

SILENT MV

Ultra Quiet In-line Duct Fans



Ultra Quiet

Ultra quiet and low profile helicocentrifugal in-line fans suitable for a wide range of domestic and commercial applications. Fitted with sound absorbent insulation and manufactured with an adjustable two speed 230V 50Hz motor*.

Easy to install and maintain, the SILENT MV fans guarantee exceptional performance with significant noise reduction.

*Except for the SILENT MV 160/100, which is fitted with a patented silent axial motor.

Features

- Sound absorbent insulation
- 360° rotating connection box
- Sealed for life ball bearings
- Fitted with a two speed motor
- IP44 rated
- Five year guarantee

Benefits

- Incredibly silent running
- High performance
- Complies with building regulations
- Easy installation
- Easy maintenance
- Flexible location

Presenting the world's quietest fans in their class

Presenting the world's quietest in-line fan range in their class, the SILENT MV range creates a quantum leap forward in technology to improve the acoustic performance of up to 12 dB(A) compared with similar products on the market.

The SILENT MV range is the result of an intense R&D, technological and economic investment to ensure that you can be guaranteed of a product range that provides exceptional performance with significant noise reduction.

Following extensive aerodynamic testing, we have been able to not only reduce the amount of noise produced, but also ensure that the noise level that is actually emitted is at a far lower frequency, providing a quiet and ambient environment.

By installing the SILENT MV, you will never experience the disturbance of noisy ventilation again.



Versatility

Hairdressers



Public Spaces



Libraries



Offices



The SILENT MV fan range offers one of the most versatile fan systems on the market today. Due to its flexibility it can be used in a multitude of small and medium fan installations. Especially advantageous in applications where the system may be running for long periods throughout the day, the acoustic benefits of the SILENT MV fans ensure that optimum comfort is achieved without the disturbance of noisy ventilation systems.

Once installed, you'll never know it exists

Innovative Engineering

The SILENT MV has been designed with state of the art technology to achieve results to satisfy the most demanding specifier. The low profile and compact design of the helicocentrifugal fans enable them to be installed where space is restricted, such as false ceilings.

The unique perforated design of the casing directs sound waves into the high density sound absorbent material to prevent air leakage and minimise noise.



The connection box can be rotated 360° to enable the power cable to be easily connected.



Duct connections are constructed out of flexible rubber gaskets, which minimise sound and vibrations to the ducts.



Support bracket can be used to install the SILENT MV fans on either a wall or a ceiling.

How does it work?

Sound waves produced inside the SILENT MV are directed through the perforated inner cover and absorbed by the layer of sound absorbent material.

Ease of Maintenance

The central body of the SILENT MV can be easily dismantled from the connections to enable rapid maintenance, without the need to interfere with the ducting.

Ease of Installation



Loosen the fixing clamps

Open clamps on both sides



Remove the fan body

Remove the terminal box lid



Carry out the wiring of the unit

Replace the fan body and tighten the clamps



The SILMV1300/250 and SILMV2000/315 are in-line mixed flow fans with a low profile to meet ventilation needs in domestic, commercial and industrial applications, especially where sound may be a problem. Constructed from sheet steel with epoxy polyester paint, acoustic insulation (MO) glass fibre, within an outer shell. External terminal box IP55. Removeable fan body with 2 speed motor, single phase 230V-50/60Hz speed controllable, IP44, Class F, external rota aluminium motor with capacitor and thermal protection.

These fans retain the same philosophy as the rest of the SILENT MV range; to improve comfort whilst achieving a substantial reduction in radiated noise level, without sacrificing airflow performance and ease of installation.

Low Profile

Ideal for installations where space is restricted, as in false ceilings.



Support Bracket

Suitable for wall or ceiling mounting, fixing brackets to the motor body are included.



