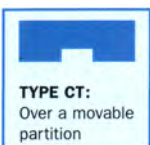


APPLICATIONS:

On doors, on or in walls, in ceilings or in ventilation shafts.

- Business & Meeting Rooms
- Music & Conference Rooms
- Auditoriums & Hospitals
- Doctors' Consulting Rooms
- Laboratories & Test Rooms
- Kitchens & Bathrooms
- Hotel Guest Rooms
- Schools & Factories
- Hallways and Air Shafts
- Reception Areas
- Toilets

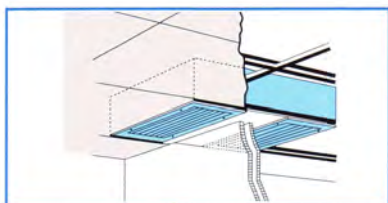
TILE CEILINGS: Type CT



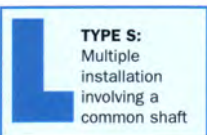
TYPE CT:
Over a movable partition

This silencer type is designed to replace a ceiling tile over movable walls or fixed partitions. It is

sized to replace a 610mm x 610mm or 305mm x 610mm ceiling tile and fits into all standard ceiling suspension systems. Type CT can be easily moved when necessary to relocate walls or partitions.



VENT SHAFTS: Type S

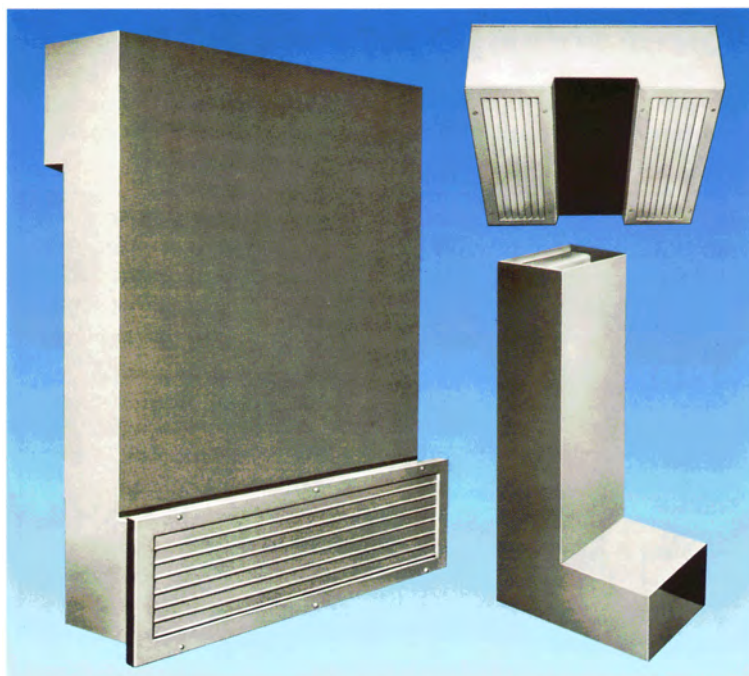
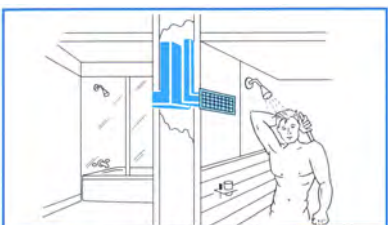


TYPE S:
Multiple installation involving a common shaft

This silencer type is designed specifically for vent shaft

installations in apartments, hotels or similar structures to silence the noise from kitchens, bathrooms or toilets. Stale, noxious air passes through the Quiet-Vent® from each room served by the common shaft and is vented outside the building.

The acoustical construction of the Type S unit blocks noise from passing into the shaft and areas connected to it; however, it permits the passage of exhaust air. The silencer also prevents exhaust fan noise from entering the rooms served by the vent shaft. Type S thus stops undesired cross-talk and 'intercom' effects.



