

## Air-to-water heat pump with two performance levels

### Order reference: LA 40AS

Max. flow temperature for heating: 58 °C

Casing colour: white aluminium

Heat pump for heating purposes for outdoor installation with wall-mounted heat pump manager and two compressors for output reduction when operating at partial load. The horizontal air circuit allows installation close to walls; for free-standing installation the air outlet should face in the main wind direction. Sound-optimised through low-noise, low-speed axial-flow fan and encapsulated compressor housing; energy-efficient defrosting by reverse circulation. High coefficients of performance due to compliance with EN 14511 for larger volume flows on the heat consumption side. Universal design with optional DHW preparation and the option of flexible expansion for:

- Bivalent or bivalent-renewable operating mode
- Distribution systems with unmixed and mixed heating circuits

Integrated flow sensor and soft starter, return flow sensor and external temperature sensor included in the scope of supply.

**Electric cable EVL ... to connect the heat pump and heat pump manager, must be ordered separately.**

### Technical data LA 40AS

#### Dimplex Air-to-water heat pump with two performance levels (Low temperature)

Order reference	LA 40AS	
Casing colour	white aluminium	
Max. flow temperature for heating	58 °C	
Temperature operating limits for air	-25 °C to 35 °C	
Heat output / COP at A-7/W35*	kW/-	1 compr.: 13,80 / 3,20 2 compr.: 24,30 / 3,10
Heat output / COP at A+2/W35*	kW/-	1 compr.: 17,10 / 4,00 2 compr.: 30,40 / 3,90
Heat output / COP at A+7/W35*	kW/-	1 compr.: 20,20 / 4,70 2 compr.: 36,30 / 4,50
Heat output / COP at A+10/W35*	kW/-	1 compr.: 22,00 / 5,00 2 compr.: 38,50 / 4,80
Electrical nominal power consumption at A+2/W35	kW	7,79
Sound pressure level at a distance of 10 m (air outlet side)	dB (A)	43
Sound power level	dB (A)	70
Refrigerant R404A	kg	11,80
Flow rate (heat source)	m <sup>3</sup> /h	11000
Heating water flow rate with an int. pressure differential of	m <sup>3</sup> /h / Pa	4,00 / 1700
Dimensions (W x D x H)**	mm	1735 x 890 x 2100
Weight (incl. packing)	kg	585
Voltage regulation	V	230
Connection voltage	3/N/PE ~400 V, 50 Hz	
Starting current with soft starter	A	30
Fuse protection	A	25
Type of defrosting	Reverse cycle	
Connection heating	1 1/2"	

\* Heat output and COP acc. to EN 255 (EN 14511) at A2/W35 (A2 = air inlet temp. +2 °C, W35 = heating water outlet temp. +35 °C)

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

Description	Order ref.	Article number	Sample item	Item	Price
<b>Heat pumps</b>					
Air-to-water heat pump with two performance levels	LA 40AS	356000	1		
10m control line	EVL 996-1	321990			
20m control line	EVL 997-1	322000	1		
30m control line	EVL 998-1	322010			
<b>Hydraulic accessories</b>					
Universal buffer tank (500 l)	PSW 500	339210	1		
Finned tube heat exchanger RWT 500	RWT 500	339840			
Immersion heater CTHK 631	CTHK 631	336180			
Immersion heater CTHK 632	CTHK 632	335910			
Immersion heater CTHK 633	CTHK 633	322140			
Immersion heater CTHK 634	CTHK 634	322150	2		
Immersion heater CTHK 635	CTHK 635	322160			
Immersion heater CTHK 636	CTHK 636	322170			
Hot water module / unmixed heating circuit module*	WWM 25	346600			
Mixed heating circuit module with temperature sensor*	MMH 25	348640			
<b>Heating accessories</b>					
Fan convector for heating/cooling with integrated thermostat	HL 11C	351730			
Fan convector for heating/cooling with integrated thermostat	HL 16C	351740			
Fan convector for heating/cooling with integrated thermostat	HL 26C	351750			
Fan convector for heating/cooling with integrated thermostat	HL 36C	351760			
Fan convector for heating/cooling with external thermostat	HL 11SK	351770			
Fan convector for heating/cooling with external thermostat	HL 16SK	351780			
Fan convector for heating/cooling with external thermostat	HL 26SK	351790			
Fan convector for heating/cooling with external thermostat	HL 36SK	351800			
<b>DHW preparation accessories</b>					
Hot water cylinder (500 l) with temperature sensor	WWSP 900	339220	1		
Flange heater for domestic hot water	FLH 60	338060			
Flange heater for domestic hot water	FLHU 70	338070	1		
FLH 25M flange heater	FLH 25M	349430			
Safety valve combination	SVK 852	326660			
Solar station for hot water	SST 25	348430			
<b>Control accessories</b>					
External temperature sensor with casing	FG 3115	336620			
Swimming pool / remote fault indicator relay module	RBG WPM	339700			
Thermostat for heating and domestic hot water	KRRV 003	322070			
Remote control for the WPM 2006/2007*	AP PGD	356570			
<b>Solar thermal systems accessories</b>					
Solar collector 2 m <sup>2</sup> Al/Cu absorber, meander 4 connections	SOLK 1204 AM	356190			
Solar station	SOLPU 1	356230			
Solar station for hot water	SST 25	348430			
Expansion vessel Solar 8l	SOLEV 12	356240			
Expansion vessel Solar 18l	SOLEV 18	356250			
Heat carrier fluid	SOLHT 20	356260			
Test set	SOLH TTK	356270			
Purging and filling station	SOL FFP	356300			

\* 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.