Air to Water Heat Pumps

Air to Water Heat Pumps

Air-source heat pumps are an increasingly popular and efficient way to provide heating and cooling for homes and businesses. As the name suggests, these systems use the air outside as a source of heat, which can be transferred into a building to provide warmth during the colder months. They can also be used to cool a building during the summer months by reversing the process and removing heat from the indoor air.

An air source heat pump consists of an external fan unit and a buffer tank that holds heated water for the central heating system. The fan unit draws in air and extracts its warmth, transferring it to a refrigerant. Through compression, the refrigerant's temperature is increased, and the heat is used to warm the water in the buffer tank. When the heating is switched on, the hot water is circulated through the radiators, effectively heating the entire home.

One of the major benefits of air-source heat pumps is their high level of efficiency. Because they transfer heat rather than the generation of it, they can be much more energy-efficient than traditional heating and cooling systems. This can help reduce energy consumption and lower energy bills, as well as reduce greenhouse gas emissions and help combat climate change.

Air-source heat pumps can be used in a variety of applications, from residential homes to commercial buildings. They can provide heating and cooling for spaces of all sizes, and can be a cost-effective and environmentally friendly alternative to traditional heating and cooling systems. With advances in technology and increasing demand for energy-efficient solutions, air-source heat pumps are likely to become an even more important part of our heating and cooling infrastructure in the years to come.

Air to Water Heat Pumps Applications

Air-source heat pumps can be used for a wide range of commercial applications, including:

Offices

Efficient and effective heating and cooling for office buildings, which can help create a comfortable and productive work environment.

Retail Stores

Maintains a comfortable temperature for customers and staff in retail stores, which can help create a pleasant shopping experience.

Hotels

Can be used to provide heating and cooling for guest rooms and common areas in hotels, which can help ensure that guests have a comfortable stay.

Hospitals and Healthcare Facilities

Safe and carbon-free method of heating and cooling, which can help maintain a sterile and comfortable environment for patients and staff.

Educational Institutions

For classrooms, libraries, and other educational facilities, which can help create a comfortable and conducive learning environment.

Warehouses and Storage Facilities

Can be used to provide heating and cooling for warehouses and storage facilities, which can help protect stored goods from extreme temperatures and humidity.

Benefits

Air to Water Heat Pumps

1 Energy efficiency

Air-source heat pumps are highly efficient, as they transfer heat from the air outside to provide heating inside the building. This can help reduce energy consumption and lower energy bills.

2 Cost savings

Because air-source heat pumps are so efficient, they can help businesses save money on their energy bills in the long term. They can also be a cost-effective heating solution, especially for larger commercial buildings.

3 Reduced carbon footprint

Air-source heat pumps are a renewable source of heating/cooling and produce no direct carbon emissions. This makes them an environmentally friendly option for businesses that want to reduce their carbon footprint.

4 Flexibility

Air-source heat pumps can be used for both heating and cooling, which makes them a versatile option for commercial buildings that need to maintain a comfortable temperature throughout the year.

5 Reliability

Air-source heat pumps are reliable and require little maintenance, which can be beneficial for businesses that need a heating system that can operate consistently without interruption.

6 Scalability

Air-source heat pumps can be scaled up or down depending on the size of the commercial building, which means they can be used for both small and large-scale projects.

Different Elements of Fischer's Air to Water Heat Pump

Low maintenance fan

The fan carries the warm and cool air. The fan also consists of a built-in filter that ensures evaporator performance and reduces maintenance.

Wifi

New Wifi accessory that allows full remote monitoring and control. The user/ installer can adjust temperatures, change the operating mode, turn the equipment off or on and even look at the operating history.

Optional coil

Ecoheat models from EH200TD / EH260TD and EH500TD can incorporate high-performance stainless steel coil. It is specially designed to take advantage of the entire volume of accumulation of the equipment and also works at high flow rates to increase power.

In addition, all the tanks in the floor range incorporate the recirculation connection as standard.

Duplex 2205/444 Buffer Tank

Buffer tanks are made from the highest quality stainless steel and benefit from advanced welding processes to ensure added longevity.

Touch Controller

Featuring three user-friendly operating modes with an automatic anti-legionella disinfection system. Suitable for photovoltaic installations.

White stainless steel finish

All models can be built in white or stainless steel finish.
Modern and sophisticated design that fits perfectly in any kind of space.

Ecoheat EH100 - 130

(WALL-MOUNTED OPTION)

A+

134A

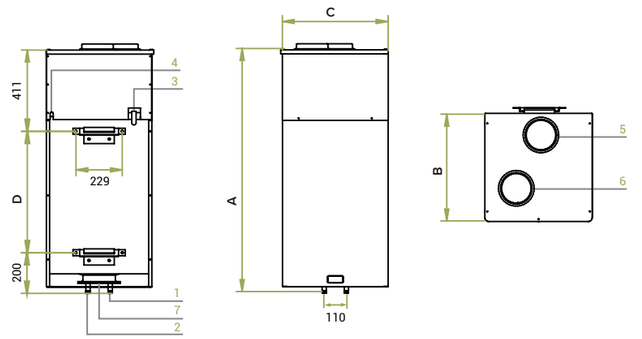
The wall-mounted air-source heat pump range. Designed to provide maximum efficiency, these units are perfectly suited for even the most limited spaces, ensuring optimal performance with a sleek new design and clever configuration.

Ideal for new constructions or home renovations with up to three bedrooms, this compact unit boasts incredible features that deliver unparalleled performance and comfort.

