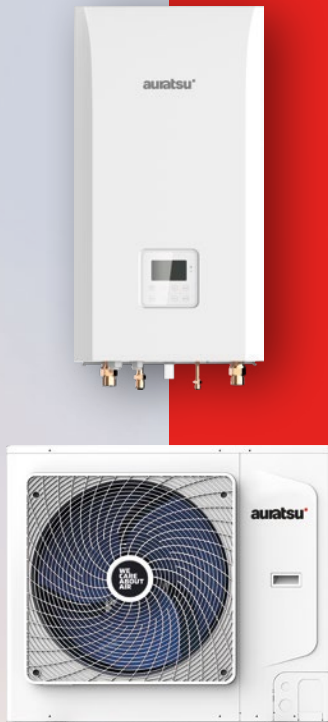


# auratsu<sup>®</sup>

## Heat pumps

AIR TO WATER

Environmentally-friendly,  
energy-efficient  
and highly reliable



Wi-Fi  
STANDARD



**WE  
CARE  
ABOUT  
AIR**



INSTALLATION EXAMPLE

Heat pumps extract free energy from the air and use it to heat or cool the building or prepare domestic hot water. Anyone can benefit from this inexpensive, environmentally friendly and maintenance-free heat source.

Making the best use of state-of-the-art technology, Auratsu heat pumps operate over a broad range of outdoor temperatures and achieve high temperature performance for both the heating system and domestic hot water. The absence of harmful emissions into the environment, the safety of use and their

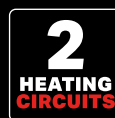
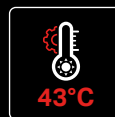
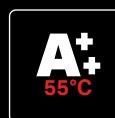
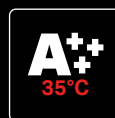
maintenance-free operation make Auratsu heat pumps perfect for anyone building a house and replacing or upgrading an existing heat source. Auratsu heat pumps are suitable for single-family, multi-family and commercial buildings.



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# R32



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# Highly reliable, environmental-ly-friendly and energy-efficient heat pumps that provide year-round user functionality and comfort

Auratsu heat pumps can heat a building and produce domestic hot water while operating in conjunction with conventional heat sources and solar panels.



Mobile application



High efficiency



Wide range of temperatures



Timer 24h



Multilingual menu



Rapid heating DHW



Freeze protection



Pre-heating



Holiday mode



Operates in conjunction with conventional heat sources



Weekly calendar



Can be coupled with PV modules



# Out of concern for the **environment**

## Smart inverter compressor

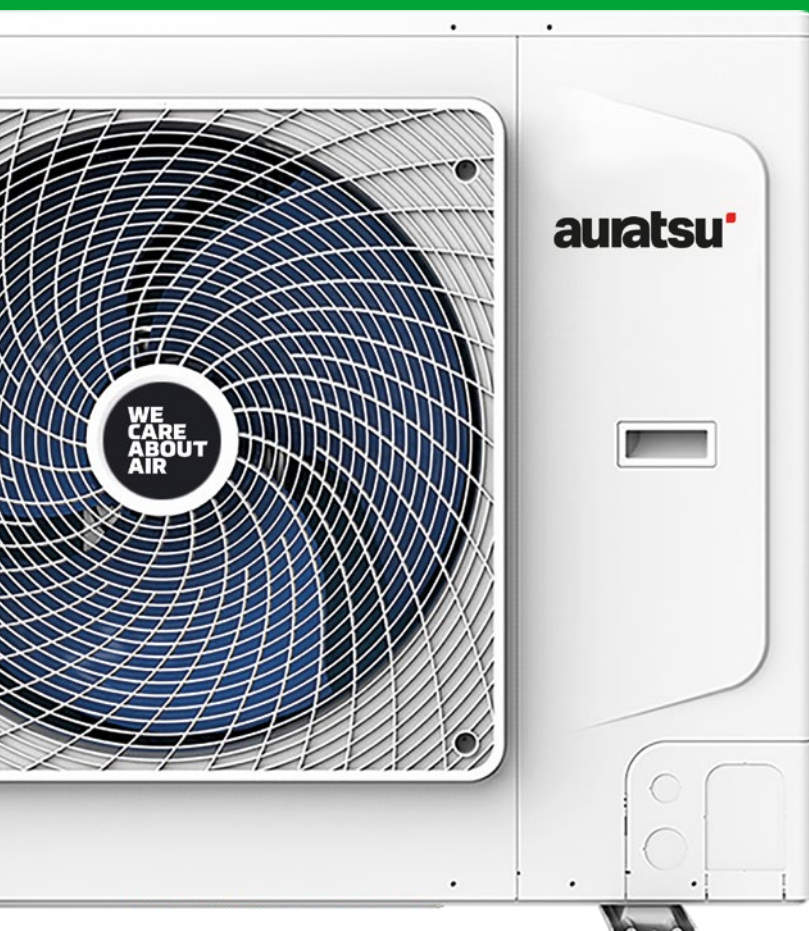
The heat pump automatically adjusts its performance to the existing conditions (depending on the frequency modulation of the compressor). This ensures the optimum temperature control of the outlet water and the elimination of compressor frequency fluctuations, contributing to the heat pump's higher energy efficiency.