QUIET-VENT® SILENCERS

IAC Bulletin QVS/1.01

Noise control for air transfer systems

IAC Quiet-Vent® Silencers solve a common problem in air handling - the passage of noise from one space to another through vents provided for the passage of air. These modern, low-cost units are easy to install, permit circulation of air in either direction, yet effectively stop noise in both directions.

MULTI-PURPOSE: Types C, H & W

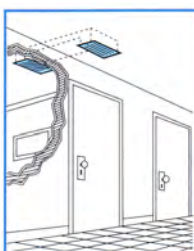


TYPE C:
For ceiling installation

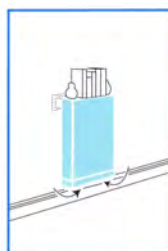
TYPE H:
For exposed installation on wall or door

TYPE W:
For installation in wall

These versatile units may be mounted on or in walls, on doors, in ceilings... wherever air must pass but noise must be blocked. They meet most architectural needs in the standard models available but where special designs are needed, please contact us.



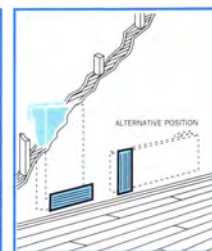
IN CEILING -Type C



ON WALL & ON DOOR Type H



IN WALL Type W



IAC House, Moorside Road, WINCHESTER,
Hampshire, SO23 7US, United Kingdom.

Tel: +44 (0) 1962 873000 Fax: +44 (0) 1962 873111

E-mail: info@iaci.co.uk Website: www.iaci.co.uk

COMPARISON OF ACOUSTIC PERFORMANCE

Noise Reduction (NR) is the measured difference in the sound pressure levels between two rooms separated by a wall containing a Quiet-Vent® Silencer for air transfer.

ITEM AND DESCRIPTION		Octave Bands Centre Frequencies, Hz								NR* (SIL)
		63	125	250	500	1K	2K	4K	8K	
		Speech Interference Bands								
		Noise Reduction, dB								
QUIET-VENT	Multi-purpose: Types C, H & W	23	32	35	41	51	57	58	50	50
	Tile Ceilings: Type CT	17	22	25	32	42	48	50	41	41
	Vent Shaft: Type S	23	32	35	41	51	57	58	50	50
Door	Thin door hung normally	19	23	25	32	31	31	29	32	30
	Thick door tight closure	22	25	28	34	35	39	41	45	38
Window	6mm panes (2) 12mm air space	19	19	19	30	38	38	33	28	36
	3mm panes (2) 38mm air space	27	30	32	38	48	46	46	47	47
Wall	100mm gypsum blocks plaster 1 side	23	29	31	39	45	48	52	55	48
Floor & Ceiling	100mm thick reinforced concrete slab	FLOORS & CEILINGS of normal multi-storey construction are usually satisfactory for conversation or music privacy. This does not apply for structure-borne noise.								

*NR (SIL) = Noise Reduction (Speech Interference Level). The average noise reduction in the three speech-interference octave bands, 500, 1K and 2K Hz.

DIMENSIONAL DATA, mm										AIRFLOW DATA, m³/s				
for MULTI-PURPOSE: TYPES C, H & W										Static Press Drop, Pascals				
Model					B		L		Ship Wt. Kg	12	25	37	50	62
	T	W*	O	E	C&W	H	C&W	H						
414	89	356	152	165	915	895	1219	1048	13	0.06	0.08	0.10	0.12	0.13
430	89	762	152	165	915	895	1219	1048	27	0.12	0.18	0.22	0.26	0.29
442	89	1067	152	165	915	895	1219	1048	39	0.17	0.25	0.31	0.36	0.40
614	127	356	203	203	813	794	1219	997	14	0.08	0.12	0.15	0.17	0.19
630	127	762	203	203	813	794	1219	997	30	0.18	0.26	0.32	0.37	0.41
642	127	1067	203	203	813	794	1219	997	41	0.24	0.36	0.45	0.51	0.57
814	178	356	254	254	711	692	1219	946	16	0.11	0.17	0.21	0.24	0.27
830	178	762	254	254	711	692	1219	946	34	0.24	0.36	0.45	0.51	0.57
842	178	1067	254	254	711	692	1219	946	46	0.34	0.51	0.63	0.72	0.81

*Available in other widths as required. To determine nominal size of opening when ordering grilles for Types C, H & W, use dimensions 'W' and 'O'.