Low Noise Level

1. Aerodynamic inlet to improve airflow and reduce sound
2. Attenuating perforated skin



Performance Data ▼

MODEL/ORDER CODES	Speed (r.p.m.)	Watts (W)	Amps (A)	Airflow l/s (m³/h)	Max. Working Temp (°C)	dB(A) @ 3m	Ø Duct (mm)	
SILMV160/100S SILMV160/100T*	Low	2200	12	0.10	39 (140)	40	21	100
	High	2500	25	0.16	50 (180)	40	24	100
SILMV250/100	Low	1850	18	0.10	50 (180)	40	19	100
	High	2200	24	0.11	67 (240)	40	24	100
SILMV350/125	Low	1900	22	0.10	78 (280)	40	19	125
	High	2250	30	0.13	106 (380)	40	19	125
SILMV500/150	Low	1950	44	0.19	119 (430)	60	17	150
	High	2500	50	0.22	161 (580)	60	22	150
SILMV800/200	Low	2480	60	0.26	194 (700)	60	18	200
	High	2780	95	0.30	244 (880)	60	19	200
SILMV1000/200	Low	2000	100	0.45	222 (800)	60	20	200
	High	2500	120	0.50	306 (1100)	60	21	200

MODEL/ORDER CODES	Speed (r.p.m.)	Watts (W)	Amps (A)	Airflow l/s (m³/h)	Sound Pressure Level* dB(A)			Weight (Kg)	
					Inlet	Radiated	Discharge		
SILMV1300/250	Low	2190	145	0.61	297 (1070)	42	31	49	20
	High	2570	197	0.83	353 (1270)	47	35	53	
SILMV2000/315	Low	2300	191	0.79	417 (1500)	44	33	48	25
	High	2680	297	1.28	492 (1770)	50	39	55	

* Timer models are commissioned at installation to operate at high speed. Auxiliary two speed switches or variable speed controllers can be used with standard models.

** Sound pressure level at 3 metres in free field conditions at points B and E on curves

Electrical Accessories ▼

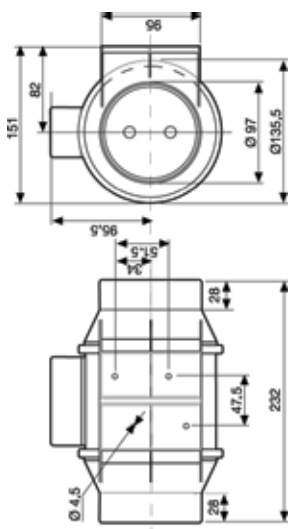
PRODUCT	CODE(S)
Variable Speed Controllers	REB-1N Surface mounted
	REB-1NE Flush mounted

Related Information ▼

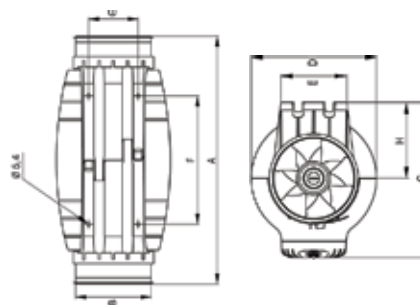
Description	Page Number(s)
Commercial & Industrial Ancillaries	141-148
Wiring Diagrams	161

Dimensions (mm) ▼

160/100S | 160/100T

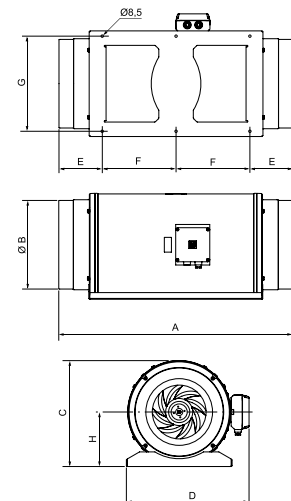


250/100 | 350/125 | 500/150 | 800/200 | 1000/200



MODEL	A	B	C	D	E	F	G	H
SILMV250/100	575	97	252	204	100	250	83	121
SILMV350/125	462	123	252	204	100	250	83	121
SILMV500/150	484	147	274	221	116	250	96	134
SILMV800/200	568	198	327	264	145	340	129	164
SILMV1000/200	568	198	327	264	145	340	129	164

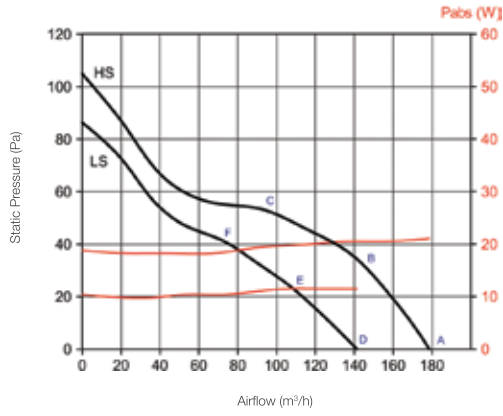
1300/250 | 2000/315



MODEL	A	B	C	D	E	F	G	H
SILMV1300/250	680	248	331	387	140	200	280	171
SILMV2000/315	825	312	373	432	152	260	335	192

Performance Curves ▼

SILENT MV 160/100



Low Speed

Inlet	63	125	250	500	1,000	2,000	4,000	8,000	LwA	LpA*
D	23	26	37	43	49	45	36	27	51	31
E	22	27	39	43	47	43	35	26	50	30
F	22	29	41	44	48	44	35	27	51	31

