



## High-efficiency air-to-water heat pump

### Efficient heating with the outside air as a heating source

#### 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.

#### Air-to-water heat pump for low-energy houses

The new LA 6TU high-efficiency air-to-water heat pump stands out thanks to its high COPs at low heat outputs. This makes it perfect for low-energy houses.

High performance factors are achieved with an electronically controlled expansion valve and a slow-running "owl's wing" EC fan - and high performance factors translate into low operating costs. The special casing design makes installation close to walls possible, thus saving space in the garden. The heat pump can be combined with a hydro tower with integrated domestic hot water cylinder for fast and easy mounting.



### High-efficiency air-to-water heat pump

- ✓ Extremely quiet thanks to the use of a naturally quiet "owl's wing" EC fan
- ✓ Electronic expansion valve for high seasonal performance factors and low operating costs
- ✓ Minimal space requirement thanks to installation close to walls and compact dimensions - minimum clearance from the wall on the air intake side 50 cm
- ✓ WPM EconPlus heat pump manager with integrated thermal energy metering and flow rate switch for high operational safety
- ✓ Can be combined with the hydro tower for fast and easy mounting with minimal space requirements

### WPM EconPlus heat pump manager

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.

LA 6TU for outdoor installation

### Device information for high-efficiency air-to-water heat pump LA 6TU

Order reference		LA 6TU
Design		universal
Connection voltage	V	400
Maximum flow temperature	°C	60
Heat output/COP A2W35 EN 14511	1. Comp.	~ 5,1 kW / 3,8
Width x Height x Depth	mm	1350 x 950 x 450

### 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](http://www.dimplex.de/hydraulic-integrations).



INNOVATIVE HEATING AND COOLING

Glen Dimplex Deutschland GmbH  
**Dimplex Division**  
 Am Goldenen Feld 18 - 95326 Kulmbach  
 export@dimplex.de - [www.dimplex.de/en](http://www.dimplex.de/en)

Glen Dimplex Austria GmbH  
**Dimplex Division**  
 Hauptstraße 71, 5302 Henndorf am Wallersee, Austria Subject to change and errors!  
 Phone: +43 6214 20330  
 Fax: +43 6214 203304  
 info@dimplex.at - [www.dimplex.at](http://www.dimplex.at)