# R32

## Environmentally-friendly refrigerant

The eco-friendly R32 refrigerant used in Auratsu heat pumps has one of the lowest GWPs of any refrigerants available (675) and, thanks to its zero ODP (Ozone Depletion Potential), it does not cause damage to the ozone layer.



## ECO mode

The activation of the ECO mode allows the selection of one of the eight outlet water temperature settings depending on the ambient temperature, ensuring the system's energy-efficient and highly-functional operation.



# Energy-efficient solutions



## Low operating costs

Auratsu heat pumps reduce the running costs of a building to a considerable degree. This significant reduction applies to both the costs of heating the rooms and domestic hot water, as well as regular maintenance costs.



## Reduced CO<sub>2</sub> emissions

Auratsu heat pumps are a perfect alternative to gas-fired, coal-fired and pellet boilers. They produce no smoke, which helps to reduce CO<sub>2</sub> emissions into the atmosphere.



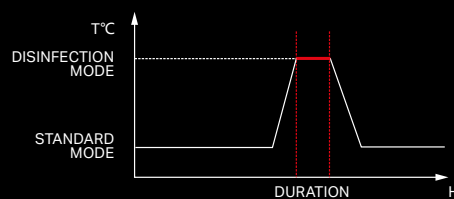
## The highest energy efficiency rating

Auratsu heat pumps have the highest seasonal energy efficiency rating of A+++ and the Seasonal Coefficient of Performance (SCOP) of up to 5.22 in heating mode.

# Safe functioning

## Disinfection function

Water can be heated up to 65°C, with a disinfection rate of up to 99.99%.

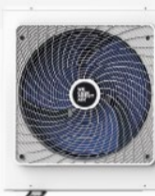


HEAT PUMP AIR TO WATER

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## Meet the Auratsu

Environmentally-friendly, energy-efficient and highly reliable



## Why Auratsu

The most optimal



# Excellent **reliability**

## **Stable functioning over a wide temperature range**

Reliability over a wide range of outdoor air temperatures, even in temperatures as low as -25°C. A wide operating range of water temperatures.



## Simple **operation**



### **Intuitive control**

The unit can be controlled remotely via Wi-Fi thanks to a convenient mobile app.



### **Holiday mode**

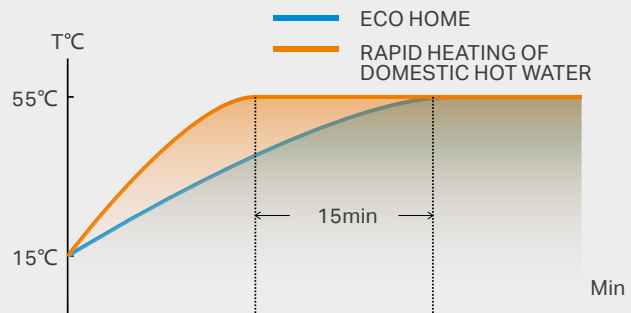
Selecting the holiday mode before departure will put the unit on minimum energy consumption while protecting the entire system from freezing.