Radiated	63	125	250	500	1,000	2,000	4,000	8,000	LwA	LpA*
D	23	17	35	32	33	37	28	17	41	20
E	22	18	37	32	31	36	27	17	41	20
F	22	21	39	33	32	36	27	17	42	22

Outlet	63	125	250	500	1,000	2,000	4,000	8,000	LwA	LpA*
D	29	32	34	45	48	44	37	27	51	30
E	28	32	35	45	46	42	35	27	50	29
F	28	33	36	46	47	42	36	27	51	30

High Speed

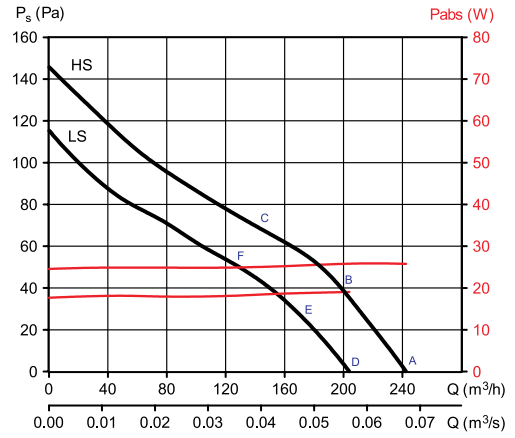
Inlet	63	125	250	500	1,000	2,000	4,000	8,000	LwA	LpA*
A	24	32	39	46	52	49	40	31	54	34
B	23	32	40	46	51	47	39	30	54	33
C	23	34	43	47	51	47	39	30	54	33

Radiated	63	125	250	500	1,000	2,000	4,000	8,000	LwA	LpA*
A	24	24	37	34	36	41	32	21	44	24
B	23	24	38	35	35	39	31	20	44	23
C	23	26	41	36	35	39	31	20	44	24

Outlet	63	125	250	500	1,000	2,000	4,000	8,000	LwA	LpA*
A	30	34	37	48	51	47	41	31	54	33
B	29	35	37	48	49	46	39	30	53	33
C	28	36	39	49	50	45	39	30	54	33

*Sound pressure level radiated at 3m, in free field condition, with rigid ducts at the inlet and outlet.

SILENT MV 250/100



Low Speed

Inlet	63	125	250	500	1,000	2,000	4,000	8,000	LwA	LpA*
D	22	38	42	47	48	38	32	26	52	31
E	23	34	43	46	48	39	32	27	51	31
F	24	33	39	49	54	43	35	29	56	35

Radiated	63	125	250	500	1,000	2,000	4,000	8,000	LwA	LpA*
D	22	33	35	34	28	24	19	17	39	19
E	23	29	36	33	28	25	19	18	39	19
F	24	28	32	36	34	29	22	20	40	20

Outlet	63	125	250	500	1,000	2,000	4,000	8,000	LwA	LpA*
D	26	36	40	47	41	34	29	24	49	29
E	25	34	41	46	42	35	31	25	49	28
F	25	33	38	49	46	37	33	26	51	31

High Speed

Inlet	63	125	250	500	1,000	2,000	4,000	8,000	LwA	LpA*
A	26	32	46	53	53	44	38	30	57	36
B	24	36	46	53	52	44	38	30	56	36
C	25	35	42	51	55	47	40	34	57	37

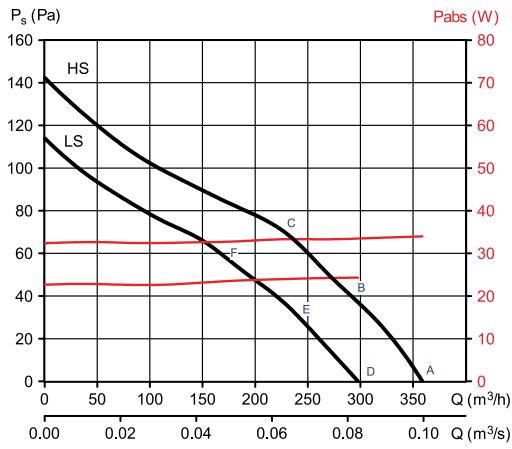
Radiated	63	125	250	500	1,000	2,000	4,000	8,000	LwA	LpA*
A	26	28	40	40	36	31	25	18	44	24
B	24	32	40	40	35	31	25	18	44	24
C	25	31	36	38	38	34	27	22	43	23

