

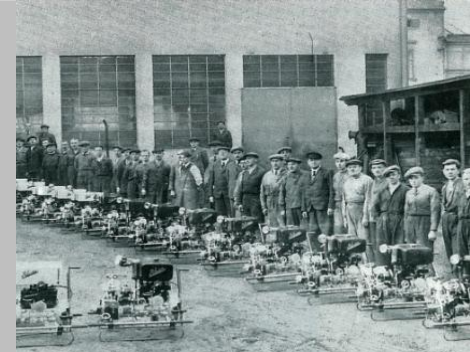


**WELCOME TO OCHSNER**

# OCHSNER today

## Power by tradition

- » OCHSNER was founded in 1872
- » 1946 to 1992 process pumps for industrial construction
- » 1978 foundation of “**OCHSNER Heat Pumps**”  
**experience with heat pumps for over 30 years**
- » exclusively heat pumps since 1992
- » Karl OCHSNER, Dipl.-Ing. ETH, with  
Karl OCHSNER jr.
- » OCHSNER is technology leader and belongs to the  
established producers in the European branch
- » key market EU



# The Company

## OCHSNER means

- » **33 year experience** in production of heat pumps
- » reliable as **exclusive heat pump producer** with more than 100.000 machines in field
- » **technology-leader**
- » **specialist for heat pumps**
- » **full product range**

# Austrian State Award 2010

## Environmental and energy technology



# Austrian State Award

As a product of the Austrian state award in 2010 OCHSNER has submitted the new developed **MILLENNIUM evaporators** for air-source heat pumps.

This evaporator was setting standards for air-source heat pumps in terms of efficiency and design.

The following factors distinguish him over existing evaporators:

- Further increase in efficiency air-source heat pumps with unprecedented performance figure
- Officially by heat pumps test centre measured COP of 4.4 at L2/W35 (world record)
- Greater energy savings with an air heat pump
- Reduction of noise due to new technology and fan speed control of fan
- Huge potential for energy savings in the heating system renovation
- Innovative Design

# New products 2011



## Top Pump

- » Technological breakthrough
- » Industrial heat pump air-split till 300 kW
- » Demonstrates technology leadership in air-split segment again

# New products 2011



## Growth engine heat pumps

- » The better solar system
- » **ehpa-quality seal:** worldwide FIRST and ONLY manufacturer with ehpa-quality label for domestic hot water heat pumps (Europa 313 DK)
- » World record: **GMLW14 plus Split air/water** measuring Buchs  $\epsilon$  (L2/W35) = 4,7





# References

## Industrial Heat Pumps

# Success story of industrial heat pumps



Und viele weitere mehr...

# IKEA Berlin (Germany)

## IKEA Lichtenberg (Germany)

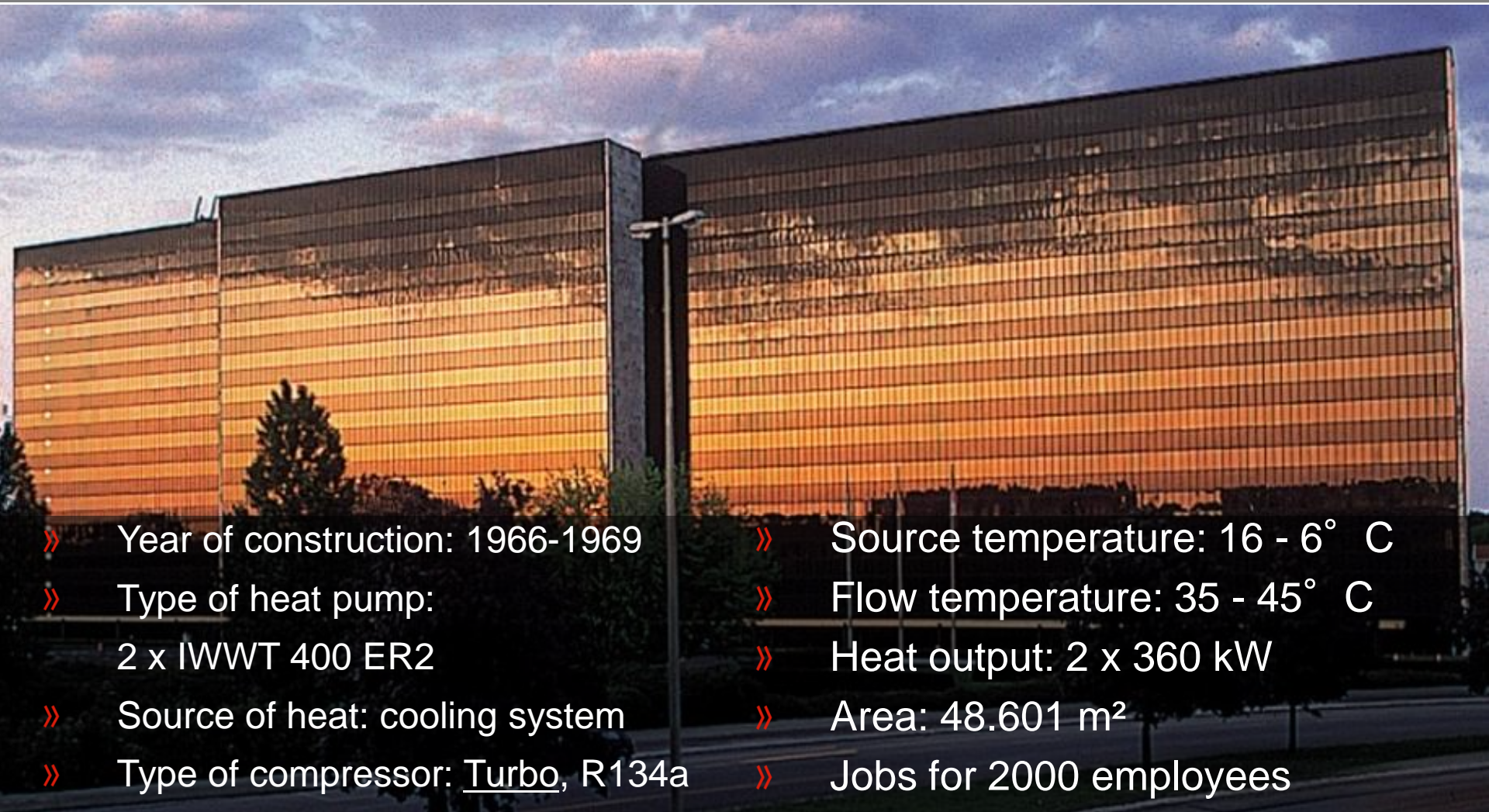
**Commissioning:** 2011  
**Source of heat:** sewage pressure system  
**Type of heat pump:** 3 x IWWS520ER2  
**Type of compressor:** screw, R134a  
**Source temperature:** 10° C  
**Flow temperature:** 40° C  
**Heat output:** 3 x 500 kW



IKEA invests in its new energy-saving house around 70 Mio. Euros. The technical innovations, including 3 industrial heat pumps of OCHSNER, mean a saving of approximately 1.270 tons of CO2 a year.



# Vattenfall Hamburg



- » Year of construction: 1966-1969
- » Type of heat pump:  
2 x IWWT 400 ER2
- » Source of heat: cooling system
- » Type of compressor: Turbo, R134a

- » Source temperature: 16 - 6° C
- » Flow temperature: 35 - 45° C
- » Heat output: 2 x 360 kW
- » Area: 48.601 m<sup>2</sup>
- » Jobs for 2000 employees



Thank you for your attention!