



High-Performance Packaged Boiler

Australia's largest certified package boiler company.



www.environmental.com.au

The Environmental Group Limited

Working across the Circular Economy

Our Purpose

Engineering a sustainable future.

Our Mission

To enable our clients to contribute to a cleaner environment by safely delivering pivotal solutions while generating value for our shareholders, staff, and partner industries.

Our Team

Our local experts are dedicated to reducing waste and boosting energy performance. Trusted worldwide to provide the highest standards of service and support.

Tomlinson Enegery Services

Part of The Environmental Group

Tomlinson Energy Services is Australia's leading provider of packaged boiler solutions, delivering the highest combustion efficiency to keep operating costs low and performance high.

We specialise in custom design, installation, commissioning, and national servicing and repairs, complemented by our 24/7 emergency support.

With offices and a dedicated service team across Australia, Tomlinson Energy Services ensures boilers operate at peak performance for maximum efficiency and reliability.

SOUND ABSORBERS FOR WEISHAUPT BURNERS



Offering Industry Leading Burners

Weishaupt produces gas and oil-fired boilers, heat pumps, and burners. These top-quality products are characterised by their meticulous development, high-quality workmanship, outstanding operational reliability, and maximum Efficiency. Their unrivalled excellence extends equally to design and function.

The Enviornmental Group Limited

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The outstanding effectiveness of Weishaupt sound absorbers



W-SH 20 in a district heating centre, with bespoke shroud cutouts for the fuel and power supplies.

Weishaupt gas, oil, and dual-fuel burners operate quietly, thanks to the aerodynamic design of their airducting parts. Likewise, their mixing assemblies have been developed to ensure that the mixing process is quiet, and their motors and fan wheels are dynamically balanced. All this helps to ensure both low noise levels during operation and the longevity of the equipment.

Sound attenuation measures

The burner, heat generator, and flue gas side equipment in every heating installation form an acoustic system. Resonance phenomena can propogate sound, with the resultant noise being more or less disturbing, depending on its intensity and frequency.

Noise reduction measures - such as the use of sound-absorbing shrouds - can be implemented to ensure that noise limits for the boiler room and adjacent areas are not exceeded.

There is a choice of sound-absorbing shrouds to absorb and dampen the noise created by the burner. To reduce the noise created by any flue gas side equipment, we would recommend the installation of a flue gas sound absorber.

Effectiveness

Weishaupt sound-absorbing shrouds work to dampen and absorb sound. By covering or insulating the source of the noise, the sound energy within them is reflected internally and thus reduced. It is important that the insulation be as complete as possible, without accoustical bridges. All sound absorbing shrouds therefore feature an integral air intake section. This, and the whole shroud, are lined with non-woven glass fleece insulation and mineral wool; the resultant high degree of absorption converts the sound energy into heat.

Assessment of the sound level

The amount of noise generated by a burner is given as a sound pressure level measured in decibels [dB(A)].

During the analysis the sound pressure levels are determined area by area using octave filtering. This gives lineally mediated levels referenced to the relative octave centre frequency, which are then displayed in the form of a graph.

The test result is an A-weighted sound pressure level, obtained by summing across the whole frequency range, taking into account weighting curve A.

The evaluation of sound emissions with the test unit conforms to EC 1672.

Construction

The sound-absorbing shrouds, which can be wheeled into and out of position and adjusted for height as required, are noteworthy for their self-supporting "flatpack" design. They comprise several easy-to-handle component parts - the base, sides, air inlet, and lid - that can be easily assembled by means of quickrelease catches to form a single soundproof unit.

The shroud has openings either to the side or below for gas, oil and electrical supply lines. An oil drip tray is available if required.

