

Flexible  
combinations.  
Efficient  
integration.


Environ-  
mentally-  
friendly  
heating  
for all.

Intelligent  
regulation.  
Optimal  
operation.

Maximum  
efficiency  
on a large  
scale.

# NEWS 2011

Setting new standards in efficiency and reliability.  
Dimplex makes the heat pump even more attractive.



**Flexible combinations.  
Efficient integration.**



**Environmentally-friendly heating for all.**



**Intelligent regulation.  
Optimal operation.**



**Maximum efficiency on a large scale.**

If something is efficient, it functions reliably. And reliability in the heat pump system essentially depends on the precise configuration and proper installation of correctly dimensioned equipment. This is why Dimplex has been paying special attention to further simplifying and optimising the installation of our proven heat pump technology in its innovations for 2011. These include freely accessible online planners and configuration manuals on the Internet and providing system components – for example with the Hydrotower HWK 332 Econ – that make professional installation fast and easy. In this way, we can ensure efficient and

trouble-free operation of our heat pumps even under demanding climatic conditions.

Dimplex heat pumps not only protect the environment and climate compared to conventional heating systems; they also cut the costs for heating and domestic hot water preparation. To extend these cost benefits even more, Dimplex works continuously to further enhance the efficiency of its own systems. The result is a new generation of high-efficiency heat pumps for all types of heat sources: Outside air, brine and ground water.

The new high-efficiency heat pumps in the SI ..TU, WI ..TU and LI ..TU series are now quieter and operate more efficiently and clearly demonstrate our leadership in technology. Not to forget of course, the new BWP 30HS and BWP 30HSD domestic water heat pumps with new control functions and an extended range of applications. For outside air as a heat source, we also offer cost effective air-to-water heat pumps in the LA ..MAS/TAS series and the LA 8PMS and LA 14PMS single-phase, high-temperature heat pumps for modernisation projects.

The new LA 60TU and SI 130TUR+ heat pumps will enable Dimplex to meet the higher performance requirements for business and industry even better in the future. This will enable us to establish new sustainable customer groups with considerable potential for sales.

# Efficient heating with the outside air heating source



## Air-to-water heat pumps: Proven technology in a new design LA 11 - 16TAS, LA 11 - 16MAS

- For use in new buildings and for building renovations thanks to high flow temperatures, even at icy external temperatures.
- Quiet due to use of a low-noise "owl's wing" ventilator
- Proven technology for cold climate regions with optimum cost effectiveness
- LA ..MAS series specially developed for operation with 230 volts
- Can be combined with the HWK 332 hydro tower for easy installation

Order reference	LA 11MAS	LA 16MAS	LA 11TAS	LA 16TAS
Connection voltage in V	230	230	400	400
Maximum flow temperature in °C	55	55	58	58
Heat output and coefficient of performance at A2/W35* Compressor 1 in kW / -	7.9 / 3.4	11.9 / 3.1	8.6 / 3.4	11.7 / 3.2
Heat output and coefficient of performance at A7/W35* Compressor 1 in kW / -	9.5 / 3.9	14.5 / 3.7	10.1 / 4.0	14.6 / 3.7

\* Measurement according to EN 14511

## Air-to-water heat pumps for existing buildings LA 8PMS, LA 14PMS

- Air-to-water heat pumps for outdoor installation with higher flow temperatures
- Natural refrigerant for high flow temperatures all year round of up to 65 °C
- Ideal for combining with radiators
- Water temperatures of up to 60 °C without electric reheating
- Especially quiet thanks to the use of a low-noise axial-flow fan in combination with sound-absorbing deflector hoods
- LA 14PMS with two performance levels for modulating operation
- Can be combined with the HWK 332 hydro tower for fast and easy installation



Order reference	LA 8PMS	LA 14PMS
Connection voltage in V	230	230
Maximum flow temperature in °C	65	65
Heat output and coefficient of performance at A2/W35* Compressor 1 in kW / - Compressor 2 in kW / -	6.0 / 3.1	5.8 / 2.9 10.2 / 3.1
Heat output and coefficient of performance at A7/W35* Compressor 1 in kW / - Compressor 2 in kW / -	8.0 / 3.8	7.4 / 3.7 13.3 / 3.6

