



S-ATW Commercial LTHW Air-To-Water Heat Pump

50 – 65 kW

Air-to-Water Heat Pump

The S-ATW range comprises 2 models offering LTHW heating in 50 and 65kW outputs. The units are capable of delivering up to 58°C flow temperature. Both units deliver COP in excess of 4.1 at 7°C ambient air temperature and 35°C flow. The integrated touchscreen control system allows the units to be operated in cascade allowing up to 7 units.

All the units feature DC Inverter Brushless fans and either a single or multiple DC inverter compressors, allowing the unit to effectively 'soft start', as well as an integrated inverter driven pump. The units are also fitted standard with special thermo-acoustic shells on the compressors as well as fan noise diffusers allowing lower fan speed operation with no reduction in performance.

The units are of monobloc design being suitable for outdoor installation. Heat energy from the ambient air is obtained from the R32 refrigerant circulating inside a bank of copper and aluminium fins and then this energy is passed, after the compression cycle, to the heating circuit through a stainless steel heat exchanger. The circuit is controlled by the standard supplied temperature probes and pressure transducers and is protected by high and low pressure switches.

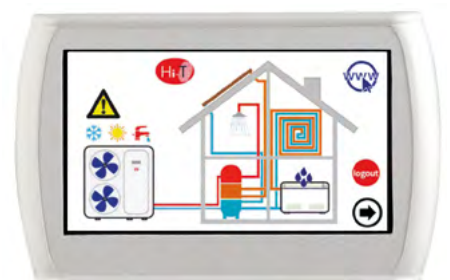
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Trusted By Commercial Heating Engineers Since 1893

Touchscreen Controller

The advanced touchscreen control system, supplied with temperature and humidity sensors, allows for intuitive control of the units. Management of up to 7 units is possible as well as weather compensation, remote management and a host of other diagnostic features. The unit is supplied with predrilled holes for easy wall fixing.

