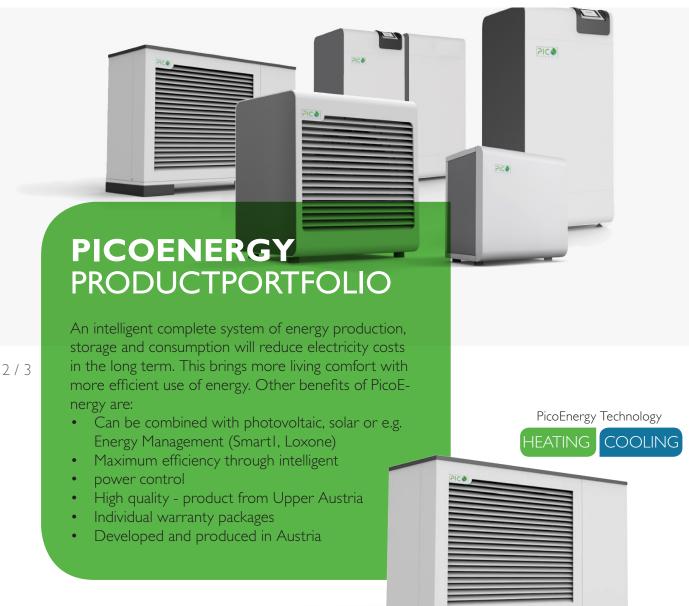




# YOUR ENERGY OFTOMORROW WELL MANAGED





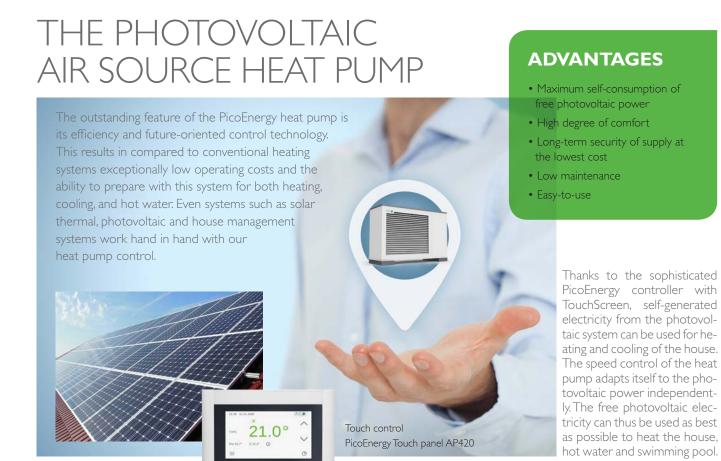
DR. HANNES F. JAKOB, MBA
MANAGING DIRECTOR PICOENERGY GMBH & CO KG

"Our exclusive partners throughout Europe appreciate the excellent quality from Austria and the high efficiency of our products, as well as our support and online service - ensuring a perfect installation and commissioning and a smooth operation for our customers."

## HOW THE PICOENERGY HEAT PUMP WORKS



"A heat pump uses solar energy stored in the air. This energy is available at any time, day or night, summer or winter. In the case of air source heat pumps, it is important, on the one hand, that they are designed for our latitudes (cold climate) in order to ensure maximum efficiency and, on the other hand, to ensure the lowest possible sound emission. Our heat pumps have been optimized for these criteria. The use of the PicoEnergy air source heat pump does not require any excavation work in your garden, only a little space for installation.



#### INTELLIGENT POWER CONTROL



The PicoEnergy Power Inverter is a true innovation in the field of heat pump technology. The principle is very simple:

The inverter adjusts the energy used to the actual needs of your home. The efficiency is thereby improved by approximately 20% and the life span of the compressor is prolonged due to significantly less switch-on cycles.

### NEW INJECTION TECHNOLOGY



Due to the constantly changing parameters of an inverter heat pump, special attention must be paid to the overheating control. The absolutely new, model-based control is a product of years of experience. Proactive reactances are made to future speed changes and therefore the efficiency of the heat pump is maximized.

### **SMART GRID**



PicoEnergy heat pumps are already "Smart Grid Ready" today. With this function, you can use the cost savings of future electricity networks. In times where generally less power is consumed, electricity is also cheaper. Therefore the operating time of the heat pump should be shifted to this period. This is fully automated by PicoEnergy's intelligent control system.

#### INTERNET INSIDE



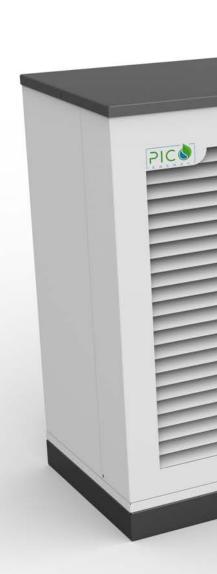
All PicoEnergy heat pumps are already equipped with the future technology of "Internet Inside". This allows you as a customer to control your heat pump from your mobile phone, tablet or PC. If the heat pump is no longer working optimally, the heat pump automatically signals the problem to your selected heat pump installer. Via "Internet Inside", these adjustments can be made to the control settings, without having to be on site. This saves your time and money.

