Air-to-water heat pump with two performance levels

Order reference: LA 24AS

Max. flow temperature for heating: 58 °C
Casing colour: white aluminium

Air-to-water heat pumps for outdoor installation with external temperature controlled WPM 2006 plus heat pump manager and two compressors for output reduction when operating at partial load. Sound-optimised through the use of low-noise crescent wing axial-flow fans and deflector hoods. Energy-efficient defrosting by reverse circulation und inclined evaporator. 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 24AS

Dimplex Air-to-water heat pump with two performance levels (Low temperature)		
Order reference		**LA 24AS**
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.: 8,90 / 2,60 2 compr.: 16,10 / 2,70
Heat output / COP at A+2/W35*	kW/-	1 compr.: 10,90 / 3,00 2 compr.: 19,20 / 3,20
Heat output / COP at A+7/W35*	kW/-	1 compr.: 13,10 / 3,40 2 compr.: 24,80 / 3,60
Heat output / COP at A+10/W35*	kW/-	1 compr.: 14,10 / 3,50 2 compr.: 26,60 / 3,80
Electrical nominal power consumption at A+2/W35	kW	6,05
Sound pressure level at a distance of 10 m (air outlet side)	dB (A)	41
Sound power level	dB (A)	68
Refrigerant R404A	kg	4,20
Flow rate (heat source)	m³/h	8000
Heating water flow rate with an int. pressure differential of	m³/h / Pa	2,30 / 5900
Dimensions (W x D x H)**	mm	1680 x 1000 x 1710
Weight (incl. packing)	kg	351
Voltage regulation	V	230
Connection voltage		3/N/PE ~400 V, 50 Hz
Starting current with soft starter	A	24
Fuse protection	A	25
Type of defrosting		Reverse cycle
Connection heating		1 1/4"

* 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.

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System accessories LA 24AS

Description	Order ref.	Article number	Sample item	Item	Price
Heat pumps					
Air-to-water heat pump with two performance levels	LA 24AS	339980	1		
10m control line	EVL 996-1	321990			
20m control line	EVL 997-1	322000	1		
30m control line	EVL 998-1	322010			
Hydraulic accessories					
1 1/4" connecting hose*	AS 976-1	330530			
Floor-mounted buffer tank (200l)	PSW 200	339830	1		
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		
Universal buffer tank (500 l)*	PSW 500	339210			
Dual differential pressureless manifold	DDV 32	348450	1		
Circulating pump	UP 60-32	355970			
Circulating pump	UP 70-32	354020	1		
Manifold bar	VTB 25	339870			
Hot water module / unmixed heating circuit module	WWM 25	346600	1		
Mixed heating circuit module with temperature sensor*	MMH 25	348640			
Mixer module for bivalent systems	MMB 25	348880			
Dual differential pressureless manifold	DDV 25	358390			
Heating accessories					
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			
Immersion heater pipe assembly*	HDLR 450	337450			
DHW preparation accessories					
Hot water cylinder (400l) with temperature sensor	WWSP 880	337880	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			
Design hot water cylinder with sheet metal coverings and temperature sensor	WWSP 442E	353370	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			
Hot water cylinder (500 l) with temperature sensor*	WWSP 900	339220			
Pump unit DN 25 for direct connection of the hot water cylinder	WPG 25	356030	1		
Circulating pump	UP 80	340310	1		
Combo tank for heating and domestic hot water preparation with central flow*	PWD 750	349100			
Control accessories					
Modem plug-in card for heat pump manager 2006/2007	MWPM 300	355660			
Data bus plug-in card for heat pump manager	LWPM 410	339410			
External temperature sensor with casing	FG 3115	336620			
Swimming pool / remote fault indicator relay module	RBG WPM	339700			
FWPM 470 connection cable	AWPM 900	340210			
Temperature sensor	Norm NTC-2	353400			
Strap-on sensor	FA 550	338550			
Thermostat for heating and domestic hot water	KRRV 003	322070			
Remote control for the WPM 2006/2007*	AP PGD	356570			
Solar thermal systems accessories					
Solar collector 2 m² Al/Cu absorber, meander 4 connections	SOLK 1204 AM	356190			
Solar station	SOLPU 1	356230			

System accessories LA 24AS

Description	Order ref.	Article number	Sample item	Item	Price
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.