HIGH-TECH HEAT PUMPS

Heating and cooling with energy from the environment

OCHSNER
HEAT PUMPS

OCHSNER
The company

Committed to progress

The OCHSNER Wärmepumpen GmbH was founded in 1978 and since the beginning has been characterised by energy consciousness, pioneer spirit and innovation. As one of the first manufacturers in Europe, OCHSNER began the first industrial production of heat pumps and is today internationally ranked as one of the technology leaders in the industry. Manufacturing takes place exclusively in Austria and Germany.

Ever more efficient heat pumps with the highest possible customer usage are the result of decades of experience, research and development.

A practically unlimited supply of stored solar energy is available in the ground, in water and in the air.

The economical use and conservation of non-renewable resources and the reduction of emissions has to be our common goal. OCHSNER had the vision of contributing to the solution of our communal national and global energy future by the use of environmental energy. By means of the optimum use of environmental warmth, OCHSNER heat pumps are the most economical and future-proof heating and active cooling systems for the user.

Strength from tradition

The original OCHSNER company was founded as early as 1872 in Silesia. The manufacturing program was limited at first to appliances and pumps.

From 1946 to 1992, the Linz factory was known for its technical achievements in the field of process pumps. Notable customers included international plant construction companies as well as the US-Navy and NASA.

Since 1992, Karl Ochsner and his team have been concentrating exclusively on the heat pump sector. He heads the company as Managing Director together with his son, Karl Jnr.

OCHSNER
The specialist

Convincing arguments

» INDEPENDENCE

» ECONOMY

» PROTECTION OF THE ENVIRONMENT

» FOR EVERY HEAT-DISTRIBUTION SYSTEM

» MAINTENANCE-FREE AND CLEAN

» SECURE INVESTMENT

The technology leader

- Quality for the highest demands

» QUALITY

The heating system is the technical heart of each and every building – it supplies it with warmth and must not fail. Thus, when buying a heat pump, no compromises should be made. Economy, operational safety and long life count the most.

» LEADERS IN HEATING SYSTEM RENOVATION

OCHSNER was the first manufacturer to introduce onto the market a heat pump range for every heat source, with a flow temperature to the heating system of 65°C as standard. Through this, existing heating systems with conventional radiators can also be operated.

» LEADERS IN HEAT SOURCES AIR AND GROUND

The OCHSNER Air-Split heat pumps have been holders of the efficiency world record for years, they are the most silent appliances on the market and ensure the lowest heating costs. OCHSNER achieves top values in energy efficiency for ground source heat as well.

» SEAL OF APPROVAL – CONFIRMED EFFICIENCY RECORDS

High-quality heat pumps are recognised by the European EHPA seal of approval. Only those heat pumps which have been tested under the strictest conditions by independent institutes are entitled to this approval.
Furthermore, OCHSNER is the first manufacturer to have received the D-A-CH heat pump seal of approval.
The test results from the heat pump testing centre in Buchs (Switzerland) are, by-the-way, available online at www.wpz.ch. Take a look for yourself.

» ADVANTAGE THROUGH TECHNOLOGY

OCHSNER's cutting-edge technology is the result of continuous intensive research and development work. The results of our own research laboratories, coupled with decades of practical experience are today offering solutions for tomorrow's demands.

OCHSNER
The heat pump

One system - for all applications

» HEATING AND COOLING

OCHSNER heat pumps are available if desired with the additional active cooling function. Here, a pleasant temperature regulation takes place with the aid of the heat pump's cooling circuit, draught-free and silently by means of the existing heat distribution system (e.g. wall heating, underfloor heating or special radiators)

» HEAT SYSTEM RENOVATION

Replace your existing boiler with an energy-saving and environmentally friendly OCHSNER heat pump: Even radiators up to 65°C flow temperature can be operated.

» HOT WATER HEATING (see page 19)

At OCHSNER you have the choice of deciding on the most economical system – heat your domestic hot water (DHW) independently from the heating system with an EUROPA-Series hot water heat pump – or together with your heating heat pump by means of an external DHW-storage tank.