\* Measurement according to EN 14511



## Minimal space requirement – maximum system efficiency: Hydro Tower HWK 332

- Can be combined with heat pumps LA 11TAS, LA 11MAS and LA 8PMS and LA 14PMS
- Ready-to-use heat pump hydraulic system for the smallest of spaces
- High degree of operational safety, thanks to a 100 l buffer tank connected in series and a dual differential pressureless manifold
- 300 l hot water cylinder with 3.15 m<sup>2</sup> heat exchanger area for convenient hot water preparation
- Electronically regulated heat circulating pump with efficiency rating A
- To reduce runtimes, the auxiliary pump in the generator circuit is only operated when the compressor is running
- Hydraulic connection of the heat pump possible from the right, left or behind
- Pipe heater (2/4/6 kW) for supplementary heating
- A 1.5 kW flange heater is built into the hot water cylinder for thermal disinfection
- For the LA ..TU series, the HWK 332 Econ hydro tower is available with integrated heat pump manager

## Domestic hot water preparation made easy



### Hot water heat pump for the heat sources cellar, indoor and outside air: BWP 30HS/HSD

- Domestic water heat pump with LC display for domestic hot water preparation up to max. 60 °C
- Heating up to 65 °C with standard heating element (1.5 kW)
- Time-controlled legionella protection
- Real-time clock for programming individual operating times
- Integrated additional heat exchanger (1.45m<sup>2</sup>) for connection to an additional heat generator (e.g. solar installation, existing boiler)
- Solar control for combining with a thermal solar energy system
- Control prepared for the use of electricity produced from privately-owned photovoltaic systems
- Fast heating button for higher draw rates
- Lower operating limit air temperature +8 °C

Especially BWP 30HSD

- Operation with outside air up to -7 °C thanks to active defrosting when necessary



## Flexible solutions for indoor installation



### High-efficiency air-to-water heat pumps with flexible air circuit LI 9TU, LI 12TU

- Heat pump for heating purposes, for indoor installation with integrated WPM EconPlus controller.
- Thanks to a EC 3D radial fan, the air outlet can be on the left, right or above the device.
- Intake of outside air at the rear of the heat pump. No air duct is necessary for fresh air (inblown air)
- Sound-optimised thanks to low-speed EC ventilator and free-swinging compressor base plate
- Electronic expansion valve for high seasonal performance factors
- Integrated pressure sensors ensure defrosting according to need and maximum operational safety

### Air-to-water heat pump with flexible air circuit LI 15TE

- Heat pump for heating purposes, for indoor installation with integrated WPM 2006 controller
- Thanks to a 3D radial fan, air outlet can be on the left, right or above the device
- Intake of outside air is at the rear of the heat pump. No air duct is necessary for fresh air (inblown air)
- Easy heat pump installation, as the hydraulic connection of the heat pump can be to the left or to the right
- Sound-optimised thanks to low-speed 3D radial ventilator and free-swinging compressor base plate

Order reference	LI 9TU	LI 12TU	LI 15TE
Connection voltage in V	400	400	400
Maximum flow temperature in °C	60	60	58
Heat output and coefficient of performance at A2/W35* Compressor 1 in kW / -	~6.8 / ~3.9	~9,4 / ~4,0	12.0 / 3.2
Heat output and coefficient of performance at A7/W35* Compressor 1 in kW / -	~8.4 / ~4.8	~11.5 / ~4.7	14.4 / 3.6

\* Measurement according to EN 14511

# Peak heat output performance

## High-efficiency brine-to-water heat pumps with solid-borne sound insulation SI 8 - 22TU

- Heat pump for heating purposes, for indoor installation with integrated WPM EconPlus controller
- Compact dimensions for space-saving installation
- Integrated solid-borne sound insulation for low noise emission thanks to encapsulated compressor housing and free-swinging compressor base plate for direct connection to the heating system
- Sensor monitoring of refrigerating circuit for high operating safety and integrated thermal energy meter
- Electronic expansion valve for high seasonal performance factors and low operating costs
- Maximum flow temperatures of 62 °C for high hot water temperatures (with SI 8, 11, 14 TU)



## Integrated domestic hot water preparation: HPK TEW compact brine-to-water heat pumps

- Compact brine-to-water heat pump with 200 l built-under hot water cylinder
- Easy to transport as the hot water cylinder is delivered separately
- Integrated thermal energy metering with separate evaluation for heating and domestic hot water preparation
- Especially quiet thanks to integrated solid-borne sound insulation
- Max. flow temperature 58 °C
- Integrated pipe heater can be used for reheating domestic hot water up to 60 °C and as a stand-by for heating operation
- If desired, the removable control panel can be mounted conveniently outside the heat pump
- Room temperature regulation using a reference room (recommended for heating systems without a buffer tank)