Outlet	63	125	250	500	1,000	2,000	4,000	8,000	LwA	LpA*
A	30	33	45	53	46	40	36	28	55	34
B	26	35	43	52	45	40	36	28	54	33
C	26	35	39	51	49	42	38	31	54	33

*Sound pressure level radiated at 3m, in free field condition, with rigid ducts at the inlet and outlet.

Performance Curves ▼

SILENT MV 350/125



Low Speed

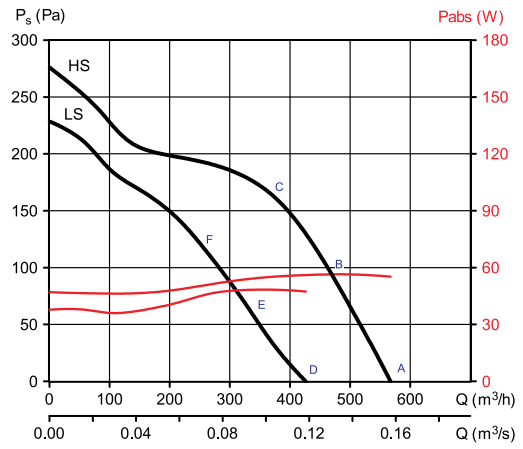
Inlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
D	21	27	42	46	51	38	31	25	53	32
E	22	29	40	46	53	39	34	26	54	34
F	30	33	41	51	52	46	40	33	55	35
Radiated	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
D	18	22	34	33	34	20	13	13	39	18
E	19	24	32	33	36	21	16	14	39	19
F	27	28	33	38	35	28	22	21	41	21
Outlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
D	24	27	43	45	46	38	30	25	50	29
E	23	29	40	45	47	35	32	26	50	29
F	29	34	41	49	46	41	38	31	52	31

High Speed

Inlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
A	22	28	41	53	49	44	37	30	55	35
B	22	27	39	51	49	42	37	30	54	33
C	23	31	48	53	51	46	41	32	56	36
Radiated	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
A	22	23	32	39	32	25	18	14	41	20
B	22	22	30	37	32	23	18	14	39	19
C	23	26	39	39	34	27	22	16	43	22
Outlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
A	29	30	43	53	50	45	38	30	56	35
B	25	27	40	50	47	40	36	29	52	32
C	24	31	46	52	47	42	40	32	54	34

*Sound pressure level radiated at 3m, in free field condition, with rigid ducts at the inlet and outlet.

SILENT MV 500/150-160



Low Speed

Inlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
D	28	33	46	54	53	51	45	38	58	38
E	25	31	41	50	48	44	37	30	53	33
F	25	37	48	56	52	49	42	35	59	38
Radiated	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
D	23	25	34	37	38	35	26	23	43	22
E	20	23	29	33	33	28	18	15	38	17
F	20	29	36	39	37	33	23	20	43	23
Outlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
D	26	33	47	53	51	47	41	33	56	36
E	25	31	44	50	48	41	33	27	53	33
F	26	37	50	55	50	43	37	31	57	37

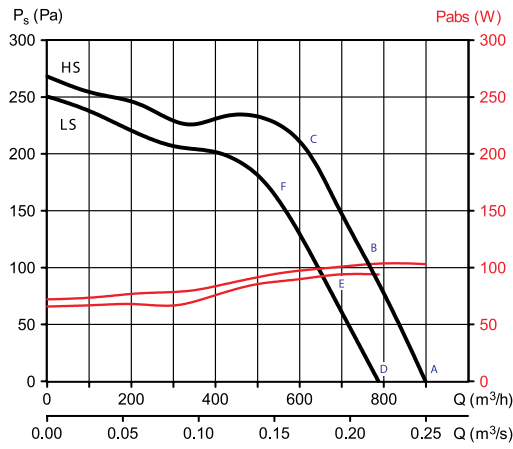
High Speed

Inlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
A	24	35	51	58	57	56	51	47	63	42
B	25	33	48	56	55	54	46	42	60	40
C	24	33	49	57	53	52	46	40	60	39
Radiated	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
A	12	21	42	39	37	35	23	18	45	25
B	13	19	39	37	35	33	18	13	43	22
C	12	19	40	38	33	31	18	11	43	22
Outlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
A	38	38	52	60	58	53	49	43	63	43
B	35	35	53	58	57	50	44	38	62	41
C	30	33	50	57	56	48	42	36	60	40

