

Acoustic and noise control

APPLICATIONS
FOR NOISE
CONTROL

Acoustic



Duct Silencers

BM-YS-01 Circular Duct Silencer



The **BM-YS-01** is a high-performance round duct silencer developed by Birlik Menfez for integration between circular ventilation ducts.

The construction features an **outer spiral-wound galvanized steel casing** and an **inner perforated sheet steel wall**, ensuring mechanical durability and acoustic performance.

Between the outer and inner shells, the unit is filled with **50 mm high-density mineral wool**, delivering effective sound absorption. A **polyester protective fabric** lining prevents any dispersion of fibers into the airstream, ensuring clean and safe airflow.

For enhanced noise attenuation requirements, **multiple BM-YS-01 silencers can be installed in series**.

Key Features:

- Diameter-compatible with standard circular duct sizes
- Noise-reducing mineral wool insulation (50 mm)
- Fiber barrier: polyester fabric between inner wall and insulation
- Casing materials: galvanized steel (standard), optional stainless steel or aluminium
- Modular installation capability for increased attenuation
- Suitable for commercial and industrial HVAC applications

Technical Information

BM-YS-01

CATEGORY	PARAMETER	DETAIL
CONSTRUCTION	Shape	Round
	Length	600,800,900,1000, 1200 mm
	Minimum Diameter	100 mm
	Maximum Diameter	630 mm
MATERIAL	Standard Material	Galvanised steel (275 g/m²)
	Insulation	50 mm mineral wool with polyester fabric
MOUNTING	Connection (Ø 100 – 315 mm)	Male with system seal
	Connection (Ø 355 – 630 mm)	Female

Performance

BM-YS-01

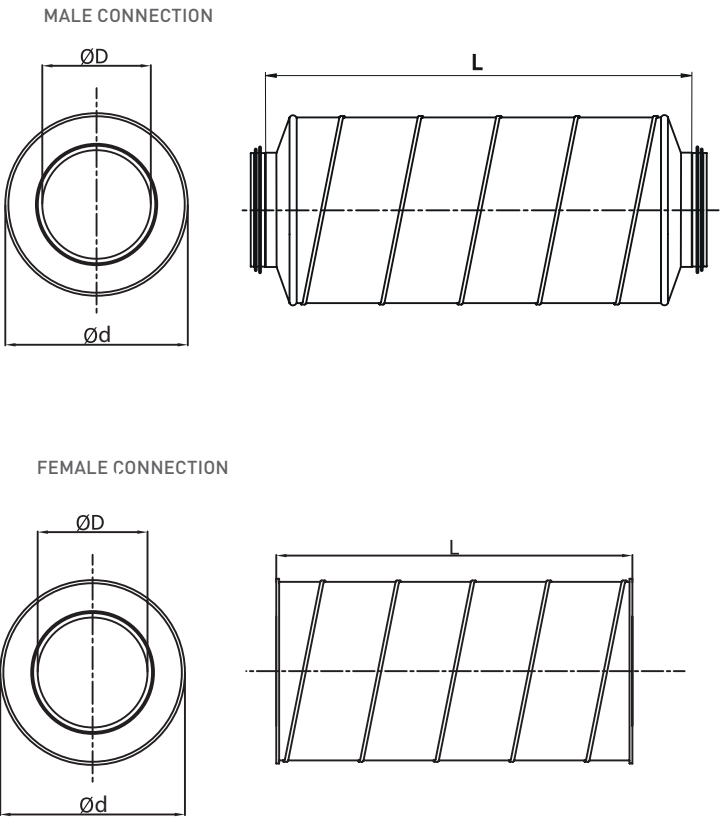
Ø (mm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
100	6	12	19	32	48	51	29	31
125	8	12	19	32	44	47	28	28
160	9	10	16	26	40	42	23	25
200	7	8	14	23	38	39	21	23
250	6	7	11	19	35	35	20	22
315	4	6	11	21	32	32	19	20
355	4	7	15	22	27	24	18	19
400	3	10	14	21	23	21	17	19
500	3	9	13	20	19	17	17	17
630	3	9	12	17	17	14	16	15

