**Dimplex**

# Compact air-to-water heat pump with 90° air deflection

Max. flow temperature: 60 °C
Casing colour: White (similar to RAL 9003)
Brown-red design screen (RAL 3011)

Heat pump for heating purposes for indoor installation with integrated WPM Econ5Plus control. Sound-optimised through the use of slow-running EC 3D radial fan, an encapsulated compressor housing and a free-swinging compressor baseplate for solid-borne sound insulation. High coefficients of performance (COP) thanks to high-performance evaporator, electronic expansion valve and electronic control of the volume flows. Increased system efficiency possible via intelligent room temperature control (Smart RTC). Maximum operational safety via sensor monitoring of the refrigeration circuit with self-optimising defrosting. This enables the downtimes in cycle operation to be used for natural defrosting; integrated thermal energy metering (display of the calculated quantity of thermal energy for heating and domestic hot water preparation on the heat pump manager). The integrated air circuit with 90° air deflection enables installation in a corner without air ducts or wall installation with air ducts on the air outlet side. The control panel is integrated in a design screen and can also be used as wired remote control using the wall mounting set (special accessories MS PGD). Compact design with optional domestic hot water preparation and integrated components for direct connection of an unmixed heating circuit (must not be used for bivalent systems):

- Expansion vessel (24 l)
- High-efficiency heat circulating pump (note the free compression)
- Overflow valve and safety module with pressure gauge
- Buffer tank (50 l) with integrated 2 kW heating element

At an external temperature of -10 °C, the maximum flow temperature that can be achieved is 56 °C. Flow and return sensor integrated; external sensor (standard NTC-2) in the scope of supply. Dirt trap and flow rate switch built in.

## Technical data

| Dimplex Compact air-to-water heat pump with 90° air deflection (Low temperature) | |
| --- | --- |
| **Order reference** | **LIK 12TU** |
| Heat pump code | 1039 |
| Casing colour | White (similar to RAL 9003) |
| Max. flow temperature | 60 °C |
| Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation) | -22 to 35 °C |
| Heat output A-7/W35 / COP A-7/W35* | 7,1 kW / 3,3 |
| Heat output A2/W35 / COP A2/W35* | 9,4 kW / 4,2 |
| Heat output A7/W35 / COP A7/W35* | 11,5 kW / 5,0 |
| Heat output A10/W35 / COP A10/W35* | 12,00 kW / 5,3 |
| Nominal power consumption according to EN 14511 at A2/W35 | 2,35 kW |
| Nominal power consumption according to EN 14511 at A7/W35 | 2,4 kW |
| Sound power level | 50 dB (A) |
| Sound pressure level in 1 m | 43 dB (A) |
| Refrigerant / Amount of refrigerant | R410A / 4,6 kg |
| Max. heating water flow rate / Pressure drop | 2,0 m³/h / 39400 Pa |
| Heat source flow (min.) | 4100 m³/h |
| Dimensions (W x H x D)** | 960 x 1950 x 780 mm |
| Weight | 310 kg |
| Rated voltage | 3/N/PE ~400 V, 50 Hz |
| Starting current | 19 A |
| Fuse protection*** | C 10 A |
| Type of defrosting | Reverse circulation |
| Connection heating | 1 ¼ inch |

*Heat output and coefficient of performance (COP) according to EN 14511
**Please note that additional space is required for pipe connections, operation and maintenance.
***Die Absicherung ist als allpolige Trennvorrichtung auszuführen (gemeinsame Abschaltung aller Phasen)!

Page 1/3
Subject to change and errors!
E-mail: dimplex@dimplex.de
Internet: www.dimplex.de

