Dimplex – the smart system provider

Innovations for 2013

Smart Heat Pump

Smart Air

Smart Service

Smart Future
With the solutions from Dimplex, you and your customers can be optimally prepared for a smart future complete with intelligent power supply system (Smart Grid). To this end, we have developed our popular HeatPump-App for Android smartphones and tablets in addition to the iPhone and iPad and are delighted to present the new version with extended functions.

Some Dimplex ventilation units in conjunction with a Dimplex heat pump can now also be controlled with an App. This means that a convenient remote control solution is also available for conventional terminal equipment with iOS and Android for both the heat pump and ventilation.

Our product innovations for 2013 also include the first products to already come with the “SG-Ready” logo from Bundesverband Wärmepumpe e.V., meaning that they can use future load-variable tariffs.

The Dimplex Splydro represents a particularly smart innovation in the field of heat pumps this year. The name Splydro is made up of two components - the split-design air-to-water heat pump and the developed version of the tried-and-tested Dimplex Hydro-Tower. In addition to the minimal installation and space requirements, Dimplex Splydro also impresses with its low purchase price and high comfort levels.

As a smart system provider, Dimplex offers optimally coordinated and futureproof components, which significantly increase your independence through the use of renewable energy.

Smart technology now forms an integral part of our everyday life. Through the intelligent network of heat pumps and ventilation units and their integration in a home network or modern building management system, this technology often not only works more efficiently and economically, but can also be operated comfortably from anywhere.
Splydro: Air-to-water heat pump in split design combined with the Hydro-Tower **LAW 9IMR, LAW 14ITR**

- Combination of the developed Hydro-Tower and air-to-water heat pump in split design
- Quick and easy installation through pre-installed components for heating and domestic hot water preparation
- High operational stability through electronically controlled pump and overflow valve in the heating circuit
- Maximum comfort through integrated 300 l domestic hot water cylinder
- Integrated heat exchanger with a surface area of 3.2m² for high efficiency in domestic hot water preparation and short reheating times
- Heating of individual rooms (e.g. bathroom) via 100 l thermo comfort cylinder
- Heat pump can also be optionally used for cooling in summer
- Heat pump manager WPM EconPlus for controlling bivalent-alternative heating systems (e.g. oil or gas boiler)

### Order reference

<table>
<thead>
<tr>
<th>Connection voltage</th>
<th>V</th>
<th>LAW 9IMR</th>
<th>LAW 14ITR</th>
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<tr>
<td>Maximum flow temperature (heating)</td>
<td>°C</td>
<td>55</td>
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<tr>
<td>Heat output/coeficient of performance at A2/W35⁰</td>
<td>kW/-</td>
<td>6.2 / 3.2</td>
<td>11.0 / 3.2</td>
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<tr>
<td>Heat output/coeficient of performance at A7/W35⁰</td>
<td>kW/-</td>
<td>8.9 / 4.3</td>
<td>14.7 / 4.3</td>
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<tr>
<td>Cooling capacity/coeficient of performance at A27/W7⁰</td>
<td>kW/-</td>
<td>6.5 / 3.3</td>
<td>12.9 / 3.0</td>
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</table>

* according to EN 14511

High-efficiency brine-to-water heat pump with integrated domestic hot water cylinder **SIW 6-11TU/MU**

- High-efficiency brine-to-water heat pump with integrated stainless steel domestic hot water cylinder
- Maximum flow temperatures of 62 °C for high domestic hot water temperatures
- High coefficients of performance and low operating costs through COP booster and electronic expansion valve
- Free-swinging compressor base plate for low noise emissions
- Heat pump manager WPM EconPlus
- Maintenance-free stainless steel domestic hot water cylinder (volume 170 litres)
- Integrated pipe heater (2/4/6 kW) to support the heating operation
- Regulated, highly efficient integrated circulating pumps for brine circuit and heating circuit
- Easy installation thanks to removable heat pump module

