

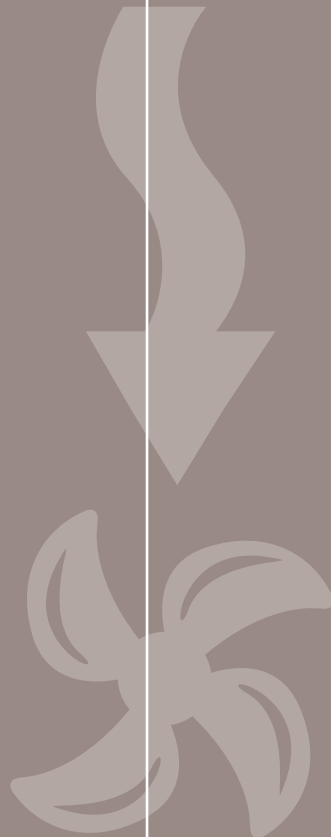


# HEAT SOURCE AIR

Autonomous heating with  
warmth from the air.

Comfortable warmth in winter,  
pleasant cooling in summer.

The new generation of air/water heat pumps  
provide for a pleasant climate all year round.



**OCHSNER**  
The Heat Pump Company

# OCHSNER Heat pumps

## 30 SUCCESSFUL YEARS

### OCHSNER Heat pumps – 30 successful years

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The OCHSNER Wärmepumpen Company was founded in 1978 and since the beginning has been characterised by its environmental orientation, pioneer spirit and innovation. As one of the first manufacturers in Europe, OCHSNER began the first industrial production of heat pumps and is internationally ranked today as one of the technology leaders in the industry. Ever more efficient heat pumps with the highest possible customer usage are the result of decades of research and development.

The full range of products for all heat sources cover every area and ranges from heat pumps for heating, also with heating/cooling function, through industrial large-scale heat pumps up to heat pumps for domestic hot water (DHW).

#### STRENGTH FROM TRADITION

The original OCHSNER company was founded in Silesia back in 1872. 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, the private company has been concentrating exclusively on the heat pump business and is run by Karl Ochsner Sr. and his son, Karl Ochsner Jr.

OCHSNER had the vision of being able to contribute to the future of our common national and global energy situation through the use of environmental energy. This also applies to the reduction of pollution and the conservation of finite resources.

#### ADVANTAGE THROUGH TECHNOLOGY

Heat pumps for the various systems are tested and measured in the OCHSNER testing laboratory under all operating conditions occurring in practice. The approvals take place according to the relevant international norms and quality guidelines.



Cutting-edge technical equipment give the scientific and technical personnel the opportunity of continuous product advancement and are the prerequisites of our technical advantage.

This specialisation, coupled with decades of experience guarantee the operator the highest possible operational safety and reliability.

# OCHSNER

## Air/water heat pumps

### HEATING WITH WARMTH FROM THE AIR

#### Pleasant living climate without great expense

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One can heat not only with ground heat or ground water heat. The outside air as well contains enough solar heat to be able to heat your house with environmental energy.

Based on decades of experience and intense research and development, OCHSNER has perfected the air/water heat pump and developed heat pump systems with which the highest COPs can be achieved with the heat source outside air.

#### UP TO 65°C FLOW TEMPERATURES: IDEAL FOR HEAT SYSTEM RENOVATION

By means of the newly developed high-temperature technology from OCHSNER, our air/water heat pumps of the "plus" generation can reach 65°C flow temperatures as standard, even at -16°C outside air temperatures. If necessary, an electrical heating element can temporarily support the heat pump at very low outside temperatures.

Thus, even conventional central heating systems with radiators are suitable for the installation of a heat pump.



#### INSTALLED WITH NO GREAT EXPENSE

Air/water heat pumps are especially suited for retrofitting into an existing house. No elaborate digging or drilling work is necessary, as is the case with ground heat source systems. Depending on the type of heat pump, only finger-sized boreholes for connecting the interior and exterior units are needed. No authority approvals at all are necessary!