# Enhanced **functionality**

## Rapid heating of domestic hot water

By selecting the function of rapid heating of domestic hot water, it is possible to achieve the desired outlet water temperature much faster. By way of example, approximately 15 minutes are saved when increasing the water's temperature from 15°C to 55°C.

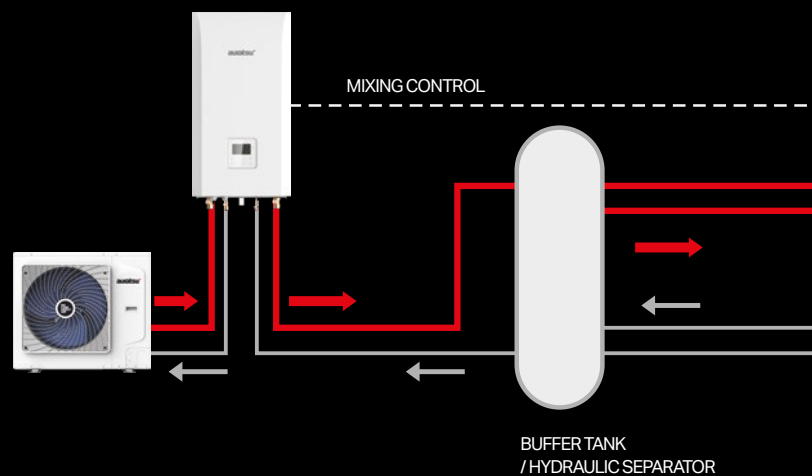


## Weather control

The built-in weather control system automatically adjusts the outlet water temperature according to external conditions using the pre-set or custom heating curves. This particular solution guarantees stable thermal comfort inside the home.

## Control of two heating circuits

The unit's automatic system controls the water temperature while adjusting the operation of the mixer pump and the valve position. The control of two heating circuits enables the handling of circuits with different supply water temperatures, which ensures comfort and convenience for the users.