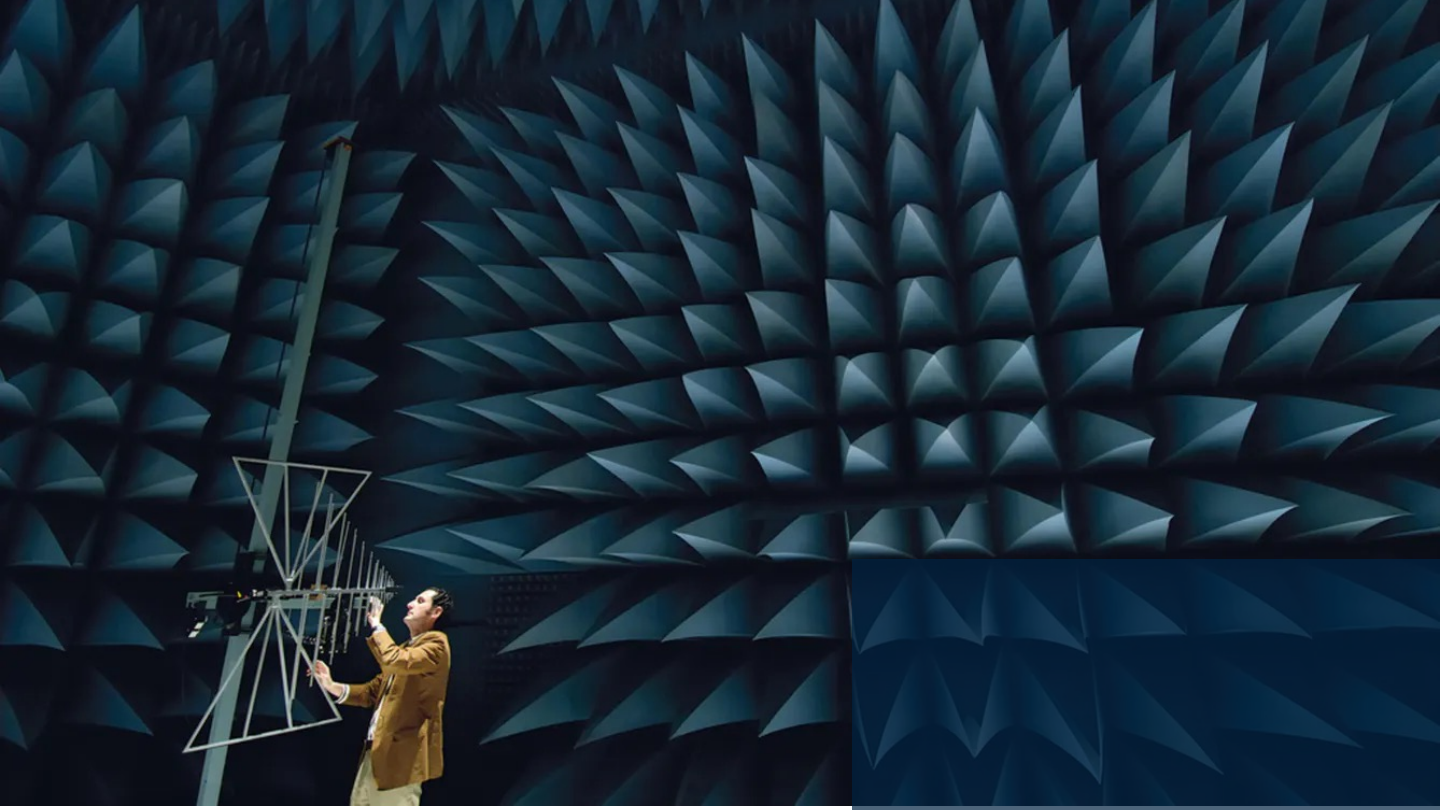
Dimensions

BM-YS-01

ØD (mm)	Ød (mm)	L (mm)
100	200	900
125	224	900
160	250	900
200	300	900
250	355	1200
315	400	1200
355	450	1200
400	500	1200
500	600	1200
630	710	1200

L alternative = 600, 700, 800 mm





Application for noise control

BM-YS-01

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