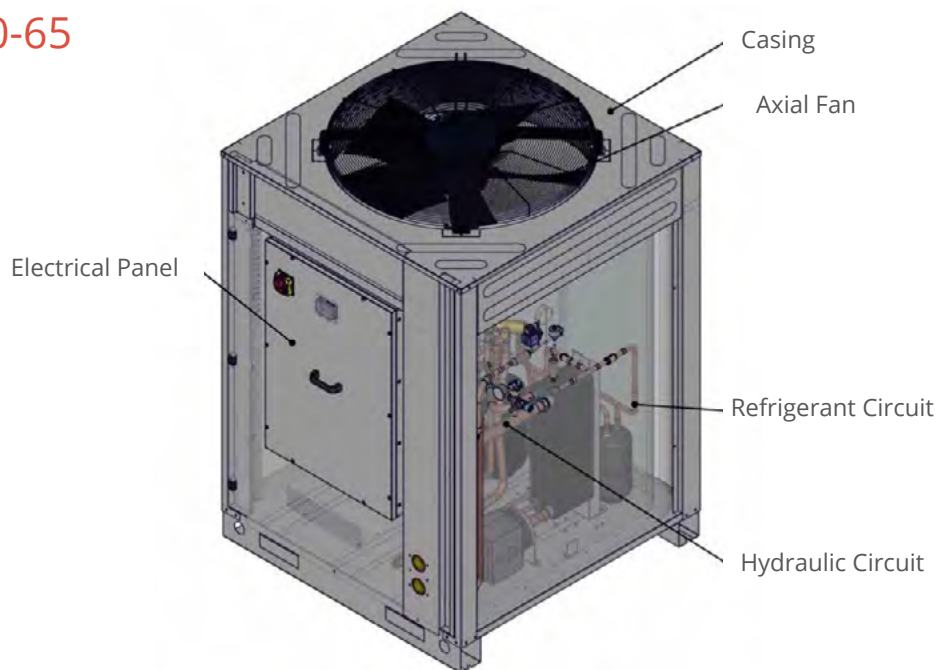


High Quality Components

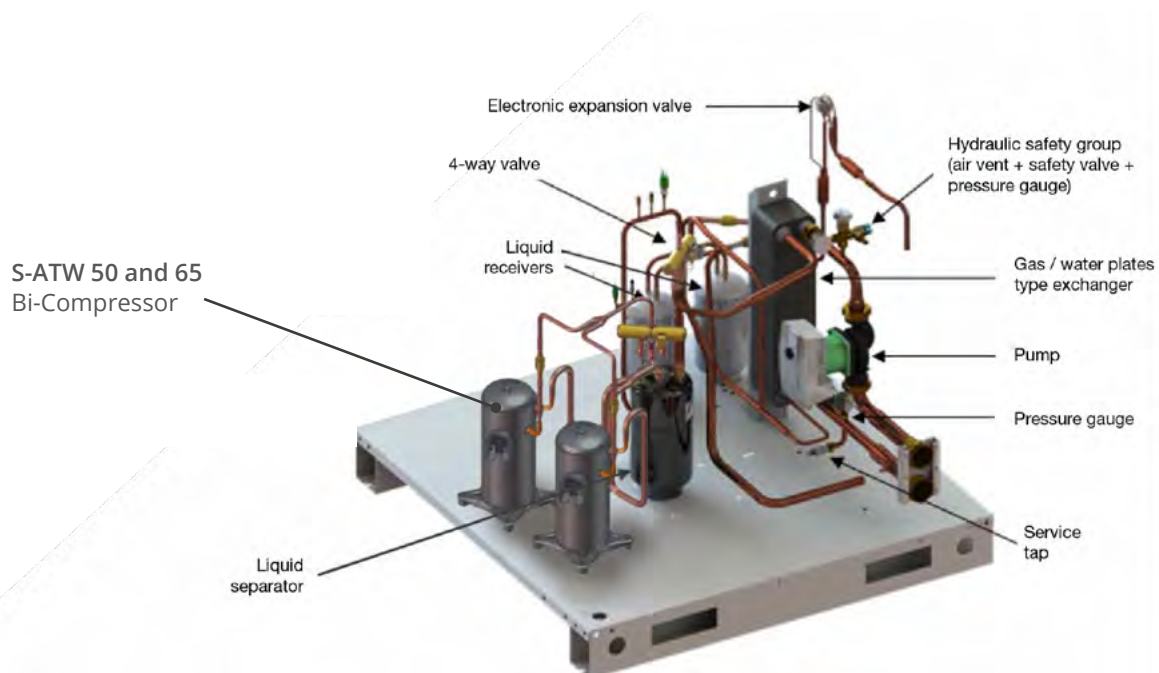
The S-ATW unit is manufactured from high quality components including:

- **DC Inverter Scroll Compressor** mounted on rubber shock absorbers complete with thermal protection and electric crankcase heater.
- **DC Inverter Brushless Fan** allowing continuous air flow modulation maximising efficiency and reducing the number of defrost cycles.
- Air to Refrigerant heat exchanger made from copper pipes with aluminium fins with an anti-mould treatment.
- **Stainless steel air to water heat exchanger** fitted with an anti-freeze protection probe.
- **Low noise kit** allowing reduced fan speed, energy consumption as well as lower noise.

S-ATW 50-65



Hydraulic and Refrigerant Circuit Schematics



Strebel S-ATW Technical Specifications

Model			50	65
Efficiency label at 35°C ^[1]			A++	A++
Efficiency label at 55°C ^[1]			A+	A+
SCOP at 35°C			4.16	3.94
A7W35	Heating Capacity	kW	50.2	66.8
	Power Input	kW	12.2	16.3
	COP		4.11	4.1
A7W45	Heating Capacity	kW	49.7	66.6
	Power Input	kW	15.4	20.4
	COP		3.23	3.26
A7W55	Heating Capacity	kW	48.3	62.0
	Power Input	kW	18.0	23.8
	COP		2.68	2.61
A2W35	Heating Capacity	kW	51.4	61.9
	Power Input	kW	15.1	20.0
	COP		3.4	3.1
A2W45	Heating Capacity	kW	50.7	64.7
	Power Input	kW	18.6	24.5
	COP		2.73	2.64
A2W55	Heating Capacity	kW	49.6	65.1
	Power Input	kW	21.7	28.7
	COP		2.29	2.27
A-2W35	Heating Capacity	kW	39.6	50.3
	Power Input	kW	14.2	19.4
	COP		2.79	2.59
A-2W45	Heating Capacity	kW	38.9	49.6
	Power Input	kW	17.4	23.1
	COP		2.24	2.15
A-2W55	Heating Capacity	kW	38.7	50.1
	Power Input	kW	20.5	27.0
	COP		1.89	1.86
A-7W35	Heating Capacity	kW	39.4	43.8
	Power Input	kW	18.0	21.0
	COP		2.19	2.09
A-7W45	Heating Capacity	kW	39.5	44.8
	Power Input	kW	22.3	25.7
	COP		1.77	1.74
A-7W55	Heating Capacity	kW	39.2	46.4
	Power Input	kW	26.0	30.1
	COP		1.51	1.54

^[1] In accordance with European regulation 811/2013

The values are referred to units without options and accessories.

