



Modular assembled sound-insulating enclosure

ENCLOSURE SKS

SKS enclosures ensure that noise from machinery such as pumps, turbines and engines are reduced to an acceptable level. Standard or custom-made enclosures can be delivered with an insulation value up to 50 dB depending on the application. The SKS enclosure is a modular system assembled using acoustic SKS panels and can be combined with access, maintenance, ventilation and fire safety options.

APPLICATIONS

Machinery and installations in industrial processes and the energy sector can generate disturbing and harmful noises. A sound-insulating enclosure is the solution for meeting the statutory requirements and applicable standards with respect to the areas of accessibility, maintenance, ventilation, fire safety, and so on. Many custom-work options in terms of insulation, absorption and finish mean that virtually every noise problem has an available solution, for both existing and new circumstances.

SOUND INSULATION AND ABSORPTION

A sound attenuation SKS enclosure ensures that the noise produced by the direct source is damped. The height of the sound reduction is determined by the absorption capacity and

the insulation value.

The SKS system is self-bearing and modular. There is a choice of different insulation values ranging from 34 dB up to 50 dB (see also the table on the back of this sheet). The available acoustic materials which can be applied, have sound absorption values that vary from 0,75 to 1,00.

DIMENSIONS

- Panel thickness: 75 mm or 100 mm.
- Dimensions panel: max. 500 mm x 4,000 mm.

WEIGHT

Panel weight: approx. 20 to 40 kg/m² (depending on wall thickness, implementation and absorption material).

FEATURES

- Flexible design using modular system
- Sound insulation R_w up to 50 dB
- Sound absorption value up to 1
- A combination of insulation and absorption features is optional
- Self-bearing system
- Demountable

APPLICATIONS

- Production machinery
- Cooling machinery and systems
- Compressors
- CHP systems
- Pumps
- Transformers



SOUND INSULATION

Airborne sound insulation values measured with ISO 140-3 and calculated conform ISO-717-1



MERFORD



ENCLOSURE SKS

COMPOSITION

The panels consist of Sendzimir galvanised steel plate with acoustic filling. Aluminium or stainless steel versions are also an option.

FINISH

- The panels are suited for an enamel treatment in a standard RAL colour with different qualities of your choice.
- Blind sheet-metal work on the outside. The inside surface with a perforated finish or blind.

IMPLEMENTATIONS

Also deliverable as:

- Mobile enclosure.
- Hoistable enclosure.
- Harmonica enclosure.

OPTIONS

Available in combination with:

- Package for outside use (weather resistant implementation).
- Doors, windows, ventilation, valves, recesses, etc.
- Lighting.
- Removable panels.

GUARANTEE

Merford provides you with custom-made and guaranteed, acoustic, safe and thermal solutions. Contact our sales department to discuss your specific requirements.

DISCLAIMER

Although this product sheet is drawn up meticulously, no right can be derived from its content. We reserve the right to make changes. For the most up-to-date version, please contact our sales department or visit our website.



Sound-insulating SKS enclosure for CHP systems

Sound insulation values of test cell panels measured in conformance with ISO 140-3 including single values in conformance with ISO 717-1:

Type panel	$R_w (C, C_w)$	125	250	500	1000	2000	4000	(Hz)
SKS 1	34 (0, -5)	18	22	31	42	51	56	(dB)
SKS 2	37 (-1, -6)	19	25	32	43	51	56	(dB)
SKS 3	39 (-1, -6)	22	27	35	44	52	57	(dB)
SKS 4	40 (-1, -6)	23	28	35	45	52	57	(dB)
SKS 5	43 (-1, -6)	26	32	39	46	53	57	(dB)
SKS 6	50 (-3, -9)	28	40	55	58	58	55	(dB)

Sound absorption values of the acoustic filling measured in conformance with EN ISO 354 and ISO 11654:

Filling	α	125	250	500	1000	2000	4000	(Hz)
Type A	1,00	0,40	0,90	1,00	1,00	1,00	0,95	(-)
Type B	0,85	0,60	0,75	0,85	0,85	0,85	0,75	(-)
Type C	1,00	0,60	1,00	1,00	1,00	1,00	0,95	(-)