### Order reference

<table>
<thead>
<tr>
<th>Connection voltage</th>
<th>V</th>
<th>SIW 6TU</th>
<th>SIW 8TU</th>
<th>SIW 11TU</th>
<th>SIW 6MU</th>
<th>SIW 8MU</th>
<th>SIW 11MU</th>
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<tr>
<td>Maximum flow temperature (heating)</td>
<td>°C</td>
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<td>62</td>
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<tr>
<td>Heat output/coeficient of performance at B0/W35⁰</td>
<td>kW/-</td>
<td>6.1 / 4.8</td>
<td>8.1 / 5.0</td>
<td>10.9 / 5.0</td>
<td>5.7 / 4.5</td>
<td>7.6 / 4.7</td>
<td>10.3 / 4.6</td>
</tr>
</tbody>
</table>

* according to EN 14511
Reversible brine-to-water heat pumps for heating and cooling

**SI 10MER**

- Reversible heat pump for heating and cooling with integrated regulation WPM WPM EconPlus
- Maximum flow temperatures of 62 °C for high domestic hot water temperatures
- Universal design for flexible installation types – installation on top of a built-under buffer tank or a domestic hot water cylinder possible
- 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

**Order reference**

<table>
<thead>
<tr>
<th>SI 10MER</th>
<th>Connection voltage</th>
<th>V</th>
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<td>Maximum flow temperature (heating)</td>
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<tr>
<td>Heat output/coefficient of performance at B0/W15 *</td>
<td>kW/--</td>
<td>9.5 / 4.2</td>
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<tr>
<td>Cooling capacity / COP at B20/W18*</td>
<td>kW/--</td>
<td>14.5 / 7.1</td>
<td></td>
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</table>

* according to EN 14511

Highly efficient water-to-water heat pump for using the heat source ground water

**WI 18, 22TU**

- Heat pump for heating purposes, for indoor installation with integrated WPM EconPlus controller
- Universal design for flexible installation types
- Free-swinging compressor baseplate with solid-borne sound insulation for less acoustic emissions – direct connection to the heating system possible.
- High coefficients of performance and low operating costs through COP booster and electronic expansion valve
- Maximum flow temperatures of 62 °C for high domestic hot water temperatures
- Direct utilisation of the ground water heat source via stainless steel coil heat exchanger

**Order reference**

| WI 18TU | WI 22TU | Connection voltage | V
|---------|---------|--------------------|---|
|         |         | Maximum flow temperature (heating) | °C
| Heat output/coefficient of performance at W10/W35 * | kW/-- | 17.1 / 5.8 | 22.3 / 5.7 |

* according to EN 14511
SRX SmartRad convectors for heating or heating and cooling

**SRX 80-180EM for heating**
- Electronic room temperature controller
- Fan levels automatically regulated depending on heat consumption
- Maximum fan level can be preset
- Manual mode operation
- Different programming modules optionally available
- Water connection optionally on the left or right
- Economical operation thanks to EC fan motor

**SRX 70-160ECM for heating and cooling**
- Automatic regulation of three fan levels depending on heat and cooling requirements. The maximum fan level is pre-configurable.
- Automatic switch-off of convectors from flow temperatures lower than 25 in heating operation and larger than 20 in cooling operation
- Maximum permissible flow temperature 85 °C
- Heating connection optionally on the left or right
- Economical operation thanks to EC fan motor

<table>
<thead>
<tr>
<th>Order reference</th>
<th>SRX 080EM</th>
<th>SRX 120EM</th>
<th>SRX 140EM</th>
<th>SRX 180EM</th>
<th>SRX 070ECM</th>
<th>SRX 120ECM</th>
<th>SRX 160ECM</th>
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<tr>
<td>Heating</td>
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<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
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<tr>
<td>Cooling</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Heat output 45 °C / 40 °C * kW</td>
<td>0,7</td>
<td>1,1</td>
<td>1,3</td>
<td>1,8</td>
<td>0,5</td>
<td>1,2</td>
<td>1,6</td>
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<tr>
<td>Heat output 55 °C / 47 °C * kW</td>
<td>1,0</td>
<td>1,6</td>
<td>1,8</td>
<td>2,4</td>
<td>0,7</td>
<td>1,6</td>
<td>2,3</td>
</tr>
<tr>
<td>Cooling capacity 10 °C / 15 °C * kW</td>
<td>0,3</td>
<td>0,7</td>
<td>0,9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

* Medium fan level

**VS SRX** – connection set for easy connection of the convectors for heating or heating and cooling

- 2 prefabricated pipework with Tectide connections for quick connection of the fan convectors SRX to the heating circuit
- Connection set consisting of a 3-way radiator valve complete with 2 pipework
- Electronic actuator (ETS DWV) available as an accessory
Smart solutions for many applications