NOTE:

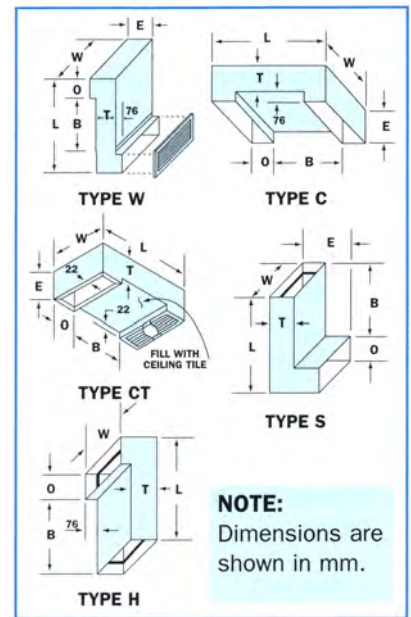
Static pressure ratings at listed airflows are differential pressures which will exist with Quiet-Vents (without grilles) installed between two rooms and/or areas.

for TILE CEILINGS: TYPE CT													
2424	181	572	210	203	152	572	16	0.17	0.24	0.29	0.34	0.38	
1224	181	292	210	203	152	572	11	0.08	0.12	0.15	0.17	0.19	

To determine nominal size of opening when ordering grilles for Type CT, deduct 45mm from dimensions 'W' and 'O'.

for VENT SHAFTS: TYPE S													
406	89	152	152	216	896	1048	6	0.02	0.04	0.04	0.05	0.06	
408	89	203	152	216	896	1048	6	0.03	0.05	0.06	0.07	0.08	
606	127	152	203	254	794	997	6	0.03	0.05	0.06	0.07	0.08	
608	127	203	203	254	794	997	7	0.05	0.07	0.09	0.10	0.11	
806	178	152	254	305	692	946	7	0.05	0.07	0.09	0.10	0.11	
808	178	203	254	305	692	946	8	0.07	0.09	0.12	0.14	0.15	

*Available in other widths as required. To determine nominal size of opening when ordering grilles for Type S, use dimensions 'W' and 'O'.



NOTE:

1. Extensions on the elbows may be slit and bent back to form a frame for mounting grille, or cut off to the length needed to suit installation.
2. Grilles are available at extra cost.
3. All Quiet-Vents are supplied unpainted. Prime or finish paint is available at extra cost.



United Kingdom

IAC House, Moorside Road,
WINCHESTER,
Hampshire, SO23 7US
Tel: +44 (0) 1962 873000
Fax: +44 (0) 1962 873111
E-mail: info@iacl.co.uk
Website: www.iacl.co.uk

Germany

Sohlweg 17,
D-41372 Niederkrüchten
Tel: (02163) 99910
Fax: (02163) 999123
E-mail: info@iac-gmbh.de
Website: www.iac-gmbh.de

Denmark

HM Akustik A/S,
Jernholmen 44,
DK-2650 Hvidovre
Tel: +45 36 77 88 00
Fax: +45 36 77 50 88
E-mail: mail@hm-akustik.dk
Website: www.hm-akustik.dk

United States

1160 Commerce Avenue,
Bronx,
New York 10462-5599
Tel (718) 931 8000
Fax: (718) 863 1138
E-mail: info@industrialacoustics.com
Website: www.industrialacoustics.com

HOW TO ORDER A QUIET-VENT® UNIT:

Always specify both the type and model number of unit and whether or not grilles are required. For example: a Vent Shaft Unit 152mm wide x 89mm thick would be designated as Type S, Model 406.



IAC is a BS EN ISO 9001 quality registered company