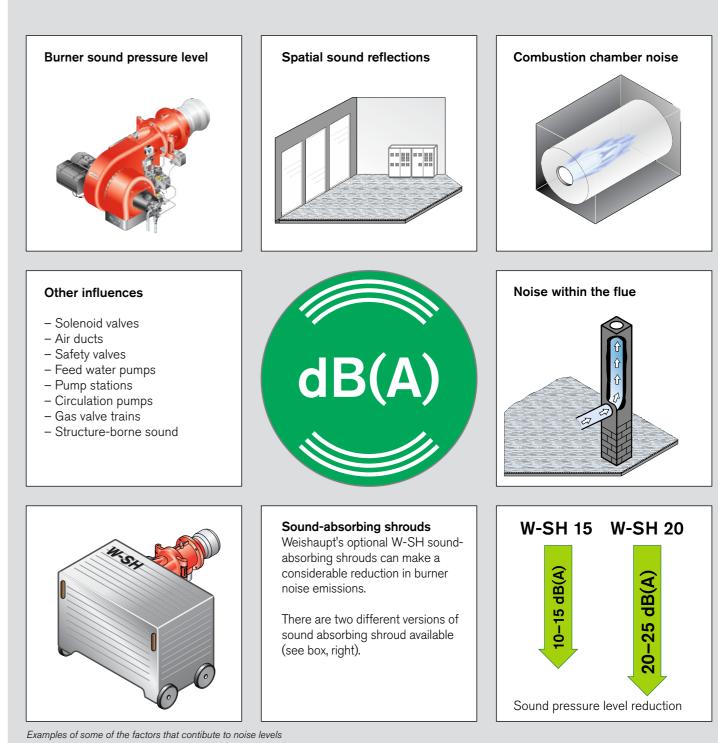
Design stage considerations

When designing a plantroom with soundabsorbing shrouds, it should be ensured that electrical cables and oil supply lines will be installed such that they do not form an obstruction that would hinder the wheeling into position of the shroud. Care must be taken, for the same reason, with regard to any protrusion of boiler plinths and to the position of any stanchions, gulleys, or walls. Gas valve train components should not be in a position that would necessitate overly large openings in the shroud, reducing its effectiveness.

There must be sufficient space available behind the shroud to allow for it to be freely wheeled back, so that servicing work can be carried out on the burner.

We will be happpy to advise you should you have special requirements to be accomodated. For example, a supporting frame might be required for the leas of the sound-absorbing shroud. A supporting frame is always required for floor clearances (to the underside of the shroud) in excess of 800 mm. The relevant ordering information can be found on pages 8 and 9.

The use of sound-absorbing shrouds results in a small suction side pressure loss. Depending on the type of shroud and the burner rating, this is in the region of 1.5 mbar.



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What is the difference between sound power level and sound pressure level?

Sound power level, L_{WA} , and sound pressure level, L_{pA} , are two different quantities that are both measured in decibels (dB(A)).

Sound emission

The sound energy that continually radiates from an acoustic source is referred to as a sound emission. The term sound power refers to the rate at which sound energy is transmitted per unit time.

Sound power level

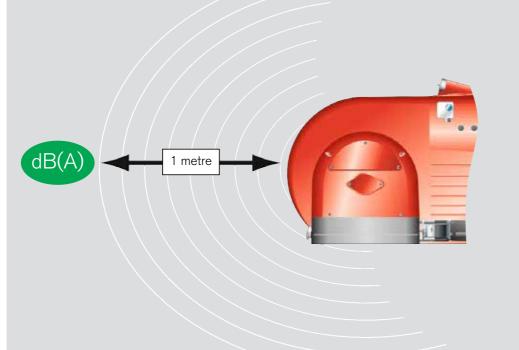
Sound power, measured in accordance with EN ISO 9614-2, is a theoretical quantity that cannot be measured directly. It is derived from a measurement of intensity on an envelope (designated volume around the burner). The result can be expressed in two different units: as the sound power, which is measured in watts, or as a sound power level (L_{WA}), which is measured in decibels. Sound power is **independent** of spatial and distance considerations. The sound power of an acoustic source causes sound pressure variations in the air, whereas the sound pressure of an acoustic source is the resultant, distance- dependent effect.

Sound pressure level

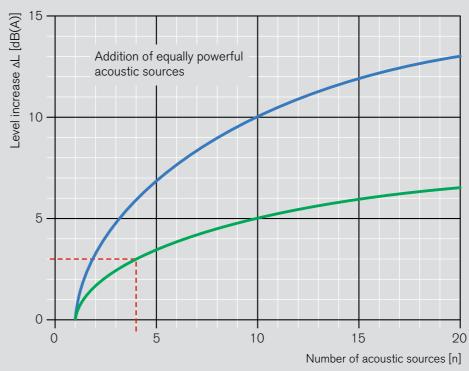
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The reference point for airborne sound was defined at the beginning of the 20th century to be $p_0 = 20 \mu$ Pa. This sound pressure was considered to be the threshold level of human hearing at a frequency of 1 kHz. It is measured at a distance of 1 metre from the acoustic source (burner). Project specifications and local regulations mostly stipulate sound pressure levels.