Fresh water station with integrated electrical instantaneous water heater for reheating – **FWS 27**

- Central drinking water preparation in continuous flow principle
- Combination with buffer tank, i.e. no drinking water storage required
- Consisting of a stainless steel plate heat exchanger (approx. 30 kW performance)
- An electronic instantaneous water heater is also integrated, which reheats the water to the desired temperature if needed
- Reduced flow temperatures, resulting in higher efficiency of the heat pump during domestic hot water preparation
- Electrical reheating from 18 - 27 kW, gliding control
- Temperature adjustable from 30 - 60 °C

Fresh water station – **FWS WT**

- Fresh water station for hygienic domestic hot water preparation in flow principle for single family homes and semi-detached houses
- An internal control monitors temperatures and volume flows and controls the speed of the integrated circulating pumps for constant tap temperatures, including with fluctuating tap quantities and different buffer temperatures
- Integrated heat-insulated stainless steel plate heat exchangers with connections for cold water and domestic hot water DN 25 or buffer flow and return DN 25
- Delivery includes EPP thermal insulation jackets for minimal heat losses and solid-borne sound insulation

Compact flow heaters for thermally heated water – **DZU 35S** – for combination with a heat pump

- Compact flow heaters for connection to a tap (basin or sink) for reheating pre-heated water
- Maximal outflow temperature on the tap of 55 °C
- Combination with the domestic hot water generation of heat pumps possible to supply individual tapping points (e.g. kitchen sink) with higher domestic hot water temperatures
- Temperature increase approx. 10 K at 4 l/min, e.g. on washbasins
- Can also be used for heating cold water taps
- Pressure-resistant version for under-table installation, hydraulically controlled, can be used as an open or closed device as required. Connection line with plug
Combination storage tank: Domestic hot water cylinder + buffer tank – **PWS 650**

- Hygienic domestic hot water preparation without hot drinking water storage
- Domestic hot water section with special heat pump single layer system and inner stainless steel Wellex® pipe 6 m² for domestic hot water preparation in flow principle
- Footprint-optimised combination storage tank 650 litres, consisting of a buffer section 230 litres and a domestic hot water section 420 litres
- Buffer tank with sleeve for immersion heaters (up to CTHK 636)
- Sensor clamping sheet on the tank wall
- Removable cylinder insulation 100 mm made from non-wovens for low heat loss
- Can be used with a heat output up to approx. 30 kW

Flow measurement for domestic hot water cylinder – **DFM 1988**

- For measuring the tapping quantity of a central domestic hot water heater in installation with increased hygiene requirements
- Sensor monitoring of the required domestic hot water exchange within 3 days
- For efficient domestic hot water preparation with a heat pump through low domestic hot water temperatures in accordance with DIN 1988-200
- Actuation of a second heat generator (e.g. electric auxiliary heating) for thermal reheating via 230 Volt signal if water replacement is not achieved
- Reheating of the drinking water cylinder via second heat generator to > 60 °C
- Connection to the cold water inlet
Reversible high-efficiency air-to-water heat pump for heating and cooling – **LA 60TUR+**

- Reversible air-to-water heat pump for heating and cooling with integrated waste heat recovery
- High flow temperatures of up to 60 °C through refrigerant R410A
- Electronically controlled fan for silent operation
- Heat pump manager WPM EconPlus with integrated thermal energy metering
- Additional heat exchanger for using waste heat in cooling operation for domestic hot water preparation
- High operational safety thanks to sensor monitoring of refrigerating circuit and electronic expansion valve
- Flow rate switch and dirt trap already integrated for safe operation
- Flow temperatures of 55 °C are achieved with outside temperatures of up to -10 °C

<table>
<thead>
<tr>
<th>Order reference</th>
<th>LA 60TUR+</th>
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<td>Connection voltage</td>
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<td>Maximum flow temperature (heating)</td>
<td>°C 60</td>
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<tr>
<td>Heat output/coefficient of performance at A2/W35*</td>
<td>kW/-- 47.6 / 3.3</td>
</tr>
<tr>
<td>Heat output/coefficient of performance at A7/W35*</td>
<td>kW/-- 55.3 / 3.7</td>
</tr>
<tr>
<td>Cooling capacity/coefficient of performance at A27/W7*</td>
<td>kW/-- 65.8 / 2.8</td>
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</tbody>
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* in accordance with EN 14511 in 2-compressor operation