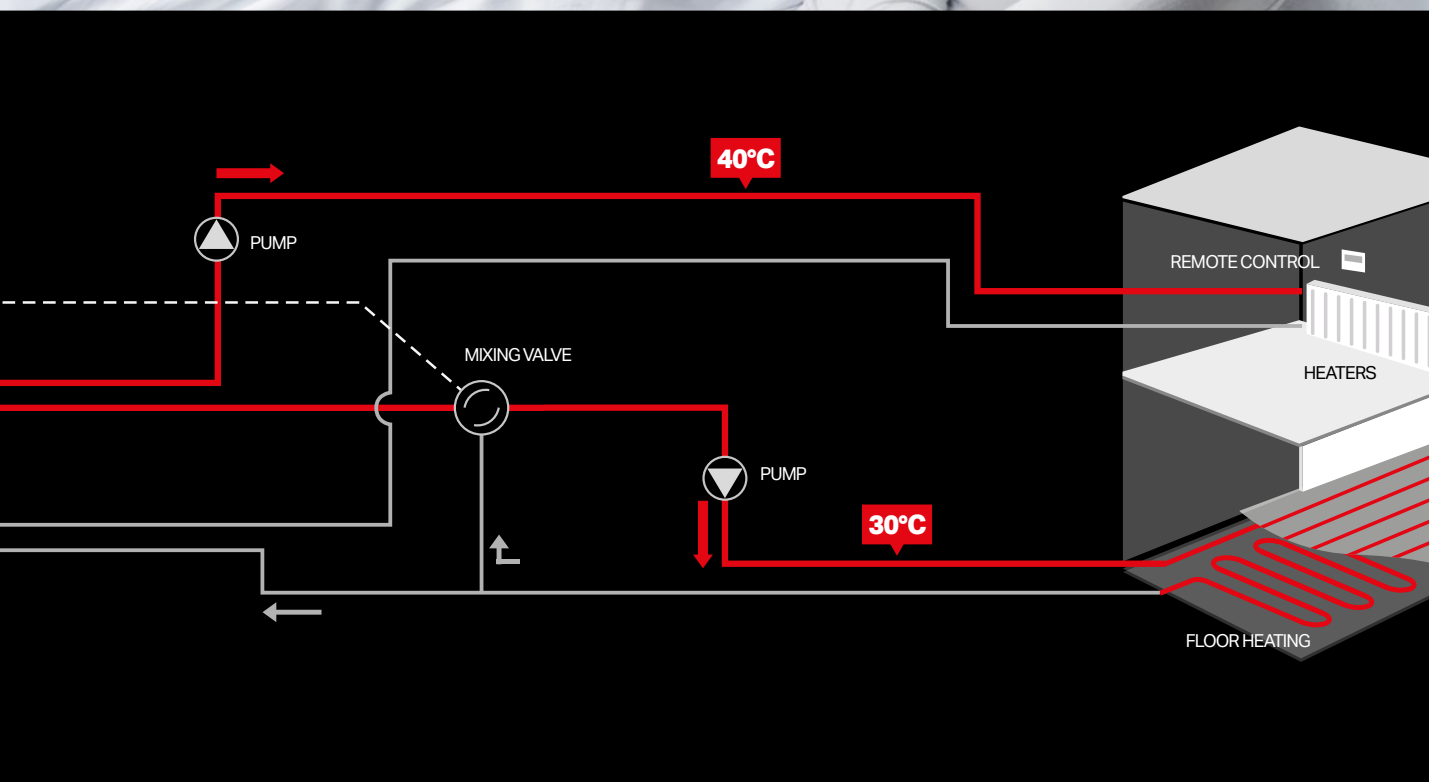


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## Quiet mode

Auratsu heat pumps feature two quiet modes for the outdoor unit and a quiet operating mode for the indoor unit for absolute user comfort.

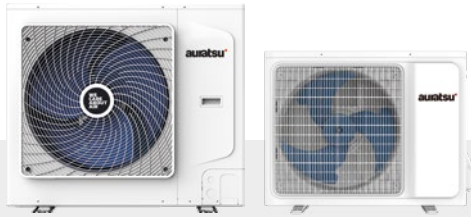


HEAT PUMP AIR TO WATER



# Indoor units

MODEL			AHM-60RA1	AHM-100RA3	AHM-160RA3
Compatible outdoor unit models			AHA-06RA1	AHA-08RA1 AHA-10RA1	AHA-12RA3 AHA-14RA3 AHA-16RA3
Heat exchanger	type		plate	plate	plate
Circulation pump	type		adjustable DC inverter	adjustable DC inverter	adjustable DC inverter
	head	m H <sub>2</sub> O	9,5	9,5	9,5
Expansion vessel	volume	l	8	8	8
	initial pressure (gas side)	MPa	0,1	0,1	0,1
Safety valve		MPa	0,3	0,3	0,3
Nominal flow		m <sup>3</sup> /h	0,36	0,36	0,6
Internal volume of the system, total		l	5	5	5
Power supply	voltage/number of phases/ frequency	V/Ph/ Hz	230/1/50	400/3/50	400/3/50
	maximum running current (MCA)	A	14,30	14,00	14,00
Additional electric heater	electric power	kW	3	3/6/9	3/6/9
	capacity levels		1	3	3
Sound power level		dB(A)	38	41	42
Sound pressure level		dB(A)	28	29	31
Leaving water temperature (LWT)	heating	°C	25÷65	25÷65	25÷65
	DHW	°C	25÷60	25÷60	35÷60
	cooling	°C	5÷25	5÷25	5÷25
Room temperature range		°C	5÷35	0÷35	0÷35
Connection	Water side external thread	cal	R1"	R1"	R1"
Liquid pipe		mm	6,35	9,52	9,52
Gas pipe		mm	15,9	15,9	15,9
Dimensions	of the unit (W/H/L)	mm	270/790/420	270/790/420	270/790/420
	of the packaging (W/H/L)	mm	355/985/515	355/985/515	355/985/515
Weight	net/with packaging	kg	37/43	38/44	39/45



