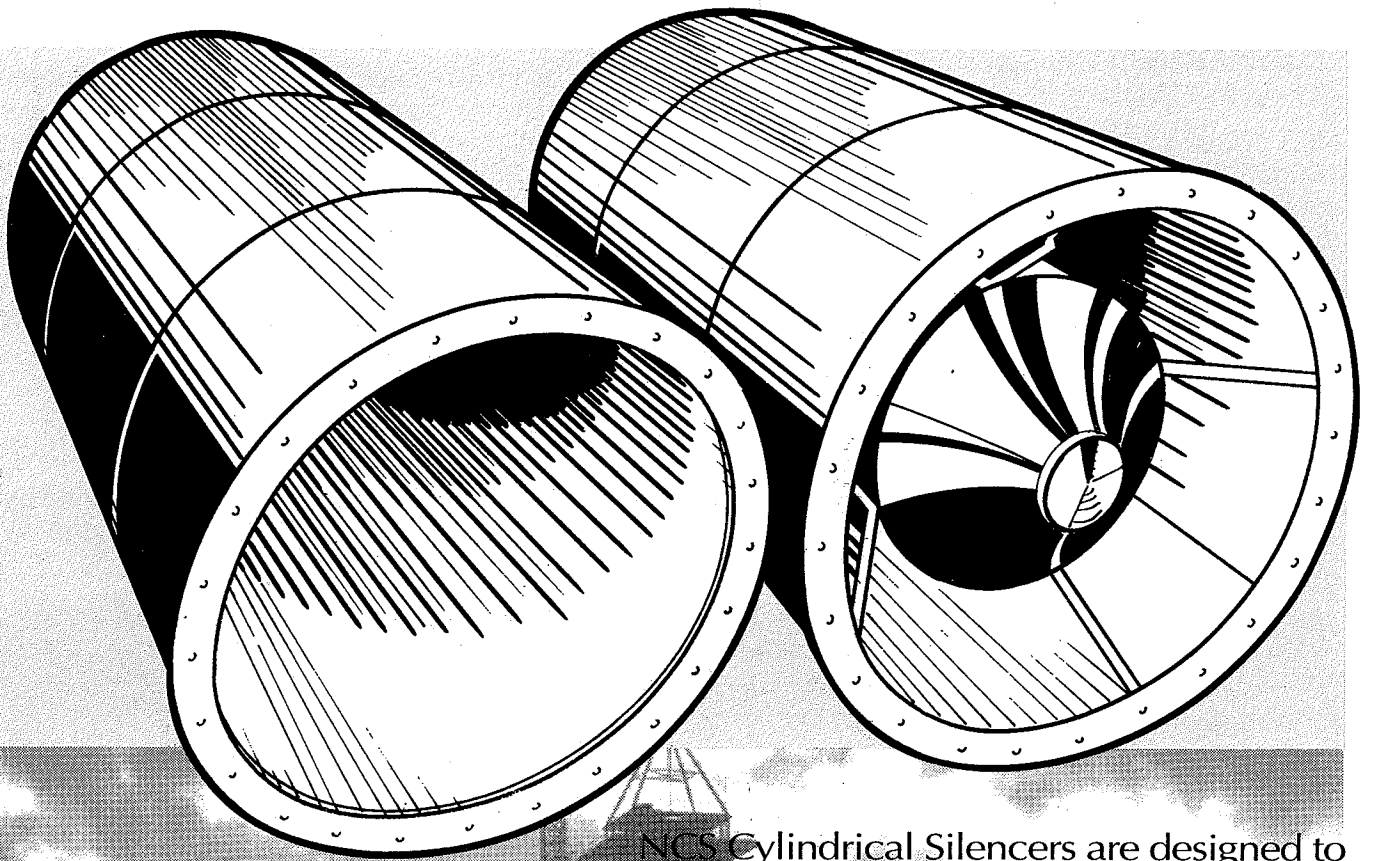


CYLINDRICAL SILENCERS

FOR AIR MOVEMENT SYSTEMS



NCS Cylindrical Silencers are designed to provide attenuation for air movement systems. These silencers are specifically designed for direct connection to the inlet and outlet of axial flow type fans but may also be adapted for induct applications. They reduce ventilation and air conditioning system noise in numerous applications.

