EUROPA HOT-WATER HEAT PUMPS

The ideal supplement for every heating system! As well as hot-water heating, the Europa series offers additional functions such as cooling, drying and ventilation.



EUROPA 323 DK

Air/exhaust air heat pump with 300 I tank

for

domestic-hot-water heating cooling of pantries and storage rooms cellar dehumidification ventilation

323 DK compact unit:

- » with 300 I tank
- » for households of up to 5 persons
- water temperature of up to 65°C during heat pump operationheat pump operation with defrost function for
- use down to -10°C air temperature
- » ready for operation
- » easy installation
- » with immersion sleeve for external brand thermostat or sensor
- » with register for external heat sources such as furnaces or solar panels
- » E-rod integrated as standard
- » DN150 air ducts up to 20 m possible
- » 2 integrated protective magnesium anodes as standard
- » legionella switching via heat pump operation
- » optimal heat input

» Tiptronic plus control with touch display

for simple operation of:

- hot-water regulation with selectable hygiene-comfort switching
- real-time clock
- ventilation function with integrated fan
- speed control and timer programm - heat pump operation with de-icing function for
- use down to -10 °C air temperature - built in solar control for solar collector system (not supplied)
- built in solar control for solar collector system (not supplied)
- with the Smart Grid function of the Tiptronic plus, the Europa 323 DK is already set-up for Smart Metering.



NEW!

available from 2nd quarter 2014

Regulator Tiptronic light

EUROPA 250 DK / DKL

Air/exhaust air heat pump with 250 I tank

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for
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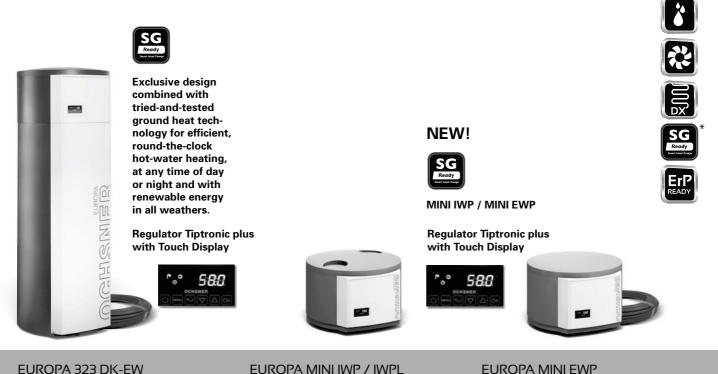
domestic-hot-water heating cooling of pantries and storage rooms cellar dehumidification

250 DK compact unit:

- » with 250 I tank
- » for households of up to 4 persons
- » water temperature of up to 65°C in heat pump operation
- » ready for operation
- » easy installation
- » E-rod integrated as standard
- » DN150 air ducts up to 20 m possible
- » 2 pc. Magnesium sacrificial anode factory fitted standard
- » legionella switch with heat pump
- » optimal heat input
- » Tiptronic light control

Compact 250 DKL:

- without an additional register! Therefore not suitable for external sources such as boilers or solar energy
- » 1 pc Magnesium sacrificial anode factory fitted standard



EUROPA 323 DK-EW

Direct ground heat extraction heat pump with 300 I tank

for

domestic-hot-water heating all year round, also usable for low outside temperatures and for passive and lowenergy buildings

- » with 300 I tank
- » for households of up to 5 persons
- water temperature of up to 60°C » in heat pump operation
- » ready for operation
- » easy installation
- with immersion sleeve for external » brand thermostat or sensor
- » with register for external heat sources such as boiler or solar collectors
- » E-rod integrated as standard
- » with 75 m copper ground collector for geothermal energy from the garden for up to 1,700 operational hours per year
- 2 pc Magnesium sacrificial anode » factory fitted standard
- legionella switch with heat pump »
- optimal heat input »

» Tiptronic plus control with touch display for simple operation of:

- hot-water regulation with selectable hygiene-comfort switch
- real-time clock
- built in solar control for solar collector system (not supplied)
- with the Smart Grid function of the
- Tiptronic plus, the Europa 323 DK-EW is already set-up for Smart Metering

EUROPA MINI IWP / IWPL

Air/exhaust air heat pump for external tanks up to 500 l

for

domestic-hot-water heating cooling of pantries and storage rooms cellar dehumidification combination with existing pellet, solar or furnace systems

- » for external tanks up to 500 l
- » for households of up to 5 persons
- water temperature of up to 60°C » in heat pump operation
- ready for operation, easy installation »
- space-saving design »
- » DN150 air ducts up to 20 m possible
- » internal heat exchange
- » tank charging via integrated circulation pump
- legionella switch with heat pump »
- » also available as a package solution with 300 l or 500 l storage tank or Twin-solution with 750 I storage tank

IWP split appliance:

» Tiptronic plus control with Touch

- display for ease of operation for: - hot water regulation with selectable hvaiene-comfort switch
- real-time clock
- ventilation function with integrated fan speed control and timer program
- heat pump operation with defrost function for use down to -10 °C air temperature preparation for on-site installation of
- E- immersion heater
- with the smart grid function of the Tiptronic plus, the Europa Mini IWP is already prepared for Smart Metering.

