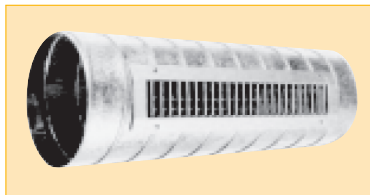


SUPPLY AND RETURN AIR GRILLES

TYPE: AS/GS120 • AS/GS130

Installation dimensions



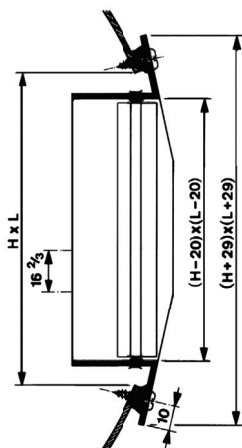
Application

The grille type AS / GS is used for the supply and exhaust of cooled or heated air in facilities such as warehouses, workshops, commercial centres,...

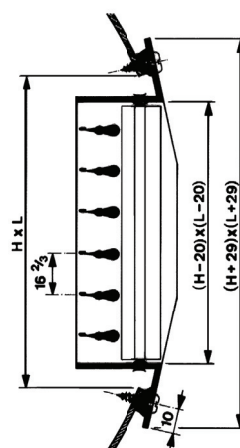
The grille can be mounted directly on a circular duct.

The vanes can be adjusted manually and individually to obtain an optimal air distribution.

AS/GS120



AS/GS130



Nominal dimensions:

L = nominal length (mm)

H = nominal height (mm)

All dimensions in mm

Fast selection diagram

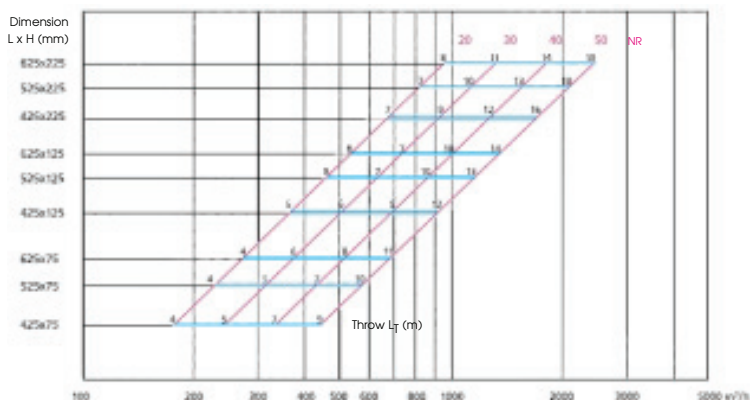
Technical information

Characteristics:

- free passage ca. 70% (depending on the position of the vanes)
- AS / GS 120: exhaust grille
- AS / GS 130: supply grille
- nom. L = 225-325-425-525-625-825-1025-1225 mm
- nom. H = 75-125-225-325 mm

Construction:

- AS : roll-formed aluminium sheet
- GS : roll-formed steel sheet
- Both are phosphated and painted in white (RAL 9010)



Throw factor is based on a v_R of 0,17 m/s in the occupied zone.

See p. 1 160 for a detailed selection.

Only for supply. For exhaust, see p. 1 160

SUPPLY AN RETURN AIR GRILLES

FRAME AND CORE OPTIONS

Specifications description

Example:

Steel supply and exhaust grille with individually adjustable vanes for mounting in circular ducts, equipped with an inclined damper.
The grille is painted in white (RAL 9010)

Type: GS130 + GT005
nom. dim. (LxH) ... x ... mm

Accessories

- **GT005** : inclined hit-and-miss damper out of galvanised sheet steel, painted black
- **GT006** : hit-and-miss damper out of galvanised steel sheet, painted black

Fixing

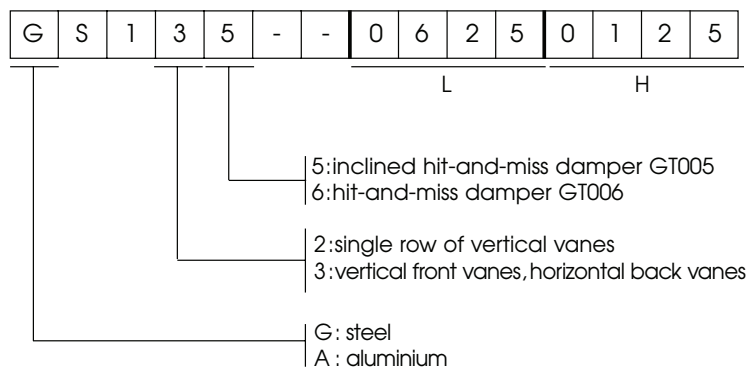
Visible screw fixing

Fixing dimensions

Nominal dimensions L x H (mm)	Dimensions			Duct Diam. (mm)	
	A	B	C	min.	max.
425 x 75	35	65	99	160	400
525 x 75	35	65	108	160	400
625 x 75	35	65	116	160	400
425 x 125	41	71	105	315	900
525 x 125	41	71	114	315	900
625 x 125	41	71	122	315	900
425 x 225	50	80	114	630	1400
525 x 225	50	80	123	630	1400
625 x 225	50	80	131	630	1400
425 x 325	55	85	120	900	2400
525 x 325	55	85	129	900	2400
625 x 325	55	85	137	900	2400