TECHNICAL INFORMATION ETC...

SILENCER RANGE

NCS range consists of model LP and HP. The LP models being simple straight through units. The HP model range offers a higher acoustic performance due to the concentric acoustic pod providing greater attenuation.

Both LP and HP ranges are available in two standard lengths.

LP-1D Length equal to one fan diameter.

LP-2D Length equal to two fan diameters.

HP-1D (with pod) equal to one fan diameter.

HP-2D (with pod) equal to two fan diameters.

Non standard sizes can be supplied for individual applications.

CONSTRUCTION

NCS cylindrical silencers are available from small 100mm diameter up to large units designed for cooling towers. Applications of up to 3000mm diameter. Due to the large range of sizes, material gauges and acoustic media thickness vary depending on the size required.

NCS cylindrical silencers consist of a pre-galvanised

sheet metal outer case fabricated from a minimum 1.0mm gauge steel sheet. The high density acoustic media is retained by a pre-galvanised perforated sheet having a 3.2mm diameter hole on 6.1mm centres. The pre-galvanised end flanges are fitted with threaded nut inserts to match the fan suppliers flange or alternatively spigot connections for flexible connectors.

CASE MATERIAL

100-965mm ID – 1.00mm

965-1220mm ID – 1.20mm

1220-3000mm ID – 1.60mm

Industrial applications 1.60 – 6.0mm

SPECIAL CONSTRUCTION

NCS has incorporated a new heat seal, non porous membrane to protect the acoustic media from moisture laden air for applications such as cooling towers, chillers and condensers. This type of product is also used for total fibre retention in hospitals, computer rooms, dairy and food industry applications.

Special applications may require any of the following non-standard materials... PVC, stainless steel, powder coat and epoxy paint finishes.

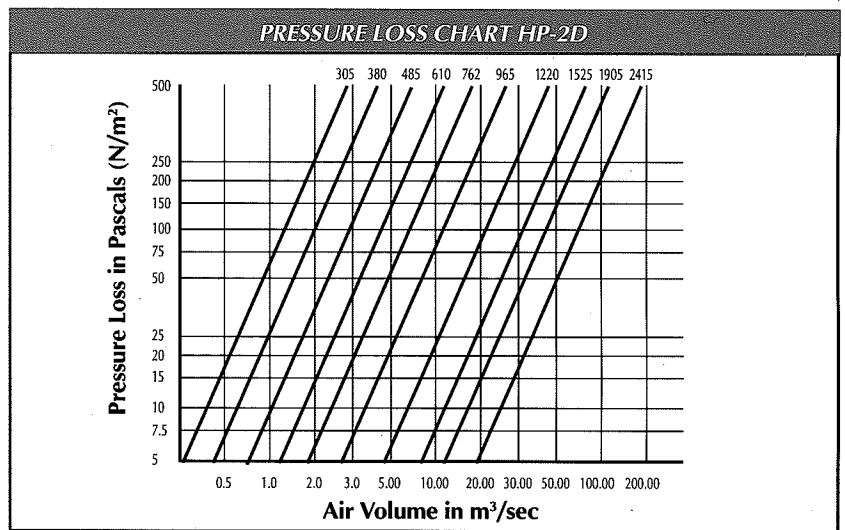
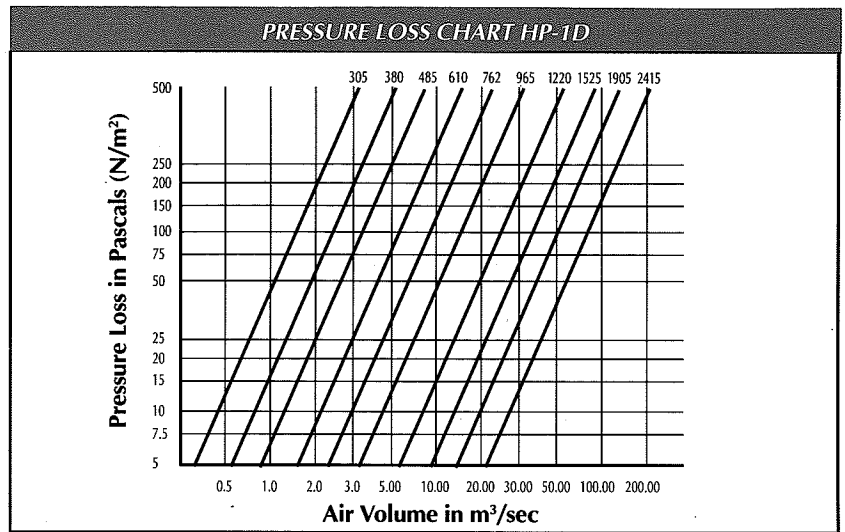
ACOUSTIC PERFORMANCE