IWPL split appliance:

» Tiptronic light control

Direct ground heat extraction heat pump for ext. tanks up to 500I

for

domestic-hot-water heating, also at low outside temperatures auxiliary heating via buffer tank passive house energy supply combination with existing pellet, solar or furnace systems

Solit unit:

- » for external tanks up to 500 l
- for households of up to 5 persons »
- water temperature of up to 60°C »
- in heat pump operation
- ready for operation »
- easy installation »
- space-saving design »
- with 75 m copper ground collector for » geothermal energy from the garden for up to 1.700 operational hours per year
- internal heat exchange »
- tank charging via integrated circulation pump
- legionella switch with heat pump

Tiptronic plus control with Touch »

- display for ease of operation for: - hot water regulation with selectable
- hygiene-comfort switch
- real-time clock
- preparation for on-site installation of E-immersion heater
- with the SmartGrid function of the Tiptronic plus, the Europa Mini EWP is already prepared for Smart Metering.
- » also available as a package solution with 300 l or 500 l tank or as Twin-solution with 750 I tank

PRODUCTS			37	EUROPA		
Multifunctional appliances / Exhaust air heat pumps		Contraction of the second s	SG Inny	(University of the second seco		
Heat source				AIR/EXHAUST AIR		
Dimensions (Diam.xH) or (LxWxH) [mm]	650 x 1850	650 x 1610	650 x 1610	650 × 426	650 × 426
Model		323 DK	250 DK	250 DKL	Mini IWP	Mini IWPL
Order number / delivery class		110261 / I	110234 / I	110233 / I	110246 / I	110244 / I
Price compact unit (incl. storage t EU 323 DK-EW incl. copper ground collec		3.104,-	2.690,-	2.483,-	-	-
Price split unit (incl. wall bracket set an EWP, copper ground collector(s) storage tank no		-	-		2.267,-	1.956,-
Technical data:						
Heat pump capacity at		L21/W15-55	L21/W15-55	L21/W15-55	L21/W15-55	L21/W15-55
Туре		Compact	Compact	Compact	Int. heat exchanger	Int. heat exchanger
Weight	[kg]	165	145	141	45	45
Heat pump heating capacity (exhaust air or ground)	[kW]	2,2	2,1	2,1	2,2	2,1
Sound pressure (at 1 m distance)	[dB(A)]	49	49	49	49	49
Nominal voltage/frequency	[V/Hz]	230/50	230/50	230/50	230/50	230/50
Operating current	[A]	2,9	2,7	2,7	2,93	2,7
Heat pump power draw	[kW]	0,5	0,5	0,5	0,5	0,5
Heat pump COP		4,4	4,4	4,4	4,4	4,4
Fuse (trip characteristic 'C')	[A]	16	16	16	13	13
Electronic Control		Tiptronic plus with Touch	Tiptronic light	Tiptronic light	Tiptronic plus with Touch	Tiptronic light
Electrical rod - fail-safe fuse	[kW]	1,5	1,5	1,5	up to max. 2,5*	up to max. 2,5*
Min. evaporator operating temperature	[°C]	-10	+6	+6	-10	+6
Max. evaporator operating temperature	[°C]	+40	+40	+40	+40	+40
Max. hot water temperature during heat pump operation	[°C]	+65	+65	+65	+60	+60
Auxiliary heating via furnace up to max.	[°C]	+65	+65	+65	-	-
Auxiliary heating via E-rod up to max.	[°C]	+65 R134a	+65 R134a	+65 R134a	- R134a	- R134a
Refrigerant Compressor		n134d	n 134a	n134a	n 134a	n134a
Туре		Rolling piston	Rolling piston	Rolling piston	Rolling piston	Rolling piston
Start type		direct	direct	direct	direct	direct
Evaporator		unoor	diroot	anoot	anoot	anoot
Туре		air/finned tube	air/finned tube	air/finned tube	air/finned tube	air/finned tube
Material		Cu Al	Cu Al	Cu Al	Cu Al	Cu Al
Defrost function/frost protection cut-out		hot gas	electronic	electronic	hot gas	electronic
R407C pre-filled copper ground collectors						
Condenser						
Туре		Finned tube - HE	Finned tube - HE	Finned tube - HE	Plates - HE	Plates - HE
Material		Copper	Copper	Copper	Stainless steel	Stainless steel
Number		1	1	1	1	1
Water storage tank						
Nominal capacity	[1]	300	250	250	-	-
Allowable operating pressure	[bar]	6	6	6	-	-
Heat insulation		PU rigid foam	PU rigid foam	PU rigid foam	-	-
Auxiliary heat register		0/4//	0/4//			
Type Register		3/4" smooth tube	3/4" smooth tube	WITHOUT Register	-	-
Allowable operating pressure	[bar]	4	4	-	-	-
Allowable operating temperature of heating medium	[°C]	90	90	-	-	-
Register surface area	[m ²]	1,4	1,0	-	-	-
Air flow	[0/[]	F10 000	F10	F10	F10	F10
Unrestricted air flow Continuously variable	[m3/h]	510-360	510	510	510	510
External static pressure	[Pa]	integrated 80	integrated 80	integrated 80	integrated 80	integrated 80
	[Fd]	00	00	00	00	00

