 1565 x 780

Integrated thermal energy meter

In this series, the thermal energy meter is integrated into the devices. The quantities of thermal energy generated by the heat pump for heating and domestic hot water preparation are measured by integrated sensors and shown on the display of the heat pump manager. The individual seasonal performance factor of the heat pump can be calculated from the energy consumption. The correct hydraulic connection of the heat pump is essential for achieving optimum seasonal performance factors. Optimised integration diagrams are available at www.dimplex.de/hydraulic-integrations.

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