

## Overview

**12 Months**  
Warranty

# STOCKED RANGE

## Half Chevron Grilles

**Description**

For exhaust or return air, having a single set of fixed blades at 45 deg. Available as either fixed core HC97 with blades set at 17.5mm spacing, or Removable Core RCHC25 with blades set at 25mm spacing.

**Construction**

From high quality aluminium extrusion. The half chevron features horizontal fixed louvre blades, designed to give a non-see through appearance.

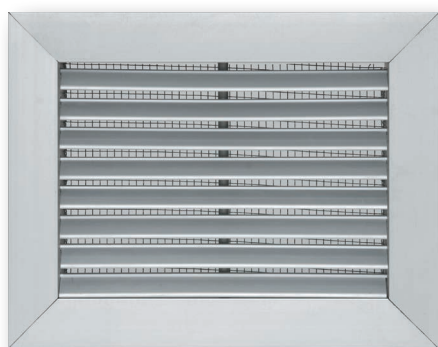
PRODUCT CODE	DESCRIPTION
HC97	Fixed core half chevron with blades set at 17.5mm spacing and 22mm flange
RCHC25	Removable core half chevron with blades set at 25mm spacing and 25mm flange

**Note HC97:**

- Supplied with wire mesh as standard
- Natural anodised as standard
- Custom sizes and colours are available upon request
- Suitable for wall mounting
- [For product performance data, see page 324](#)

**Note RCHC25:**

- Supplied with safety chains as standard
- Powder coated white as standard
- Custom sizes and colours are available upon request
- Suitable for wall mounting
- [For product performance data, see page 325](#)



QAE strive to provide products that best suit the market's requirements. As such, QAE reserve the right to supply products which may differ slightly from those shown in this and other publications. For product warranties please refer to our standard terms and conditions.



**HC97 Front View**



**HC97 Rear View**

**Quick, Easy and Convenient**

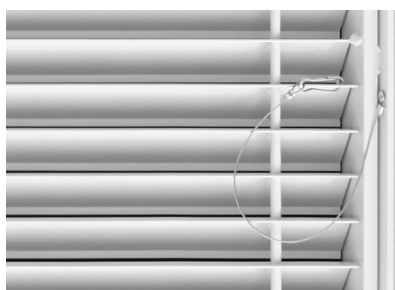
A compatible half chevron grille HC97 easily locks in place with a push. Installation is made easier by eliminating the need for screws. This makes it ideal for challenging installation environments.



**RCHC25 Front View**



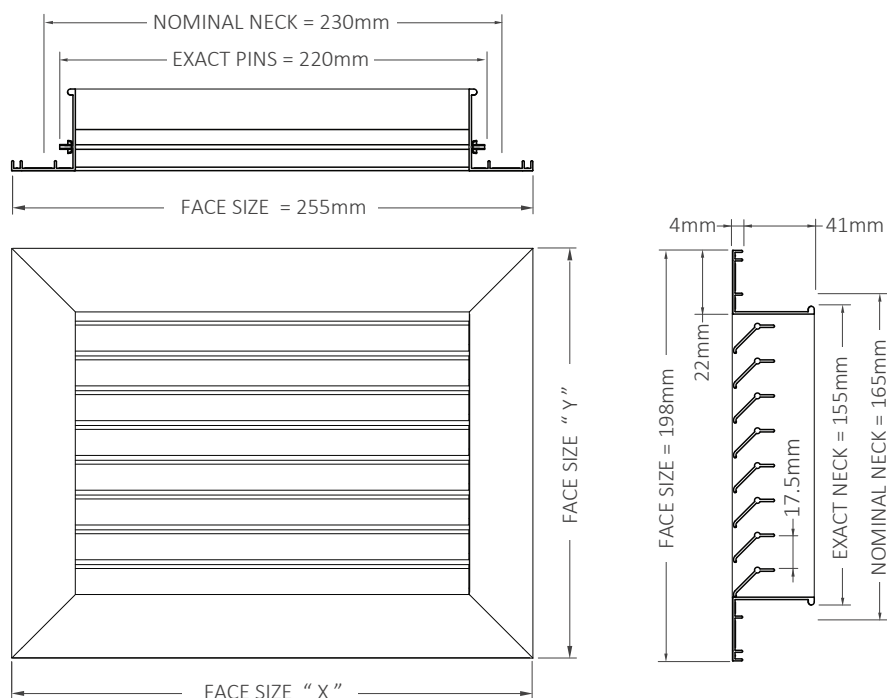
**RCHC25 Rear View**



**Safety First**

Every Stocked Removable Core Half Chevron RCHC25 is supplied with safety chains as standard.

