



S-ACE 15 Modular ASHP Acoustic Enclosure

Up to 15dB(A) Reduction

S-ACE 15 Acoustic Enclosures

The S-ACE 15 acoustic enclosure offers noise reductions of up to 15dB(A) and is designed specifically for use with the range of two, three and four fan S-ASX air source heat pumps with the vertical air discharge arrangement. The S-ACE 15 is available in a modular format so that multiples of S-ASX heat pumps can easily benefit from the acoustic reductions, achieving LPA noise compliance requirements.

The S-ACE 15 modular units are offered, as standard, pre-fabricated around the S-ASX heat pump which can then be delivered, by HIAB vehicle, to site. Alternatively, the S-ACE 15 can be assembled on site with our team of skilled fabricators if required at additional cost.

Each S-ACE 15 unit comprises air intake louvres, a fan discharge attenuator pod, specially engineered acoustic walls and panels as well as an anti-vibration base with a built-in drainage system and comes in standard RAL7015 grey. Other colours can be offered upon request at additional cost.

As each site will bring different challenges each S-ACE 15 can be modified to suit. In this way some designs may achieve the acoustic targets without the need for the fan attenuator pod, with outflow being achieved by the removal of upper layer panelling instead. The configuration of air discharge can also be adjusted to suit site specific conditions so that it can be either from the side of the back.

In circumstances where greater acoustic attenuation is required then specific high performance solutions can also be engineered with reductions up to 20dB(A) achievable. More information on such solutions will be offered, if applicable, on a project-by-project basis.

Please visit our website for further information on our products and services
www.strebel.co.uk

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S-ASX Model Matching

The S-ASX ranges available include a wide array of different heat pumps. Models are available with a variety of compressors and refrigerants offering different power and temperature temperatures. All models, aside from those with R290 flammable refrigerant, can be fitted with the S-ACE 15 acoustic enclosure to reduce noise emissions as the below table makes clear. For installations with R290 refrigerant bespoke acoustic enclosure design is required from others. If a model is not listed in this table then please ask for clarity before proceeding with selection or design.

2 Fan Models	3 Fan Models	4 Fan Models
S-ASX-LPi 55	S-ASX-LPi 75	S-ASX-LPi 100
	S-ASX-VP 60, 70 & 80	S-ASX-VP 90 & 100

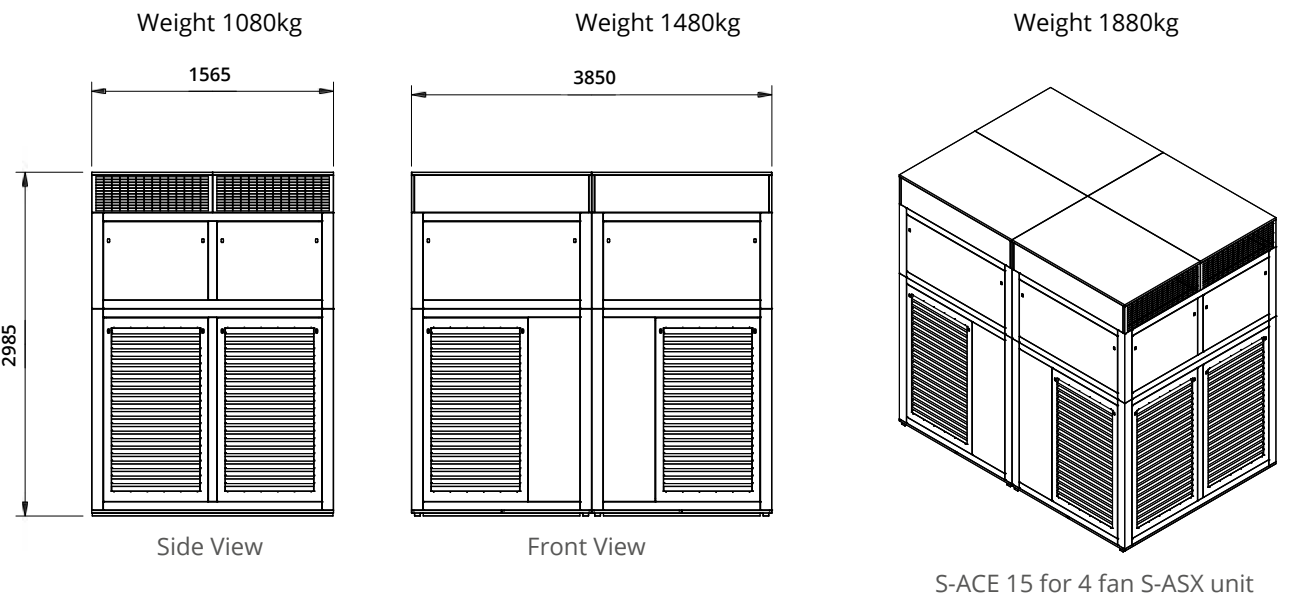
S-ACE 15 Typical Noise Reduction Figures

S-ACE 15									
Octave Band Centre Frequency	Hz	63	125	250	500	1000	2000	4000	8000
Transmission Loss	dB	8	11	16	23	26	28	30	28

S-ACE 15 overall sound reduction range is between 12 and 15 dB(A)¹ assuming S-ASX is operating normally.

Dimensions

S-ASX 2 Fan Units			S-ASX 3 Fan Units			S-ASX 4 Fan Units		
Width (mm)	Depth (mm)	Height (mm)	Width (mm)	Depth (mm)	Height (mm)	Width (mm)	Depth (mm)	Height (mm)
2550	1565	2985	3150	1565	2985	3850	1565	2985



Louvre and Wall Design

Each air intake louvre module is located around the lower section of the S-ACE 15 housing. It consists of two fabricated galvanised steel channel frames made from 1.8mm galvanised sheet steel. These channel frames are fitted with an array of horizontal parallel blades to optimise acoustic performance. Each upper blade surface is of 1.2mm galvanised sheet steel layered with an acoustic foam FT-70 material which reduces noise without impeding air movement.

All internal and external panelling is fabricated from 1.8mm galvanised sheet steel which is layered with 50mm thickness of FT-70 high performance acoustic absorptive material. Additionally, each S-ASX heat pump is internally fitted onto anti-vibration mounts to further minimise noise transmission.

The combination of louvre design and FT-70 panelling, along with a convoluted air path discharge arrangement, as required, makes the S-ACE 15 an excellent solution to acoustic reduction whilst minimising footprint.

Clearance Requirements (for all models)

Left, Right and Back (Finned Coil) 500mm
Front (Electrical Panel) 500mm but 800mm when in front of a fixed object such as a wall or fence.

¹Sound Reduction Range assumes operating under normal conditions and with a free field environment.

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-ASX-VP 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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