OCHSNER hot water heat pumps

NATURAL
HOT WATER

OCHSNER
HEAT PUMPS

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WITH A HOT WATER HEAT PUMP, YOU ENJOY THE BENEFITS OF SOLAR ENERGY AROUND THE CLOCK, DAY AND NIGHT, WHATEVER THE WEATHER! STORED IN THE AIR OR IN THE GROUND.

OCHSNER EUROPA

HOT WATER HEAT PUMPS

Europa series hot water heat pumps are the ideal supplement to any heating system.
Besides efficient and environmentally friendly DHW heating, these offer numerous additional benefits such as the cooling or ventilation of pantries/storage rooms and much more.

TIPTRONIC PLUS CONTROLLER WITH TOUCHSCREEN

- DHW control with selectable hygiene/comfort function
- Ventilation function with integral variable speed control
- Real time clock (time programs for DHW, hygiene and ventilation modes)
- Heat pump operation with defrost function for use at air temperatures down to -10°C
- Solar control as standard for on-site solar thermal systems (can be configured on site)

SMART GRID FUNCTION

Avail yourself of electricity from your own PV system as your preferred option for DHW heating. This is kind on your pocket and the environment, and reduces CO_2 emissions. You can also exploit the favourable tariffs we expect to see with the power grid of the future!

SMART GRID FUNCTION FOR THE EUROPA 333 GENIUS, EUROPA 323 DK-EW, EUROPA 300 L AND EUROPA MINI IWP MODELS

EFFICIENT AND ENVIRONMENTALLY SOUND DHW HEATING, INDEPENDENT OF YOUR HEATING SYSTEM

Hot water heat pumps make it possible. The perfect complement to heating heat pumps and boilers, they can be installed as an alternative to solar thermal systems or in combination with them.

The Europa series of hot water heat pumps offers the following key benefits:

- Highly efficient and durable
- Environmentally responsible DHW heating with air/exhaust air or geothermal energy as the heat source
- European EHPA Quality Label
- Very quiet running
- Quick positioning and installation: simply connect the appliance to the power supply and hot & cold water pipework
- Smart, simple-to-operate control technology with touchscreen (depending on the model)
- DHW up to 65°C in heat pump mode
- Can be combined with PV systems
- Also suitable for renovation projects, to complement existing oil, gas or biomass boilers

GENERATE DHW SEPARATELY AND TURN OFF THE HEATING IN SUMMER

There are many situations in which it is a good idea to separate your central heating and DHW heating systems. One significant benefit is that the central heat generator can be switched off outside the heating season, which saves energy over the long term. The fact is that many heat generators are oversized when it comes to DHW heating outside the heating season. As an additional benefit, switching your heating system off during the summer months extends its service life.

WASTE HEAT FROM YOUR HOUSE OR GEOTHERMAL ENERGY

HOT WATER HEAT PUMPS GENERALLY USE WARM INDOOR AIR, OR GEOTHERMAL ENERGY IN SOME CASES, TO GENERATE DHW.

Ambient air from the interior is transferred to a refrigerant inside the heat pump. This refrigerant is compressed by a compressor and then used to generate DHW via a heat exchanger. This way, energy efficient use can be made of waste heat, particularly from secondary rooms or storage spaces such as a boiler room, utility room or pantry/storage room.

IDEALLY SUITED TO RETROFITTING

Due to their operating principle and their high efficiency, hot water heat pumps are suitable for new build as well as for retrofitting in detached and two-family houses. Separating the heating system from DHW heating as an energy saving measure can be achieved quickly and simply. Hot water heat pumps are also a worthwhile investment which will pay off over the long term if you are looking to replace your old electrically heated floorstanding DHW tank.

PRODUCT OVERVIEW

OCHSNER EUROPA

EUROPA 333 GENIUS: THE FLAGSHIP MODEL IN OCHSNER'S HOT WATER HEAT PUMP LINE-UP

EUROPA 333 GENIUS

AIR/EXHAUST AIR HEAT PUMP

300 L TANKS | UP TO **5** PEOPLE | DHW TO **65°***

FOR DHW HEATING, COOLING OF PANTRIES/ STORAGE ROOMS, CELLAR DEHUMIDIFICATION, VENTILATION

The Europa 333 Genius is a hot water heat pump with a 300 litre tank volume, Modbus interface and adjustable booster heating element.
When linked up to a building management system or inverter, this combination of components allows for optimised use of on-site PV power. Available surplus power up to an electric output of 2100 W can be used on an infinitely variable basis via the heat pump and controllable electric immersion heater, with the energy being stored in the DHW.
Depending on the surplus power and storage capacity available, the heat pump is switched and the remainder is regulated via the electric immersion heater. This allows even very small amounts of solar energy to be converted into heat.