The specialist - for every requirement

» COMPLETE PRODUCT RANGE

from 2 to 1000 kW rating

» EVERY HEAT SOURCE

water, earth brine/direct expansion and air

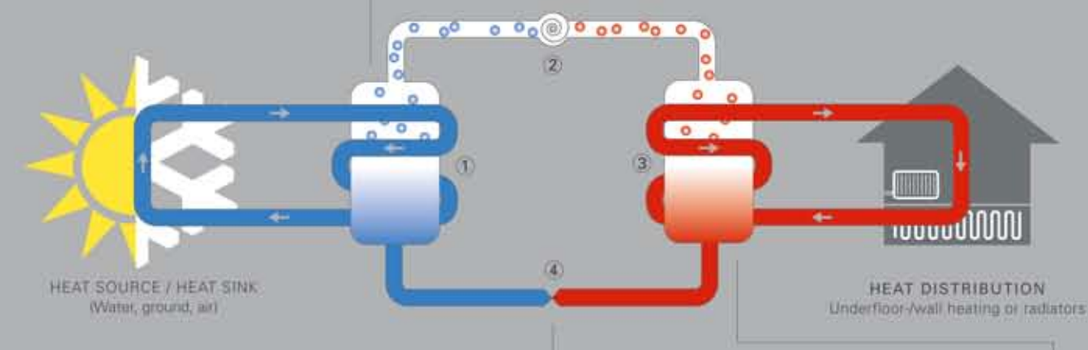
» THE SAFEST INVESTMENT

To invest in a high-quality heat pump system today not only guarantees high interest (= savings on operational costs), but also increases the value of your building. Safely and without risk.

The heat pump cycle

① EVAPORATION:
By means of a heat exchanger, the liquid refrigerant extracts energy from the heat source ground, water or air and evaporates with increasing temperature.

② COMPRESSION:
By the introduction of electrical energy, the now gaseous, but still cold refrigerant is compressed in a compressor and thus heated. The refrigerant leaves the compressor as so-called hot gas.



④ DECOMPRESSION:
The warm, fluid refrigerant is now transported to the expansion valve. In the expansion valve the pressure is abruptly reduced. The temperature of the refrigerant thus also falls abruptly, without any loss of energy. The cold, fluid refrigerant is then reintroduced into the evaporator and the cycle begins again.

③ LIQUEFYING / CONDENSING:
The hot gas now reaches the condenser, gives its energy up to the heating system, condenses, and leaves the condenser as warm, fluid refrigerant. Through this, the water in the heating system is heated to the desired temperature.

The heat pump as energy multiplier

OCHSNER heat pumps are also available with **a reversible refrigerant cycle**: with this, the heat from the building can be pumped out of the building to the "heat sink" and the house **actively cooled**. The OCHSNER OA-X2-system is used to obtain maximum efficiency.

A heat pump's **coefficient of performance (COP)** indicates how much useful energy is supplied from one unit of drive energy. A COP of 4 means that 4 kW heating energy can be produced with 1 kW of electricity. 3 kW are provided free-of-charge from the sun and the environment.

OCHSNER
The heat sources

» HEAT SOURCE WATER

Heating ratings from 9 to 91 kW

If ground water is available at a reasonable depth and in sufficient quantity, one can reach the highest seasonal performance factors. A constant temperature of 8 – 12°C guarantees an optimum heating operation.

Two wells are necessary for this: a **source well** and a **sink well**. The sink well should be located at least 15 metres from the source well in the direction of the ground water flow.

The amount of water necessary for 10 kW heating performance is around 2 m³ per hour. The availability is to be established by means of a continuous pump test. Certain limiting values for the contents of the water must not be exceeded or fallen below. Therefore, a water analysis is to be carried out. Approval from the water authorities is also necessary.

Water is also suitable as a heat sink for active or passive **cooling** of the building.

» GROUND HEAT – DIRECT EXPANSION

Heating ratings from 6 to 18 kW

The ground is a free-of-charge and abundant heat store and thus represents an ideal heat source.
Using **flat plate collectors**, stored solar energy is mainly used – constantly and completely independent of the time of day or night. If installed correctly, sufficient source energy is available even in the deepest of winters.

Using **direct expansion systems** (also known as direct evaporation), you can achieve the lowest operating costs of all known ground collector systems known today. They use up to 4/5 free environmental energy!