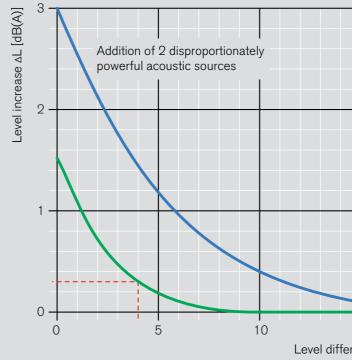




Adding sound levels from multiple acoustic sources







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15 20 Level difference L₁ – L₂ [dB(A)] Addition of equally powerful, reference-free acoustic signals.

Example: Multi-boiler plant with 4 burners

4 acoustic sources, each at:78 dB(A)Increase to level:3 dB(A)Total sound pressure level:81 dB(A)

 Machines installed in very close proximity

---- Spatially separated machines (standard for boiler plant)

Addition of two disproportionately powerful, reference-free acoustic signals.

Example: Multi-boiler plant with 2 burners

Acoustic source 1:	79 dB(A)
Acoustic source 2:	75 dB(A)
Level difference:	4 dB(A)
Level increase:	0.3 dB(A)
Total level:	79.3 dB(A)

 Machines installed in very close proximity

 — Spatially separated machines (standard for boiler plant)

The total level is calculated by adding the level increase to the highest acoustic source level.

Reducing the overall sound level

The degree of attenuation that can be achieved depends very much on the customisation of the shroud to suit the plant and an advance, site-specific check has invariably proved invaluable. Where required, a site measurement survey can be undertaken in order to record the necessary details.

The reduction of burner noise addresses only one factor in the overall noise level of a boiler room, albeit not an insignificant one. Other factors include:

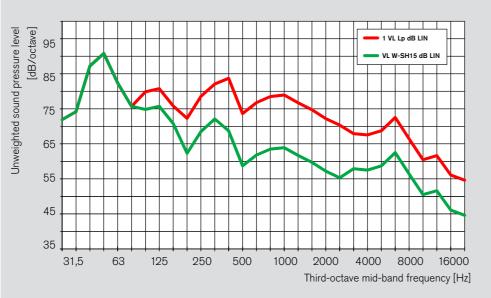
- How and where the heat exchanger is installed
- Radiation of low-frequency flame noise from the front of the boiler
- The ducting of flue gases within the heat exchanger and between the heat exchanger and the chimney
- Adjacent boiler plantPumps, ancillary equipment
- Pumps, ancinary equipment
 Design of the building store
- Design of the building etc.

The reduction of the overall noise level of a system can therefore end up being less than the reduction in burner noise achieved through the use of burner sound absorbers. The influence of the above factors under reflective conditions can often not be fully separated from burner noise. Taking this into account, the extent to which any reduction in the overall noise level of a system can be inferred from a statement on the reduction of burner noise is limited.

In particular, it should be noted that the ambient noise level in the vicinity of the burner (extraneous noise emissions) can affect the measurement of the burner noise level.

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Sound level measurement – Example 1



Sound absorbing shrouds Technical description





Front view of a W-SH15 sound absorber

Function

Use of these shrouds dampens and absorbs noise emanating from the burner.

for W-series (I) and larger (r) burners.

Composition

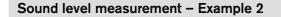
The exterior cladding is constructed from painted stainless steel. Inside, the shroud is lined with sound-absorbing, heatresistant, non-combustible mineral wool (DIN 4102 class A2 fire protection) and glass fleece. The interior of the "flat-pack"type shrouds for monarch-series burners and larger is additionally lined with galvanised, perforated plate.

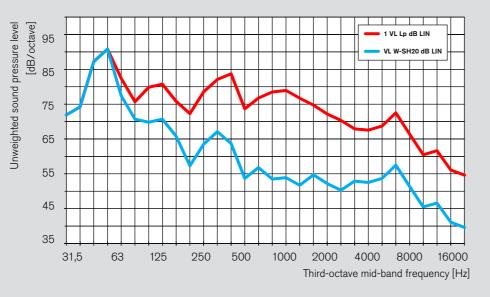
Construction

For W-series burners, the shroud is a single-piece construction with removable lid. For monarch-series burners and above, the shroud is composed of several easy-to-handle component parts – the base, sides, air inlet, and lid – that can be easily assembled by means of quick-release catches to form a single soundproof unit.