#### PLEASANTLY COOL IN SUMMER

Your OCHSNER heat pump can, if desired, cool your house in summer with the lowest running costs, without an additional, complex and often loud air-conditioner!

The heat pump function is simply reversed, the air in the house is cooled and the surplus heat dispersed to the outside air. The pleasant cooling of the house takes place without draughts or noise via the existing heat distribution system (e.g. wall heating, under-floor heating or special radiators).

#### PROVEN QUALITY

We have our heat pumps tested and certified by independent testing laboratories, so that you can be sure of buying only the best quality. Our air/water heat pumps set standards and achieve record-breaking values that others can only wish for.

# OCHSNER Super-Split heat pump

## THE SUCCESS STORY

COP  
World Record  
**4,2\***

**Super-Split** – the top of its class

### THE SUCCESS STORY

The heat pump series "Golf" is the proven success story from the house of OCHSNER. Reliable state-of-the-art technology heats your house all year round. The type GMLW has been specially optimised to utilise warmth from the air.

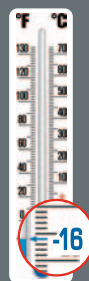
The series "Golf plus", with its standard flow temperatures of up to 65°C is the newest development and is thus not only for new buildings, but also ideally suitable for heat system renovation in existing dwellings.

Due to the split construction from OCHSNER, the installation of the heat pump takes place inside the house, thus being protected and holding its value



**NEW!**

Split-evaporator Millennium



Golf Maxi

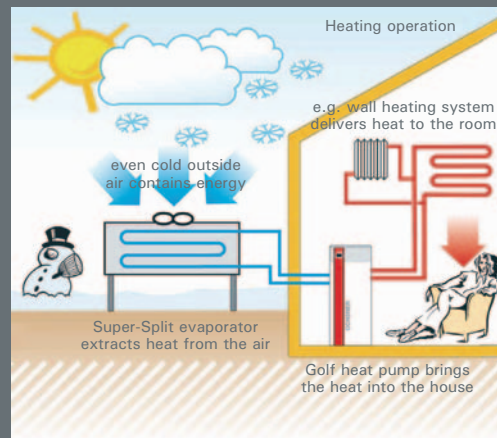
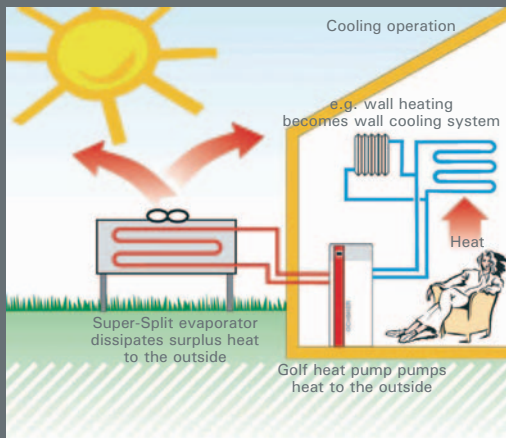
### THE SUPER-SPLIT EVAPORATOR

The Super-Split evaporator is installed outside, as close as possible to the house. It extracts the necessary heat from the outside air, an automatic de-frost mechanism keeping the evaporator free of ice.

Due to the ample sizing of the appliance, its construction and the low fan speed, a low-noise operation is ensured throughout the year and with highest efficiency. The Super-Split evaporator needs very little space. The distance to the house should not be more than 20 metres. Installation on the south side is ideal, as the sun's rays bring obvious advantages. The evaporator can, however, also be installed in any other free location, or on a flat roof.

\*) Measuring point: A2/W35 at 10K temperature difference.

