

Air-to-water heat pump with two performance levels

Max. flow temperature: 60 °C
 Casing colour: White (similar to RAL 9003)

Heat pump for heating purposes for indoor installation with integrated heat pump manager. 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). The integrated air circuit enables corner or wall installation with air ducts at the air intake and the air outlet side. Sound-optimised through low-noise axial fan and vibration-isolated compressor. High coefficients of performance (COP) using an evaporator optimised for heating operation and energy-efficient defrosting by reverse circulation. Universal design with two compressors for output regulation when operating at partial load, optional domestic hot water preparation and flexible expansion options for:

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

At an external temperature of -10 °C, the maximum flow temperature that can be achieved is 53 °C. Dirt trap and flow rate switch built in. Flow and return sensor integrated; external sensor (standard NTC-2) in the scope of supply.



Technical data

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

Order reference	LI 28TES
Heat pump code	1019
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)	-20 to 35 °C
Heat output A-7/W35 / COP A-7/W35*	11,4 kW / 2,6
Heat output max. A-7/W35 / COP A-7/W35*	21,6 kW / 2,8
Heat output A2/W35 / COP A2/W35*	13,4 kW / 3,1
Heat output max. A2/W35 / COP A2/W35*	25,2 kW / 3,3
Heat output A7/W35 / COP A7/W35*	14,5 kW / 3,2
Heat output max. A7/W35 / COP A7/W35*	27,8 kW / 3,5
Heat output A10/W35 / COP A10/W35*	15,1 kW / 3,4
Heat output max. A10/W35 / COP A10/W35*	28,3 kW / 3,6
Nominal power consumption according to EN 14511 at A2/W35	7,8 kW
Nominal power consumption according to EN 14511 at A7/W35	7,9 kW
Sound power level	61 dB (A)
Sound pressure level in 1 m	57 dB (A)
Refrigerant / Amount of refrigerant	R410A / 5,9 kg
Max. heating water flow rate / Pressure drop	5,3 m³/h / 21000 Pa
Heat source flow (min.)	6000 m³/h
Dimensions (W x H x D)**	750 x 1710 x 1030 mm
Weight	326 kg
Rated voltage	3/N/PE ~400 V, 50 Hz
Starting current	28 A
Fuse protection***	C25A
Type of defrosting	Reverse circulation
Connection heating	1 ¼ inch
Seal of approval EHPA (valid until)	Yes / 30.10.2018

*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)!

Description	Order ref.	Article number	Sample item	Item	Price
Heat pumps					
Air-to-water heat pump with two performance levels	LI 28TES	366090	1		
Elasticated sound insulation underlay strips	SYL 250	352260	2		
DN 32 double-sphere rubber expansion joint	KOMP 32	362060			
DN 32 dirt trap	SMF 32	362140			
Heat source accessories					
90° air duct bend	LKB 800A	366170	1		
Connection kit	VSLK 800	367700			
Connection frame set air duct	ARLK 800	370290			
Connection frame set air duct	ARLK 800	370290			
Connection kit	VSLK 800	367700			
Sealing collar 800	DMK 800	340290	1		
Deflector hood	LUH 800	358640			
Rain guard for LI(H)	RSG 800	340250	2		
Hydraulic accessories					
Heating water hose connection set	SAS 110	340330			
Hydraulic tower 300 litres	HPK 300	371600	1		
Transport aid for Hydro-Tower / LAW indoor unit	TH 270	370430			
Immersion heater 4.5 kW; ~400 V	CTHK 633	322140			
Immersion heater 6.0 kW; ~400 V	CTHK 634	322150	2		
Free-standing buffer tank 200 l*	PSW 200	339830			
Universal buffer tank (500 l)*	PSW 500	339210			
Dual differential pressureless manifold	DDV 40	367720			
High-efficiency circulating pump DN 32 with coupling relay	UPH 90-32	370420			
Electronically controlled circulating pump with coupling relay	UPH 100-32P	367860			
Manifold bar 2x	VTB 32-2	374920			
Manifold bar 3x	VTB 32-3	374930			
Domestic hot water module/unmixed heating circuit module	WWM 32	367800			
Mixed heating circuit module	MMH 32	367790			
Mixer module for bivalent systems	MMB 32	367780			
Electronically controlled wet-running pump, 1"p-v, fixed speed and PWM signal	UPE 70-32PK	374710			
Electronically controlled wet-running pump, self-regulating	UPE 100-32K	374730			
Electronically controlled wet-running pump, self-regulating	UPE 120-32K	374740			
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-50	362520			
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-100	362530			
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-150	362540			
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-200	362550			
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-300	362560			
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			
DHW preparation accessories					
Domestic hot water cylinder (400 l) with temperature sensor	WWSP 442	372840	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			
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			
PWS 650 combination tank*	PWS 650	367660			
Combo tank for heating and domestic hot water preparation with central flow*	PWD 750	349100			
Combo tank for heating and domestic hot water preparation with central flow*	PWD 900	362860			

Description	Order ref.	Article number	Sample item	Item	Price
Combo tank for heating and domestic hot water preparation with central flow*	PWD 1250	362890			
Domestic hot water module/unmixed heating circuit module	WWM 32	367800			
Pump unit DN 32 for direct connection of the domestic hot water cylinder	WPG 32	356040			
High-efficiency circulating pump DN 32 with coupling relay	UPH 90-32	370420			
3-way reversing valve DN 32*	DWV 32	374780			
FWS WT fresh water station with heat exchanger	FWS WT	368100			
Control accessories					
Extension for an Ethernet network connection	NWPM	356960			
Expansion module WPM for a KNX/EIB connection	EWPM	356970			
Extension for a Modbus RTU connection	LWPM 410	339410			
Swimming pool/remote fault indicator relay module	RBG WPM	339700			
MS PGD wall mounting kit	MS PGD	353810			
Remote control for WPM 2006/2007/EconPlus/R*	AP PGD	356570			
Outside temperature sensor with casing	FG 3115	336620			
Temperature sensor NTC-10 with metal sleeve	NTC-10M	363600			
Thermostat for heating and domestic hot water	KRRV 003	322070			
Solar thermal systems accessories					
Heat exchanger station SST 25 for solar energy systems up to max. 10 m ²	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.