#### INTEGRATION OF EXTERNAL SYSTEMS



The integration of a photovoltaic system, solar system or house management system are possible thanks to the intelligent control of the PicoEnergy heat pump.

Photovoltaic integration can use the self-generated electricity for space heating as well as hot water preparation, preferably for own consumption. Feeding your own PV electricity to the grid will only occur when the hot water storage tank is charged and the house is comfortably warm.



## TOP SYSTEM CONCEPT

The best heat pump is only as good as the designed system concept. PicoEnergy is always optimally oriented to this development!

This results in heating systems with maximum efficiency, which is permanently tested and confirmed by independent authorized testing institutes.

NEW REFRIGERANT R452B

### **ADVANTAGES**

- Intelligent power control
- Maximum efficiency of heat pump systems
- High innovative power also in the field of control technology
  - Inverter technology
  - Latest overheating control
  - PV Self-consumption optimization
  - Advanced "Smart Grid" functionality
  - External systems can be integrated
  - LAN interface in each heat pump
  - Easy to use touch screen technology

### HOW TO SIMPLY AND EFFICIENT-LY INTERCONNECT YOUR LIFE

Due to "Internet Inside" PicoEnergy heat pumps have been able to use current developments for some years. The advantages of digital networking are obvious. Maintenance and error

Diagnosis can be carried out quickly and easily via full remote control. Travel costs and time are eliminated. You can also control your heating system from anywhere in the world:

Whether smartphone, tablet or voice control - use all the possibilities to manage your room temperatures.



## INDIVIDUAL WARRANTY EXTENSIONS

Benefit from a specialist in geothermal energy with modern heat pump technology. PicoEnergy heat pumps are the product of over 35 years experience in heat pumps and a cooperation in the field of control technology with the global company KEBA.

Due to the high quality standards, it is easy for us to offer extended warranties.



It can be chosen between

### 3, 5 or 10 years Warranty-Extension

on all Materials.\*

<sup>\*</sup> Prices according to valid PicoEnergy price list and valid warranty conditions

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Technical	Air/Water-Heat Pumps			
Specifications	Models	WPLC 412	WPLC 618	
Power Range [kW]		2-12 kW	4-17 kW	
Energy Class VL35 °C		A++ (*A+++)	A++ (*A+++)	
Energy Class VL55 °C		A++	A++	
Dimensions H x W x D [mm]		1040 × 1560 × 560	1205 × 1745 × 628	
Weight [kg]		220	267	
Refrigerant		R452b		
Sound power level acc. EN12102 [dB(A)]		45.0	47.0	
Sound level add. for low-frequency noise characteristics Lz [dB]		0		
Fuse main current [A]		3 x C16		
Fuse controller [A]		I x CI3		
Hydraulic connection [inch]		I" External thread		
Max. Flow temperature [°C]		up to 62°C		

### PERFORMANCE DATA ACCORDING EN 14825

	SCOP 35 °C	4,95	4,92
Climate : average (ambient temperature = 2°C)	n s 35 °C [%]	195	194
(ambient temperature 2 c)	SCOP 55 °C	3,82	3,78
	η s 55 °C [%]	150	148
PERFORMANCE DATA ACCORDIN	NG EN14511		
A7/W35 at 33% Heating output	Heating output [kW]	4,78	7,16
	Power consumption [kW]	0,92	1,43
	Coeff. of perf. [COP]	5,18	4,99
	Heating output [kW]	5,41	8,09
A7/W55 - 8K at 40% Heating output	Power consumption [kW]	1,69	2,64
at 10/61 leating output	Coeff. of perf. [COP]	3,20	3,07
	Heating output [kW]	6,56	8,95
A2/W35 at 52% Heating output	Power consumption [kW]	1,44	2,08
A2/W35 at 100% Heating output	Coeff. of perf. [COP]	4,56	4,31
	Heating output [kW]	11,79	17,18
	Power consumption [kW]	3,07	4,58
A-7/W35 at 88% Heating output	Coeff. of perf. [COP]	3,84	3,75
	Heating output [kW]	8,02	14,01
	Power consumption [kW]	2,48	3,84
A-7/W52 at 100% Heating output	Coeff. of perf. [COP]	3,24	3,13
	Heating output [kW]	8,96	13,42
	Power consumption [kW]	3,66	5,69
A-10/W35 at 100% Heating output	Coeff. of perf. [COP]	2,45	2,30
	Heating output [kW]	8,23	12,21
	Power consumption [kW]	2,63	4,04
	Coeff. of perf. [COP]	3,12	3,02
Minimum power output A2/W35	Heating output [kW]	3,50	6,50
Minimum power output A2/W55	Heating output [kW]	6,00	9,00





Distribution Partner

Please request our current brochures without obligation:



Brochure URBANECO Heat pump, 2-6 kW



Brochure RURALECO Heat pump, 4-18 kW



Brochure ECOAIR Heat pump, 4-34kW