OCHSNER hot water heat pumps

NATURAL HOT **WATER**

OCHSNER
HEAT PUMPS

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HOT WATER HEATING
MORE EFFICIENT THAN EVER

The Europa Series heat pumps are the ideal supplement to any heating system for providing all your hot water needs. As well as providing hot water extremely efficiently, they can also provide other features such as cooling and exhaust ventilation of store rooms (eg. pantries).

- **Environmentally friendly hot water heating using air/exhaust air or ground heat as the heat source**
- **Combinable with photovoltaic- or solar systems**
- **Very quiet operation**
- **ehpa-seal of quality**
- **Intelligent control technology with the simplest operation and with Touch Display**
- **Additional functions such as cooling, drying and ventilation**
- **Highly efficient and with long life**

OCHSNER hot water heat pumps offer the following additional advantages

- **Up to 65°C hot water**
  A hot water temperature up to 65°C in heat pump operation means more hot water if required. For an occasionally higher hot water demand, E-rods are factory-fitted in the tanks of the compact units.

- **The only cost effective alternative to solar thermal hot water heating**
  Using solar heat indirectly day & night, even in bad weather

- **High-class components for high reliability**
  Double vacuum-enamelled quality hot water storage tanks ensure a long service life of your heat pumps. Only chlorine-free, absolutely ozone-neutral and non-flammable safety refrigerants as well as high-quality compressors are used.

- **Easy commissioning**
  Quick setup, fast installation
  Plug in – switch on – ready!

Tiptronic plus control with Touch Display Intelligent control with simple operation of:

- Hot-water regulation with switchable Hygiene - Comfort function
- Ventilation function with integrated fan-speed regulation and timer program
- Real time clock (timer program for hot water, hygiene and ventilation modus)
- Heat pump operation with defrost function for deployment down to -10°C air temperature
- Solar regulation as standard in Models Europa 323 DK and 323 DK-EW for solar thermal system (to be supplied and configured on site)
- using the Tiptronic plus Smart Grid (SG) Function, the Europa 323 DK, Europa 323 DK-EW and Europa Mini IWP are already prepared for Smart Metering and therefore well equipped for the electricity network of the future

Models Europa 323 DK, 323 DK-EW, 333 Genius and Mini IWP with SmartGrid function

Use your own-generated PV electricity as priority for hot water production, thus easing your budget and the environment by decreasing your CO_2 emissions. Additionally, you can benefit from the expected favourable rates of future power grids!

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OCHSNER hot water heat pumps Europa

PRODUCT RANGE

Europa 323 DK

AIR/EXHAUST AIR HEAT PUMP
WITH 300 L TANK

for hot water heating, cooling of pantries and storage rooms, cellar dehumidification and ventilation

Compact unit

- with 300 l storage tank
- for households with up to 5 persons
- water temperature up to 65°C in heat pump operation
- heat pump operation with de-icing function for use down to -10°C air temperature
- ready to plug in
- simple installation
- with immersion sleeve for third-party brand thermostat or sensor
- with register for external heat sources such as furnaces or solar collectors
- E-rod heating element factory fitted
- air ducts DN 150 up to 20 m possible
- 2 factory-fitted sacrificial magnesium anodes
- legionella switching using heat pump operation
- optimum heat input
- Tiptronic plus control with Touch Display

Europa 323 DK-EW

DIRECT EXTRACTION HEAT PUMP
WITH 300 L TANK

for hot water heating all-year-round, even at low outdoor temperatures - for passive and low-energy houses

Compact unit

- with 300 l storage tank
- for households with up to 5 persons
- water temperature up to 60°C in heat pump operation
- ready to plug in
- simple installation
- with immersion sleeve for third-party brand thermostat or sensor
- with register for external heat sources such as furnaces or solar collectors
- E-rod heating element factory fitted
- With 75 m copper ground collector for use of ground heat from the garden for up to 1,700 operating hours per year
- 2 factory-fitted sacrificial magnesium anodes
- legionella switching using heat pump operation
- optimum heat input
- Tiptronic plus control with Touch Display