Delivery class I - in-stock

Weight specification excl. packaging. The performance and/or COP of heat pumps is dependent on air temperature, air flow and humidity. Tank specification: high-quality 2-coat vacuum enamelling. When using for living-room ventilation, we recommend using pipework noise insulation (not included). Tiptronic plus incl. ventilation switching. First seal of approval for hot-water heat pumps with highest COP value hitherto measured according to EN 255-3 at the Buchs heat-pump centre: standard cycle COP 3.4 to 3.5. Integrated auxiliary exchanger register for solar connection or combination with pellet- or fuel-fired boiler only possible with Europa 323 DK / 323 DK. W. When using two ground collectors (over 1.700 h/a or more than 300 (/day), order the Europa Mini EWP heat pump, article no. 130246. Packages to be connected on-site. We recommend installing a decalcifier in areas with hard water. See operating instructions. Machine failure due to poor water quality = loss of guaranteel Hot-water heat pumps are intended Brinely for hot-water heating and not for room heating. Further components on request. EUROPA series: performance data with constructural tolerance of ± 10%. For tank and accessories, see pages 52–53.

EUROPA



	GROOND	
650 x 1850	650 x 426	650 × 426
323 DK-EW	Mini EWP 1	Mini EWP 2
130261 / I	130247 / I	130248 / I
3.621,-	-	-
-	2.991,-	3.612,-

E4/W15-55	E4/W15-55	E4/W35	E4/W15-55	
Compact	Int. heat e	xchanger	Int. heat exchang	er
165	43		43	
2,3	3 2,7		3	
35	35	5	35	
230/50	230,	/50	230/50	
3,1	3,8	3,6	3,8	
0,66	0,73	0,67	0,73	
3,5	4,1	4	4,1	
16	1:	3	13	
Tiptronic plus with Touch	Tiptronic plus	with Touch	Tiptronic plus with T	ouch
1,5	up to ma	ax. 2,5*	up to max. 2,5*	
-	-		-	
	-		-	
+60	+6	50	+60	
+60	-		-	
+60	-		-	
R407C	R40	17C	R407C	
Rolling piston	Rolling	-	Rolling piston	
direct	dire	ect	direct	
tube evaporator	tube eva		tube evaporato	r
Cu PE	Cu		Cu PE	
-	-		-	
1	1		2	
Electronic Inc.	Dista			
Finned tube - HE	Plates Stainles		Plates - HE Stainless steel	
Copper 1	Stainles 1		1	
I	I		1	
300	-		-	
6				
PU rigid foam				
r o figla fourn				
3/4" smooth tube	-		-	
4	-		-	
90	-		-	
1,4	-		-	
-	-		-	
-	-		-	
-	-		-	

*not included in scope of delivery

Europa 250 DK / DKL Available from 2nd quarter 2014

Accessories included in price of Europa heat pump:

Accessories	Pc.	Models
Wall bracket set (525 mm height x 700 mm projection)	2	Mini IWP/IWPL + Mini EWP 1 + 2
	1	Mini EWP 1
Pre-filled copper ground collector R407C	2	Mini EWP 2
	1	323 DK-EW

Optional accessories:

	Nr.	Models	Price
Continuously adjustable flow regulator (retrofit set) 510–360 m³	930207	250 DK/DKL + Mini IWPL	58,-
Transport aid Europa (Fig. P 19)	936132	323 DK, 250 DK/DKL, 323 DK-EW	620,– Netto