Ecoheat EH100 - 130

Technical data							
Model		EH100	EH130	Secondary electric heater		EH100	EH130
Capacity	L	100	130	Electric heater power	W	1500	1500
Maximum operating pressure	bar	6	6	Maximum absorbed power	W	1800	1800
Heat pump				Maximum water temperature	°C	70	70
Heating capacity range	W	700-1200	700-1200	Air data			
Power input	W	180-300	180-300	Air flow	m^3/h	200	200
Energy Efficiency Class	-	A+	A+	Maximum pressure drop	Pa	70	70
Load profile	-	M	M	Connection diameter	mm	160	160
SCOP (14 C)	-	3,02	3,24	Connections			
Maximum water temperature HP		55	55	Power supply	V|ph|Hz	230|1|50	230|1|50
Outdoor air temperature range	°C	-5 /35	-5 / 35	Water inlet / outlet	inch	1/2	1/2

Connections and dimensions		
1	Hot water outlet,1/2 "	
2	Cold water inlet, 1/2 "	
3	Condensate drain	
4	Power supply, 230 V/ 1PH/50 Hz	
5	Air exhaust connection, 160 mm	
6	Air suction connection, 160 mm	
7	Electric heater / probe	
	EH100	EH130
A, mm	1075	1200
B, mm	527	527
C, mm	522	522
D, mm	475	600



Wall-mounting

Stainless Steel 2205/444

Easy installation

DHW 55

Solar PV compatible

Ecoheat EH160-200-260

(WALL-MOUNTED OPTION)

A+

134A

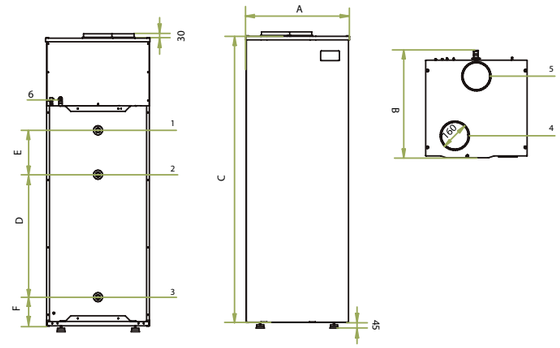
The updated version of the EcoHeat standard range. Now boasting maximum reliability and unrivalled efficiency, these units are manufactured to the highest quality standards, ensuring a worry-free heating experience for years to come.

With up to 5 years guarantee on the buffer tank, you can trust our commitment to providing high quality products. Plus, with advanced control and connectivity options, you'll have the power to schedule heating times, monitor operations, and even accumulate thermal energy with Solar PV connection. Available in classic white or sleek stainless-steel finishes, the Ecoheat standard range is the ultimate solution for anyone seeking the perfect balance of performance, style, and peace-of-mind.

Ecoheat EH160-200-260

Technical data									
Model		EH160	EH200	EH260	Secondary electric heater		EH160	EH200	EH260
Capacity	L	160	200	260	Electric heater power	W	1500	1500	1500
Maximum operating pressure	bar	6	6	6	Maximum absorbed power	W	2100	2100	2100
Heat pump					Maximum water temperature	°C	70	70	70
Heating capacity range	W	1841-1100	1841-1100	1841-1100	Air data				
Power input	W	496 - 600	496 - 600	496 - 600	Air flow	m^3/h	350	350	350
Energy Efficiency Class	-	A	A	A	Maximum pressure drop	Pa	70	70	70
Load profile	-	L	L	XL	Connection diameter	mm	160	160	160
SCOP (14 C)	-	2,8	3,1	3,0	Connections				
Maximum water temperature HP	°C	55	55	55	Power supply	V/ph/Hz	230|1|50	230|1|50	230|1|50
Outdoor air temperature range	°C	-5 /35	-5 /35	-5 /35	Water inlet / outlet / circulation	inch	3/4	3/4	3/4

Connections and dimensions			
1	Hot water outlet, 3/4"		
2	Circulation connection, 3/4"		
3	Cold water inlet , 3/4"		
4	Air suction connection, 160 mm		
5	Air exhaust connection, 160 mm		
6	Power supply, 230 V/ 1PH/50 Hz		
	EH160	EH200	EH260
A, mm	585	585	585
B, mm	587	587	587
C, mm	1527	1527	1945
D, mm	545	545	912
E, mm	94	194	194
F, mm	217	217	217



Floor installation

Stainless Steel 2205/444

Easy installation

DHW 55

Solar PV compatible

Ecoheat EH500

(FOR HIGH-DEMAND APPLICATIONS)

A+

134A

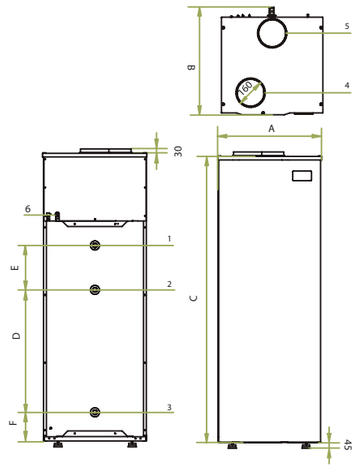
The ideal solution for large consumption applications requiring domestic hot water up to 60°C. With advanced heat pump technology and a brand-new design that reduces recovery times and energy consumption, you'll be enjoying a constant supply of hot water while saving on energy costs.

Our buffer tanks are manufactured using the highest-quality duplex 2205 stainless steel, making them incredibly durable and resistant to water corrosion. Plus, with an elegant design that seamlessly integrates into any home, the Ecoheat EH500 is suited for anyone seeking top-of-the-line performance and style.

Ecoheat EH500

Technical data					
Model		EH500	Secondary electric heater		EH500
Capacity	L	500	Electric heater power	W	1500
Maximum operating pressure	bar	6	Maximum absorbed power	W	2390
Heat pump			Maximum water temperature	°C	70
Heating capacity range	W	3122 - 3907	Air data		
Power input	W	1082-1145	Air flow	m^3/h	700
Energy Efficiency Class	-	A	Maximum pressure drop	Pa	70
Load profile	-	XL	Connection diameter	mm	160
SCOP (14 C)	-	2,97	Connections		
Maximum water temperature HP	°C	60	Power supply	V/ph/Hz	230|1|50
Outdoor air temperature range	°C	-5 /35	Water Inlet / outlet / circulation	inch	1

Connections and dimensions	
1	Hot water outlet, 1"
2	Circulation connection, 1"
3	Cold water inlet, 1 "
4	Air suction connection, 160 mm
5	Air exhaust connection, 160 mm
6	Power supply, 230V/ 1PH/50 HZ
	EH500
A, mm	696
B, mm	740
C, mm	2124
D, mm	885
E, mm	325
F, mm	245



Floor installation

Stainless Steel 2205/444

Easy installation

DHW 55

Solar PV compatible

Ecoflex EF02-04

(FOR HIGH-DEMAND APPLICATIONS)

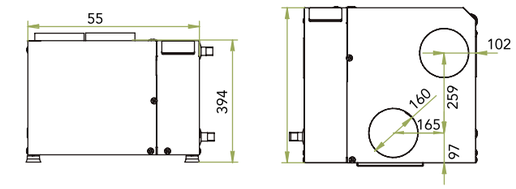
Our original air to water heat pump system - the perfect solution for connecting to existing systems in need of an extra boost or replacing outdated, energy-wasting sources.

