



## Data sheet LA 1118C

### Reversible air-to-water heat pump for outdoor installation.

Max. flow temperature: 60 °C

Heat pump for heating and cooling with two performance levels for increased efficiency in partial load operation for outdoor installation and wall-mounted heat pump manager WPM Touch with touch display. Sound-optimised through deflector hood and encapsulated compressor housing, EC axial fan for low natural sounding noise and free-swinging compressor base plate for solid-borne sound insulation. High coefficients of performance (COP) thanks to high-performance evaporator, COP booster, electronic expansion valve, EC fan for adjusting the air volume flow and self-optimising output control. 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). Quick and easy installation via installation close to walls with a minimal distance from the wall of 0.5m on the intake side and a casing concept optimised for outdoor installation. Universal design with flexible expansion options for:

- Bivalent or bivalent-renewable operating mode
- Distribution systems with unmixed and mixed heating circuits
- Use of load-variable tariffs (SG Ready)
- Side parts and cover anthracite grey textured (similar to RAL 7016), front panels grey aluminium textured (similar to RAL 9007).

At an external temperature of -10 °C, the maximum flow temperature that can be achieved is 56 °C. Silent cooling via panel heating/cooling systems requires the use of the room temperature controller with humidity sensor (RTM Econ) and



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a mixed heating circuit to regulate the flow temperature on the basis of the air temperature and humidity of a reference room. Dirt trap and sensor flow rate measurement integrated to safeguard the minimum heating water flow rate. Flow and return sensor integrated; external sensor (standard NTC-2) in the scope of supply. The electrical connection between the control to be mounted in the building and the outdoor unit takes place via a shielded 2-wire data cable (e.g. LiYY; cross-section 0.6 mm<sup>2</sup>) not included in the scope of supply.



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## Technical data

### Dimplex Reversible air-to-water heat pump for outdoor installation. (Low temperature)

|                                                                                                               |                         |
|---------------------------------------------------------------------------------------------------------------|-------------------------|
| Heat pump code                                                                                                | 5013                    |
| Max. flow temperature                                                                                         | 60 Grad                 |
| Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation) | -22 Grad / 35 Grad      |
| Heat output A-7/W35 / COP A-7/W35 *                                                                           | 5,6 kW / 3,2            |
| Heat output max. A-7/W35 / COP A-7/W35 *                                                                      | 10,6 kW / 3,2           |
| Heat output A2/W35 / COP A2/W35 *                                                                             | 7,3 kW / 4,2            |
| Heat output max. A2/W35 / COP A2/W35 *                                                                        | 12,3 kW / 3,8           |
| Heat output A7/W35 / COP A7/W35 *                                                                             | 8,4 kW / 4,8            |
| COP A-7/W35 *                                                                                                 | 3,2                     |
| Heat output A10/W35 / COP A10/W35 *                                                                           | 8,8 kW / 5,5            |
| Nominal power consumption according to EN 14511 at A2/W35                                                     | 3,92 kW                 |
| Nominal power consumption A7/W35                                                                              | 4,44 kW                 |
| Sound power level                                                                                             | 58 dB(A)                |
| Sound pressure level in 10 m                                                                                  | 30 dB(A)                |
| Refrigerant / Amount of refrigerant                                                                           | R410A / 5,9 kg          |
| Max. heating water flow rate / Pressure drop                                                                  | 1,5 m3 pro h / 10000 Pa |
| Heat source flow (min.)                                                                                       | 3200 m3 pro h           |
| Width x Height x Depth **                                                                                     | 910 x 1650 x 750 mm     |
| Weight                                                                                                        | 295 kg                  |
| Rated voltage                                                                                                 | 3/N/PE ~400 V, 50 Hz    |
| Starting current                                                                                              | 17 A                    |
| Fuse protection HP with separate infeed ***                                                                   | C 13 A                  |
| Heat pump seal of approval (valid until)                                                                      | Yes / 22.09.2024        |

\*Heating, cooling capacity and coefficients of performance (COP/EER) according to EN 14511

\*\*Please note that additional space is required for pipe connections, operation and maintenance.