Combination options for domestic-hotwater heat pumps

Package Individual s	olution						
Package with 300 I storage tank							
Heat pump	Mini IWP	Mini IWPL	Mini EWP 1	Mini EWP 2			
Package code	180012	180013	180014	180015			
Package Price	3.337,-	3.035,-	4.039,-	4.642,-			
Package Price Package with 50		· · · · ·	4.039,-	4.642,-			
		· · · · ·	4.039,- Mini EWP 1	4.642,- Mini EWP 2			
Package with 50	00 l storage t	ank					

Package Twin solutic for increase		ter dema	nd			
Package with 750 I storage tank + 2x Mini IWP/IWPL or EWP						
Heat pump	Mini IWP	Mini IWPL	Mini EWP 1	Mini EWP 2		
Package code	180020	180021	180022	180023		

Package solutions incl. wall bracket set for Europa Mini; SP 300,SP 500 or SP 750 series storage tank available; for detailed information on hot-water storage tanks, see pages 52-53 -3% package discount incl. in price

6.130,-

8.138,-

9.343,-

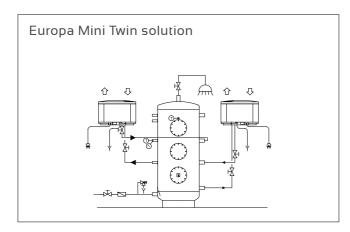
Package Price 6.733,-

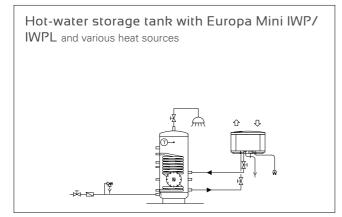
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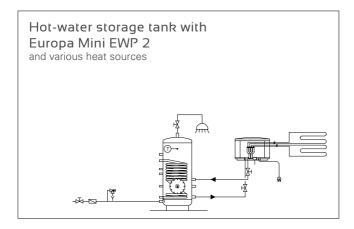
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COMBINATION OPTIONS

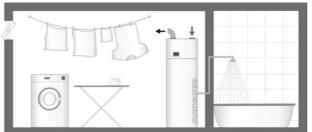
Depending on requirements, domestic-hot-water heat pumps can be installed in both new and existing buildings for optimal and economical hot-water heating.





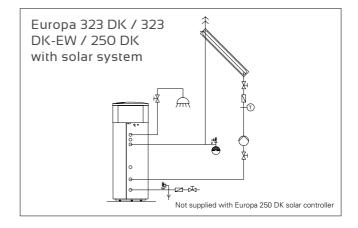


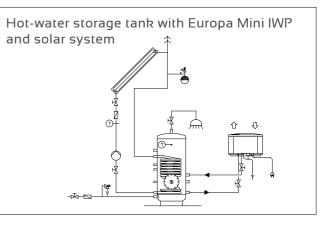
EXAMPLES OF APPLICATION

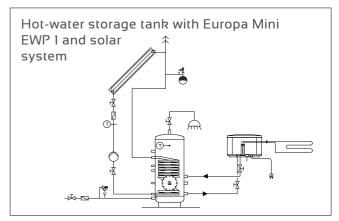


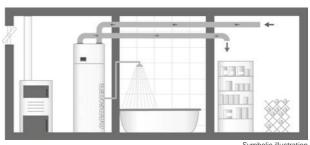






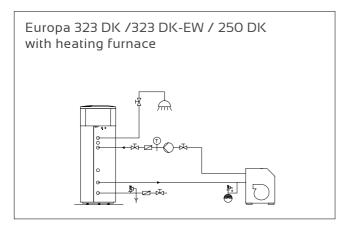


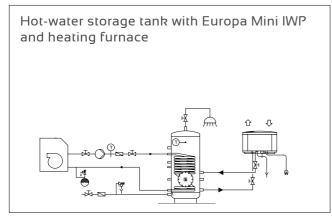


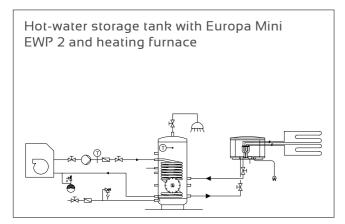


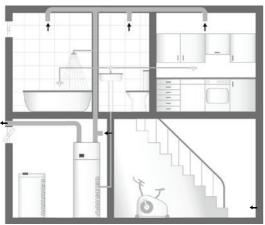
Cooling of storeroom

Symbolic illustration





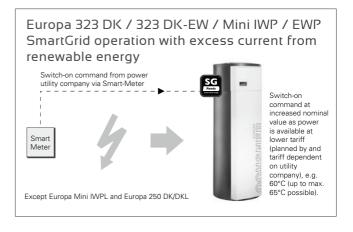




Exhaust system (single-duct ventilation), Exhaust: from bathroom, toilet, kitchen Expelled air: to outside









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Symbolic illustration