Order reference	SI 8TU	SI 11TU	SI 14TU	SI 22TU
Connection voltage in V	400	400	400	400
Maximum flow temperature in °C	62	62	62	58
Heat output and coefficient of performance at B0/W35* Compressor 1 in kW / -	~8.1 / ~4.8	~10.7 / ~4.9	~13.8 / ~5.0	22.9 / 4.4

\* Measurement according to EN 14511

Order reference	HPK 7TEW	HPK 9TEW	HPK 11TEW
Connection voltage in V	400	400	400
Maximum flow temperature in °C	58	58	58
Heat output and coefficient of performance at B0/W35* Compressor 1 in kW / -	6.8 / 4.1	9.0 / 4.2	11.7 / 4.2

\* Measurement according to EN 14511

## High-efficiency water-to-water heat pumps with stainless steel coil heat exchanger WI 14TU

- Heat pump for heating purposes, for indoor installation with integrated WPM EconPlus controller
- Compact dimensions for space-saving installation
- Integrated solid-borne sound insulation for low noise emission thanks to encapsulated compressor housing and free-swinging compressor base plate for direct connection to the heating system
- Sensor monitoring of refrigerating circuit for high operating safety and integrated thermal energy meter
- Electronic expansion valve for high seasonal performance factors and low operating costs
- Stainless steel coil heat exchangers for direct use of ground water as a heat source



Order reference	WI 14TU
Connection voltage in V	400
Maximum flow temperature in °C	62
Heat output and coefficient of performance at W10/W35* Compressor 1 in kW / -	~13,7 / ~6,0

\* Measurement according to EN 14511



## Room temperature controller Smart RTC

- Room temperature controller for heat pumps with one heating circuit
- The desired room temperature can be set conveniently using the controller in the living room
- The Smart-RTC continuously transfers the current room temperature to the heat pump manager
- Fast heating of the building – where heating has priority over the domestic hot water preparation
- The heat pump is operated with the lowest possible flow temperature, which results in more efficient operation and high seasonal performance factors

# High-efficiency heat pumps from 6 to 130 kW

## The solution for a low-energy house: High-efficiency air-to-water heat pump LA 6TU

- High-efficiency heat pump for a low-energy house
- Naturally quiet thanks to use of an EC "owl's wing" ventilator
- High seasonal performance factors thanks to electronic expansion valve
- Can be combined with the hydro tower for fast and easy installation



Order reference	LA 6TU
Connection voltage in V	400
Maximum flow temperature in °C	60
Heat output and coefficient of performance at A2/W35* Compressor 1 in kW / -	- 5.1 / ~ 3.8

\* Measurement according to EN 14511

## Brine-to-water heat pumps for heating and cooling: SI 130TUR+ with waste heat recovery

- Reversible brine-to-water heat pump for heating and cooling with additional heat exchanger for waste heat recovery
- High operational safety thanks to sensor monitoring of refrigerating circuit and electronic expansion valve
- External four-way valve for optimised heating and cooling operation
- Can be combined with passive cooling
- WI 140TUR+ as a product version for borehole heat exchangers operated with water