The chlorine-free and ozone-neutral refrigerant in the heat pump circuit extracts the heat direct from the ground by means of the double-walled, seamless tubes of the flat-plate collector (copper with PE-protective sheath) and then evaporates.

Only OCHSNER offers the direct evaporation ground heat system for **active cooling** operation as well: By reversing the refrigerant cycle, the ground becomes a heat sink and thus in summer additionally regenerated, i.e. "charged" with warmth.

» GROUND HEAT – BRINE

Heating ratings from 7 to 65 kW

Using this system, the ground heat is extracted by means of a brine secondary circuit and then transferred to the heat pump.

Brine ground collectors can be laid in three ways:

If the garden area is sufficient, flat-plate collectors are the least expensive solution. The area to be laid is dependent upon the type of construction and the insulation properties of the house as well as the composition of the soil.
As an alternative, **spirally formed deep-trench collectors** can be installed as they require somewhat less area.

Ground probes can also be inserted in the ground by means of deep drilling. These will normally be placed at around 100 metres depth each and are ideally suitable for buildings with little ground space. Approval from the water authorities is necessary.

During **active cooling operation** in summer, heat is "pumped" out of the living areas and into the ground by means of the existing heating system. In active cooling operation, the maximum cooling performance is fully available, even after week-long heat waves.

» HEAT SOURCE AIR

Heating ratings from 8 to 60 kW

If ground water or the ground itself are excluded as a heat source, it is also possible to call upon the outside air as a heat source. Air is available everywhere and in unlimited supply.

This system is also especially suitable for the renovation of heating systems in existing buildings, where retroactive installations in the ground are mostly undesirable or too costly.

Due to OCHSNER's technical innovation, the heat source air can be efficiently used, even at low outside temperatures. High operational safety and low noise levels characterise this product.

The use of ambient warmth is especially suitable for retrofitting or for bivalent-operation systems.

During **active cooling operation**, the warmth from inside the building is exhausted to the air by means of the external evaporator (for Air-Station® OLW-I internal) – which then becomes a condenser.

OCHSNER
Heat source air

Split-evaporator Millennium®

Air-Station® (External mounting)

Ambient warmth

The outside air is the ideal heat source if ground water or the ground itself are not available. Ambient warmth is solar energy and is especially suitable as a heat source for retrofitting or for bivalent operation systems.

Air heat pumps are available as **split-** or as **compact appliances**: With compact appliances, the air heat exchanger (evaporator), which extracts the warmth from the environment, is integrated into the heat pump. With split appliances, the air heat exchanger (super split-evaporator) is constructed as a separate unit and is connected to the heat pump by means of connecting pipework.

OCHSNER recommends the installation of split appliances, which are superior to compact appliances with respect to energy efficiency and noise development. (See pages 12 to 13)

» COMPACT SYSTEM:

Outside installation: The Air-Station® OLW-A version is designed to be installed in the open air. The construction guarantees weather resistance. Additional side cowlings provide increased noise and rain protection.

Inside installation: The Air-Station® OLW-I version is designed for internal installation and is used for new buildings. Suitably heat-insulated air ducting is to be provided when installing this type of heat pump.

PERFORMANCE RATINGS AIR COMPACT SYSTEMS

Heat pumps Air-Station® - heat source AIR

Nominal voltage			400 V						230 V	
Appliance type			OLW 9	OLW 12	OLW 18	OLW 9 plus	OLW 12 plus	OLW 18 plus	OLW 9 plus VX	OLW 12 plus VX
Max. flow temperature			55°C			65°C				
A2/W35	Heating rating	[kW]	7.1	10.7	14.3	8.1	11.1	16.2	7.8	11.3
	COP		3.6	3.7	3.6	3.7	3.8	3.9	3.5	3.6
L2/W50	Heating rating	[kW]	6.7	10.0	13.9	7.8	10.4	15.4	7.5	11.0
	COP		2.6	2.7	2.6	2.9	2.9	2.9	2.6	2.7
L7/W35	Heating rating	[kW]	8.4	12.8	17.2	9.5	13.3	18.8	9.2	13.1
	COP		4.2	4.3	4.2	4.3	4.4	4.4	4.0	4.1

The heating ratings relate to heat pump measurement data under standard conditions (heating performance/COP), taking into consideration the specified tolerances. The energy efficiency of the system and thus the operational costs lie in the realm of responsibility of the system installer. The heat pump heating systems are to be installed according to OCHSNER guidelines. No guarantee can be assumed for systems which have not been installed to these guidelines. OCHSNER therefore recommends trained OCHSNER system-partners for the heat pump installations. Even if systems have been installed according to OCHSNER guidelines, the efficiency values can deviate from the factory specifications, due to the fact that the latter are based upon standard conditions. Furthermore, user behaviour also plays a decisive role.

