



## Data sheet LA 35TBS

### High temperature air-to-water heat pump for outdoor installation.

Installation location:

Max. flow temperature: 64 °C

Casing colour: Grey aluminium textured smooth (similar to RAL 9007)

Anthracite matt (DB703)

Heat pump for heating purposes 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 flow-optimised, tapering casing with encapsulated compressor housing, axial fan for low natural sounding noise and free-swinging compressor baseplate for solid-borne sound insulation. High coefficients of performance (COP) through high-performance evaporator and EC fan for COP-optimised adaptation of the air volume flow.

FWO function for more efficient domestic hot water preparation with increased domestic hot water temperatures and volumes of water to be drawn through optimised tank charging.

High operational reliability through sensor monitoring of the refrigeration circuit with demand-based defrosting via reverse circulation and integrated thermal energy metering (display of the calculated quantity of thermal energy for heating, domestic hot water and swimming pool water preparation on the heat pump manager).

Universal design with optional domestic hot water preparation and flexible expansion possibilities for:

- Bivalent or bivalent-renewable operating mode
- Distribution systems with unmixed and mixed heating circuits
- Use of load-variable tariffs
- 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 55 °C. Flow and return sensor integrated; external sensor (standard NTC-2) in the scope of supply. Dirt trap and flow rate switch built in. 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 High temperature air-to-water heat pump for outdoor installation. (Medium temperature)

Max. flow temperature	64 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 *	12,5 kW / 3,3
Heat output max. A-7/W35 / COP A-7/W35 *	22,3 kW / 3,1
Heat output A2/W35 / COP A2/W35 *	14,1 kW / 3,56
Heat output max. A2/W35 / COP A2/W35 *	23,7 kW / 3,35
Heat output A7/W35 / COP A7/W35 *	17,63 kW / 4,33
Heat output max. A7/W35 / COP A-7/W35 *	3,1
Heat output A10/W35 / COP A10/W35 *	19,8 kW / 4,8
Nominal power consumption according to EN 14511 at A2/W35	7,7 kW
Nominal power consumption A7/W35	4,16 kW
Sound power level	61 dB(A)
Sound pressure level in 10 m	34 dB(A)
Refrigerant / Amount of refrigerant	R407C / 5,2 kg
Max. heating water flow rate / Pressure drop	3,2 m <sup>3</sup> pro h / 11300 Pa
Heat source flow (min.)	3700 m <sup>3</sup> pro h
Width x Height x Depth **	1070 x 1815 x 765 mm
Weight	324 kg
Rated voltage	3/N/PE ~400 V, 50 Hz
Starting current	30 A
Type of defrosting	Reverse circulation
Heat pump seal of approval (valid until)	No
Max. flow temperature	64 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 *	12,5 kW / 3,3
Heat output max. A-7/W35 / COP A-7/W35 *	22,3 kW / 3,1
Heat output A2/W35 / COP A2/W35 *	14,1 kW / 3,56
Heat output max. A2/W35 / COP A2/W35 *	23,7 kW / 3,35



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\*The higher flow temperatures are available for domestic hot water preparation all year round.

\*\*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>				
Weather-proof protective cover for LA ...TBS (RAL 9007)	WSH 800-2	378350	0	
Air-to-water heat pump connection kit	VSF 32	361800	0	
<b>Hydraulic accessories</b>				
Hydraulic tower 300 litres	HPK 300	371600	1	
Immersion heater 4.5 kW; ~400 V	CTHK 633	322140	0	
Immersion heater 6.0 kW; ~400 V	CTHK 634	322150	0	
Transport aid for Hydro-Tower / LAW indoor unit	TH 270	370430	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	
Mixer module for bivalent systems	MMB 32	367780	0	
DN 32 double-sphere rubber expansion joint	KOMP 32	362060	0	



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Description	Order ref.	Article number	Sample item	Item
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	
Free-standing buffer tank 200 l	PSW 200	339830	0	
Universal buffer tank (500 l)	PSW 500	339210	0	
Dual differential pressureless manifold	DDV 40	367720	0	
High-efficiency circulating pump DN 32 with coupling relay	UPH 90-32	370420	0	
High-efficiency wet-running pump PWM with coupling relay	UPH 120-32PK	375750	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>				



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Description	Order ref.	Article number	Sample item	Item
Domestic hot water cylinder (400 l) with temperature sensor	WWSP 442	372840	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	
Safety valve combination	SVK 852	326660	0	
Domestic hot water cylinder (500l) with temperature sensor	WWSP 556	370080	0	
Domestic hot water cylinder, 700 litres	WWSP 770	376730	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	
<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	



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Description	Order ref.	Article number	Sample item	Item
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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