



caring for the environment



GAHP-A INDOOR



The ideal solution for the PLANT ROOM

Absorption heat pump
powered by natural gas and air-source renewable energy



For high efficiency heating and domestic hot water production.

Condensing and modulating absorption heat pump powered by natural gas and **air-source renewable energy**

GAHP-A INDOOR

GAHP-A INDOOR is a unique, high value and state-of-the-art solution compliant with the current and future regulations in terms of **efficiency, energy saving and renewable energy use.**

It is the ideal solution **for the plant room of detached and semi-detached houses or for central heating systems** and it could be a smarter choice than solar systems.

It is suitable for existing buildings and **for retrofitting heating systems** also with high temperature (radiators) distribution systems.



**THE IDEAL SOLUTION USING
RENEWABLE ENERGY
FOR THE PLANT ROOM**

renewable
39%
energy

heating
164%
efficiency

up to
40%
cost saving

ELIGIBLE

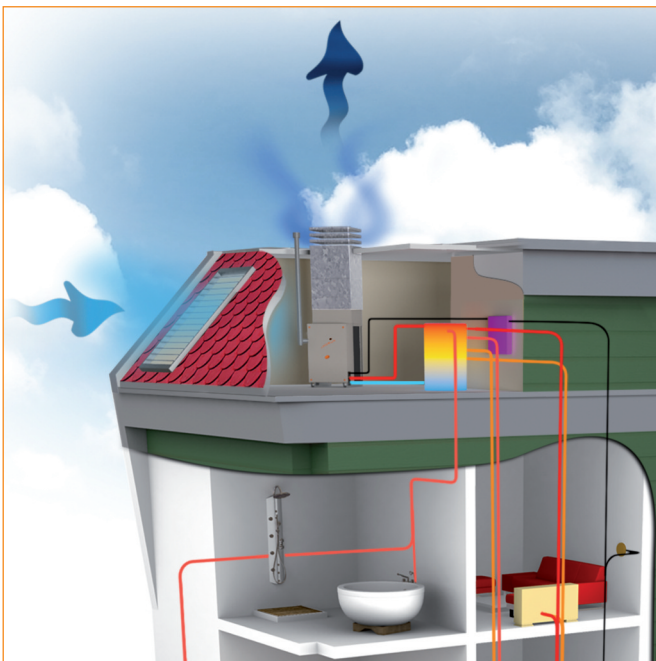
for national and local
incentive programs
all over Europe

THE BENEFITS:

ENVIRONMENTALLY FRIENDLY, EFFICIENT, COST-EFFECTIVE

- GAHP-A INDOOR can be installed in the existing plant room and **can facilitate correct installation**, thanks to the ductwork mounted on the unit.
- It exceeds peak efficiency of **164%⁽¹⁾ thanks to the use of air-source renewable energy**. It ensures high efficiency levels also at low temperature, thus avoiding activating back-up systems (boiler and electrical heaters) which reduce the seasonal performance coefficients and hence increase consumption.
- **It provides up to 40% of running cost savings** if compared with the best condensing boilers.
- It's **eligible for national and local incentive programs** all over Europe.
- It represents **the most profitable investment to increase the value of the building and its energy performance rating**.
- **It's environmentally friendly**: every year 4.4 Tons of CO₂ emissions are saved, which are equivalent to those absorbed by 604 trees or those produced by 2 green cars. Every year 2 Tons of Oil Equivalent are saved in comparison with a boiler.

⁽¹⁾ G.U.E. - Gas Utilization Efficiency - equivalent to COP 4.10 based on energy conversion factor of 2.5.



HEATING OPERATION MODE ⁽¹⁾

Working point A7/W35	G.U.E. gas utilization efficiency ⁽²⁾	%	164
	heating capacity	kW	41.3
Working point A7/W50	G.U.E. gas utilization efficiency	%	152
	heating capacity	kW	38.3
Nominal water flow rate ($\Delta T = 10\text{ }^{\circ}\text{C}$)		m ³ /h	3.0
Nominal water pressure loss (outlet water at 50 °C)		kPa	43
Maximum outlet water temperature heating/ DHW		°C	65/70
Maximum inlet water temperature heating/ DHW		°C	55/60
Outdoor operating temperature (dry bulb)	max	°C	40
	min	°C	-15

BURNER CHARACTERISTICS

Thermal input (actual)		kW	25.2
Gas consumption (actual)	natural gas G20 ⁽³⁾	m ³ /h	2.67
	LPG G30/G31 ⁽⁴⁾	kg/h	1.99/1.96

ELECTRICAL CHARACTERISTICS

Voltage		230V-50Hz	
Nominal electrical power ⁽⁵⁾⁽⁶⁾	max speed fan	kW	0.93
	min speed fan	kW	0.56

INSTALLATION DETAILS

Operational weight		kg	405
Sound pressure Lp at 5 metres ⁽⁶⁾⁽⁷⁾ free field, at the front, direction factor 2	max speed fan	dB(A)	53.3
	min speed fan ⁽⁸⁾	dB(A)	50.3
Connections	water	" F	1 1/4
	gas	" F	3/4
	exhaust flue pipe	mm	80
Electrical degree of protection		IP	X5D

⁽¹⁾ Nominal conditions according to EN 12309-2.⁽²⁾ Equivalent to COP 4.10 on energy conversion factor of 2.5.⁽³⁾ NCV 34.02 MJ/m³ (9.45 kWh/m³) at 15 °C - 1013 mbar.⁽⁴⁾ NCV 46.34 MJ/kg (12.87 kWh/kg) at 15 °C - 1013 mbar.⁽⁵⁾ ± 10% depending on the power supply voltage and on the tolerance of the electrical motors power consumption.⁽⁶⁾ High efficiency modulating fan for lower noise emission; sound-insulated oil pump.⁽⁷⁾ Sound power Lw with max speed fan dB(A) 75.3 and min speed fan dB(A) 72.3: data measured according to EN ISO 9614.⁽⁸⁾ Sound pressure data at partial load by suppliers.

For information please refer to the installation manual. Pdf download www.robur.com

Due to continuous product innovation and development, Robur reserves the right to change the product specifications without prior notice. Please refer to www.robur.com

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