With no need for accumulation, this heat pump is the ultimate choice for anyone seeking maximum efficiency and performance. Plus, its innovative design allows for easy installation in DHW accumulators, solar thermal systems, boilers, and electric water heaters. With two power ranges available to meet a wide range of needs, you can trust this heat pump to deliver the complete balance of power and versatility.

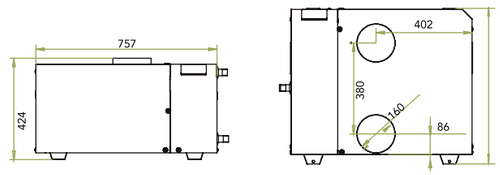
Ecoflex EF02-04

Technical data							
Heat pump		EF02	EF04	Air data		EF02	EF04
Heating capacity range	W	1464-1820	3122-3907	Air flow	m^3/h	350	700
Power input	W	464-493	1082-1145	Maximum pressure drop	Pa	70	70
Energy Efficiency Class	-	A	A	Connection diameter	mm	160	160
Load profile	-	L	XL	Connections			
SCOP (14 C)	-	2,91	3,01	Power supply	V|ph|Hz	230|1|50	230|1|50
Maximum water temperature HP	°C	55	55	Water inlet / outlet/ circulation	inch	3/4	1
Outdoor air temperature range	°C	-5 / 35	-5 / 35				

EF02



EF04



Wall / Floor installation

Stainless Steel 2205/444

Easy installation

DHW 55

Solar PV compatible

Ecoheat EHDC

(ACCUMULATION AND DHW HEAT PUMP IN A SINGLE TANK)

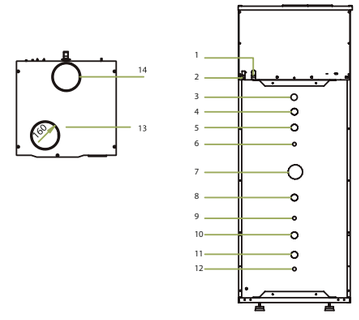
The revolutionary accumulation system with heat pump support - the ultimate solution for anyone seeking an efficient and versatile hot water system. Its original design allows for the accumulation of hot water from a primary system such as solar energy, boilers, or air source technology, while simultaneously generating DHW through the same buffer tank via an instant hygienic coil. Plus, with the incorporation of a powerful heat pump, you'll enjoy energy generation through air source technology even when the primary system is not in use, increasing the seasonal efficiency of your entire system.

Ecoheat EHDC

Technical data							
Model		EH300DC	EH500DC	Secondary electric heater		EH300DC	EH500DC
Capacity	L	300	500	Electric heater power	W	1500	1500
Maximum operating pressure	bar	3	3	Maximum absorbed power	kW	3,34	5,18
Primary exchange area	m^2	3,51	4,50	Maximum water temperature	°C	70	70
Secondary circuit capacity	L	10,76	19,32	Air data			
Power (DHW)	kW	29,4 (1)	58,0 (2)	Air flow	m^3/h	350	700
Primary tank material		Pickled carbon steel ST37-2		Maximum pressure drop	Pa	70	70
DHW exchanger material		Stainless steel 316L		Connection diameter	mm	160	160
Heat pump				Others			
Maximum water temperature HP	°C	55	55	Power supply	V|ph|Hz	230|1|50	230|1|50
Heating capacity range	W	1464-1820	3122-3907	Dimensions (H x W x D)	mm	1945|585|587	2066|696|710
Power input	W	464-493	1082-1145	Power supply	V|ph|Hz	230|1|50	230|1|50
Outdoor air temperature range	°C	-5 / 35	-5 / 35	Dimensions (H x W x D)	mm	1945|585|587	2066|696|710

(1) Test conditions: Accum. T 60 °C; Average T DCW 18 °C; DHW flow 10.0 l/min.
(2) Test conditions: Accum. T 60 °C; Average T DCW 18 °C; DHW flow 41.5 l/min.

Connections	
1	Condensate drain
2	Power supply, 230 V/ 1PH/50 Hz
3	Air bleed
4	Outlet connection, 1" H
5	DHW outlet, 1" M
6	Probe, 1/2" H
7	Electric heater
8	Extra connection, 1" H
9	Probe, 1/2"
10	Extra connection, 1" H
11	DCW inlet, 1" H
12	Inlet connection, 1/2" H o 1" H
13	Air suction connection, 160 mm
14	Air exhaust connection, 160 mm



Floor installation

Combine with other technologies

Easy installation

DHW 55

Solar PV compatible

Module EHBT

(DHW SYSTEM WITH INDEPENDENT ACCUMULATION TANK)

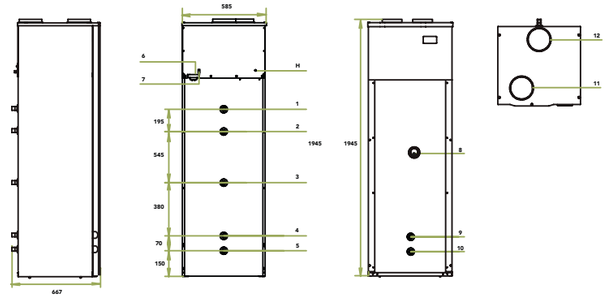
The ultimate solution for all your DHW, heating, and cooling needs. This compact DHW heat pump comes with a 50-litre accumulation buffer tank. It is an innovative unit designed with your comfort and convenience in mind, featuring an indoor unit that allows the buffer tank to be used for both hot and cold water. Unlike other indoor modules on the market, our unit allows for two different applications: one for DHW and another for heating/cooling.

Plus, with a separate heat pump dedicated to meeting your DHW demand, our outdoor unit delivers all the electrical power needed to meet your heating needs. And that's not all - our module is designed to be compatible with existing monoblock heat pumps, making it a suitable choice for anyone seeking a versatile and customizable heating and cooling system.

