



## Medium-Temperature Air-to-Water Heat Pumps

### 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 geothermal heat and the installation work required is significantly reduced. The connection to the building's heating system requires the laying of two heat-insulated pipes for flow and return flow, as well as the electrical connection lines in the ground. This means that very little space is required inside the building for a hot water cylinder and buffer tank connected in series.



### 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
- ✓ Heating flow temperatures of up to 65°C even at an outside temperature of -20 °C
- ✓ Hot water temperatures of up to 60 °C without electrical reheating
- ✓ Especially quiet due to the use of a low-noise axial-flow fan in combination with sound-absorbing deflector hoods

### The heat pump manager has everything under control

The heat pump manager monitors the heat pump operation and provides all of the functions of a modern heating regulation system, such as a remote diagnostics system and a timing programme for heating and hot water supply. The heat requirements for heating, hot water or swimming pool supply are also managed on an optimised energy basis. Where a heat pump is combined with other heat generators (boiler, solar) the heat pump manager regulates the entire system.

LA 17PS for free-standing installation

### Device Information for Medium-Temperature Air-to-Water Heat Pumps

| Order reference   |          | LA 17PS       | LA 22PS       | LA 26PS       |
|---|----------|---------------|---------------|---------------|
| Design  |          | universal     | universal     | universal     |
| Connection voltage  | V        | 400           | 400           | 400           |
| Maximum flow temperature  | °C       | 65            | 65            | 65            |
| Heat output / coefficient of performance in accordance with EN 14511 at A2/W35: | 1. Comp. | 8,3 kW / 3,0  | 10,5 kW / 3,0 | 11,5 kW / 3,0 |
|   | 2. Comp. | 14,3 kW / 3,0 | 16,5 kW / 3,0 | 18,6 kW / 3,0 |
| Width   | mm       | 1550          | 1680          | 1680          |
| Height  | mm       | 1570          | 1710          | 1710          |
| Depth   | mm       | 850           | 1000          | 1000          |

### Hydraulic tower - installing heat pumps even faster

The hydraulic tower from Dimplex is the solution that provides optimal hydraulic integration, minimal space requirements in the building and quick assembly. Apart from the important components for hydraulic integration, a heat pump manager is also integrated into the cabinet. 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.



INNOVATIVE HEATING AND COOLING

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