THE COMBINATION OF A HEAT PUMP AND CONTROLLABLE BOOSTER HEATING ELEMENT IN ONE APPLIANCE MAKES THIS CONCEPT ABSOLUTELY UNIQUE ON THE MARKET.

COMPACT APPLIANCE

- Smart Grid ready
- Optimised consumption of PV power generated on site – infinitely variable from 0 to 2100 W
- With coil for external heat generators such as boilers and solar thermal systems
- Mains current anode
- Anti-legionella function in heat pump mode
- Extremely straightforward commissioning
- Tiptronic Plus S controller with touchscreen

ENERGIE GENIE

Winner of the "Energie Genie" innovation award from the Austrian Federal Ministry of Sustainability and Tourism.

PARTICULARLY POWERFUL AND EFFICIENT

EFFECTS ON ENERGY SAVINGS AND ENERGY EFFICIENCY:

Considering the DHW volume and heating from 15°C to 65°C, 17 kWh of energy can be saved with the Europa 333 Genius.

EHPA Quality Label tests on the hot water heat pump performed at the heat pump test centre in Buchs (CH) according to EN 16147 resulted in an impressive COP of 3.8. Even if the full output of the electric heating element is used in addition to the heat pump, the COP is still 1.98 when utilising the maximum available surplus PV power.

EUROPA 300 L

AIR/EXHAUST AIR HEAT PUMP

300 L TANKS | UP TO 5 PEOPLE | DHW TO 65°*

FOR DHW HEATING, COOLING OF PANTRIES/STORAGE ROOMS, CELLAR DEHUMIDIFICATION

COMPACT APPLIANCE

- Fully wired/ Straightforward installation
- Integral electric immersion heater as standard
- DN 150 air duct up to 20 m possible
- 1 integral sacrificial magnesium anode as standard
- Anti-legionella function in heat pump mode
- Optimum heat yield
- Tiptronic Plus controller with touchscreen
- No additional coil, therefore not suitable for external heat generators such as boilers or solar thermal systems

EUROPA 250 DK/DKL

AIR/EXHAUST AIR HEAT PUMP

250 L TANKS | UP TO 4 PEOPLE | DHW TO 65°*

FOR DHW HEATING, COOLING OF PANTRIES/STORAGE ROOMS, CELLAR DEHUMIDIFICATION

250 DK COMPACT APPLIANCE

- Fully wired/ Straightforward installation
- With sensor pocket for third party thermo-stat/sensor
- With coil for external heat generators such as boilers and solar thermal systems
- Integral electric immersion heater as standard
- DN 150 air duct up to 20 m possible
- 1 integral sacrificial magnesium anode as standard
- Anti-legionella function in heat pump mode
- Optimum heat yield
- Tiptronic Light controller

250 DKL COMPACT APPLIANCE

- No additional coil, therefore not suitable for external heat generators such as boilers or solar thermal systems

EUROPA 323 DK-EW

DIRECT EXTRACTION HEAT PUMP

300 L TANKS | UP TO 5 PEOPLE | DHW TO 60°*

FOR DHW HEATING ALL YEAR ROUND, EVEN AT LOW OUTDOOR TEMPERATURES, FOR PASSIVE AND LOW ENERGY HOUSES

COMPACT APPLIANCE

- Fully wired/ Straightforward installation
- With sensor pocket for third party thermostat/sensor
- With coil for external heat generators such as boilers and solar thermal systems
- Integral electric immersion heater as standard
- With 75 m copper geothermal collector for using geothermal energy from the garden for up to 1700 hours per year
- 2 integral sacrificial magnesium anodes as standard
- Anti-legionella function in heat pump mode
- Optimum heat yield
- Tiptronic Plus controller with touchscreen

YOU WILL FIND DETAILS AND APPLICATION EXAMPLES ON THE NEXT PAGE AND AT WWW.OCHSNER.COM

*In heat pump mode

PRODUCT OVERVIEW

OCHSNER EUROPA MINI

EUROPA MINI IWP/IWPL

AIR/EXHAUST AIR HEAT PUMP

SUITABLE FOR 500 L EXTERNAL TANK | UP TO 5 PEOPLE | DHW TO 60°*

FOR DHW HEATING, COOLING OF PANTRIES AND STORAGE ROOMS, CELLAR DEHUMIDIFICATION; CAN BE COMBINED WITH EXISTING PELLET BOILER, SOLAR THERMAL OR CONVENTIONAL BOILER SYSTEMS