The shroud is mounted on castors and is rolled into and out of position. Two of the castors can be fixed with wheel locks when required. Shroud height is bespoke but the legs can be shortened if it proves necessary.

Air ingress is via an integral air inlet section. The shroud has cutouts either in the sides, base, or lid for gas, oil and electrical supply lines.





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Rear view of a W-SH20 sound absorber for larger burners.

Shroud dimensions

See pages 8 and 9 for dimensions and burner-relevant details. Minor site-specific deviations are permissible.

Paint finish

The shroud components are finished in the following standard colours

- Lid: matt black RAL 9005
- Sides: anthracite RAL 7016
- Base and legs: matt black RAL 9005

Other RAL colours are available upon request.

W-SH 10 and W-SH 15 shrouds Dimensions and scope of delivery

W-SH 10 sound absorbing shrouds (5–10 dB(A) attenuation)

Burner type	W x H x D mm	Order No.	No t The she
WL5 (not purflam) WL10 WL20	450 x 450 x 450 480 x 480 x 500 530 x 530 x 550	698 301 698 302 698 303	The
WG5 WG10 WG20	450 x 450 x 450 480 x 480 x 500 530 x 530 x 550	698 310 698 311 698 312	

e W-SH 10 shroud is constructed from painted eet steel and is of a hanging, single-piece design. e shroud is hung from the burner housing. Air ress is via an integrated attenuating section.

970 x 780 x 1020

1110 x 950 x 1180

970 x 780 x 1020

1000 x 830 x 1090

1080 x 950 x 1180

1120 x 950 x 1180

1160 x 978 x 1350

1210 x 1010 x 1410

1400 x 1160 x 1520

1560 x 1340 x 1760

500 x 50 x 400

600 x 50 x 400

700 x 50 x 500

600 x 50 x 900

1150 x 50 x 900

1900 x 50 x 900

600 x 50 x 400

700 x 50 x 500

900 x 50 x 600

800 x 50 x 600

1000 x 50 x 700 1350 x 50 x 750

1350 x 1150 x 1400 698 053

1780 x 1730 x 1800 698 056

2100 x 2250 x 2550 698 059

1210 x 1060 x 1380 698 035

1240 x 1060 x 1420 698 036

1750 x 1510 x 1950 698 041

1600 x 1800 x 2000 698 344

1800 x 2000 x 2400 698 345

Order

698 048

698 050

698 031

698 032

698 033

698 034

698 037

698 038

698 039

698 040

698 201

698 208

698 209

698 210

698 211

698 212

698 202

698 203

698 204

698 205 698 206

698 207

No.

Installation dimensions

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A form will be provided to record the specific measurements which must be taken on site when ordering a sound absorbing shroud. An on-site survey can be undertaken by Weishaupt instead, if preferred (additional cost on application).

W-SH 15 sound absorbing shrouds (10–15 dB(A) attenuation)