OCHSNER
No. 1 in tests

Cutting-edge technology in the new millennium

» THE SPLIT SYSTEM:

In this system, the **heat pump** installation takes place – protected from the weather – inside the building, the evaporator which absorbs the ambient warmth without losses, is installed in the open air. The advantages compared with the compact system: no air ducts, very quiet operation, long life and high economy.

The **split evaporator Millennium®** extracts the necessary amount of warmth from the outside air, whereby an optimised, automatic de-icing system keeps the evaporator, if required, ice-free without using much energy.

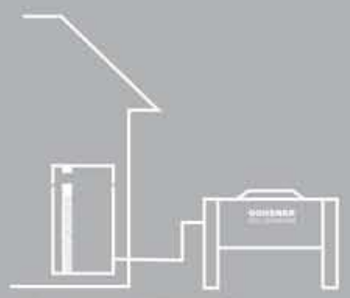
Due to the sizing and optimum appliance construction, a maximum of warmth is absorbed from the air. Even at extreme temperatures below zero. No other appliance on the market offers such large heat exchanger areas! Low-speed special fans provide whisper-quiet operation with the highest energy efficiency.

Moreover, a continuous evaporator performance adjustment is achieved by means of the fully modulating fan operation.

The connection of the externally installed evaporator to the internally installed condenser is very simply carried out by means of two insulated copper pipes and a wiring harness. These are normally laid under the surface of the ground in a duct and are thus, even retroactively (heating system renovation) installed without any problem.

» WORLD RECORD

The exclusive OVi- technology of the corresponding heat pump Golf plus (GMLW plus), together with the OCHSNER Millennium® split evaporator make possible a COP of 4.2 (peak value – measured at A2/W35 and 10 temperature differential in the heat pump centre at Buchs/Switzerland).



split-verdamper Millennium®

PERFORMANCE RATINGS AIR-SPLIT SYSTEMS - together with the split evaporator Millennium®