Module EHBT

Technical data					
Model		EH200-BT50	Secondary electric heate		EH200-BT50
Capacity, DHW	L	200	Electric heater power	W	1500
Maximum operating pressure, DHW	bar	6	Maximum absorbed power	W	2100
Capacity buffer tank	L	50	Maximum water temperature	°C	70
Maximum operating pressure, buffer tank	bar	3	Air data		
Heat pump			Air flow	m^3/h	350
Heating capacity range	W	1100- 1800	Maximum pressure drop	Pa	70
Power input	W	400 -500	Connection diameter	mm	160
Energy Efficiency Class	-	A	Connections		
Load profile	-	L	Power supply	V/ph/Hz	230|1|50
SCOP (14˚C)	-	3,1	Inlet / outlet / circulation DHW	inch	3/4
Maximum water temperature HP	°C	55	Inlet / outlet buffer tank	inch	1
Outdoor air temperature range	°C	-5 / 35			

Connections and dimensions	
1	DHW outlet , 3/4"
2	Circulation connection, 3/4"
3	DCW inlet , 3/4 ''
4	Hot water outlet, 1"
5	Cold water inlet, 1"
6	Power supply, 230 V/ 1PH/50 Hz
7	Condensate drain
8	Electric heater / probe
9	Hot water outlet, 1"
10	Cold water inlet, 1"
11	Air suction connection, 160 mm
12	Air exhaust connection, 160 mm



Floor installation

Combine with other technologies

Easy installation

DHW 55

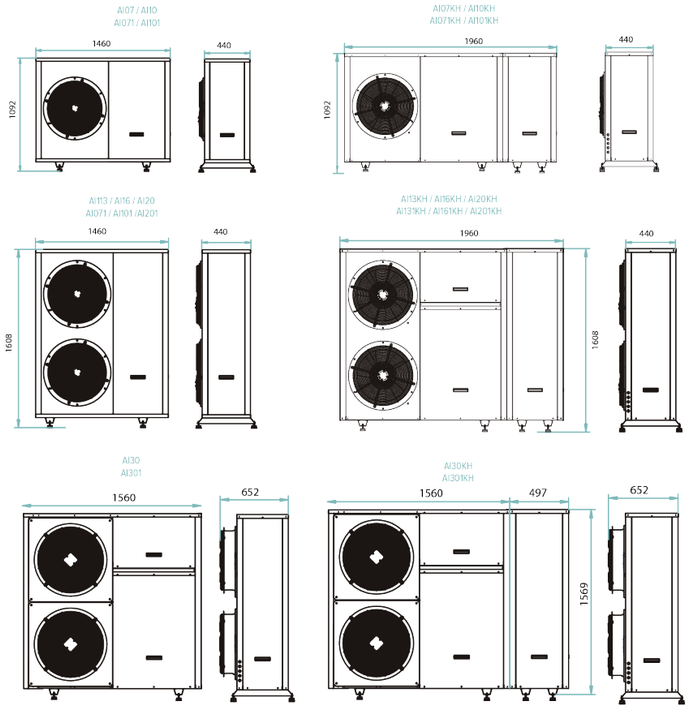
Solar PV compatible

Airys /Airys KH

(MONOBLOCK SYSTEM WITH INVERTER TECHNOLOGY AND HEAT RECOVERY)

This is a cutting-edge air to water heat pump with inverter technology and four-pipe system. It has a heat recovery system that captures 100% of the energy and uses it to produce free DHW. It simultaneously generates cold water for your cooling circuit.

Plus, with heating capacities ranging from 7 kW to 50 kW, this heat pump has the flexibility for both domestic and commercial applications.



Airys/ Airys KH

Technical data							
Heating A7°C/ W35°C		AI07	AI10	AI13	AI16	AI20	AI30
Heating power	kW	2,6 - 8	4,0 - 11,7	4,9 - 13,7	6,1 - 18,0	8,0 - 23,9	10,5 - 31,2
Power input	kW	0,6 - 1,8	0,9 - 2,8	1,2 - 3,2	1,3 - 4,1	1,7 - 5,4	2,9 - 7,6
COP	-	4,12	4,22	4,09	4,15	4,21	4,5
Heating A7°C/ W45°C							
Heating power	kW	2,5 - 7,8	3,8 - 11,3	4,7 - 13,2	5,9 - 17,4	7,7 - 23,0	10,0 - 30,0
Power input	kW	0,8 - 2,2	1,1 - 3,3	1,5 - 3,9	1,6 - 4,9	2,1 - 6,4	3,3 - 9,0
COP	-	3,19	3,25	3,17	3,21	3,24	3,47
Heating A7°C/ W50 °C							
Heating power	kW	2,5 - 7,7	3,7 - 11,1	4,6 - 12,9	5,8 - 17,1	7,5 - 22,5	9,8 - 29,4
Power input	kW	0,8 - 2,5	1,2 - 3,5	1,6 - 4,2	1,7 - 5,3	2,3 - 7,0	3,6 - 9,7
COP	-	2,83	2,88	2,81	2,84	2,9	3,08
Cooling A35°C/ W7°C							
Cooling capacity	kW	2,1 - 6,6	3,2 - 9,5	3,9 - 11,1	5,0 - 14,7	6,5 - 19,5	8,4 - 25,4
Power input	kW	0,6 - 2,3	0,9 - 3,3	1,2 - 3,9	1,3 - 5,0	1,7 - 6,6	2,7 - 9,2
EER	-	2,67	2,73	2,66	2,69	2,72	2,97
Cooling A35°C/ W18°C							
Cooling capacity	kW	3,1 - 9,4	4,6 - 13,7	5,7 - 16,1	7,3 - 21,1	9,4 - 28,3	12,3 - 36,9
Power input	kW	0,6 - 2,3	0,9 - 3,4	1,1 - 4,0	1,2 - 5,2	1,7 - 7,0	2,6 - 9,8
EER	-	3,96	4,03	3,93	3,98	4,02	4,39
Recovery mode A40°C/ W7°C							
Simultaneous Heating/cooling power	W	7721 / 5977		13896 / 10758	16985 / 13149	21617 / 16735	32 895 / 2537
Power input	W	1744	2557	3138	3836	4882	7458
Energy Efficiency Class 35°C/SCOP (M)		A++ / 3,9	A++ / 3,9	A+ / 3,7	A++ / 4,0	A++ / 4,1	A+ / 3,8
Operating data							
Minimum / maximum water temperature	°C	7 / 55	7 / 55	7 / 55	7 / 55	7 / 55	7 / 55
Outdoor air temperature range	°C	-15 / 45	-15 / 45	-15 / 45	-15 / 45	-15 / 45	-15 / 45
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Electrical data							
Power supply	V/ph/Hz	230 | 1 | 50	230 | 1 | 50	230 | 1 | 50	230 | 1 | 50	380 | 3 | 50	380 | 3 | 50
Maximum absorbed current	A	12,7	15,01	18,24	20,12	18,8	22
Other details							
Hydraulic connection	plug	1	1	1	1	1 - 1/2	1 - 1/2
Net weight (Airys)		133	137	190	199	217	245
HYDRAULIC KIT version		AI071KH	AI101KH	AI131KH	AI161KH	AI201KH	AI301KH
Buffer tank capacity	L	100	100	100	100	200	200
Maximum operating pressure buffer tank	bar	3	3	3	3	3	3
Circulating pump				EC-High efficiency			
Net weight (Airys One KH)	kg	181	185	241	254	285	324