Burner type	W x H x D mm	Order No.	Burner type	W x H x D mm
WL30 WL40	560 x 600 x 560 560 x 680 x 775	698 002 698 003	WM-GL10 WM-GL20 WM-GL30	970 x 780 1110 x 950 1350 x 115
WM-L10 WM-L20	910 x 780 x 880 1000 x 950 x 1070	698 042 698 044	WM-GL50	1780 x 173
WM-L30 WM-L50	1200 x 1150 x 1200 1640 x 1730 x 1800	698 051 698 054	WKmono-GL80	
WKmono-L80	2100 x 2250 x 2550	698 057	GL3, RGL3 GL5, RGL5 GL7, RGL7	970 x 780 1000 x 83 1080 x 95
L1 L3, RL3 L5, RL5 L7, RL7	750 x 730 x 760 900 x 780 x 865 930 x 830 x 950 970 x 950 x 1010	698 004 698 005 698 006 698 007	GL8, RGL8 GL9, RGL9 RGL10 RGL11	1080 x 95 1120 x 950 1210 x 100 1240 x 100
L8, RL8 L9, RL9, RL10 RL11	1010 x 950 x 950 1090 x 1060 x 1180 1120 x 1100 x 1180	698 008 698 009 698 010	GL30, RGL30 GL40, RGL40 RGL50	1160 x 978 1210 x 101 1400 x 116
L30, RL30 L40, RL40 RL50	1050 x 975 x 1170 1110 x 1010 x 1140 1110 x 1010 x 1140	698 011 698 012 698 013	RGL60 RGL70	1560 x 134 1750 x 151
RL60 RL70	1350 x 1310 x 1660 1540 x 1510 x 1660	698 014 698 015	WKL, G, GL70 [®] WKL, G, GL80 [®]	1600 x 180 1800 x 20
WG10-20 WG/WGL30 WG/WGL40	500 x 550 x 460 560 x 600 x 650 560 x 680 x 730	698 016 698 017 698 018	Oil drip tray for	W-SH 15
WM-G10 WM-G20 WM-G30	910 x 780 x 1020 1000 x 950 x 1180 1150 x 1150 x 1400	698 043 698 045 698 052	W30-40 WM10 WM20	500 x 50 x 600 x 50 x 700 x 50 x
WM-G50 WKmono-G80	1640 x 1730 x 1800 2100 x 2250 x 2550	698 055 698 058	WM30 WM50	600 x 50 > 1150 x 50
G1, GL1 G3 G5 G7 G8	880 x 730 x 900 910 x 780 x 1020 930 x 830 x 1090 960 x 950 x 1180 1000 x 950 x 1180	698 019 698 020 698 021 698 022 698 023	WKmono80 Monarch 1–5 7–8 9–11	1900 x 50 600 x 50 x 700 x 50 x 900 x 50 x
G9, G10 G11	1100 x 1060 x 1380 1130 x 1060 x 1420	698 024 698 025	Industrial 30–40	800 x 50 >
G30 G40 G50 G60 G70	1110 x 975 x 1350 1150 x 1010 x 1410 1230 x 1160 x 1520 1300 x 1340 x 1760 1500 x 1510 x 1950	698 026 698 027 698 028 698 029 698 030	50–60 70	1000 x 50 1350 x 50
<u></u>	1500 X 1510 X 1950	090 030		

Туре	Order No.
Size 50 (except for	r G50/1)
Sizes 60 and 70	
WM-GL30/1-A ZM	1-R-3LN
WM 30/2 (except f	or WM-G, 380–415 V)
WM 30/3	
WM 50	217 315 07 3

Supporting frame for shroud legs

Туре	Order No.
W-SH 15	698 250
(Required for some heat generators and	
for all floor clearances greater than 800 mm)	

Notes:

The stated dimensions are an approximate guide only. Every shroud is manufactured to site-specific dimensions.

The W-SH 15 shroud is constructed from painted sheet steel and has a removable lid.

The shroud stands on legs with castors. The legs can be adjusted to control the height of the shroud. Air ingress is via an integrated attenuating section.

^① The shroud has a cutout for air ductwork in lieu of an integrated attenuating section

Installation dimensions

A form will be provided to record the specific measurements which must be taken on site when ordering a sound absorbing shroud. An on-site survey can be undertaken by Weishaupt instead, if preferred (additional cost on application). The shroud's legs will be manufactured to the correct length for the installation. Minor adjustments to accomodate uneven flooring are possible.

*) Please enquire regarding gas burners with FGR

W-SH 20 shrouds Dimensions and scope of delivery

W-SH 20 sound absorbing shrouds (20-25 dB(A) attenuation)