Heat pump Golf Maxi plus – heat source AIR

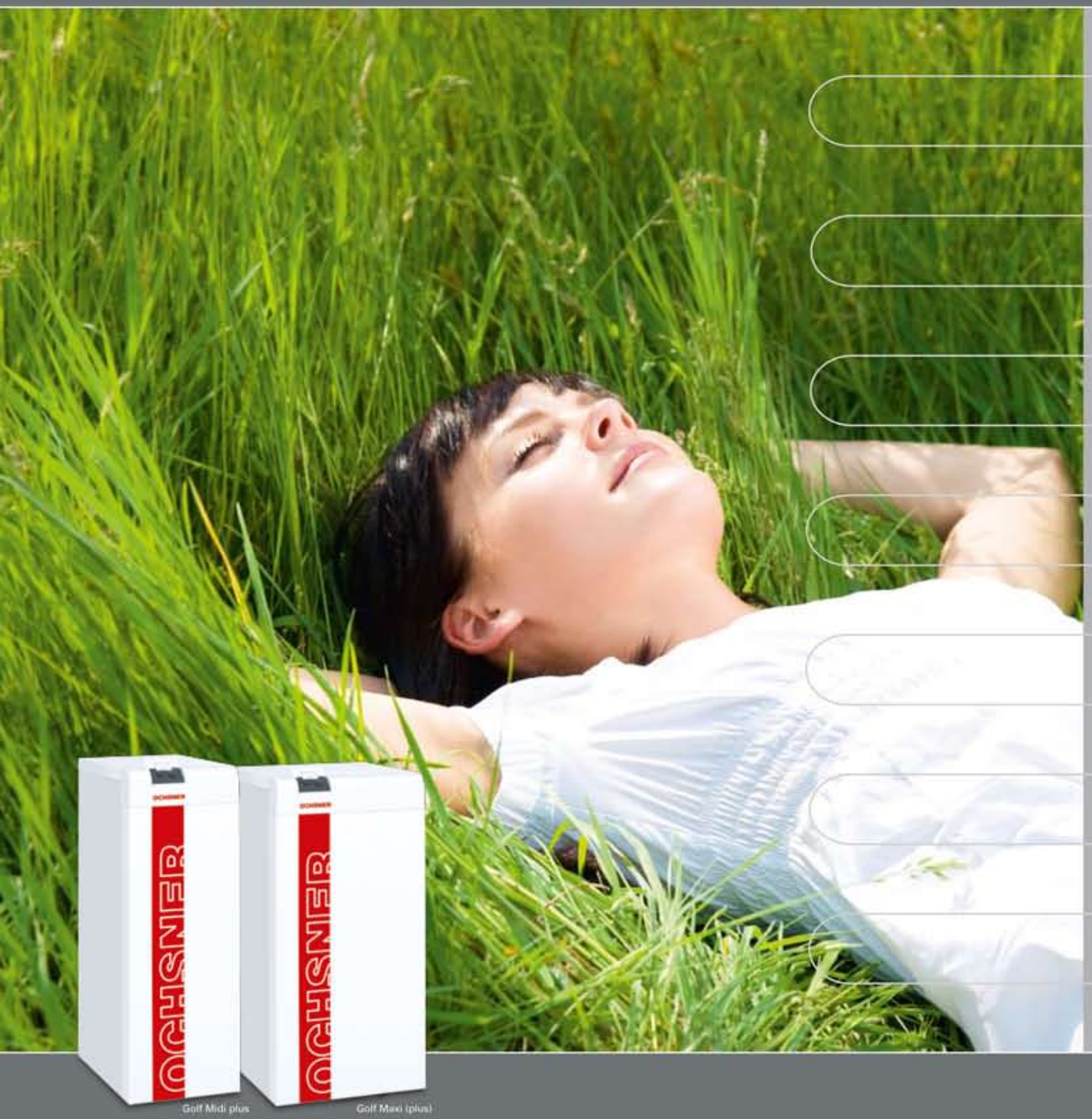
Nominal voltage			400 V					230 V	
Appliance type			GMLW 9 plus	GMLW 14 plus	GMLW 19 plus	GMLW 25 plus	GMLW 35 plus	GMLW 9 plus VX	GMLW 14 plus VX
Max. flow temperature			65°C						
A2/W35	Heating rating	[kW]	8.5	11.6	16.8	22.1	29.5	8.3	11.7
	COP		4.2	4.1	4.2	4.2	4.1	3.9	3.8
L2/W50	Heating rating	[kW]	8.1	10.7	15.9	19.7	27.0	8.0	10.7
	COP		3.0	2.9	3.0	2.9	2.8	2.7	2.5

Verwarmingswarmtepomp Golf Maxi (GMLW60 = Standard) - warmtebron LUCHT

Nominal voltage			400 V				230 V	
Appliance type			GMLW 9	GMLW 14	GMLW 19	GMLW 60	GMLW 14 VX	GMLW 19 VX
Max. flow temperature			55°C					
A2/W35	Heating rating	[kW]	8.5	12.7	17.0	60.1	11.8	14.4
	COP		4.2	4.0	4.0	3.9	3.8	3.9
L2/W50	Heating rating	[kW]	7.8	11.5	15.6	59.0	10.6	13.2
	COP		2.6	2.5	2.6	2.6	2.4	2.5

The heating ratings relate to heat pump measurement data under standard conditions (heating performance/COP), taking into consideration the specified tolerances.
Further references, see page 11.

OCHSNER
Ground heat



Golf Midi plus Golf Maxi (plus)

Heat source ground

Here, the solar energy and warmth stored in the earth is extracted and used by means of flat-plate collectors.
Depending on the heat carrier medium in the ground collector, a differentiation is made between the systems brine and direct expansion. In the **BRINE SYSTEM**, a water-antifreeze mixture circulates as the heat carrier medium in the collectors and absorbs the warmth from the ground to transport it to the heat pump.