SPLIT APPLIANCE

- Fully wired/ Straightforward installation
- Compact footprint
- DN 150 air duct up to 20 m possible
- Internal heat exchanger
- Tank charging via integral circulation pump
- Anti-legionella function with the heat pump
- Also available as a package solution with 300 l or 500 l tank

IWP SPLIT APPLIANCE

- Tiptronic Plus controller with touchscreen

IWPL SPLIT APPLIANCE

- Tiptronic Light controller

EUROPA MINI EWP

DIRECT EXTRACTION HEAT PUMP

SUITABLE FOR 500 L EXTERNAL TANK | UP TO 5 PEOPLE | DHW TO 60°*

FOR DHW HEATING EVEN AT LOW OUTDOOR TEMPERATURES, BOOSTER HEATING VIA BUFFER TANK, ENERGY SUPPLY TO PASSIVE HOUSES; CAN BE COMBINED WITH EXISTING PELLET BOILER, SOLAR THERMAL OR CONVENTIONAL BOILER SYSTEMS

SPLIT APPLIANCE

- Fully wired/ Straightforward installation
- Compact footprint
- With 75 m copper geothermal collector for using geothermal energy from the garden for up to 1700 hours per year
- Internal heat exchanger
- Tank charging via integral circulation pump
- Anti-legionella function with the heat pump
- Tiptronic Light controller
- Also available as a package solution with 300 l or 500 l tank

SPECIFICATION

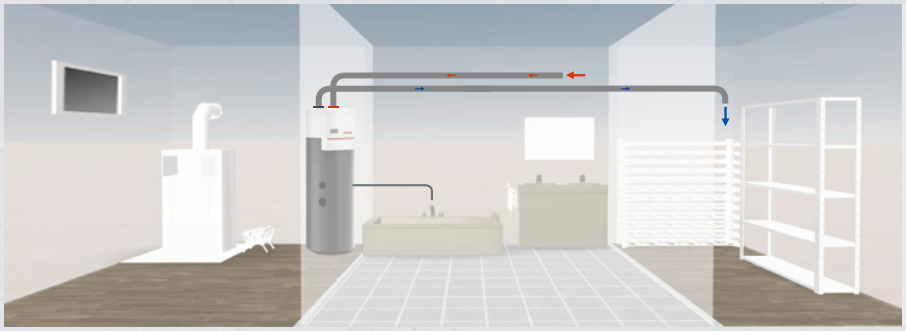
EUROPA		333 GENIUS	323 DK-EW	300 L	250 DK	250 DKL	MINI IWP	MINI IWPL	MINI EWP
DIMENSIONS (ØxH)	[mm]	650 x 1850	650 x 1850	650 x 1850	650 x 1610	650 x 1610	650 x 426	650 x 426	650 x 426
WEIGHT	[kg]	165	165	165	145	141	45	45	43
COP to EN 16147		3.82	3.5	3.4	2.71	2.71	3.16	2.94	4.1
LOAD PROFILE		XL	XL	XL	L	L	XL	XL	XL
SOUND PRESSURE LEVEL at 1 m distance	[dB(A)]	49	35	49	49	49	49	49	49
RATED VOLTAGE	[V]	230	230	230	230	230	230	230	230
OPERATING TEMPERATURE min./max. supply air**	[°C]	-10/+40	–	+6/+40	+6/+40	+6/+40	-10/+40	+6/+40	–
MAX. WATER TEMPERATURE	[°C]	65	60	65	65	65	60	60	60
ENERGY EFFICIENCY CLASS		A+	A	A+	A+	A+	A+	A+	A+

* In heat pump mode
** Installation room temperature at least +10 to +15°C (depending on operating mode)

The performance figures refer to data measured for heat pumps under standard conditions (heating output, COP), taking into account the specified tolerances. The energy efficiency, and therefore the running costs, of the system are the responsibility of the system installer. Heat pump heating systems must be installed in accordance with OCHSNER guidelines. No functional warranty for the heat pump can be provided for systems that are not installed in accordance with these guidelines. OCHSNER therefore recommends that the heat pumps are installed by trained OCHSNER system partners. Even if a system has been installed in accordance with OCHSNER guidelines, efficiency values may deviate from factory data, as the latter is based on measurements taken under standard conditions. User behaviour also plays a critical role.