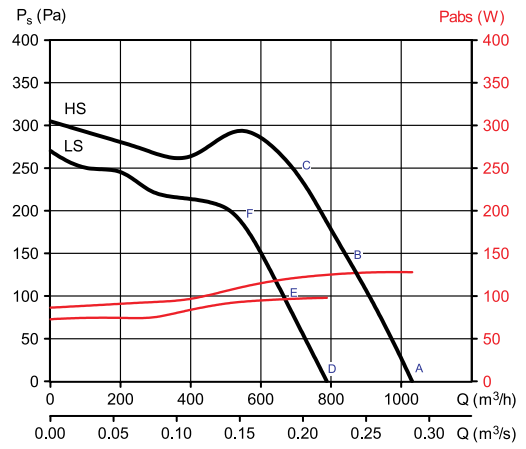
*Sound pressure level radiated at 3m, in free field condition, with rigid ducts at the inlet and outlet.

Performance Curves ▼

SILENT MV 800/200



SILENT MV 1000/200



Low Speed

Inlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
D	25	37	48	55	61	57	53	46	64	43
E	24	35	48	52	58	54	49	42	61	40
F	29	38	51	58	58	55	50	45	63	42

Radiated	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
D	12	26	30	34	38	33	21	15	41	20
E	11	24	20	31	35	30	17	11	38	18
F	16	27	33	37	35	31	18	14	41	20

Outlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
D	45	47	52	56	59	58	54	46	64	43
E	37	45	54	53	55	54	50	42	61	40
F	31	44	54	57	56	53	50	43	62	41

High Speed

Inlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
A	27	40	48	57	61	61	57	50	66	45
B	25	38	46	55	58	58	54	46	63	42
C	23	38	47	57	59	58	53	48	64	43

Radiated	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
A	12	31	29	35	37	36	24	18	42	21
B	10	29	27	33	34	33	21	14	39	19
C	8	29	28	35	35	33	20	16	40	19

Outlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
A	49	50	51	59	62	62	59	51	67	47
B	42	45	49	58	59	58	55	47	64	44
C	36	42	50	58	59	57	54	47	64	43

*Sound pressure level radiated at 3m, in free field condition, with rigid ducts at the inlet and outlet.

Low Speed

Inlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
D	27	38	48	54	61	57	53	46	64	43
E	23	37	49	52	59	54	49	42	61	41
F	26	39	52	57	59	56	51	45	63	43

Radiated	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
D	14	29	32	33	40	33	21	14	42	22
E	10	28	33	31	38	30	17	10	41	20
F	13	30	36	36	38	32	19	13	42	22

Outlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
D	44	45	53	55	59	58	54	46	64	43
E	35	41	53	52	55	54	50	41	60	40
F	28	40	54	58	57	54	50	44	62	42

High Speed

Inlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
A	28	43	49	58	62	65	61	53	68	48
B	27	42	46	56	60	61	56	49	65	45
C	25	42	47	58	61	61	56	50	66	45

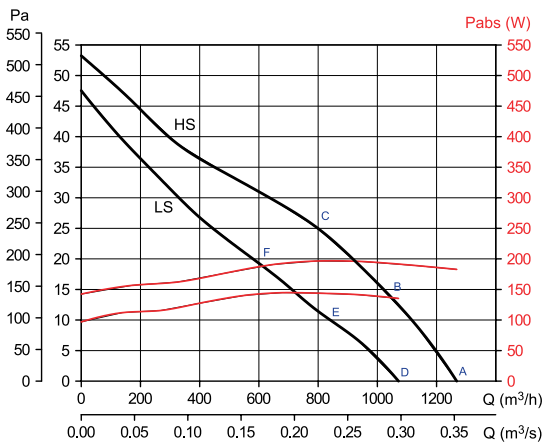
Radiated	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
A	14	35	32	36	39	39	27	19	44	24
B	13	34	29	34	37	35	22	15	42	21
C	11	34	30	36	38	35	22	16	42	22

Outlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
A	50	50	52	59	65	65	61	54	70	49
B	43	46	49	58	61	60	57	50	66	45
C	35	44	51	59	60	59	56	50	65	45

*Sound pressure level radiated at 3m, in free field condition, with rigid ducts at the inlet and outlet.