In the **DIRECT EXPANSION SYSTEM**, the secondary brine circuit, consisting of circulation pump, heat exchanger and expansion vessel, can be dispensed with.
This leads to even higher operational safety due to less components, as well as better efficiencies. Flat-plate collectors are used as standard here.
A combination with CO2 deep-ground probes is also possible.

PERFORMANCE RATINGS

Heat pumps Golf Midi plus and Golf Maxi plus – heat source ground, direct heat extraction

Nominal voltage			400 V					230 V	
Appliance type			Golf Midi plus		Golf Maxi plus			Golf Midi plus	
			GMDW 8 plus	GMDW 11 plus	GMDW 13 plus	GMDW 15 plus	GMDW 18 plus	GMDW 8 plus VX	GMDW 11 plus VX
Max. flow temperature			65°C						
G4/W35	Heating rating	[kW]	8.8	12.3	14.5	17.7	21.2	8.9	12.4
	COP		5.5	5.6	5.6	5.7	5.6	5.2	5.4
E4/W50	Heating rating	[kW]	7.8	10.9	12.6	15.9	19.2	7.9	11.1
	COP		3.6	3.7	3.7	3.8	3.8	3.6	3.8

Heat pumps Golf Midi plus and Golf Maxi plus, Maxi, Standard, R – heat source ground BRINE

Nominal voltage			400 V									
Appliance type			Golf Midi plus		Golf Maxi plus				Golf Maxi		Standard		R
			GMSW 7 plus	GMSW 10 plus	GMSW 10 plus S	GMSW 12 plus	GMSW 15 plus	GMSW 17 plus	GMSW 28	GMSW 38	OSWP 56	OSWP 96	OSWP 96 R
Max. flow temperature			65°C						55°C				65°C
B0/W35	Heating rating	[kW]	7.2	10.2	11.1	12.2	14.7	16.8	19.8	28.8	39.9	65.4	40.7
	COP		4.8	4.9	5.3	4.9	4.9	4.9	4.5	4.5	4.0	4.1	3.8
S0/W50	Heating rating	[kW]	6.3	9.2	9.7	10.6	13.3	15.3	18.5	25.5	38.0	60.7	39.3
	COP		3.3	3.4	3.6	3.4	3.4	3.5	3.1	3.1	2.9	2.8	2.8

Nominal voltage			230 V			
Appliance type			Golf Midi plus		Golf Maxi	
			GMSW 7 plus VX	GMSW 10 plus VX	GMSW 15 VX	GMSW 18 VX
Max. flow temperature			65°C		55°C	
B0/W35	Heating rating	[kW]	6.6	9.6	11.0	15.7
	COP		4.4	4.4	4.4	4.5
S0/W50	Heating rating	[kW]	6.1	8.7	10.5	14.7
	COP		2.9	2.9	3.1	3.2

The heating ratings relate to heat pump measurement data under standard conditions (heating performance/COP), taking into consideration the specified tolerances.
Further references, see page 11.

OCHSNER
Heat source water

Heat source water

Using ground water as the heat source, heat pumps reach their **highest COPs**. Ground water has a more or less constant temperature between 8 and 12°C throughout the year. Thus, the temperature level, compared with other heat sources, must only be raised relatively slightly to be able to be used for heating purposes.

The use of ground water as heat source for the heat pump must be approved by the water authority. When applying for a permit, the well-driller, the drilling company or your OCHSNER system partner will be glad to be of assistance.

Several prerequisites must be fulfilled in order to be able to use ground water as a heat source:

- Sufficient quantities of water
- Water quality (analysis)
- Approval by the water authority
- Source and sink wells

PERFORMANCE RATINGS

Golf Midi plus and Golf Maxi plus, Maxi, Standard, R - heat pumps for heat source ground water.