Burner type	W x H x D mm	Order No.	Burner type	W x H x mm
WL30 WL40	630 x 630 x 680 590 x 720 x 880	698 102 698 103	GL3, RGL3 GL5, RGL5 GL7, RGL7	970 x 78 1000 x 8 1120 x 9
WM-L10 WM-L20 WM-L30 WM-L50	910 x 780 x 990 1040 x 950 x 1170 1250 x 1150 x 1300 1680 x 1750 x 1820	698 142 698 146 698 151 698 154	GL8, RGL8 GL9, RGL9 RGL10 RGL11	1160 x 9 1250 x 1280 x
WKmono-L80	2100 x 2250 x 2550	698 157	GL30, RGL30	1160 x 9
L1 L3, RL3 L5, RL5 L7, RL7 L8, RL8	750 x 730 x 870 900 x 780 x 975 930 x 830 x 1060 1010 x 950 x 1160 1050 x 950 x 1160	698 104 698 105 698 106 698 107 698 108	GL40, RGL40 RGL50 RGL60 RGL70	1210 x 1 1440 x 1640 x 1830 x
L9, RL9, RL10 RL11	1130 x 1060 x 1330 1160 x 1100 x 1330	698 109 698 110	Oil drip tray for	W-SH 2
L30, RL30	1050 x 975 x 1300	698 111	W30-40	500 x 5
L40, RL40 RL50 RL60 RL70	1180 x 1010 x 1270 1270 x 1160 x 1390 1430 x 1330 x 1530 1670 x 1530 x 1720	698 112 698 113 698 114 698 115	WM10 WM20 WM30 WM50	600 x 5 700 x 5 600 x 5 1150 x 5
WG30,	590 x 640 x 780	698 117	WKmono80	1900 x
WGL30 WG40	590 x 720 x 880	698 118	Monarch 1–5	600 x 5
WM-G10 WM-G20 WM-G30 WM-G50	910 x 780 x 1130 1040 x 950 x 1330 1200 x 1150 x 1500 1680 x 1750 x 1820	698 143 698 147 698 152 698 155	7-8 9-1 Industrial	700 x 5 900 x 5
WKmono-G80	2100 x 2250 x 2550	698 158	30–40 50–60	800 x 5 1000 x
G1, GL1 G3 G5 G7 G8 G9, G10 G11	880 x 730 x 1010 910 x 780 x 1030 930 x 830 x 1200 1000 x 950 x 1330 1040 x 950 x 1330 1140 x 1060x 1530 1170 x 1060 x 1570	698 119 698 120 698 121 698 122 698 123 698 124 698 125	70	1350 x 1
G30 G40 G50 G60 G70	1110 x 975 x 1490 1150 x 1010 x 1550 1270 x 1150 x 1670 1340 x 1350 x 1820 1580 x 1530 x 2010	698 126 698 127 698 128 698 129 698 130		
WM-GL10 WM-GL20 WM-GL30 WM-GL50	970 x 780 x 1130 1150 x 950 x 1330 1400 x 1150 x 1500 1820 x 1750 x 1820	698 148 698 150 698 153 698 156		
WKmono-GL80	2100 x 2250 x 2550	698 159		

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)	Order No.
0 x 1030	698 131
30 x 1200	698 132
50 x 1330	698 133
50 x 1330	698 134
060 x 1530	698 135
060 x 1570	698 136
75 x 1490	698 137
010 x 1550	698 138
150 x 1670	698 139
360 x 1820	698 140
530 x 2010	698 141

20

0 x 400 698 201 0 x 400 698 208 0 x 500 698 209 0 x 900 698 210 0 x 900 698 211 50 x 900 698 212 0 x 400 698 203 0 x 500 698 203 0 x 600 698 204 0 x 600 698 205 0 x 700 698 205		
x 500 698 209 0 x 900 698 210 0 x 900 698 211 50 x 900 698 212 0 x 400 698 202 0 x 500 698 203 0 x 600 698 204 0 x 600 698 205 0 x 700 698 205	x 400	698 201
0 x 400 698 202 x 500 698 203 0 x 600 698 204 0 x 600 698 205 0 x 700 698 206	x 500 x 900	698 209 698 210
x 500 698 203 x 600 698 204 x 600 698 205 0 x 700 698 206	50 x 900	698 212
0 x 700 698 206	x 500	698 203
0 x 750 698 207		

Stand-off spacer for burners with integral frequencyconvertor size 4

Type

Order No.

Size 50 (except for G50/1) Sizes 60 and 70 WM-GL30/1-A ZM-R-3LN WM 30/2 (except for WM-G, 380-415 V) WM 30/3 217 315 07 332 WM 50

Supporting frame for shroud legs

Туре

Order No.

698 250 W-SH 20 (Required for some heat generators and for all floor clearances greater than 800 mm)

Notes:

The stated dimensions are an approximate guide only. Every shroud is manufactured to site-specific dimensions.

The W-SH 20 shroud is constructed from painted sheet steel and is of a "flat pack" design.

The shroud stands on legs with castors. The legs can be adjusted to control the height of the shroud. Air ingress is via an integrated attenuating section.

Installation dimensions

A form will be provided to record the specific measurements which must be taken on site when ordering a sound absorbing shroud. An on-site survey can be undertaken by Weishaupt instead, if preferred (additional cost on application). The shroud's legs will be manufactured to the correct length for the installation. Minor adjustments to accomodate uneven flooring are possible.

Please enquire regarding sound absorbing shrouds for duobloc WK-series burners.

*) Please enquire regarding gas burners with FGR.

