

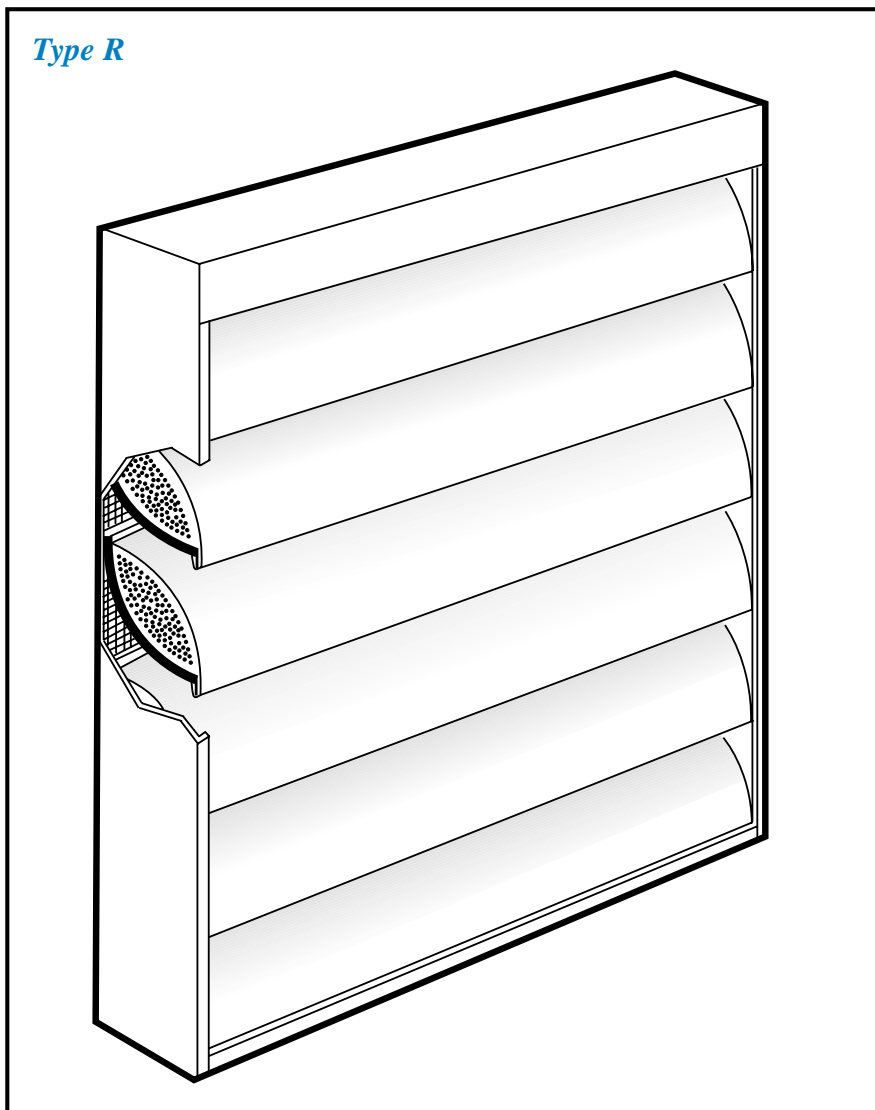
Universal Louvre

Noise Control

As part of the Colt Universal Louvre range, Colt can provide acoustic louvre panels for mounted behind the weather louvre.

Plantroom openings, cooling towers, condenser plant etc., will produce sound pressure levels which may exceed existing or required noise criteria at prescribed distances from the building. Colt is able to provide attenuation for the Colt Universal Louvre System that will meet the most stringent criteria.

If a single bank of elements does not provide the required noise control, a double bank may be specified. As an alternative, duct silencers may be selected to give the desired noise reduction.



Model Type

There are two Acoustic Louvre Models:

Type R

- Optimum acoustic performance with normal pressure drop

Type LP

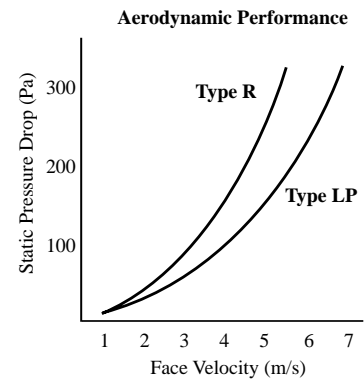
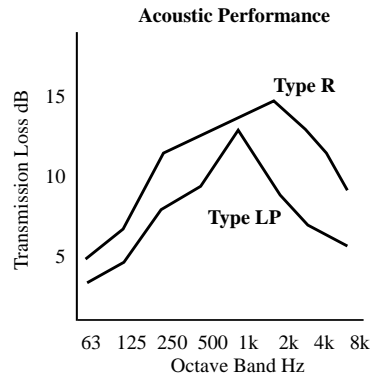
- Normal acoustic performance with minimum pressure drop

To ensure the most economic solution, noise control must be considered at the earliest possible design stage. Retrofit installations can be significantly more expensive. If in doubt, please contact Colt International Limited.

Universal Louvre - Noise Control

Performance

Octave Band Centre Frequency, Hz	1	2	3	4	5	6	7	8
	63	125	250	500	1k	2k	4k	8k
Model R	5	7	11	12	13	14	12	9
Model LP	4	5	8	9	12	9	7	8



Aerodynamic performance

Acoustic Louvre Model	Aerodynamic Coefficient (cv)	Pressure Loss (ζ)
Model R	0.24	17.3
Model LP	0.29	11.5

Dimensions

Acoustic Louvre Model	Module Width (mm)	Model Height (mm)
Model R	610, 914 or 1219	305 to 3653 in 305mm increments
Model LP	610, 914 or 1219	356 to 3556 in 356mm increments

Materials

The outer casing shall be of no less than 1.2mm galvanised mild steel sheet. The acoustic louvre blades shall be of aerofoil configuration formed from 0.7mm perforated galvanised mild steel sheet on the inner surface and 0.7mm galvanised mild steel sheet externally.

Modules

Acoustic louvre banks over 1220mm wide and/or 3660mm high will normally be supplied as two or more modules for site assembly.

Infill

The infill shall be in organic mineral wool or glass fibre of 47kg/m³ density and packed under not less than 5% compression to eliminate voids due to settlement. The infill shall be inert, as well as vermin, rot and moisture proof.

Colt Service Ltd

Part of the Colt Group of companies, Colt Service offers a comprehensive range of service contracts incorporating the maintenance and repair of all building services equipment and a 24 hour, 365 day breakdown service.



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