

World leaders in heat pumps for over 30 years

## domestic air source HEAT PUMPS

### Air source heat pumps

A range of air to water heat pumps specifically designed for space and domestic water heating.

Calorex air source heat pumps are one of the most cost effective methods of realising a renewable energy source; free energy is available at all times in the outside air around us. The air source heat pumps harness the freely available energy from the air and upgrade it to provide usable heat for the home.



### Key benefits

- Can deliver all of a property's heating and hot water needs (Hot Water up to 65°C without electrical back up)
- Easy to install
- Simple to control
- Low maintenance
- Low starting currents
- Range from 4.5kW - 15 kW

### MCS approved heat pumps

#### Specifically designed for UK housing and climate

- Offering energy efficiency, reduced running costs, and carbon emissions savings
- Qualifying technology under Renewable Heat Incentive
- Recognised technology for achieving Code for Sustainable Homes targets
- Stand alone use (monovalent) or integration with existing heating systems (bi-valent)
- Ideal for new build or retro fit into existing housing
- Can be used to provide heating for swimming pools

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# Specification Sheet

## Domestic Air Source Heat Pumps

Model	Units	AW4502AHY	AW9002AHY	AW12002AHY
<b>Duty</b>				
<b>Air On 0°C 90%RH*</b>				
Output To Water @55°C #	kW	2.97	5.63	7.86
Electrical Input	kW	1.54	2.93	3.98
Output To Water @35°C #	kW	3.39	6.56	9.11
Electrical Input	kW	1.11	2.17	2.93
<b>Air On 7°C 87%RH* To EN 14511-2-2007</b>				
Output To Water @35°C #	kW	4.40	8.40	11.70
Electrical Input	kW	1.18	2.27	3.13
C.O.P.		3.72	3.70	3.70
<b>Air On 20°C 60%RH* @ Design Water Flow</b>				
Output To Water @55°C #	kW	6.10	11.44	15.92
Electrical Input	kW	1.78	3.35	4.54
Output To Water @35°C #	kW	6.30	11.81	16.50
Electrical Input	kW	1.37	2.58	3.51
<b>Electrical</b>				
Electrical Supply 1 Phase	V/ph/Hz	230/240V~1n/50Hz		
Minimum Supply Capacity	amps	13	25	32
Maximum Supply Fuse 1 ph N/ Type C MCB	amps	20.0	32.0	40.0
Maximum Starting Current STD (LRA) 1 ph	amps	58.0	108.0	76.0
Soft Start Amps 1 ph N (LRA)	amps	19	35	31
<b>Water Flows</b>				
Water Flow ± 20%	litres/min	7.5	15	20
Pressure Drop - Water	metres hd	1.1	0.7	0.4
Condenser Volume	litres	2.0	3.5	6.5
Water Connections	Inches	3/4" BSPM	3/4" BSPM	1" BSPM
Condensate Water Connections	Inches	3/4" Domestic Waste		
<b>Air</b>				
Air Flow Anemometer @ Air On Grille Wet Evaporator	m³/hr	3266	3000	4330
Max External Static Pressure Std	mm Wg	0	0	0
Max External Static Pressure F	mm Wg	6	6	6
<b>General Data</b>				
Gas Charge R134a	kg	3.5	5.5	7.5
Oil Type - Compressor		Polyolester Oil		
Sound Pressure @ 1 Metre	dB(A)	57	58	60
Sound Pressure @ 10 Metre	dB(A)	37	38	40
<b>Dimensions</b>				
Width Unpacked	mm	1143	1143	1583
Depth Unpacked	mm	562	562	612
Height Unpacked	mm	963	963	963
Weight Unpacked	Kg	127	164	235

\*Outdoor heat exchanger inlet temperature

#Indoor heat exchanger outlet temperature

- NOTES**
- Application limits
    - Lower limit of use to EN14511-4-2007 Outdoor heat exchanger -6°C 1m hd = 1.4psi
    - Potential Design lower limit of use Outside heat exchanger -15°C. 1l/min = 0.22 gall
    - Lowest entering temperature to EN14511-4-2007
    - Inside heat exchanger (water on) = 20°C
    - Higher limit of use to EN14511-4-2007 Outdoor heat exchanger 35°C
    - Potential Design lower limit of use Outside heat exchanger 45°C
    - Higher limit of use to EN14511-4-2007 Inside heat exchanger (water off) = 65°C
  - Allow 500mm clearance to service panels
  - Calorex reserve the right to change or modify models without prior notice
  - R134a global warming potential (GWP) 1300
- (To ensure satisfactory defrosting this assumes industry standard water heat up times from 10°C to nominal UFH temperature of 35°C)

Call our domestic heating team for advice and further information  
**01621 856611** or visit [www.calorex.com](http://www.calorex.com)