EC Fan

Monoblock configuration

Heating, cooling and DHW

Inverter system

Temperature 7° C | 55° C

Solar PV Compatible

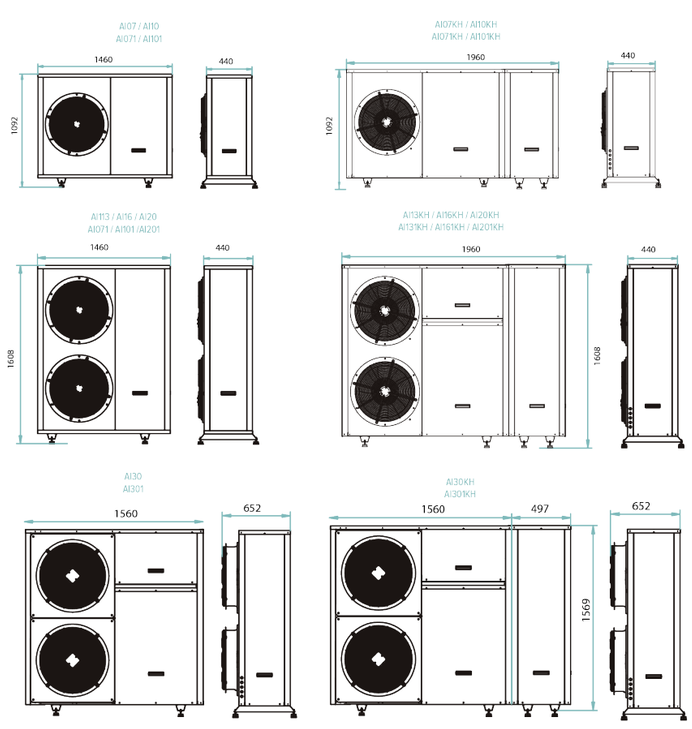
Air to Water Heat Pumps

Airys One / One KH

(MONOBLOCK SYSTEM WITH INVERTER TECHNOLOGY AND HEAT RECOVERY)

Designed with advanced technology and the highest quality components, this unit delivers unparalleled performance and efficiency that will take your comfort to the next level.

Whether you're looking to heat a home or office, cool a workspace, or achieve the perfect balance of both, these units have got you covered.



Airys One/ One KH

Technical data							
Heating A7°C/ W35°C		AI071	AI101	AI131	AI161	AI201	AI301
Heating power	kW	2,6 - 8	4,0 - 11,7	4,9 - 13,7	6,1 - 18,0	8,0 - 23,9	10,5 - 31,2
Power input	kW	0,6 - 1,8	0,9 - 2,8	1,2 - 3,2	1,3 - 4,1	1,7 - 5,4	2,9 - 7,6
COP	-	4,12	4,22	4,09	4,15	4,21	4,5
Heating A7°C/ W45°C							
Heating power	kW	2,5 - 7,8	3,8 - 11,3	4,7 - 13,2	5,9 - 17,4	7,7 - 23,0	10,0 - 30,0
Power input	kW	0,8 - 2,2	1,1 - 3,3	1,5 - 3,9	1,6 - 4,9	2,1 - 6,4	3,3 - 9,0
COP	-	3,19	3,25	3,17	3,21	3,24	3,47
Heating A7°C/ W50 °C							
Heating power	kW	2,5 - 7,7	3,7 - 11,1	4,6 - 12,9	5,8 - 17,1	7,5 - 22,5	9,8 - 29,4
Power input	kW	0,8 - 2,5	1,2 - 3,5	1,6 - 4,2	1,7 - 5,3	2,3 - 7,0	3,6 - 9,7
COP	-	2,83	2,88	2,81	2,84	2,9	3,08
Cooling A35°C/ W7°C							
Cooling capacity	kW	2,1 - 6,6	3,2 - 9,5	3,9 - 11,1	5,0 - 14,7	6,5 - 19,5	8,4 - 25,4
Power input	kW	0,6 - 2,3	0,9 - 3,3	1,2 - 3,9	1,3 - 5,0	1,7 - 6,6	2,7 - 9,2
EER	-	2,67	2,73	2,66	2,69	2,72	2,97
Cooling A35°C/ W18°C							
Cooling capacity	kW	3,1 - 9,4	4,6 - 13,7	5,7 - 16,1	7,3 - 21,1	9,4 - 28,3	12,3 - 36,9
Power input	kW	0,6 - 2,3	0,9 - 3,4	1,1 - 4,0	1,2 - 5,2	1,7 - 7,0	2,6 - 9,8
EER	-	3,96	4,03	3,93	3,98	4,02	4,39
Energy Efficiency Class 35°C/SCOP (M)		A++ / 3,9	A++ / 3,9	A+ / 3,7	A++ / 4,0	A++ / 4,1	A+ / 3,8
Operating data							
Minimum / maximum water temperature	°C	7 / 55	7 / 55	7 / 55	7 / 55	7 / 55	7 / 55
Outdoor air temperature range	°C	-15 / 45	-15 / 45	-15 / 45	-15 / 45	-15 / 45	-15 / 45
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Electrical data							
Power supply	V/ph/Hz	230 | 1 | 50	230 | 1 | 50	230 | 1 | 50	230 | 1 | 50	380 | 3 | 50	380 | 3 | 50
Maximum absorbed current	A	12,7	15,01	18,24	20,12	18,8	22
Other details							
Hydraulic connection	plug	1	1	1	1	1 - 1/2	1 - 1/2
Net weight (Airys One)	kg	130	133	184.5	193	200	238
HYDRAULIC KIT version		AI071KH	AI101KH	AI131KH	AI161KH	AI201KH	AI301KH
Buffer tank capacity	L	100	100	100	100	200	200
Maximum operating pressure buffer tank	bar	3	3	3	3	3	3
Circulating pump				EC-High efficiency			
Net weight (Airys One KH)	kg	173	175	236	248	280	316