## Super-Split heat pump — the master of efficiency\*



Split heat pumps have several advantages due to the separation of the evaporator and the heat pump itself. In contrast to conventional air/water heat pumps, the Super-split unit cannot freeze up during a power cut, and it has lower connection losses. Compared to a compact-inside installation, the air ducts and much more are unnecessary. A simple, clear and understandable concept that achieves high COPs and thus helps you to save heating costs.

### HOT WATER HEATING WITH THE HEAT PUMP

If desired, both the Golf Super-Split heat pump, as well as the Air-Station compact heat pump can be used to heat domestic hot water (DHW) by means of an external DHW storage tank. The O-Tronic control provides for sufficient hot water at the desired temperature – all year round and automatically.

A swimming pool can also be heated, thus extending the bathing season. If a DHW heater that is independent of the heating system is what is required, an OCHSNER hot-water heat pump of the "Europa" series can naturally be used. This uses preferably heat from exhaust air.

### THE ADVANTAGES OF THE OCHSNER SUPER-SPLIT HEAT PUMP AT A GLANCE

- safe and quiet operation due to reliable technology
- heating and cooling possible
- flow temperatures up to 65°C at -16°C outside temperature with Golf plus
- also suitable for radiator heating systems
- ideal for heating system renovation in existing buildings
- external evaporator installation without losses
- heat pump installed protected in the house
- only finger-sized pipework through external fabric of house
- no digging or drilling necessary
- high COPs, also at low outside temperatures

\* Efficiency world record 2006 and 2007, certified by the international testing centre Buchs.

# OCHSNER

## Compact heat pump

THE EFFICIENT ONE

### Air-Station – the compact air/water heat pump for internal or external installation

With the Air-Station, OCHSNER also offers a compact air/water heat pump in its product range.

High flow temperatures of up to 65°C at down to -16°C outside temperature are made possible by the new plus generation and the new injection technology. The Air-Station plus is thus ideal for heating system renovation. It is not only able to be used as an economic auxiliary heater in existing systems, but also as a complete substitute for your old furnace system. Heating costs can be considerably reduced in both cases. Save up to 50% with radiator heaters, with large-area heating systems even more!

The Air-Station plus is also suitable as an air-conditioning heat pump for heating and cooling. Your house can thus, when required, be cooled in summer – without an expensive and loud air-conditioner.

#### INSIDE INSTALLATION

The Air-Station OLW-I version is designed for inside installation and is used for new buildings. Professionally constructed, insulated air-ducting is to be provided. Large cross-sectional areas provide for high efficiency here as well.

#### OUTSIDE INSTALLATION

The Air-Station OLW-A version is designed for installation outside in free air. The specially coated construction guarantees its resistance to weather. Additional side-cladding gives further protection from noise and rain.

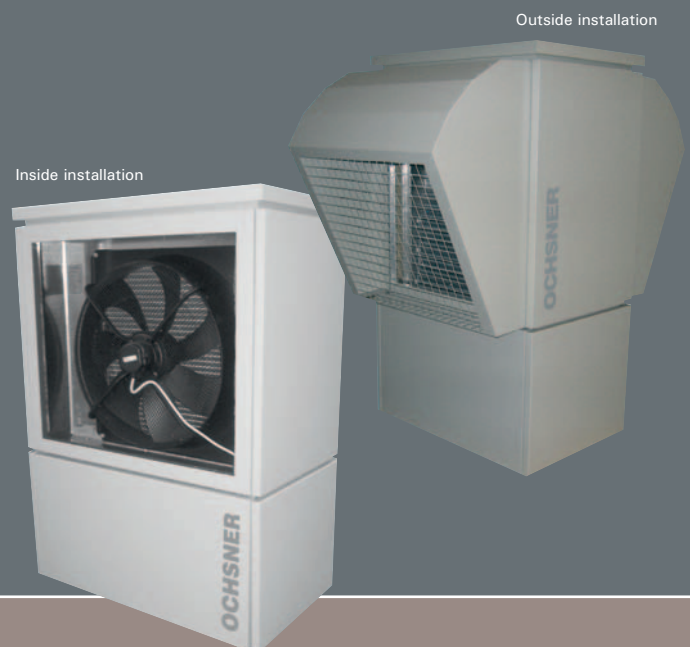
Great importance is attached to a specially quiet operation. This is achieved by means of suitable dimensioning, particularly slow-running fans and special noise-reducing cladding. Outside installation is of particular advantage in retrofit installations as no elaborate heat sourcing (e.g. digging/drilling) is involved.