Attenuation figures published in this brochure have been derived from laboratory test data. Modified by New Zealand based infield test results. NCS provides a certificate of compliance that guarantees the acoustic performance of all LP and HP cylindrical silencers.

NOMINAL FAN DIA.	SILENCER		Hz	INSERTION LOSS							
	LENGTH	MODEL		63	125	250	500	1k	2k	4k	8k
100mm	1D	LP-1D		2	3	5	9	15	13	9	8
250mm	2D	LP-2D		4	6	9	16	23	20	16	14
305mm 533mm	1D	LP-1D		2	4	7	10	14	11	8	8
	1D	HP-1D		4	6	9	13	19	19	16	14
	2D	LP-2D		4	8	12	17	23	17	13	12
	2D	HP-2D		7	11	15	24	28	28	26	22
610mm 762mm	1D	LP-1D		3	5	9	14	14	9	8	7
	1D	HP-1D		4	6	10	17	23	21	19	11
	2D	LP-2D		6	8	14	23	24	14	13	10
	2D	HP-2D		7	11	16	29	34	32	30	19
965mm 1220mm	1D	LP-1D		3	5	10	14	13	8	7	7
	1D	HP-1D		4	6	12	20	19	15	14	12
	2D	LP-2D		6	9	14	21	20	13	11	10
	2D	HP-2D		7	12	19	29	28	26	22	17
1525mm 2415mm	1D	LP-1D		4	5	11	14	11	8	6	6
	1D	HP-1D		6	8	12	21	19	14	11	9
	2D	LP-2D		8	9	15	20	17	11	10	9
	2D	HP-2D		10	14	22	22	21	21	16	14

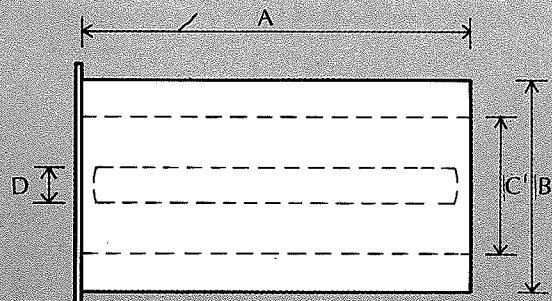
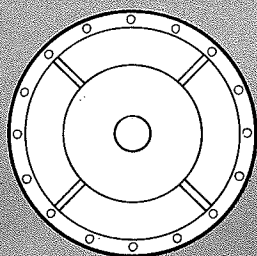
PRESSURE LOSS

The pressure loss data applies to models HP-1D and HP-2D only. The LP straight through models have negligible pressure loss.