EC Fan

Monoblock configuration

Heating, and cooling

Inverter system

Temperature 7° C | 55° C

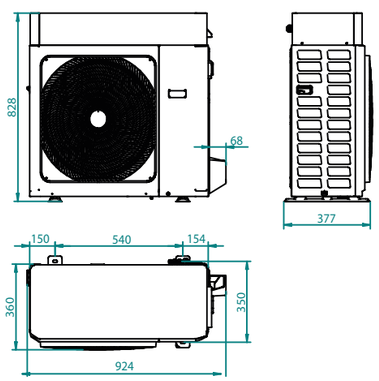
Solar PV Compatible

Airys Compact / Plus

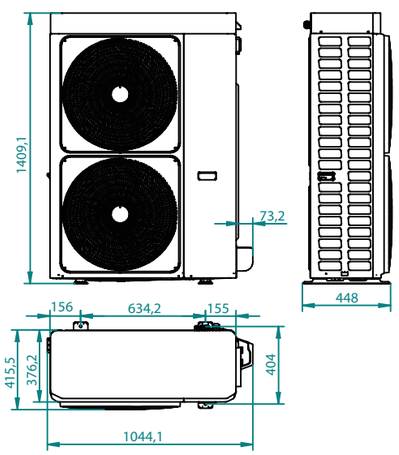
(MAXIMUM PERFORMANCE USING MINIMAL SPACE)

Designed to maximize performance while minimizing space and weight, this unit packs a serious punch when it comes to delivering unparalleled comfort and convenience. It has a built-in circulating pump, expansion tank, and safety valve as standard. But that's not all – for even greater DHW generation and accumulation, the EH200BT50 model has two independent tanks, ensuring reliable availability even during peak demand.

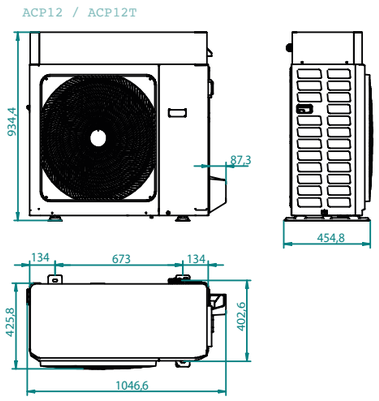
ACP04/06/08



ACP14 / ACP14T



ACP12 / ACP12T



Airys Compact / Plus

Technical data								
Cooling A35/W7		**ACP04**	**ACP06**	**ACP08**	**ACP12**	**ACP12T**	**ACP14**	**ACP14T**
Cooling capacity	kW	4,33	5,02	6,08	8,51	8,51	11,50	11,50
Power input	kW	1,37	1,60	1,99	2,79	2,79	3,53	3,53
EER	-	3,16	3,14	3,05	3,05	3,05	3,25	3,25
Water flow	L/s	0,21	0,24	0,28	0,41	0,41	0,55	0,55
Pressure drop	kPa	1,10	2,0	2,80	8,8	8,8	12,9	12,9
Cooling A35/W18								
Cooling capacity	kW	5,59	6,18	7,72	11,60	11,60	14,00	14,00
Power input	kW	1,12	1,28	1,76	2,79	2,79	2,59	2,59
EER	-	4,99	4,82	4,38	4,16	4,16	5,40	5,40
Seasonal Energy Efficiency								
SEER (W12-7)	-	4,28	4,42	4,51	4,43	4,43	4,77	4,77
Heating A7/W35								
Heating capacity	kW-	4,76	6,08	7,81	11,80	11,80	14,10	14,10
Power input	kW	1,00	1,35	1,78	2,73	2,73	2,91	2,91
COP	-	4,76	4,51	4,38	4,32	4,32	4,85	4,85
Heating A7/W45								
Heating capacity	k-W	4,75	5,88	7,58	11,50	11,50	13,60	13,60
Power input	kW-	1,30	1,66	2,17	3,33	3,33	3,55	3,55
COP	-	3,65	3,54	3,50	3,44	3,44	3,82	3,82
Water flow	L/s	0,23	0,28	0,37	0,55	0,55	0,65	0,65
Pressure drop	kPa	1,4	2,1	3,3	13,1	13,1	13,0	13,0
Seasonal Energy Efficiency								
SCOP (W30-35)	-	4,56	4,46	4,46	4,47	4,47	4,48	4,48
Energy efficiency class (W35/55)	-	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Technical data								
Type of compressor				Rotatory				
Number of compressors	-	1	1	1	1	1	1	1
Refrigerant	-	R32	R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	1,5	1,5	1,5	2,5	2,5	3,2	3,2
Tons equivalent of CO2	T	1	1	1	1,7	1,7	2,2	2,2
Number of fans	-	1	1	1	1	1	2	2
Net weight	kg	61	72	72	96	108	121	136
Sound level								
Sound power	dB(A)	58	64	64	65	65	68	68
Hydronic module								
Maximum operating pressure	bar	6	6	6	6	6	6	6
Water connections	inch	1-M	1-M	1-M	1-M	1-M	1-M	1-M
Available static pressure	kpa	80,6	78,8	76	63,4	63,4	75	75
Expansion vessel capacity	L	1,4	1,4	1,4	1,8	1,8	3,0	3,0
Electrical data								
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	400/3N/50	230/1/50	400/3N/50
Maximum power input	kW	2,1	3,5	3,9	5,1	5,1	6,6	6,6
Maximum absorbed current	A	10,6	15,1	17,0	22,1	7,3	28,6	9,5

CC Fan

Hydronic module

Heating, cooling and DHW

Low noise level

Temperature 7° C | 55° C

Solar PV Compatible

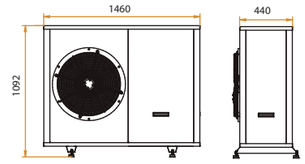
Geiser

(Heat pump with EVI Technology)

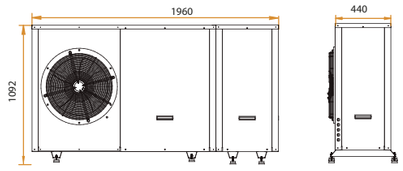
The unit uses a vapour injection system. This game-changing technology enables this system to produce hot water at high temperatures, even in the most challenging conditions.

