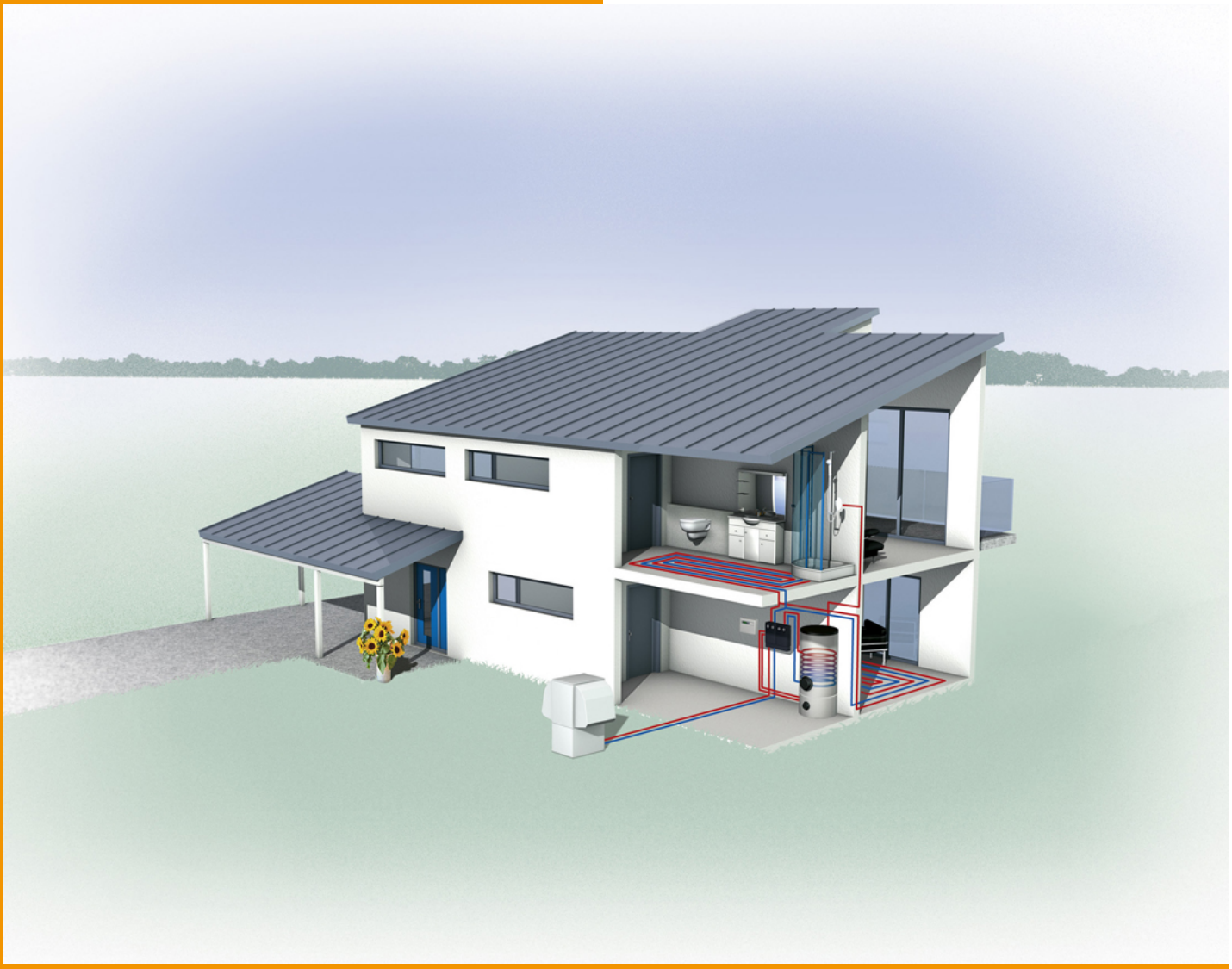

# Medium-temperature air-to-water heat pump

## Heat from the outside air

### Heat source installation costs

A heat pump enables the environmentally friendly and economical heating of buildings, even when higher flow temperatures are required. The installation work involved is largely dependent on the heat source to be used. The installation of ground and ground water heat sources is significantly more complex. This requires ground drilling on the property, which can usually only be carried out by specialist companies. In addition to the costs incurred by such work, the impact on the building's surroundings (e.g. garden) also needs to be taken into account.

### The easy-to-use heat source

Air-to-water heat pumps use the outside air as a heat source, and should therefore ideally be installed out in the open. This enables direct use of environmental heat, and the installation work required is significantly reduced. The medium-temperature heat pumps with maximum flow temperatures of 65 °C also guarantee comfortable warmth even at bone-chilling external temperatures. The ideal solution for heating living spaces in existing buildings using radiators. The efficiency of the system can be increased even further by using fan convectors and thus reducing the system temperatures.

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LA 8PMS for free-standing installation

**Air-to-water heat pumps for outdoor installation with higher flow temperatures**

- ✔ Natural refrigerant R 290 (propane) for higher heat outputs at lower external temperatures
- ✔ Can be used in building renovations thanks to high flow temperatures of up to 65 °C
- ✔ Hot water temperatures of up to 60 °C without electrical reheating
- ✔ Especially quiet thanks to the use of a low-noise axial-flow fan in combination with sound-absorbing deflector hoods

**Intelligent regulation with the heat pump manager**

The heat pump manager monitors the operation of the heat pump and offers all the functions of a modern heating regulation system, such as a remote diagnostics system (accessory), time programs and plain text display. The heat requirements for heating, hot water or swimming pool supply are also managed on an optimised energy basis. Dynamic menus hide any settings not required, making operation safe and easy. When a heat pump is combined with other heat generators, the heat pump manager regulates the entire system.

**Device information for medium-temperature air-to-water heat pumps**

| Order reference | | LA 8PMS | LA 14PMS |
|---|---|---|---|
| Design | | universal | universal |
| Connection voltage | V | 230 | 230 |
| Maximum flow temperature | °C | 65 | 65 |
| Heat output/coefficient of performance according to EN 14511 at A-7/W35 | 1. Comp. | 4,1 kW / 2,0 | 4,0 kW / 2,0 |
| Heat output/coefficient of performance according to EN 14511 at A-2/W35 | 1. Comp. | 6,0 kW / 3,1 | 5,8 kW / 2,9 |
| Heat output/coefficient of performance according to EN 14511 at A7/W35 | 1. Comp. | 8,0 kW / 3,8 | 7,4 kW / 3,7 |
| Heat output/coefficient of performance according to EN 14511 at A-7/W35 | 2. Comp. | -- | 8,0 kW / 2,5 |
| Heat output/coefficient of performance according to EN 14511 at A-2/W35 | 2. Comp. | -- | 10,2 kW / 3,1 |
| Heat output/coefficient of performance according to EN 14511 at A7/W35 | 2. Comp. | -- | 14,4 kW / 3,6 |
| Width x Height x Depth | mm | 1362 x 1361 x 852 | 852 x 1571 x 1552 |

**Hydro tower - installing heat pumps even faster**

The hydro tower from Dimplex is the solution that provides optimum hydraulic integration, minimal space requirements in the building and quick assembly. Once it has been installed in the building, it simply needs to be connected to the air-to-water heat pump installed outside, and the building can then be heated. The built-in, energy-saving hydraulics reduce energy costs and increase operating safety.

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