MORE THAN JUST DHW HEATING

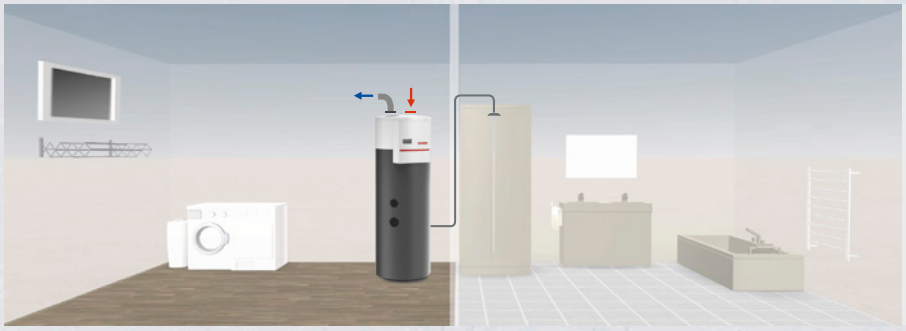
Europa multifunction appliances can also dry, cool and provide proper ventilation.



EXAMPLE A

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

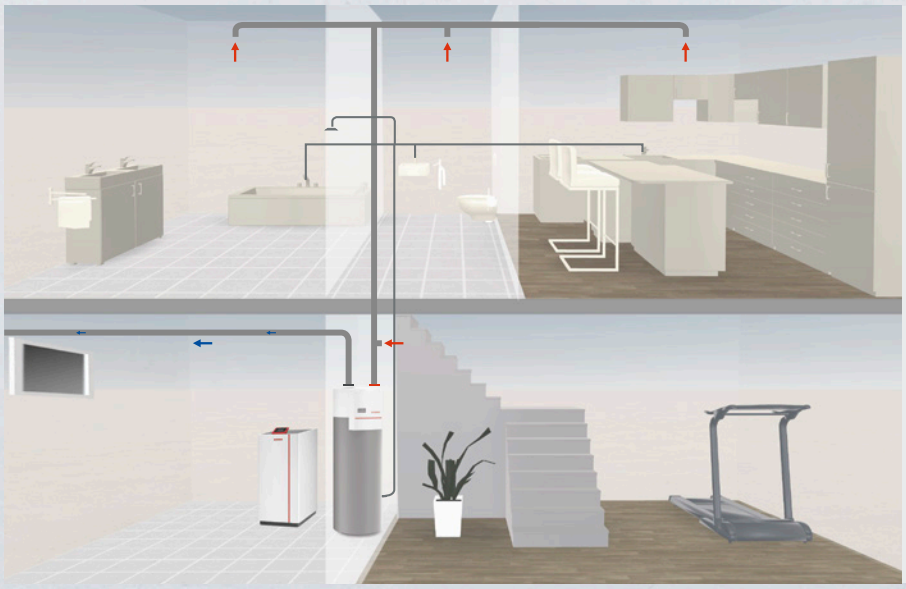
- Installation in a boiler room
- DHW heating using indoor air
- Additional benefit – cooling of pantries, storage rooms or wine cellars



EXAMPLE B

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

- Installation in a laundry room
- DHW heating using indoor air
- Additional benefits – laundry can be dried in the installation room; softened water for steam irons



EXAMPLE C

(Europa 333 Genius / mechanical ventilation as exhaust air system)

- Installation in a hobby room with a heating heat pump
- Heat recovery from exhaust air for DHW heating
- Additional benefit – mechanical ventilation (hygienic single duct system, DN 150 air duct up to 20 m possible). Extraction of the stale, moist air from wet rooms (bathroom, WC, kitchen). Intake of fresh air through adjustable wall vents into the living space and/or stairwell.

WWF

CLIMATE GROUP

WWF AUSTRIA AND COMPANIES FOR EFFECTIVE CLIMATE ACTION

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OCHSNER
HEAT PUMPS

OCHSNER Wärmepumpen GmbH Austria (Commercial register)
A-4020 Linz, Krackowizerstraße 4, kontakt@ochsner.at

Head Office/Factory
A-3350 Haag, Ochsner-Straße 1, tel.: +43 (0)5 042458
End customer hotline: +43 (0)820 201000, kontakt@ochsner.at

OCHSNER Wärmepumpen GmbH Germany
D-10719 Berlin, Kurfürstendamm 11
End customer hotline: +49 (0)1805 624763, kontakt@ochsner.de

OCHSNER Wärmepumpen GmbH Switzerland
CH-8001 Zurich, Uraniastrasse 18
End customer hotline: +41 (0)58 3204 180, kontakt@ochsner.com

OCHSNER East
PL 31-302 Kraków, ul. Pod Fortem Nr. 19
Tel: +48 (0)12 4214527, kontakt@ochsner.pl

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