With a refrigeration circuit that maximizes thermal power, the Geiser can consistently produce hot water up to 65°C. Whether you're looking to heat water for commercial or residential use, this vapour injection system offers unparalleled performance and reliability.

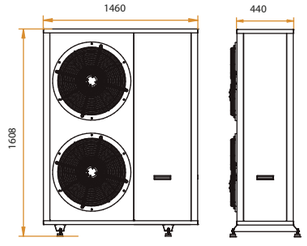
GS12-14



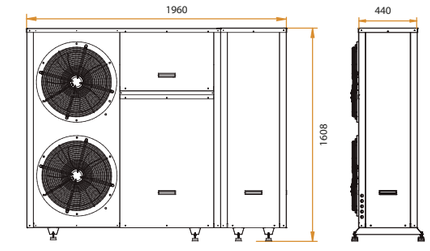
GS12-14KH



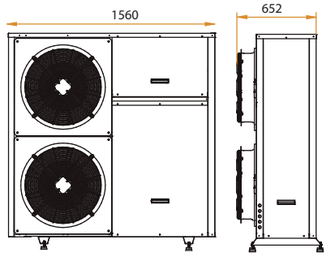
GS16-20



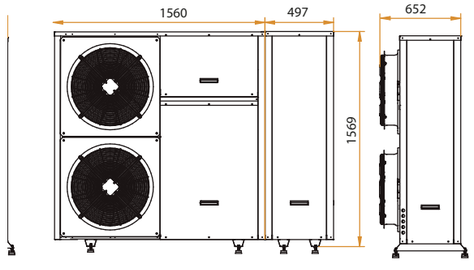
GS16-20KH



GS40



GS40KH



Geiser

Technical data						
Heating A7/W35		GS12	GS14	GS16	GS20	GS40
Heating power	KW	11,03	13,38	16,38	19,45	40,02
Power input	KW	2,75	3,26	3,98	4,55	10,02
COP	-	4,0	4,1	4,1	4,4	4,0
Seasonal energy efficiency						
SCOP (W35)	-	4	4,07	4,14	4,44	3,96
ns Heating (warm climate, W35)	%	136	139	141,3	149,3	140
Energy efficiency Class (W35)		A+	A+	A+	A+	A+
Heating A7/W65						
Heating power	KW	12,11	13,49	16,73	19,36	37,67
Power input	KW	5,04	5,86	7,14	8,21	17,43
COP	-	2,4	2,3	2,3	2,4	2,3
Other details						
Power supply	V/ph/Hz	380|3|50	230|1|50-380|3|50	380|3|50	380|3|50	380|3|50
Refrigerant		R407C	R407C	R407C	R407C	R407C
Full load current	A	9,2	10,4 NO 104	13,2	16	30,2
Outdoor air temperature range	°C	-15 / 35	-15 / 35	-15 / 35	-15 / 35	-15 / 35
Maximum water temperature	°C	65	65	65	65	65
Net weight	Kg	159	200	216,5	220	310
Hydraulic module (KH model)						
Circulating pump			EC-High efficiency			
Buffer tank capacity	L	100	100	200	200	200
Maximum operating pressure	bar	3	3	3	3	3
Water connections	inch	1	1	1	1 1/2	2

EC Fan

EVI compressor

Easy installation

Monoblock configuration

Working up to -15° C

Solar PV Compatible

Geiser HT

(NEW: REFRIGERANT R513A)

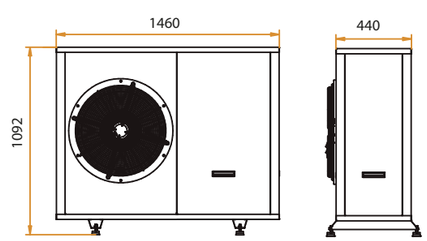
Our latest innovation in heat pump technology - a brand new design that uses a non-flammable refrigerant with a low GWP and class 1 safety rating. Not only does this refrigerant promote environmental responsibility, but it also ensures maximum safety for your commercial property.

This cutting-edge heat pump can even operate at high temperatures, generating hot water up to 70°C, making it the ideal choice for commercial heating and hot water.

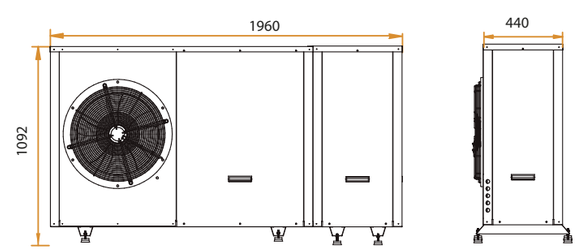
Geiser HT

Technical data							
Heating A7/W35		GS07HT	GS14HT	Other details		GS07HT	GS14HT
Heating power	kW	6,73	12,18	Refrigerant		R513A	R513A
Power input	kW	1,73	3,02	Outdoor air temperature range	°C	-15 / 35	-15 / 35
COP	-	3,9	4,0	Maximum water temperature	°C	70	70
Energy efficiency class (35W)		A+	A+	Water connections	inch	1	1
Heating A15/W60				Net weight	kg	159	200
Heating power	kW	7,86	14,13	Hydraulic module (KH model)			
Power input	kW	2,84	4,94	Circulating pump	EC-High efficiency		
COP	-	2,8	2,9	Buffer tank capacity	L	100	100
Power supply	V/ph/Hz	380/3/50	380/3/50	Maximum operating pressure	bar	3	3