# Outdoor units

MODEL			AHA-06RA1	AHA-08RA1	AHA-10RA1	AHA-12RA3	AHA-14RA3	AHA-16RA3
Heating A7W35 ΔT=5, R.H. 85%	nominal heating capacity	kW	6,29	8,38	10,16	12,22	14,65	16,16
	power input	kW	1,26	1,62	2,06	2,46	3,12	3,6
	COP	W/W	5,08	5,25	5,16	5	4,75	4,55
Heating A0W35 ΔT=5, R.H. 85%	nominal heating capacity	kW	5,83	7,75	8,74	9,28	9,62	11,01
	power input	kW	1,49	2	2,37	2,48	2,75	3,08
	COP	W/W	3,95	3,92	3,97	3,78	3,54	3,63
Heating A-7W35 ΔT=5, R.H. 85%	nominal heating capacity	kW	6,19	7,17	8,29	10,1	12,12	13,43
	power input	kW	2,03	2,2	2,74	3,36	4,33	4,98
	COP	W/W	3,1	3,28	3,28	3,03	2,83	2,73
Cooling A35W18 ΔT=5	nominal cooling capacity	kW	7,31	10,21	11,00	14,53	15,30	16,50
	power input	kW	1,76	2,31	2,62	4,56	4,88	5,60
	EER	W/W	4,15	4,43	4,21	3,19	3,13	2,94
Cooling A35W7 ΔT=5	nominal cooling capacity	kW	5,84	7,39	8,13	9,89	10,40	11,40
	power input	kW	1,90	2,25	2,48	4,52	4,81	5,42
	EER	W/W	3,07	3,28	3,12	2,19	2,16	2,11
Seasonal energy efficiency rating	TWW 35°C	klasa	A+++	A+++	A+++	A+++	A+++	A+++
	TWW 55°C	klasa	A++	A++	A++	A++	A++	A++
SCOP	TWW 35°C		4,96	5,22	5,20	4,82	4,71	4,63
	TWW 55°C		3,53	3,37	3,50	3,46	3,48	3,43
Power supply	voltage/number of phases/ frequency	V/Ph/ Hz	230/1/50	230/1/50	230/1/50	400/3/50	400/3/50	400/3/50
	maximum running current (MCA)	A	18	19	19	14	14	14
Sound level	sound pressure *1) (1 m)	dB	44	45	48	49	50	54
Outdoor air temperature range	heating	°C	-25÷35	-25÷35	-25÷35	-25÷35	-25÷35	-25÷35
	DHW	°C	-25÷43	-25÷43	-25÷43	-25÷43	-25÷43	-25÷43
	cooling	°C	10 ÷ 48	10 ÷ 48	10 ÷ 48	10 ÷ 48	10 ÷ 48	10 ÷ 48
Compressor type			twin rotary DC inverter	twin rotary DC inverter	twin rotary DC inverter	twin rotary DC inverter	twin rotary DC inverter	twin rotary DC inverter
Cooling system	pipe diameter liquid/gas	mm	9,52/15,9	9,52/15,9	9,52/15,9	9,52/15,9	9,52/15,9	9,52/15,9
	permissible system length/ permissible height difference	m	30/20	30/20	30/20	30/20	30/20	30/20
	connection method		kielich	kielich	kielich	kielich	kielich	kielich
Additional refrigerant	length without charge	m	15	15	15	15	15	15
	charge	g/m	38	38	38	38	38	38
Refrigerant	GWP/refrigerant amount	kg	675/1,25	675/1,65	675/1,65	675/1,84	675/1,84	675/1,84
Dimensions	of the unit (W/H/L)	mm	350/700/900	395/810/980	395/810/980	420/870/1005	420/870/1005	420/870/1005
	of the packaging (W/H/L)	mm	430/770/1020	495/895/1105	495/895/1105	530/880/1085	530/880/1085	530/880/1085
Weight	net/with packaging	kg	37/40	51/55	65/69	100/112	100/112	100/112

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