Dimensional checklist and notes

Customer	
Project No.	
Weishaupt	
Organisation	
Name	
Tel.	
Email	

Heat generator and burner

Heat generator model		
Heat generator rating		kW
Flat-fronted heat generator	□ Yes	🗆 No
(If no, a dimensional drawing of the front of the	heat generator must b	e provided)
Burner type		
Frequency convertor	□ Yes	🗆 No
Burner-mounted without fan		

□ Burner-mounted with fan (size 4)

□ Outside of the sound absorbing shroud

Gas valve train	Gas 1	Gas 2
Double gas valve assembly type		
Double gas valve assembly DN		
Gas fed from right-hand side		
Gas fed from left-hand side		
Gas fed from below		
Ignition pilot line		
VPS-type valve proving		
Gas valve train junction box		
Other fittings, gas 1		
Other fittings, gas 2		

Oil supply

- □ Right-hand side □ Left-hand side □ From below
- Burner with electromagnetic clutch
- Burner with burner-mounted pump station
- Burner with separate pump station

Contact person for queries

Company	
Person	
Tel.	
Email	
Street	
Town	
Country	

Electrical connections

□ Right-hand side	Left-hand side	From below
☐ Flexible	Ducted	

Attenuation

10-15 dB(A)*	20-25 dB(A)*	

* Please refer to page 6, "Reducing the overall sound level".

Colour

- □ Standard (Anthracite, RAL 7016)
- Bespoke colour, RAL No.

Spatial data

- □ Wheelable version
- □ Shroud air inlet above the burner
- □ Shroud air inlet behind the burner
- □ Other position (please enquire)

Access to the plant room

- □ Level
- □ Via steps
- Dimension of narrowest access point

mm

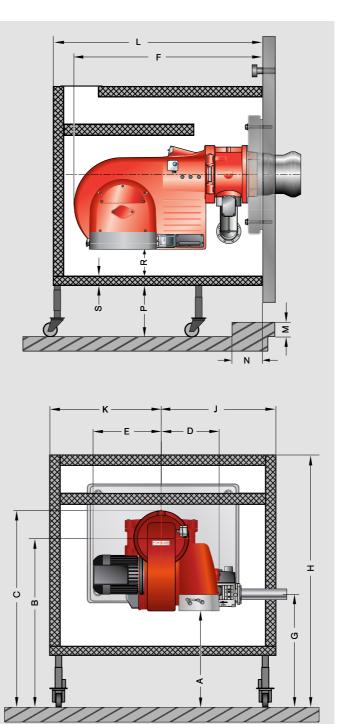
Delivery of the sound absorber

- □ Flat-packed
- □ Seaworthy packaging

Note:

Additional costs may be incurred in accomodating any site-specific dimensions that reveal details which were unknown to Weishaupt at the quotation stage.

Dimensions for checklist



Minimum burner firing height

Dimensions P, R, and S should be noted for standard, wheelable shrouds. Dimension A should be checked. It may be possible to accomodate a reduced firing height through the use of a special-execution shroud (additional costs might be incurred). Solutions may include:

- A non-wheelable shroud
- A lowered section in the base plate
- Etc.

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Minimum clearances and attenuation levels

Burner type	Minimum clearance		Attenuation W-SH15 W-SH20	
	Р	R	S	S
	mm	mm	mm	mm
W 5	80	50	25 ¹⁾	-
W 10-40	80	50	25	40
WM 10	80	120	40	60
WM 20-30	120	150	40	60
WM 50	150	200	60	80
WKmono80	190	200	60	80
3–5	80	120	40	60
7-11	120	150	40	60
30-40	120	150	60	80
50-70	150	200	60	80

1) WSH10

Burner dimensions

А	FFL to underside of burner	mm
В	Burner firing height	mm
С	FFL to topside of burner	mm
D	Burner width, right-hand side	mm
Е	Burner width, left-hand side	mm
F	Burner length	mm
G	FFL to CL of gas valve train 1	mm
G	FFL to CL of gas valve train 2	mm

Shroud dimensions

Н	Max. overall height	mm
J	Max. shroud width, right-hand side	mm
K	Max. shroud width, left-hand side	mm
L	Max. length of shroud	mm

Plinth dimensions

М	Height of plinth	mm
Ν	Projection of plinth under burner	mm

Supporting frame

□ Yes 🗆 No

Leg lengths (dimension P) greater than 800 mm require a supporting frame. Control calculation: P = A - R - S (see table for values)

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Contact Us



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