Nominal voltage			400 V									
Appliance type			Golf Midi plus		Golf Maxi plus			Golf Maxi		Standard		R
			GMWW 10 plus	GMWW 13 plus	GMWW 15 plus	GMWW 19 plus	GMWW 23 plus	GMWW 28	GMWW 38	OWWP 56	OWWP 96	OWWP 96 R
Max. flow temperature			65°C					55°C				65°C
W10/W35	Heating rating	[kW]	9,7	13,6	15,4	19,1	22,8	26,8	37,6	54,4	91,4	56,6
	COP		6,1	6,2	6,2	6,2	6,2	5,7	5,7	5,5	5,5	5,2
W10/W50	Heating rating	[kW]	8,6	12,4	14,3	17,6	20,5	25,5	34,7	50,4	82,2	53,3
	COP		4,1	4,3	4,3	4,3	4,3	3,7	3,7	3,6	3,6	3,6
W10/W60	Heating rating	[kW]	8,1	11,6	13,1	16,5	19,2	-	-	-	-	51,6
	COP		3,1	3,2	3,1	3,2	3,2	-	-	-	-	2,8

Nominal voltage			230 V			
Appliance type			Golf Midi plus		Golf Maxi	
			GMWW 10 plus VX	GMWW 13 plus VX	GMWW 15 VX	GMWW 18 VX
Max. flow temperature			65°C		55°C	
W10/W35	Heating rating	[kW]	8,5	13,0	14,6	19,4
	COP		5,7	5,9	5,6	5,6
W10/W50	Heating rating	[kW]	8,0	11,7	11,5	18,0
	COP		3,8	3,9	3,7	3,7
W10/W60	Heating rating	[kW]	7,5	11,1	-	-
	COP		2,9	3,0	-	-

De prestatiegegevens zijn gebaseerd op de meetwaarden van de warmtepomp onder normvoorwaarden (warmtevermogen, rendement/COP) en binnen de opgegeven toleranties.
Meer informatie op pagina 11

OCHSNER
Compact systems

Combi Universal®
- unique compact solution

The Combi Universal® is the ideal solution for **heating, active cooling** and **hot water heating** when space is at a premium.
OCHSNER technology ensures a minimum of operating costs due to the lack of the electric heating rod normally needed in conventional compact heat pumps.

The **heating performance** of the Combi Universal® is **up to 13 kW** based on the OCHSNER Golf series.

With the Combi Universal®, OCHSNER is the only manufacturer offering a compact system

- for every heat source
- for heating, active cooling and hot water heating
- for surface heating (underfloor and wall heating) or radiators
- with a flow temperature of up to 65°C and a hot water temperature up to 52°C (150l stainless steel tank)
- with a modular construction for rapid and simple installation

Type overview (HS = Heat Source)

HS air	HS ground heat direct
GMLW 9 plus	GMDW 8 plus GMDW 11 plus
HS ground heat brine	**HS water**
GMSW 7 plus GMSW 10 plus	GMWW 10 plus GMWW 13 plus

Combi Universal®

OCHSNER
Hot water heating

Hot water heating
- around the clock

Use solar energy at any time of the day or night – in any weather!

For even more efficient hot water heating OCHSNER recommends the **hot water heat pumps** of the **EUROPA** series. The ideal alternative to solar systems and heating boilers! Highest efficiency at all times and in all weather conditions.

Exclusive to OCHSNER – the choice of hot water heat pumps as split appliances – for external storage tanks of up to 1,000 litres (large households, commercial use) – or as compact appliances with integrated 300-litre hot water tank.

The new hot water heat pump series EUROPA **is the only heat pump on the market offering the following decisive advantages:**

» LEADING TECHNOLOGY
Highest COP ever tested (**www.wpz.ch**)

» HIGHER WATER TEMPERATURE
A domestic hot water (DHW) temperature of up to 65°C in heat pump operation (without switching in the electrical heating rod) provides you a greater supply of hot water if needed.

» AIR/EXHAUST AIR OR GROUND HEAT
as heat source

» VENTILATION FUNCTION
possible with the Europa 313 model

The hot water heating can, if desired, also be carried out with the heating heat pump. In this case, the hot water is supplied from an external storage tank.
The heating regulator ensures that the hot water supply has priority at all times.

