



E N G I N E E R E D A I R P R O D U C T S

THERMAL SWIRL DIFFUSERS TH SERIES





DISTRIBUTION PATTERNS & FIXING OPTIONS

Application

The TH Thermal Swirl Diffuser can provide cool or warm air to a variety of applications and are particularly useful for air distribution in double height or larger spaces.

Minimum recommended height is 2.7 metres up to a maximum of 20 metres.

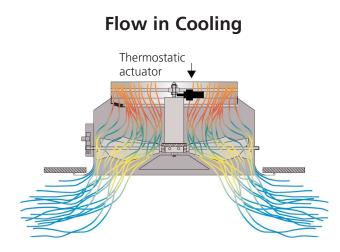
Description

A circular set of steel deflection blades are arranged in a circular or square aluminium panel.

A temperature controlled actuator determines the blade angle required without the need for a power supply. The diffuser can be direct duct mounted or within a 595×595 lay in ceiling grid. Circular or square plenums are available with the product.

Fixing

The diffusers are fixed by screwing or riveting through the neck.



A Thermostatic actuator is located on the

bracket of the diffuser, this adjusts the

temperature range of 15°C to 30°C.

angle of the blades automatically with a

Flow in Heating

Thermostatic

actuator



Colman TH Thermal Swirl Diffusers installed at Clayhills Business Park.

Options and Order Codes

Diffuser Codes

1. SERIES	2. STYLE	3. ACCESSORIES	4. ARRANGEMENT	6. FIXING	7. FINISH
TH	R Circular Q Square (595 × 595)	0 None 1 Equalising Grid	0 Swirl Pattern	A Neck Fixing	 F RAL 9010 matt white E RAL 9010 gloss white 3 RAL 9006 1 Special

Please note that the maximum swirl size available for THQ type is 315 diameter. Blades come reinforced as standard for sizes 500 and 630.

Example of Order Codes

Diffuser Code: THR00AF 315

315 Nominal Size Circular Thermal Swirl Diffuser in white (RAL 9010).

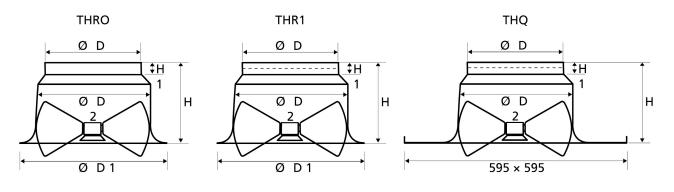
Plenum Codes

1. SERIES	2. LINING	3. TYPE	4. ACCESSORIES	5. ARRANGEMENT	6. SPIGOT TYPE	7. SPIGOT DIAMETER
L	L Lined N Unlined	S Square C Circular	 None M Monoblade cord operated damper 	 S Supply (comes with equalising grids) E Extract 	 R Round — Side entry S Square — Side entry T Round — Top entry U Square — Top entry 1 Special 	A 100 J 450 B 125 L 160 C 150 T 175 D 200 M 180 E 250 R 225 F 300 P 280 G 350 N 315 H 400 1 Special

Please contact the Sales Office for Plenum dimensions.

DIMENSIONS

Diffuser Dimensions



Nominal Dimensions	ØD	ØD1	ØD2	Н	H1
200	198	316	242	174	40
250	248	404	315	200	40
315	313	472	375	235	40
400	398	601	460	260	50
500	498	787	570	315	60
630	628	903	700	320	65

PERFORMANCE DATA

Nominal Size	Volume (l/s)	Pressure Drop (Pa)	Throw to 0.25 m/s Velocity	Noise Rating (NR)
	50	<10	1.8	18
200	80	10	2.2	30
	110	15	2.8	35
	100	<10	1.9	23
250	140	11	3	29
	180	17	4	35
	120	<10	2	18
315	160	10	2.7	23
	200	15	3.3	32
	200	<10	2	20
400	280	10	2.6	25
	400	14	4.2	32
	350	<10	2.3	20
500	480	12	3.4	28
	600	17	4.5	35
	600	<10	3.9	22
630	825	13	4.8	29
	1100	19	6.3	36

Performance is for curved blades at a 45 degree angle.

Pressure drop shown is the static figure for diffuser only.

All NR ratings are based on room absorption of 8db, dampers fully open.

PRODUCT RANGES

GRILLES
Linear Bar
Ceiling
Sidewall
Floor
Computer Floor
Cill
Single & Double Deflection
Egg Crate
Hinged Core
Door Transfer
Security and Prison
Supply and Extract Valves

Linear Slot
Louvre Face
2001101000
Sidewall
Perforated Face
Circular
Swirl
Ceiling
Sidewall Fixed & Adjustable
Jet Flow / Nozzle
Repus Displacement Ventilation

LOUVRES
External
Circular
Door
Screens
Penthouse
Sand Louvres
Roof Louvres

BESPOKE SERVICE

We offer a bespoke design service where standard products do not fit the requirements of the build, we also supply products in special colours and finishes including bronze, brass, gold and chrome to meet Architectural design specifications.





Rydal Road Carnforth LA5 8LH

www.mesavent.co.uk sales@mesavent.co.uk 01542 900 123