Performance Curves ▾

SILENT MV 1300/250



Low Speed

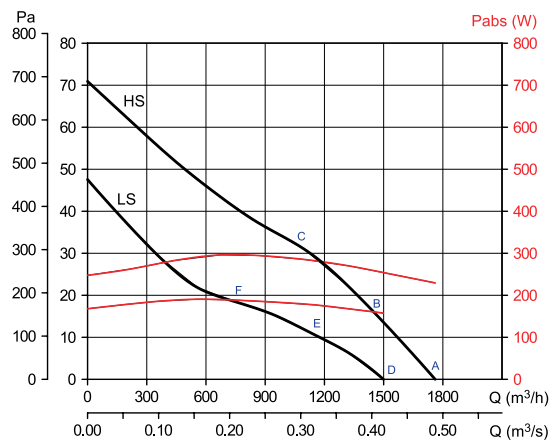
Inlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA
D	30	40	59	55	59	57	53	47	64
E	35	40	57	56	56	55	51	46	63
F	38	45	59	57	53	53	49	42	63
Discharge	63	125	250	500	1.000	2.000	4.000	8.000	LwA
D	30	43	58	63	72	59	50	43	73
E	29	44	57	65	66	57	47	41	69
F	32	48	59	65	62	55	45	38	68
Radiated	63	125	250	500	1.000	2.000	4.000	8.000	LwA
D	24	32	44	39	53	44	34	33	54
E	29	32	42	40	50	42	32	32	52
F	32	37	44	41	47	40	30	28	50

High Speed

Inlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA
A	30	42	60	59	62	61	58	52	67
B	32	43	62	60	61	60	56	51	67
C	36	47	63	60	58	58	55	48	67
Discharge	63	125	250	500	1.000	2.000	4.000	8.000	LwA
A	33	45	60	68	72	65	54	48	74
B	30	46	61	69	71	63	52	47	74
C	32	51	62	69	67	60	51	44	72
Radiated	63	125	250	500	1.000	2.000	4.000	8.000	LwA
A	26	31	46	42	55	48	39	38	57
B	28	32	48	43	54	47	37	37	56
C	32	36	49	43	51	45	36	34	54

Sound power levels dB(A) at octave bands for inlet, discharge and radiated. For low (A or D), medium (B or E) and high (C or F) pressure, for each model. Test in accordance with ISO 13347-3 2004

SILENT MV 2000/315



Low Speed

Inlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA
D	37	47	59	57	60	58	54	48	65
E	34	47	59	56	58	56	53	47	64
F	32	48	59	55	56	54	51	43	63
Discharge	63	125	250	500	1.000	2.000	4.000	8.000	LwA
D	34	52	62	63	67	60	47	43	70
E	34	53	60	62	66	58	44	41	69
F	31	55	64	61	61	55	41	37	68
Radiated	63	125	250	500	1.000	2.000	4.000	8.000	LwA
D	27	40	43	45	52	49	45	37	55
E	24	40	43	44	50	47	44	36	54
F	22	41	43	43	48	45	42	32	52

High Speed

Inlet	63	125	250	500	1.000	2.000	4.000	8.000	LwA
A	34	48	60	63	66	64	59	55	70
B	34	49	63	62	65	64	60	55	70
C	37	56	64	63	63	62	58	52	70
Discharge	63	125	250	500	1.000	2.000	4.000	8.000	LwA
A	42	54	67	69	73	66	52	49	76
B	38	55	66	67	73	65	51	49	75
C	36	61	68	71	68	62	49	46	74
Radiated	63	125	250	500	1.000	2.000	4.000	8.000	LwA
A	23	36	44	50	57	54	49	43	60
B	23	37	47	49	56	54	50	43	60
C	26	44	48	50	54	52	48	40	58

Sound power levels dB(A) at octave bands for inlet, discharge and radiated. For low (A or D), medium (B or E) and high (C or F) pressure, for each model. Test in accordance with ISO 13347-3 2004