*Available
from Q4/2017

Europa 333 GENIUS

**AIR/EXHAUST AIR HEAT PUMP
WITH 300 L STORAGE TANK**

for hot water heating, cooling of pantries and storage rooms, cellar dehumidification and ventilation

Compact unit 333 Genius

- the new flagship in the OCHSNER hot water series
- for households with up to 5 persons
- heat sources air/ exhaust air
- water temperature up to 65°C in heat pump operation
- Smart-Grid ready
- PV - Own consumption optimising - continuously variable from 0 to 2000 W
- with Register for external heat sources, such as heating boiler or solar thermal systems
- impressed current anode
- legionella switching via heat pump operation
- most simple commissioning

Europa 300 L

**AIR/EXHAUST AIR HEAT PUMP
WITH 300 L STORAGE TANK**

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

Compact unit 300 L

- with 300 l storage tank
- for households with up to 5 persons
- water temperature up to 65°C in heat pump operation
- ready to run
- simple installation
- e-heating rod factory fitted as standard
- air routing DN 150 up to 20m possible
- 1 pce. Magnesium protective anode factory fitted
- legionella switching via heat pump operation
- optimum heat input
- Tiptronic light control
- without additional register - thus not suitable for external heat sources, such as heating boiler or solar thermal systems

Tiptronic plus S control with Touch Display

- intelligent control with simple operation:
- hot water regulation with selectable hygiene-comfort switching
- ventilation function with integrated fan speed control
- heat pump operation with defrost function down to -10 °C
- real time clock (timer program for hot water, hygiene and ventilation modus)
- BUS - communication for building management / Smart Home connection

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Europa 250 DK/DKL

AIR/EXHAUST AIR HEAT PUMP WITH 250 L TANK

for hot water heating, cooling of pantries and storage rooms, cellar dehumidification and ventilation

Compact unit Europa 250 DK

- with 250 l storage tank
- for households with up to 4 persons
- water temperature up to 65°C in heat pump operation
- ready to plug in
- simple installation
- with immersion sleeve for third-party brand thermostat or sensor
- with register for external heat sources such as furnaces or solar collectors
- E-rod heating element factory fitted
- air ducts DN 150 up to 20 m possible
- 1 factory-fitted sacrificial magnesium anodes
- legionella switching using heat pump operation
- optimum heat input
- Tiptronic light control

Compact unit Europa 250 DKL

- without additional register - thus not suitable for external heat sources, such as heating boiler or solar thermal systems

Europa Mini IWP/IWPL

AIR/EXHAUST AIR HEAT PUMP FOR EXTERNAL TANKS UP TO 500 L

for hot water heating, cooling of pantries and storage rooms, cellar dehumidification and ventilation, combination with existing pellets, solar or furnace systems

Split unit

- for external tanks up to 500 l
- for households with up to 5 persons
- water temperature up to 60°C in heat pump operation
- ready to plug in
- simple installation
- space-saving design
- air ducts DN 150 up to 20 m possible
- internal heat exchanger
- tank charging via integrated circulation pump
- legionella switching using heat pump operation
- also available as package solution with 300l or 500l DHW tank

Split appliance IWP

- Tiptronic plus control with Touch Display

Split appliance IWPL

- Tiptronic light control

Europa Mini EWP

DIRECT GROUND EXPANSION HEAT PUMP FOR EXTERNAL TANKS UP TO 500 L

for hot water heating, also at low outside temperatures, auxiliary heating via buffer tank Energy supply to passive houses, combination with existing pellets, solar or furnace systems

Split unit

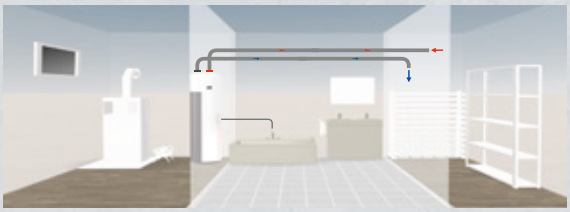
- for external tanks up to 500 l
- for households with up to 5 persons
- water temperature up to 60°C in heat pump operation
- ready to plug in
- simple installation
- space-saving design
- with 75 m copper ground collector for ground heat from the garden for up to 1,700 operating hours per annum
- internal heat exchanger
- tank charging via integrated circulation pump
- legionella switching using heat pump operation
- Tiptronic light control
- also available as package solution with 300l or 500l DHW tank

More than just hot-water heating: The Europa multifunctional appliances can dry, cool and provide corresponding ventilation.