#### INTELLIGENT CONTROL AND REGULATION

The special O-Tronic classic is a valuable internal climate manager with weather-dependent heating regulation, which can be used both for the air-split heat pump, as well as the compact heat pumps. A diagnostic display, as well as all the safety equipment, are integrated in the O-Tronic classic, which also controls the optimised hot-gas defrosting when required.

The O-Tronic is connected to the heat pump with a corresponding cable and can be mounted on the appliance, or on the wall.

OCHSNER achieves top COP values, even for compact installations (Testing centre Buchs).



# OCHSNER

## Air/Water Heat Pump

### TECHNICAL DATA

#### Golf Split and Super-Split

Heat pump Golf Split inside unit and Split outside unit		Golf Maxi 400 V			Golf Maxi 230 V		Golf Maxi plus 400 V					Golf Maxi plus 230 V	
Model		GMLW 9	GMLW 14	GMLW 19	GMLW 14 VX	GMLW 19 VX	GMLW 9 plus	GMLW 14 plus	GMLW 19 plus	GMLW 25 plus	GMLW 35 plus	GMLW 9 plus VX	GMLW 14 plus VX
Dimensions (HxWxD) inside unit	[mm]	← 1150x600x650 →											
Dimensions (HxWxD) outside unit Standard	[mm]	1242x1153x988		1242x1853x988	1242x1153x988	1242x1853x988	1242x1153x988			1242x1853x988		1242x1153x988	
Dimensions (HxWxD) outside unit Millennium	[mm]	1075x1294x965		1075x2228x965	1075x1294x965	1075x2228x965	1075x1294x965			1075x2228x965		1075x1294x965	
Heating capacity A2/W35	[kW]	8,5	12,7	17,0	11,8	14,4	8,6	11,7	16,8	22,1	29,5	8,4	11,7
COP A2/W35		4,2	4,0	4,0	3,8	3,9	4,2	4,1	4,2	4,2	4,1	3,9	3,8
Heating capacity A2/W50	[kW]	7,8	11,5	15,6	10,6	13,2	8,1	10,7	15,9	19,7	27,0	8,0	10,7
max. flow temperature	[°C]	+55	+55	+55	+55	+55	<b>+65</b>	<b>+65</b>	<b>+65</b>	<b>+65</b>	<b>+65</b>	<b>+65</b>	<b>+65</b>
Weight inside unit	[kg]	120	130	143	130	143	124	135	148	160	164	124	135
Weight outside unit Standard / Millennium	[kg]	94/93	94/93	126/136	94/93	126/136	94/93	94/93	126/136	141/164	159/169	94/93	94/93

#### Air-Station and Air-Station plus (400 V)

Type		OLW 9	OLW 12	OLW 16	OLW 18	OLW 12 plus	OLW 18 plus	
Heating capacity A2/W35	[kW]	7,1	10,7	12,9	14,3	11,1	16,2	
COP A2/W35		3,4	3,5	3,5	3,4	3,6	3,7	
Heating capacity A2/W50	[kW]	6,7	10,0	12,5	13,9	10,4	15,4	
max. flow temperature	[°C]	+55	+55	+55	+55	<b>+65</b>	<b>+65</b>	
Dimensions (HxWxD)	[mm]	1700x990x710			1700x1220x710		1700x990x710	1700x1220x710
Weight	[kg]	165	185	219	222	185	222	

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