How to order

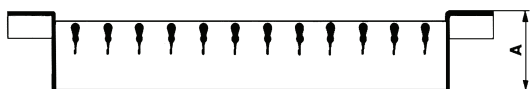
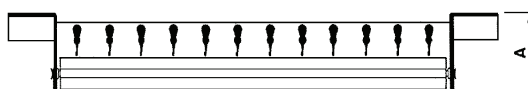
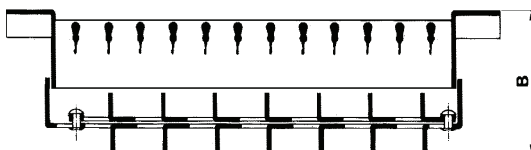
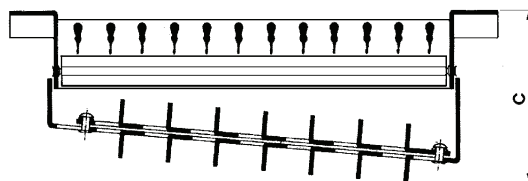
GS130, dimension 625 x 125 mm, with hit-and-miss damper GT005



GRILLE FOR CIRCULAR DUCTS

TYPE: AS/GS120 • AS/GS130

Possible deliveries

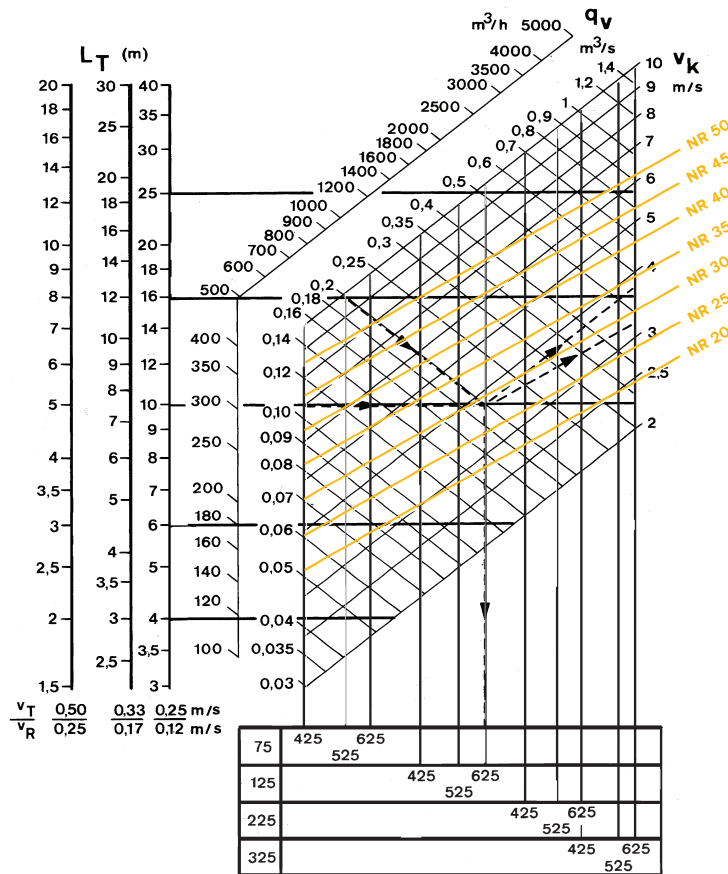
AS/GS120

AS/GS130

AS/GS126

AS/GS135


Aluminium	Steel	Construction
AS120	GS120	Exhaust grille with single row of vertical vanes
AS126	GS126	AS/GS120 with hit-and-miss damper GT006
AS130	GS130	Supply grille with front row of vertical vanes and back row of horizontal vanes
AS135	GS135	AS/GS130 with inclined hit-and-miss damper GT005