Europa Mini EWP

Europa 313

OCHSNER
Product overview

» HEAT PUMPS FOR HEATING AND COOLING

Golf MIDI plus

- Heat sources water, brine, direct ground expansion
- Heating, hot water heating
- Up to 13.2 kW heating rating
- Up to 65°C flow temperature
- Ideal for single- and multi-family houses with low heating requirements

Golf MAXI and Golf MAXI Plus

- Heat sources water, brine, direct ground expansion, air
- Heating, active cooling, hot water heating
- Up to 38 kW heating rating
- Plus appliances: up to 65°C flow temperature

STANDARD and R

- Heat sources water, brine, air
- Heating, active cooling, hot water heating
- Up to 91.4 kW heating rating
- Type R: up to 65°C flow temperature
- For buildings with high heating requirements

Air-Station®

- Compact heat pump, heat source air
- Heat pump and evaporator in one appliance
- Heating, active cooling, hot water heating
- Outside installation: Suitable for buildings without sufficient space inside the house
- Inside installation: Best suited for new buildings

Millennium® Single-Split evaporator

- High-performance evaporator for split heat pumps with heat source air
- Efficiency world record with officially attested results of testing
- Extremely quiet operation
- Fully modulating – via OTE-control rotational speed regulated EC-fan
- Leading design, highest quality materials

Millennium® Double-Split evaporator

- High-performance evaporator for split heat pumps with heat source air with higher performance
- Efficiency world record with official test results
- Extremely quiet operation
- Fully modulating – via OTE-control rotational speed regulated EC-fan
- Leading design, highest quality materials

» HOT WATER HEAT PUMPS

Europa 303 and 313

- Compact heat pump with integrated 300 litre storage tank
- Heat source air/exhaust air
- For up to 5 person households
- Up to 65°C hot water
- 303: Electronic thermostat control
- 313: Electronic Tiptronik-control with deicing function

Europa Mini IWP and Mini EWP

- Split heat pump for external storage tanks up to 500 litres
- For up to 5 person households
- IWP: Heat source air/exhaust air, up to 65°C hot water
- EWP: Heat source direct ground heat, up to 60°C hot water

Europa 500

- High-performance split appliance for external storage tanks up to 1000 litres
- For households and commercial use up to 2000 litres of hot water per day
- Heat source air/exhaust air
- Up to 52°C hot water

» COMPACT SYSTEM

Combi Universal®

- All heat sources
- Heating, active cooling, hot water heating in one appliance
- Up to 13.4 kW heating rating
- Up to 65°C flow temperature
- Ideal for low-energy houses, prefabricated houses and small houses with tight space and low hot water requirements
- 52°C hot water temperature without E-heating rod
- Rapid charging stainless steel storage tank

» HEAT PUMPS FOR LARGE BUILDINGS

Large-scale heat pumps

- Heat pumps for high ratings up to 1000 kW
- For large commercial, industrial und municipal buildings
- Heating, active cooling and hot water heating
- Up to 65°C flow temperature
- OVi-technology for highest efficiency
- Heat sources brine and water

OCHSNER
The control

A question of preference

With the new **O-TRONIC EASY PLUS**, OCHSNER is putting the emphasis on intelligent user friendliness when controlling your heat pump. Cutting-edge control technology provides you the highest comfort levels, maximum energy efficiency and the highest operational safety.

Most simple operation in dialogue process: The clear text display leads you safely through the menu.
Graphics depict the system in an easily understood manner.

Alongside special functions for the heat pump, the OTE-control can, if desired, regulate hot water heating, cooling operation and up to 16 user circuits (heating/cooling). Additional heat generators such as heating boilers (additional module) and solar systems are also controllable.

- Full-graphic, clear text display
- Simplest operation, even without a manual – only two buttons for operating with simple, logical menu structure.
- Room remote control with graphic display and integrated sensors for heating and cooling (optional)
- Simplest commissioning with commissioning assistant
- Maximum heat pump operational safety due to safety management
- Measurement of the heat quantity for determination according to the market incentive program possible
- Telecontrol engineering

OCHSNER
Specialised customer service

The OCHSNER customer service
- is always there for you

Our personal customer support does not end with the sale of a system.
You will continue to be supported competently and reliably by the OCHSNER customer service.

COMMISSIONING

Our specialised customer service will commission your OCHSNER heat pump system and instruct you on the system operation on site. Your new heat pump system will be adjusted to your individual requirements and conditions.

MAINTENANCE

The heat pump runs basically maintenance-free. However, we do recommend a regular check in order to ensure that the system is working under optimum operational conditions. This guarantees the lowest possible running costs and increases the life of the system.

ACCESSIBILITY

The OCHSNER specialist customer service is available to you on 365 days in the year – also on Sundays and Bank Holidays – area-wide in the main markets.

identity.co.at

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