# System accessories LIK 12TU

**Dimplex**

| Description | Order ref. | Article number | Sample item | Item | Price |
|---|---|---|---|---|---|
| **Heat pumps** | | | | | |
| Compact air-to-water heat pump with 90° air deflection | LIK 12TU | 372830 | 1 | | |
| Elasticated sound insulation underlay strips | SYL 250 | 352260 | 1 | | |
| DN 32 double-sphere rubber expansion joint | KOMP 32 | 362060 | | | |
| **Heat source accessories** | | | | | |
| Air duct hose kit for LI 9/12TU and LI 15TE outlet | LUS 9A-2 | 370120 | | | |
| Air duct hose kit for air outlet, length 4 m | LUS 9A-4 | 370130 | | | |
| 90° air duct bend* | LKB 600A | 366150 | | | |
| 90° air duct bend* | LKB 800A | 366170 | | | |
| Connection kit | VSLK 600 | 367680 | | | |
| Connection kit | VSLK 800 | 367700 | | | |
| Connection frame set air duct | ARLK 600 | 370270 | | | |
| Connection frame set air duct | ARLK 800 | 370290 | | | |
| Sealing collar 600 | DMK 600-1 | 356120 | | | |
| Sealing collar 800 | DMK 800-1 | 356140 | | | |
| Deflector hood | LUH 600 | 358620 | | | |
| Rain guard for LI | RSG 600 | 340230 | 1 | | |
| Rain guard for LI(H) | RSG 800 | 340250 | 1 | | |
| **Hydraulic accessories** | | | | | |
| Screw-in radiator 4.5 kW 1¼" for LIK 8TES | CEHK 345 | 366810 | | | |
| Manifold bar | VTB 25 | 339870 | | | |
| Manifold bar (3-fold) for modules DN 25 and DN 32 | VTB 32 | 367770 | | | |
| Domestic hot water module/unmixed heating circuit module | WWM 25 | 346600 | 1 | | |
| Mixed heating circuit module with temperature sensor | MMH 25 | 348640 | | | |
| Electronically controlled circulating pump with coupling relay | UPH 60-25 | 367870 | 1 | | |
| Electronically regulated wet running pump (0-10 V) with coupling relay | UPE 70-25 | 362790 | | | |
| Electronically regulated wet running pump (0-10 V) with coupling relay | UPE 80-25 | 362810 | | | |
| Immersion heater pipe assembly* | HDLR 450 | 337450 | | | |
| **Heating accessories** | | | | | |
| Fan convector heating with EC fan | SRX 080EM | 367500 | | | |
| Fan convector heating with EC fan | SRX 120EM | 367510 | | | |
| Fan convector heating with EC fan | SRX 140EM | 367520 | | | |
| Fan convector heating with EC fan | SRX 180EM | 367530 | | | |
| Fan convectors heating 1400 W | SRX 140M | 359100 | | | |
| **DHW preparation accessories** | | | | | |
| Domestic hot water cylinder (300l) with temperature sensor | WWSP 332 | 346610 | 1 | | |
| Flange heater for domestic hot water | FLH 60 | 338060 | | | |
| Flange heater for domestic hot water | FLHU 70 | 338070 | 1 | | |
| Flange heater for domestic hot water | FLH 90 | 366130 | | | |
| FLH 25M flange heater | FLH 25M | 349430 | | | |
| Safety valve combination | SVK 852 | 326660 | | | |
| Domestic hot water cylinder (400 l) with temperature sensor* | WWSP 442 | 372840 | | | |
| Design domestic hot water cylinder with sheet metal coverings and temperature sensor* | WWSP 442E | 353370 | | | |
| Domestic hot water cylinder (500l) with temperature sensor* | WWSP 556 | 370080 | | | |
| 500 l solar cylinder for heat pump* | WWSP 540 SOL | 361090 | | | |
| Pump unit DN 25 for direct connection of the domestic hot water cylinder | WPG 25 | 356030 | 1 | | |
| Electronically controlled circulating pump with coupling relay | UPH 60-25 | 367870 | 1 | | |
| Fresh water station FWS 27 | FWS 27 | 367310 | | | |
| FWS WT fresh water station | FWS WT | 368100 | | | |
| **Control accessories** | | | | | |
| Extension for an Ethernet network connection | NWPM | 356960 | | | |
| Extension for a KNX/EIB connection | EWPM | 356970 | | | |
| Remote control for WPM 2006/2007/EconPlus/R* | AP PGD | 356570 | | | |
| Swimming pool/remote fault indicator relay module | RBG WPM | 339700 | | | |
| Thermostat for heating and domestic hot water | KRRV 003 | 322070 | | | |
| Outside temperature sensor with casing | FG 3115 | 336620 | | | |

**Dimplex**

| Description | Order ref. | Article number | Sample item | Item | Price |
|---|---|---|---|---|---|
| Temperature sensor NTC-10 with metal sleeve | NTC-10M | 363600 | | | |
| **Solar thermal systems accessories** | | | | | |
| Heat exchanger station SST 25 for solar energy systems up to max. 10 m² | SST 25 | 348430 | | | |

\* Other specific accessories available / required

**Important information:**
The combination of the components and the quantities indicated represent a non-binding sample system, which needs to be tested and individually adapted as required. Pump dimensioning must be reviewed according to the pressure loss of the system and the minimum heating water flow rate of the heat pump.

Temperature sensor NTC-10 with metal sleeve              NTC-10M              363600

Glen Dimplex Deutschland GmbH
**Dimplex Division**
Am Goldenen Feld 18
95326 Kulmbach

Page 3/3
Subject to change and errors!
E-mail: dimplex@dimplex.de
Internet: www.dimplex.de

Internet: 27.01.2016
12201024
Phone: +49 (0)9221 709-201
Fax: +49 (0)9221 709-339