Half Chevron				
PRODUCT CODE	NOMINAL NECK (mm)	EXACT PINS x EXACT NECK (mm)	FACE SIZE X & Y (mm)	PIECES/CARTON
HC97	230 x 165	220 x 155	255 x 198	10

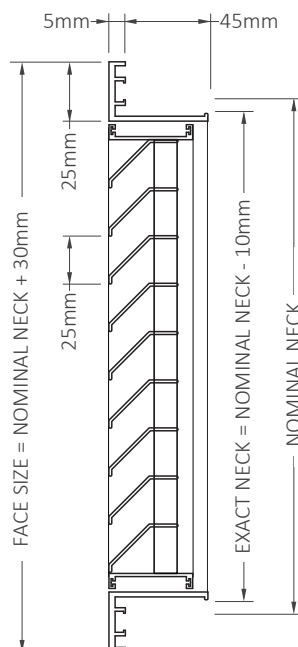
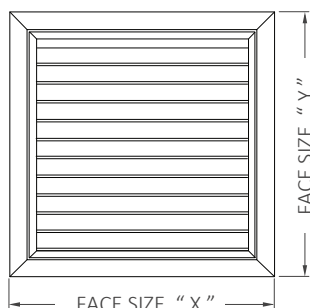

**HC97 in application**
**Half Chevron: HC97**

**Related Products for Half Chevron**

UB	SOB	RN	ALPBM	ALPBF
				
see pg.265	see pg.67	see pg.274	see pg.227	see pg.226

Removable Core Half Chevron				
PRODUCT CODE	NOMINAL NECK (mm)	EXACT NECK (mm)	FACE SIZE X & Y (mm)	PIECES/ CARTON
RCHC2566	150 x 150	140 x 140	180 x 180	10
RCHC2588	200 x 200	190 x 190	230 x 230	10
RCHC251010	250 x 250	240 x 240	280 x 280	10
RCHC251212	300 x 300	290 x 290	330 x 330	10
RCHC251414	350 x 350	340 x 340	380 x 380	10
RCHC251616	400 x 400	390 x 390	430 x 430	10
RCHC251818	450 x 450	440 x 440	480 x 480	10

Removable Core Lay-In Half Chevron				
PRODUCT CODE	NOMINAL NECK (mm)	EXACT NECK (mm)	FACE SIZE X & Y (mm)	PIECES/ CARTON
RCHC25595295F	565 x 265	555 x 255	595 x 295	5
RCHC25595F	565 x 565	555 x 555	595 x 595	5
RCHC251195595F	1165 x 565	1155 x 555	1195 x 595	5

## Removable Core Half Chevron 25mm Spacing: RCHC25



### Related Products for Half Chevron Grilles

UB	RN	ALPBM	ALPBF
see pg.265	see pg.274	see pg.227	see pg.226

## Half Chevron Grille 17.5mm Spacing: HC97 (STOCKED)

NC levels and pressure drops are given for grilles with no filters or dampers attached.  
For other performance or selection details please contact the supplier.  
Average free area approximately 55%.

Product Code	Nom. Neck (mm)	Neck Area (m <sup>2</sup> )	Neck Velocity (m/s)	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
			Pressure Drop (Pa)	4	7	11	16	22	29	37	45
HC97	230x165	0.026	Flow Rate (l/s)	39	52	65	78	91	104	117	130
			NC Level	<15	<15	19	26	30	34	35	37

## Half Chevron Grilles 25mm Spacing: HC25/RCHC25/HHC25

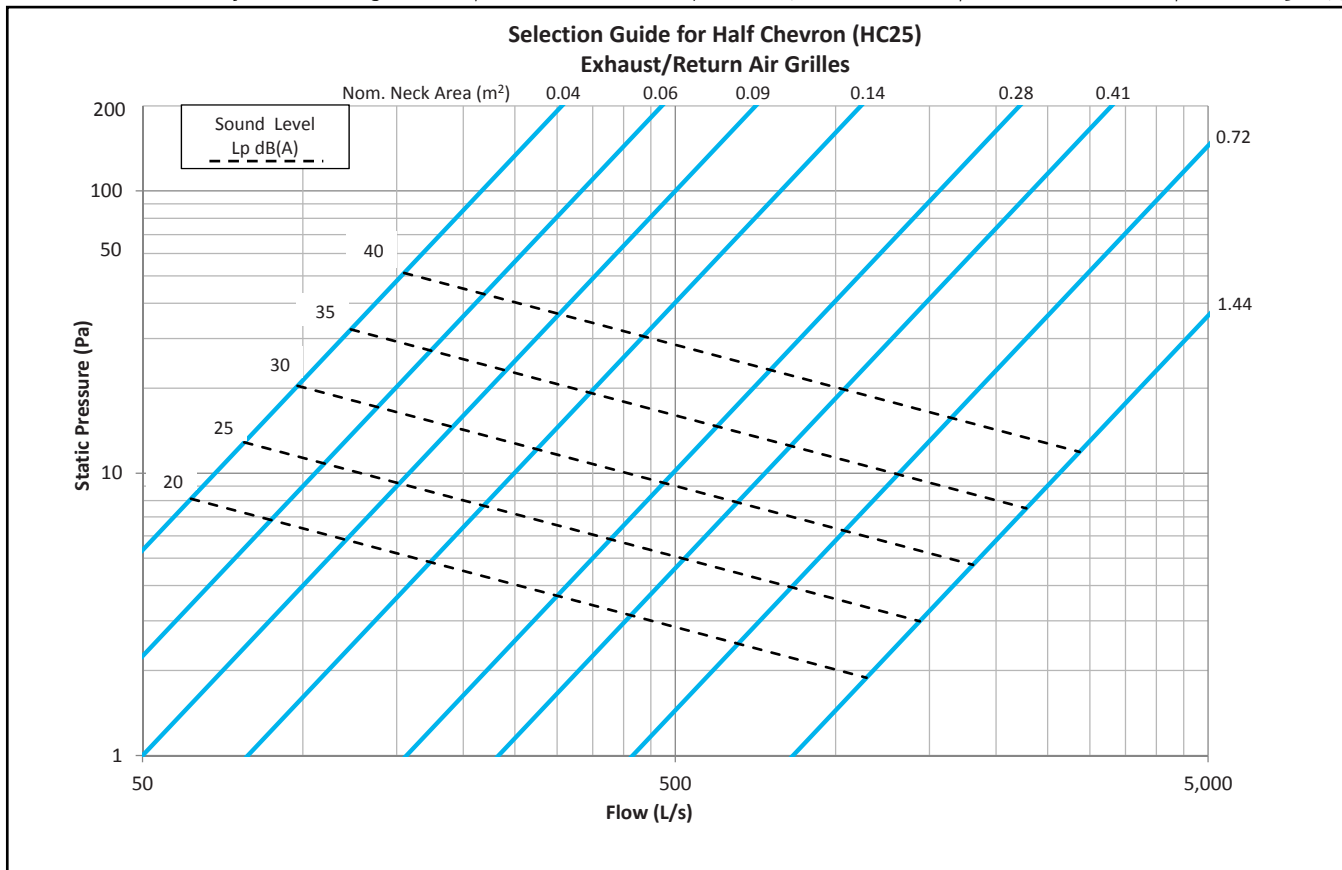
### Test Conditions:

Data is based on grilles installed in the wall not more than 600mm below a flat ceiling. Terminal velocities are based on 0.25m/s. NC levels and pressure drops are given for grilles with no filter or damper installed.

**Note:** Please refer to the table "Comparing Noise Criteria" on the page no. 297 when evaluating sound pressure level dB(A).

Free Area: HC25/RCHC25/HHC25	200 x 200	300 x 200	300 x 300	400 x 350	550 x 500	900 x 450	1200 x 600	1200 x 1200
Nominal Neck Width (mm)	200	300	300	400	550	900	1200	1200
Nominal Neck Height (mm)	200	200	300	350	500	600	600	1200
Nominal Neck Area (m <sup>2</sup> )	0.04	0.06	0.09	0.14	0.28	0.41	0.72	1.44
No. of Blades	8	8	12	14	20	18	24	48
Blades Pitch (mm)	25	25	25	25	25	25	25	25
Face Free Width (mm)	185	285	285	385	535	885	1185	1185
Face Free Height (mm)	185	185	285	335	485	435	585	1185
Free Area (m <sup>2</sup> )	0.033	0.050	0.075	0.119	0.235	0.350	0.626	1.251
Free Area	81%	84%	84%	85%	86%	87%	87%	87%

**Half Chevron - HC25 Example Selection:** A grille with square nominal neck of 0.14m<sup>2</sup> at 200 l/s will have a static pressure of 6Pa & Sound pressure of 23 dB(A).



These graphs are for selection only and should not be used for commissioning.

Nominal Neck (mm)	Equivalent Sizes (mm)	Free Area (m <sup>2</sup> )	Flow Rate (L/s)	50	75	100	150	200	250	300	400	500	1000	1500	2000	3000
200 x 200	350 x 125	0.033	Pressure Drop (Pa)	5	12	21	48	85	133							
			Lp dB(A)	<20	24	30	39	46	50							
300 x 200	350 x 175	0.050	Pressure Drop (Pa)	2	5	9	20	36	56	81	144					
	600 x 100		Lp dB(A)	<20	<20	23	32	38	43	47	53					
300 x 300	350 x 250	0.075	Pressure Drop (Pa)		2	4	9	16	25	36	64	100				
	450 x 200		Lp dB(A)		<20	<20	25	31	36	40	46	51				
400 x 350	550 x 250	0.119	Pressure Drop (Pa)			2	4	6	10	14	26	40				
			Lp dB(A)			<20	<20	23	28	32	38	43				
550 x 500	600 x 450	0.235	Pressure Drop (Pa)					2	3	4	7	10	41	92		
	650 x 400		Lp dB(A)					<20	<20	<20	26	31	46	55		
900 x 450	1000 x 400	0.350	Pressure Drop (Pa)						1	2	3	5	18	41	74	
			Lp dB(A)						<20	<20	<20	24	39	48	54	
1200 x 600		0.626	Pressure Drop (Pa)								1	1	6	13	23	52
			Lp dB(A)								<20	<20	29	38	44	53
1200 x 1200		1.251	Pressure Drop (Pa)										1	3	6	13
			Lp dB(A)										<20	26	32	41