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| Description                                     | Order ref. | Article number | Sample item | Item |
|-------------------------------------------------|------------|----------------|-------------|------|
| <b>Heat pumps</b>                               |            |                |             |      |
| Air-to-water heat pump connection kit           | VS 32-220  | 372950         | 1           |      |
| <b>Hydraulic accessories</b>                    |            |                |             |      |
| Connection hose 1¼" (32 x 5.5 mm)               | AS 976-1   | 330530         | 0           |      |
| Free-standing buffer tank 200 l                 | PSW 200    | 339830         | 1           |      |
| Transport aid for Hydro-Tower / LAW indoor unit | TH 270     | 370430         | 0           |      |
| Immersion heater 4.5 kW; ~230 V                 | CTHK 630   | 363610         | 0           |      |
| Immersion heater 2.0 kW; ~230 V                 | CTHK 631   | 336180         | 0           |      |
| Immersion heater 2.9 kW; ~400 V                 | CTHK 632   | 335910         | 0           |      |
| Immersion heater 4.5 kW; ~400 V                 | CTHK 633   | 322140         | 0           |      |
| Immersion heater 6.0 kW; ~400 V                 | CTHK 634   | 322150         | 0           |      |
| Universal buffer tank (500 l)                   | PSW 500    | 339210         | 0           |      |
| Dual differential pressureless manifold         | DDV 25     | 358390         | 1           |      |



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| Description                                                                               | Order ref.  | Article number | Sample item | Item |
|-------------------------------------------------------------------------------------------|-------------|----------------|-------------|------|
| High-efficiency circulating pump DN 25 with coupling relay                                | UP 75-25PK  | 376740         | 1           |      |
| Manifold bar DN 25                                                                        | VTB 25-2    | 376360         | 0           |      |
| Manifold bar DN 32                                                                        | VTB 25-3    | 376370         | 0           |      |
| Domestic hot water module/unmixed heating circuit module                                  | WWM 25      | 346600         | 0           |      |
| Mixed heating circuit module with temperature sensor                                      | MMH 25      | 348640         | 1           |      |
| El. cont. circulating pump: Control type $\Delta p$ -c, fixed speed; PWM control optional | UPE 80-25PK | 380160         | 1           |      |
| Electronically controlled wet-running pump, self-regulating                               | UPE 100-25K | 374720         | 0           |      |
| Mixer module for bivalent systems                                                         | MMB 25      | 348880         | 0           |      |
| 3-way ball valve DN 25                                                                    | DWK 25      | 364680         | 0           |      |
| DN 25 double-sphere rubber expansion joint                                                | KOMP 25     | 362050         | 0           |      |
| Dual differential pressureless manifold                                                   | DDV 32      | 348450         | 0           |      |
| High-efficiency circulating pump DN 32 with coupling relay                                | UP 75-32PK  | 376750         | 0           |      |
| High-efficiency circulating pump DN 32 with coupling relay                                | UPH 90-32   | 370420         | 0           |      |
| Manifold bar DN 32                                                                        | VTB 32-2    | 374920         | 0           |      |
| Manifold bar DN 32                                                                        | VTB 32-3    | 374930         | 0           |      |
| Mixed heating circuit module                                                              | MMH 32      | 367790         | 0           |      |
| Domestic hot water module/unmixed heating circuit module                                  | WWM 32      | 367800         | 0           |      |
| El. cont. circulating pump: Control type $\Delta p$ -c, fixed speed; PWM control optional | UPE 80-32PK | 380170         | 0           |      |
| Electronically controlled wet-running pump, self-regulating                               | UPE 100-32K | 374730         | 0           |      |
| Electronically controlled wet-running pump, self-regulating                               | UPE 120-32K | 374740         | 0           |      |