SILENCER DIMENSIONS AND WEIGHTS

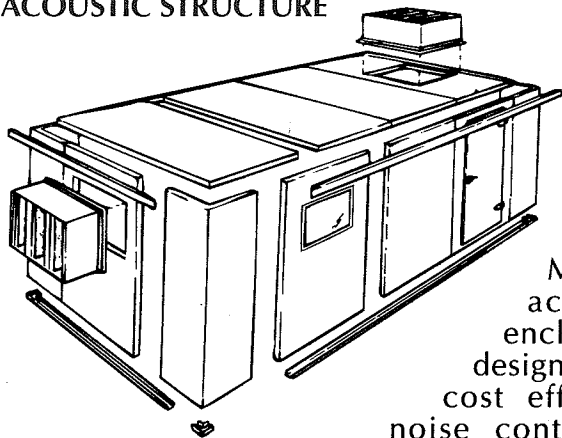
NOM DIA. "C"	CASE OD "B"	LENGTHS		POD DIA. "D"	WEIGHTS KGS			
		"A" 1D	2D		LP-1D	LP-2D	HP-1D	HP-2D
150	250	150	300	-	2	4	-	-
250	350	250	500	-	4	7	-	-
305	455	305	610	190	10	16	14	20
380	580	380	760	238	12	21	18	28
485	685	485	970	302	22	33	30	40
533	733	530	1060	302	24	39	35	50
610	810	610	1160	381	30	49	40	60
762	962	760	1520	476	45	72	55	90
965	1165	965	1930	603	85	150	100	180
1220	1420	1220	2360	765	120	220	155	300
1525	1725	1525	3050	956	270	485	350	600
1905	2205	1905	3810	1197	380	760	475	930
2415	2715	2400	4800	1197	600	1180	775	1500



Dimensions of non-standard and larger sizes available on applications. Enquire for weights of industrial units. Silencer details and dimensions should be confirmed at time of order.

OUR PRODUCT RANGE ALSO INCLUDES:

NC 50/100 MODULAR ENGINEERED ACOUSTIC STRUCTURE



Modular acoustic enclosures designed for cost effective noise control in industrial, commercial and building services applications. Applications such as machinery housings, fan plenums, research and test rooms, sound proof offices, generators and compressor houses, all purpose rooms and audiometric booths.

QUIET FLOW ACOUSTIC LOUVRES

Acoustic louvres designed to meet the requirements of architectural and mechanical consultants. Quiet flow acoustic louvres are rugged yet functional. Designed to permit airflow and control noise. Applications such as plant rooms, chiller and cooling tower barriers and fan plenums.

SPLITTER TYPE DUCT SILENCERS

Silencers are engineered with proven aerodynamic and acoustic efficiency. Exclusive features highlight NCS's duct silencer design. These features such as inlet cones, acoustic fill protected by perforated metal, heavy outer steel for structural stability and reduction of case break-out

noise are all standard components of the design. As well as the standard mechanical services duct applications, splitter type silencers can be installed on cooling towers, chillers, industrial fans and blowers. Available in various materials and finishes depending on the application.

ACOUSTIC DOORS

Taken from the NC50/100 system NCS all metal acoustic doors are available in various sizes from single leaf up to large double leaf doors 3600mm x 3600mm. The heavy doors are prehung on a structural frame ready to install in any builder's work opening. Applications such as plant rooms, test cells, studios and audiometric booths.

INDUSTRIAL SILENCERS

The full range of industrial silencers include vent silencers for steam and gas venting, exhaust silencers for engines, reactive type units for air intakes to compressors, combination reactive dissipative units for rootes type blowers and general purpose cylindrical silencers for numerous applications. These heavy, all welded constructions are available in various finishes.

"TURN KEY" PROJECT

Based on the design and build concept, NCS have been responsible for some of the largest noise control projects in New Zealand. These projects have incorporated appraisals, design work, drawings, construction, installation and infield testing. Projects such as power stations, large compressor stations, dairy company plants, multi storey developments and petrochemical plants are quietly and successfully operating today.

"HAVE A QUIET WORD WITH US"

Through our New Zealand and overseas experience we back our sound advice with precision grade B + K sound level equipment, offer a complete technical service backed with acoustic products and a specialised acoustic installation team.

Our product range includes:

QUIETFLOW ACOUSTIC LOUVRES, SPLITTER DUCT SILENCERS, CYLINDRICAL FAN SILENCERS, ACOUSTIC ENCLOSURES & PLENUMS, ACOUSTIC DOORS, AUDIOMETRIC BOOTHS INDUSTRIAL SILENCERS for blowers, compressors, exhaust and blow down vents

The company offers a professional service geared to providing cost effective practical solutions to noise problems.



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