COP (Coefficient Of Performance) = ratio of the total heating capacity to the effective power input of the unit

All COP data in accordance with EN 14511

The company reserves the right to change the specifications and dimensions without prior notice. E.&O.E.

Time and Temperature Controller

The sophisticated controller interface enables an easy to use intelligent control of heating circuit temperature and timing set points, defrost cycle maintenance, fan speed control as well as recording a log of alarm signals and full operating history.

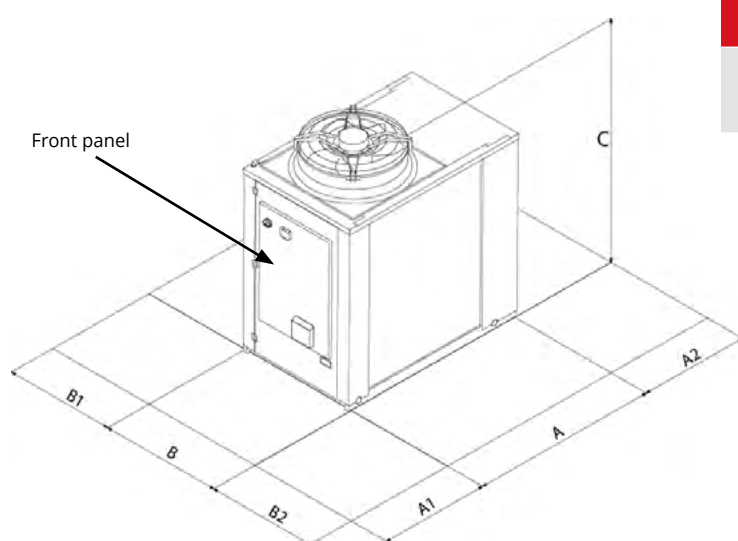


Strebel S-ATW Technical Product Data

Model		50	65
Power supply	V-p-Hz	400 - 3N - 50	
Compressor type		Inverter Scroll	
No. compressors/No. refrigerant circuits	Qty	2/1	2/1
Refrigerant Type		R32	
Plate Heat Exchanger Type	Stainless Steel Brazed Plates		
Source Heat Exchanger		Finned Coil	
Fans	Brushless Motor		
No. fans	Qty	1	1
Hydraulic fittings		1.5"	1.5"
Approx. Weight	kg	540	600
Low Noise Acoustic Setting			
Sound power level	dB(A)	81.0	82.0
Sound pressure at 1m	dB(A)	63.3	64.3
Sound pressure at 10m	dB(A)	49.2	50.2
Dimensions			
Length	mm	1850	1850
Height	mm	1980	1980
Width	mm	1110	1110

The acoustic data performances are referred to units operating in heating mode at nominal conditions A7W35. The sound power level is measured in accordance to ISO 3744 standard.

Strebel S-ATW Unit Clearances



Model		A1	A2	B1	B2
S-ATW-50/65	mm	1200	1000	1500	1500

Clearances shown are the recommended minimum distances for installation, maintenance and operation. Follow all local regulations and, in the case of doubt, contact Strebel Technical for advice. For units placed in cascade please refer to the O&M manual for clearances.

Seven Reasons to Use Strebel

We are proud of our history and the disciplines instilled in the company by our founder Josef Strebel.

It's the Strebel way - uncompromising product quality and customer care.

S	AFETY	At the heart of everything we do
T	RUSTED	By engineers since 1893
R	OBUST	High quality components
E	ASE	Of installation
B	EST	Practice throughout design, manufacturing and installation
E	NGINEERED	For long trouble free product life
L	OGICAL	Sophisticated control software

Services and Warranty

Installation, Service and Spares

All heat pumps should be installed in accordance with the relevant installation instructions by experienced engineers. Upon request Strebel Service engineers can verify heat pump installation at time of commissioning but will not carry out wiring, or make changes to incorrect wiring, between heat pump and storage vessel as this is the responsibility of the installer.

Our Service Department offers a range of servicing options that can be tailored to meet individual requirements. Please contact us for more information.

Availability of Spares to the right specification at the right time is essential to the successful operation of any plant room item. At our central Warehouse facility we stock a wide range of commonly used parts which can be dispatched directly to site for the following day assuming the order is received the morning before.



Warranty

All Strebel heat pumps are offered with the standard 2-year warranty on the main units. The date of the warranty will be considered to run from the time the heat pump is commissioned on site.

2 YEAR
WARRANTY



Customer Support

As with all Strebel products, the S-ATW heat pump range is fully supported by our excellent customer service team and experienced technical engineers. Whether you are looking for product advice or for maintenance and repair, our service team are on hand to support you and can be contacted easily via telephone or online.

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