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| Mixer module for bivalent systems                          | MMB 32        | 367780         | 0           |      |
| DN 32 double-sphere rubber expansion joint                 | KOMP 32       | 362060         | 0           |      |
| Ready-for-use DN 32 stainless steel Wellflex pipe          | VSE 32-50     | 362520         | 0           |      |
| Ready-for-use DN 32 stainless steel Wellflex pipe          | VSE 32-100    | 362530         | 0           |      |
| Ready-for-use DN 32 stainless steel Wellflex pipe          | VSE 32-150    | 362540         | 0           |      |
| Ready-for-use DN 32 stainless steel Wellflex pipe          | VSE 32-200    | 362550         | 0           |      |
| Ready-for-use DN 32 stainless steel Wellflex pipe          | VSE 32-300    | 362560         | 0           |      |
| <b>Heating accessories</b>                                 |               |                |             |      |
| Heat pump heater heating/passive cooling, depth 21.5 cm    | WPHK 2150140  | 381260         | 0           |      |
| Heat pump heater heating/passive cooling, depth 16.5 cm    | WPHK 1650100  | 381220         | 0           |      |
| Heat pump heater heating/passive cooling, depth 21.5 cm    | WPHK 2150180  | 381270         | 0           |      |
| Heat pump heater heating/passive cooling, depth 21.5 cm    | WPHK 2150100  | 381250         | 0           |      |
| Heat pump heater vertical                                  | WPHKV 1220053 | 381280         | 0           |      |
| Heat pump heater heating/passive cooling, depth 16.5 cm    | WPHK 1650140  | 381230         | 0           |      |
| Heat pump heater heating/passive cooling, depth 16.5 cm    | WPHK 1650180  | 381240         | 0           |      |
| Heat pump heater heating/passive cooling, depth 16.5 cm    | WPHK 165080   | 381210         | 0           |      |
| <b>DHW preparation accessories</b>                         |               |                |             |      |
| Domestic hot water cylinder (300l) with temperature sensor | WWSP 335      | 376760         | 1           |      |
| Flange heater for domestic hot water                       | FLH 60        | 338060         | 0           |      |
| Flange heater for domestic hot water                       | FLHU 70       | 338070         | 0           |      |
| FLH 25M flange heater                                      | FLH 25M       | 349430         | 0           |      |



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| Description                                                              | Order ref. | Article number | Sample item | Item |
|--------------------------------------------------------------------------|------------|----------------|-------------|------|
| Safety valve combination                                                 | SVK 852    | 326660         | 0           |      |
| Domestic hot water cylinder (400 l) with temperature sensor              | WWSP 442   | 372840         | 0           |      |
| Domestic hot water cylinder (500l) with temperature sensor               | WWSP 556   | 370080         | 0           |      |
| Hydro Tower without regulation                                           | HWK 332    | 362360         | 0           |      |
| Combination tank heating and domestic hot water preparation              | PWS 332    | 348620         | 0           |      |
| 3-way reversing valve DN 25                                              | DWV 25     | 374770         | 0           |      |
| 3-way reversing valve DN 32                                              | DWV 32     | 374780         | 1           |      |
| Actuator for 3-way reversing valves DWV 25 - 50                          | EMA DWV    | 374760         | 1           |      |
| Pump unit DN 32 for direct connection of the domestic hot water cylinder | WPG 32     | 356040         | 0           |      |



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| Pump unit DN 25 for direct connection of the domestic hot water cylinder | WPG 25       | 356030         | 0           |      |
| High-efficiency circulating pump DN 25 with coupling relay               | UPH 90-25    | 370410         | 0           |      |
| <b>Control accessories</b>                                               |              |                |             |      |
| Extension for an Ethernet network connection                             | NWPM Touch   | 378800         | 1           |      |
| Expansion module WPM for a KNX/EIB connection                            | KNX WPM      | 376350         | 0           |      |
| Extension for a Modbus RTU connection                                    | LWPM 410     | 339410         | 0           |      |
| Outside temperature sensor with casing                                   | FG 3115      | 336620         | 0           |      |
| Temperature sensor NTC-10 with metal sleeve                              | NTC-10M      | 363600         | 0           |      |
| <b>Solar thermal systems accessories</b>                                 |              |                |             |      |
| 400l solar cylinder for heat pump                                        | WWSP 432 SOL | 361080         | 0           |      |
| 500 l solar cylinder for heat pump                                       | WWSP 540 SOL | 361090         | 0           |      |

\* 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.



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