GRILLE FOR CIRCULAR DUCTS

PERFORMANCE DATA **TYPE: AS/GS120 • AS/GS130**

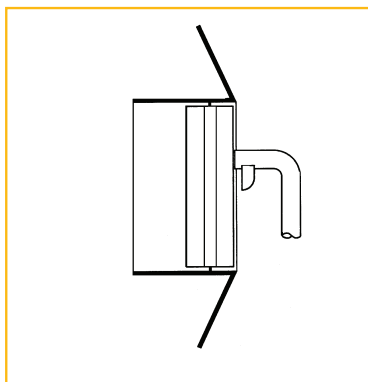
Selection diagram - supply



- 0° deflection
- With ceiling effect
- Without damper

NOTE: noise level correction with damper: see pressure loss diagram

Air flow rate measurement supply-exhaust



Velometer jet 2220 A or 6070

A_k - values supply (m^2)

H (mm)	L (mm)		
	425	525	625
75	0,015	0,020	0,024
125	0,034	0,044	0,053
225	0,069	0,086	0,102
325	0,102	0,130	0,148

Correction factors

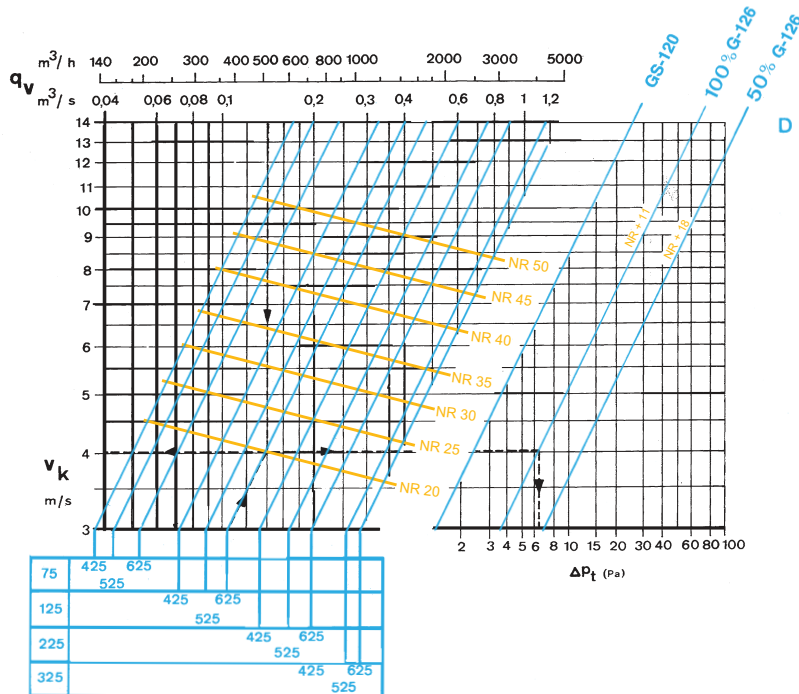
Throw correction factor L_T without ceiling effect

Distance between ceiling and supply grille	Correction
$\geq 0,9$ m	$L_T \times 0,75$

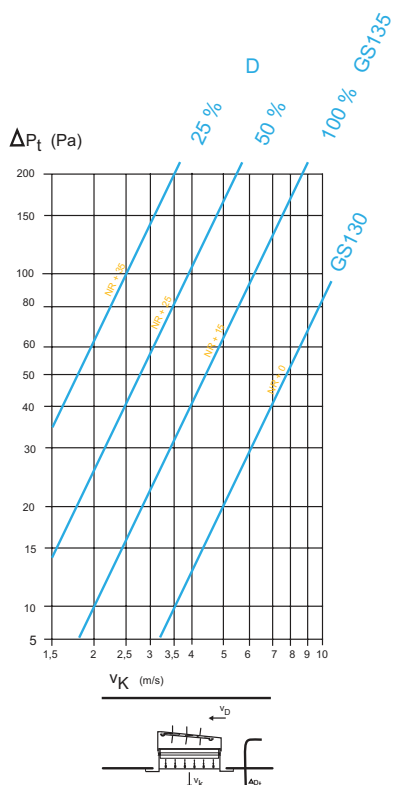
GRILLE FOR CIRCULAR DUCTS

PERFORMANCE DATA TYPE: AS/GS120 • AS/GS130

Selection diagram - exhaust



Pressure loss - supply



A_k - values exhaust (m^2)

H (mm)	L (mm)		
	425	525	625
75	0,012	0,014	0,017
125	0,023	0,029	0,034
225	0,044	0,055	0,066
325	0,066	0,086	0,096

Example - exhaust

- Exhaust air flow rate $q_v = 0,14 m^3/s$
- Grille: GS126 625 x 125 mm
- Air velocity $v_k = 4 m/s$
- Noise level NR 20
- Total pressure loss with damper 100 % open: $\Delta p_t = 6,5 Pa$
- Correction on noise level: $NR 20 + 11 = NR 31$