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Highly-efficient high-temperature brine-to-water heat pump – **SIH 90TU**

- Highly-efficient high-temperature brine-to-water heat pump with refrigerant R134a
- Specially for high flow temperatures of up to 70 °C
- Electronic expansion valve and COP booster for efficient operation
- Low noise emissions thanks to integrated sound insulation
- Two performance levels for high COPs in both full-load and partial-load operation
- Highly efficient circulating pumps for brine circuit and heating circuit available as accessories
- Product variant WIH 90TU suitable for
  - probes operated with water
  - waste heat recovery from waste water
  - ground water, if water quality is permitted for copper-brazed heat exchangers

<table>
<thead>
<tr>
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<tbody>
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<td>Connection voltage</td>
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<td>Maximum flow temperature (heating)</td>
<td>°C 70</td>
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<tr>
<td>Heat output/coefficient of performance at B0/W35*</td>
<td>kW/-- ~87.9 / ~4.3</td>
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</table>

* in accordance with EN 14511 in 2-compressor operation
Expansion module NWPM for connecting the heat pump manager to a local network (Ethernet)

- Interface between the heat pump manager and an Ethernet network
- Actuation of the heat pump via Smartphone or PC with Internet connection* possible
- Without Internet connection, communication with the heat pump can take place via Smartphone or PC in the browser
- Reading out and changing operating parameters also possible via PC or Smartphone

Expansion module LWPM / EWPM for incorporation in a building management system

- Expansion module EWPM for connecting the heat pump manager to KNX/EIB bus systems
- Data exchange between the heat pump manager and a building management system
- Control and monitoring of the heat pump via building management system
- The WPM 2006, 2007 or WPM EconPlus heat pump managers are required for this function

Control heat pump remotely with the HeatPumpApp

Specially for smartphones and tablets, Dimplex presents convenient remote control via the HeatPumpApp.
- Worldwide access to the heat pump for rapid and convenient monitoring of the heat pump status*
- Access to the current operating data and the operating data history
- Direct change of the operating mode or heating curve possible
- Wireless remote operation for the home
- Free Demo-App “HeatPumpLite” as test version via www.dimplex.de/app or via adjacent QR Code

* additional hardware and settings in the network required!
Smart Service

Tailored services through all aspects of renewable energy:

**Dimplex maintenance contract**

As an additional new service, Dimplex also offers maintenance contracts complete with leak test. If a maintenance contract is signed, access is granted to the product history of the device at www.dimplex.de, which can be queried at any time for up-to-date information. It documents all major stages in the “life” of the product. This means from the time of commissioning to the first maintenance etc. Following online registration, the “maintenance deadline reminder” also offers the added security of knowing that the heat pump will always be operated efficiently.

**Further online services**

**Spare parts shop**
- Product range: Spare parts and expendable items
- Order around the clock
- Quick delivery
- Simple & secure payment methods
  www.dimplex.de/ersatzteile

**Maintenance contract**
- Full service in all aspects of heat pump and ventilation

**Electronic service order**
- Convenient online after-sales service request

Further information:
www.dimplex.de/dienstleistungen

**The new Dimplex training concept**

Our range of training on offer covers the topics heating, cooling and domestic hot water preparation with Dimplex heat pumps, as well as controlled apartment ventilation, and is aimed at technicians in the sanitation, heating and air-conditioning sector, the electronics sector, as well as planners and architects.

- Relevance to practice with heat pumps for all heat sources, including control technology and temperature simulation options, as well as working ventilation units

- Seminar System technology 1: Heat pump basics from function and operating modes through to the basic principles of hydraulic integration (duration: 2 days)

- Seminar System technology 2: More in-depth look at the topics hydraulic integration, handling of the controller and electrical connection

- Basic seminar for EU-certification as heat pump installer "EUCERT"

Further online services

Further information on our range of seminars is available at www.dimplex.de/aktuell/seminare
For further information, visit
www.dimplex.de and www.heizung-waermepumpe.de
The Dimplex heat pumps DVD is also available there,
which contains further information.