EXAMPLE A

(Type Europa 250 DK/DKL, 323 DK, 333 Genius, 300L and Mini IWP)

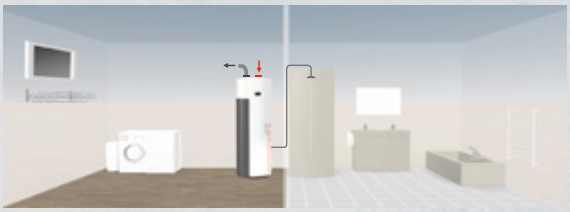
- installation in heating room
- hot-water heating from room air
- added benefit: store room or wine cellar cooling



EXAMPLE B

(Type Europa 250 DK/DKL, 323 DK, 333 Genius, 300L and Mini IWP)

- installation in laundry room
- hot-water heating from room air
- added benefit: laundry drying in the room, decalcified water for steam irons



EXAMPLE C

(Type Europa 323 DK, 333 Genius / living space ventilation as exhaust-air system)

- installation in utility room with heating heat pump
- heat recovery from exhaust air for hot water heating
- added benefit: living space ventilation (hygienic single-duct system)
  Extraction of stale, moist air from damp rooms (bathroom, WC, kitchen) and controlled fresh-air entry using adjustable wall-vents in living area, hallway or staircase.

symbolic picture

HOT WATER HEAT PUMPS
MULTIFUNCTION APPLIANCES/EXHAUST AIR HEAT PUMPS

SERIES		EUROPA								
MODEL		**333 Genius**	**323 DK**	**323 DK-EW**	**300 L**	**250 DK**	**250 DKL**	**Mini IWP**	**Mini IWPL**	**Mini EWP**
Dimensions (Dia.xH)	[mm]	650 x 1850	650 x 1850	650 x 1850	650 x 1850	650 x 1610	650 x 1610	650 x 426	650 x 426	650 x 426
Weight	[kg]	165	165	165	165	145	141	45	45	43
COP according to 16147		3,82	3,15	3,5**	3,15	2,71	2,71	3,16	2,94	4,1** 4**
Heat pump capacity at				E4/W15-55						E4/W15-55 E4/W35
Sound pressure level at distance of 1 m	[dB(A)]	49	49	35	49	49	49	49	49	49
Nominal voltage	[V]	230	230	230	230	230	230	230	230	230
Operating temperature of air input min/max*	[°C]	-10/+40	-10/+40	-	+6/+40	+6/+40	+6/+40	-10/+40	+6/+40	-
max. water temperature	[°C]	65	65	60	65	65	65	60	60	60
Energy efficiency class		A+	A+	A	A+	A+	A+	A+	A	A

*Temperature of installation area minimum + 10 to + 15°C (depending on mode of operation)
**COP according to EN 255-3

The performance data refer to the heat pump data measured under standard conditions (heating capacity, COP), taking the specified tolerances into consideration. The energy efficiency of the system and thus the running costs are the responsibility of the system installer. The heat pump heating systems are to be installed according to OCHSNER guidelines. No guarantee of the heat pump function can be given for systems that have not been built to these guidelines. OCHSNER therefore recommends that trained OCHSNER-System partners install the heat pump. Even if the system has been installed according to the OCHSNER guidelines, the efficiency values on site can still deviate from factory specifications, because the latter are based on standard conditions. Furthermore, user behaviour also plays a decisive role.

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Subject to technical changes, misprints and errors.

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