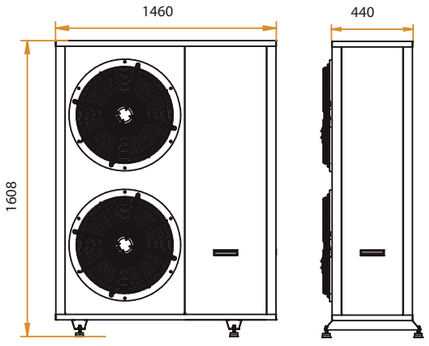
GS07HT



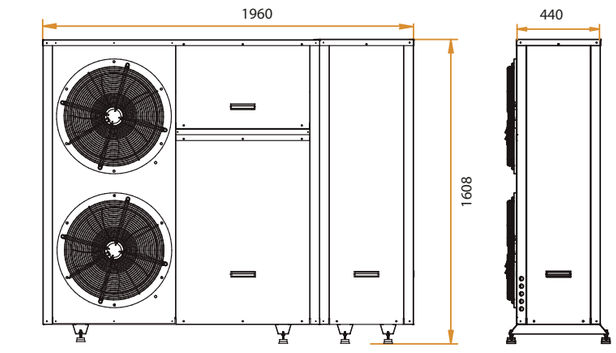
GS07HTKH



GS14HT



GS14HTKH



EC Fan

Water

Easy installation

Monoblock configuration

Working up to -15° C

Solar PV Compatible

Geiser Pool

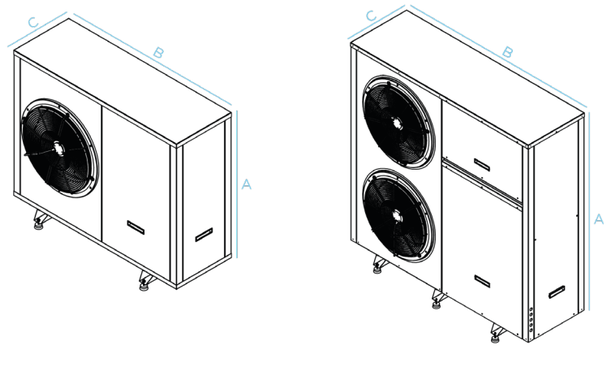
(HEAT PUMP FOR HEATED POOLS)

Our state-of-the-art solution allows you to extend your swimming season in any weather condition, providing reliable and efficient performance all year long.

This heat pump is designed to maintain comfortable pool temperatures while operating at optimal efficiency, delivering exceptional performance even under total load conditions.

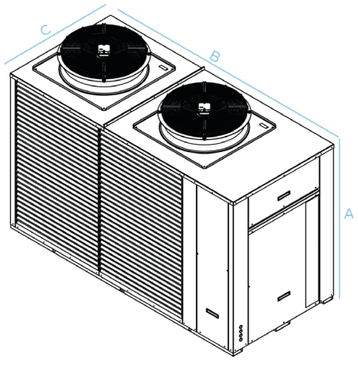
Geiser Pool

Technical data									
Heating A7/W26-28		GSP210	GSP212	GSP214	GSP418	GSP424	GSP427	GSP460	GSP4125
Heating capacity	kW	11,51	13,22	14,76	18,82	24,26	28,17	52,56	83,04
Power input	kW	2,41	2,71	3,04	2,95	3,74	5,00	10,1	16,54
COP	-	4,79	4,89	4,86	5,45	5,03	4,85	5,2	5,02
Heating A15/W26-28									
Heating capacity	kW	15,67	18,05	20,52	26,2	32,478	37,69	70,18	115,02
Power input	kW	2,36	2,67	2,96	3,72	4,83	6,12	10,23	16,68
COP	-	6,65	6,78	6,94	7,04	6,72	6,14	6,86	6,89
Heating A7/W25-35									
Heating capacity	kW	10,82	12,47	13,9	17,85	23,51	27,29	48,12	78,64
Power input	kW	2,77	3,12	3,52	4,3	5,71	7,14	11,31	18,7
COP	-	3,91	4	3,95	4,15	4,12	3,82	4,25	4,21
Other details									
Working range	°C	-10 / 45	-10 / 45	-10 / 45	-10 / 45	-10 / 45	-10 / 45	-10 / 45	-10 / 45
Minimum water rate	L/h								
Compressors / Circuits	-	1	1	1	1	1	1	1	2
Fan	-	1	1	1	2	2	2	2	2
Refrigerant	-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Power supply	V/ph/Hz	220 | 1 | 50	220 | 1 | 50	220 | 1 | 50	380 | 3 | 50	380 | 3 | 50	380 | 3 | 50	380 | 3 | 50	380 | 3 | 50
Absorbed current	A	13	14	16	9,5	11	13	18	36,3
Hydraulic connections	mm	PVC 50	PVC 50	PVC 50	PVC 50	PVC 50	PVC 50	PVC 63	PVC 110
Height	mm	1092	1092	1608	1608	1608	1608	1440	1675
Width	mm	1460	1460	1660	1660	1660	1660	2200	2200
Depth	mm	440	440	440	440	440	652	1100	1100
Weight	kg	161	162	163	199	234	298	360	550

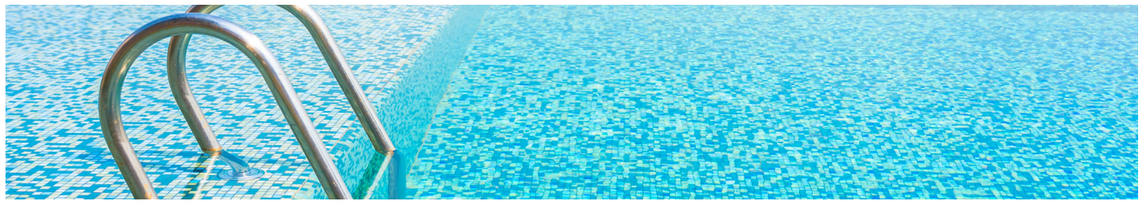


GSP210-GSP212-GSP214

GSP418- GSP424-GSP427



GSP460-GSP4125



Heating all year round

Resistance to corrosion

Easy installation

Monoblock configuration

Just heating

Solar PV compatible