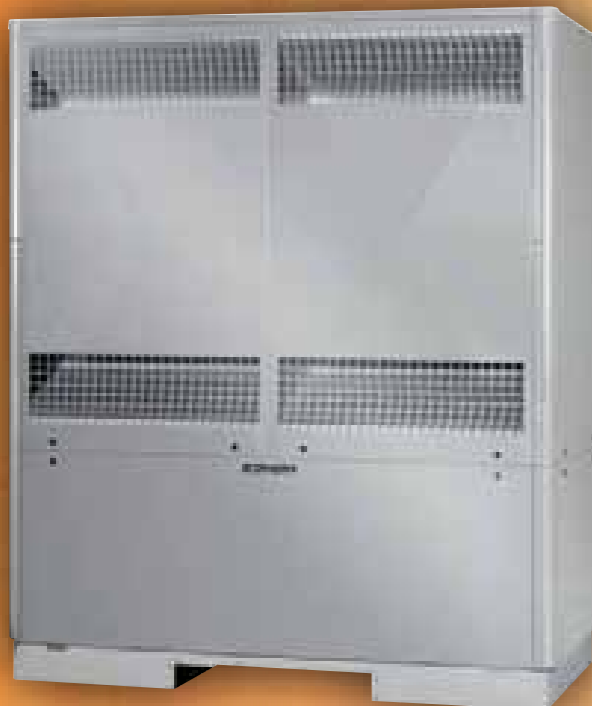


Order reference	SI 130TUR+
Connection voltage in V	400
Maximum flow temperature in °C	58
Heat output and coefficient of performance at B0/W35* Compressor 1 in kW / - Compressor 2 in kW / -	57.6 / 4.4 108.5 / 4.2
Heat output and coefficient of performance at B20/W9* Compressor 2 in kW / -	129 / 5.6

\* Measurement according to EN 14511

## The innovation for high heat outputs: LA 60TU air-to-water heat pump

- Two performance levels for high coefficients of performance in both full-load and partial-load operation
- Quiet operation thanks to slow-running EC-3D radial fan and thoroughly sound-proofed compressor housing
- High operational safety thanks to sensor monitoring of refrigerating circuit and electronic expansion valve
- WPM EconPlus with integrated thermal energy metering for heating, domestic hot water and swimming pool water preparation
- Max flow temperature 65 °C. When the external temperature is -10 °C, 60 °C can still be achieved



Order reference	LA 60TU
Connection voltage in V	400
Maximum flow temperature in °C	65
Heat output and coefficient of performance at A2/W35* Compressor 1 in kW / - Compressor 2 in kW / -	26.4 / 3.7 50.0 / 3.6
Heat output and coefficient of performance at A7/W35* Compressor 1 in kW / - Compressor 2 in kW / -	31.9 / 4.3 60.1 / 4.1

\* Measurement according to EN 14511

## Water as heat source: Water-to-water heat pumps

- Low noise emissions thanks to integrated solid-borne sound insulation
- Two performance levels for high coefficients of performance in both full-load and partial-load operation
- Electronic expansion valve
- Thermal energy meter
- Can be used for
  - Borehole heat exchangers operated with water
  - Waste heat recovery from water in industry and business
  - Ground water, provided the water quality is suitable for copper-soldered heat exchangers

Order reference	WI 50TU	WI 100TU
Connection voltage in V	400	400
Maximum flow temperature in °C	58	58
Heat output and coefficient of performance at W10/W35* Compressor 1 in kW / - Compressor 2 in kW / -	25.1 / 5.9 47.3 / 5.7	51.7 / 5.8 95.5 / 5.3

\* Measurement according to EN 14511



# DIMPLEX IS THE INTELLIGENT SOLUTION

As the largest manufacturer of electrically-operated heating systems worldwide, the Glen Dimplex Group has been developing and producing innovative heat pump systems in its Kulmbach plant for over 30 years. You can count on the experience of Dimplex. Dimplex heat pump technology is highly sophisticated and will pay for itself in just a few years. Thousands of installed systems are daily proof of this. Let us convince you as well.

## Quality in trade

Dimplex works closely together with specialists from the electrical, plumbing and heating trades. Your heat consumption is calculated in close cooperation with our planning offices to ensure optimal device selection and dimensioning. Your specialised Dimplex partner offers competent advice and a comprehensive service in addition to device installation.

## We are there when you need us

When you decide in favour of Dimplex devices, you can be sure that we will continue to provide you with help and advice after your purchase. Our qualified after-sales service partners offer speedy support, right when you need it most.

**Even more efficient:** Combine your heat pump with a **ventilation system** with heat recovery or with a **solar energy system** from Dimplex.

For further information, visit  
[www.dimplex.de](http://www.dimplex.de) and [www.heizung-waermepumpe.de](http://www.heizung-waermepumpe.de)  
The Dimplex heat pumps DVD is also available there,  
which contains further information.



**Dimplex**  
INNOVATIVE HEATING AND COOLING

**Glen Dimplex Deutschland GmbH**  
Dimplex Division  
Am Goldenen Feld 18  
95326 Kulmbach, Germany  
Phone: +49 9221 709-201  
Fax: +49 9221 709-233  
[export@dimplex.de](mailto:export@dimplex.de)  
[www.dimplex.de](http://www.dimplex.de)