



## Louvre systems

*Incorporating*



## Series WL-combi Weather louvre combination units

- Ready made units combining a standard weather louvre with either a volume control damper or back-draught (non-return) damper
- Factory assembled for reduced installation time on site
- Full range of options including polyester powder coating of louvres and motorisation of dampers



## Series WL-combi

Series WL-combi combination units are a ready made unit, comprising two essential components of any ventilation system.

A standard weather louvre and either volume control damper or back-draught shutter are supplied factory assembled with a galvanised steel black powder coated backbox providing the connection point between the two.

This pre-assembled approach yields reduced installation time on site, along with the knowledge that the component products will have been designed by HVC to suit each other, avoiding any issues of product compatibility.

Series WL50 or WL75 standard weather louvres are suitable for integrating into combination units, and the following damper series can be used:

- **Series LF uPVC-VCD:** High performance plastic volume control
- **Series HVC-VCD:** Aluminium volume control
- **Series BDS:** Back-draught (non-return)

The majority of options available for each stand-alone product can also be specified with a combination unit, please refer to the required product's specific PDF for the full list of options available.



## Design features

Please refer to the required product's specific PDF, available via [www.h-v-c.com](http://www.h-v-c.com)

## Quality assurance

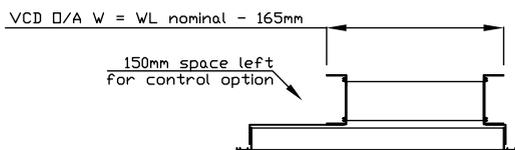
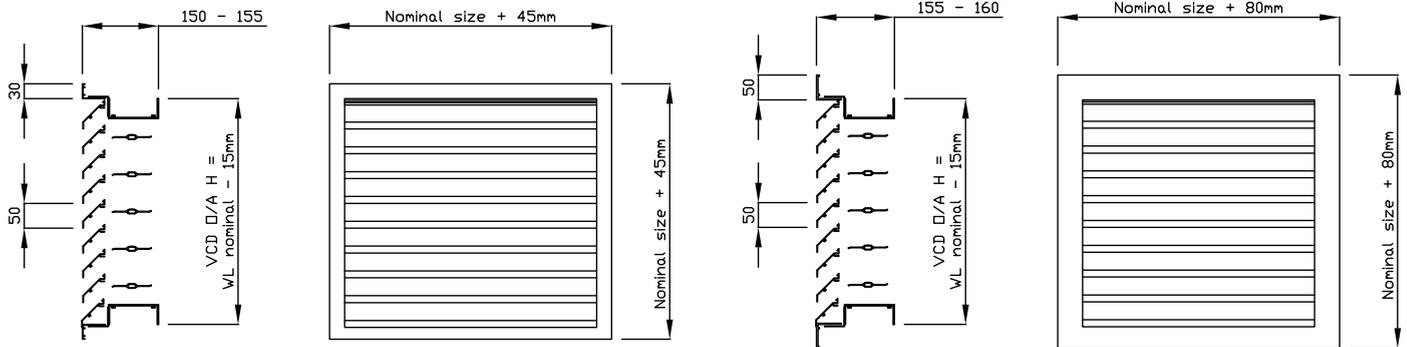
HVC Supplies (Stourbridge) Ltd is an ISO 9001 certified company.



Assessed to ISO 9001  
Cert/Ref No. 1186

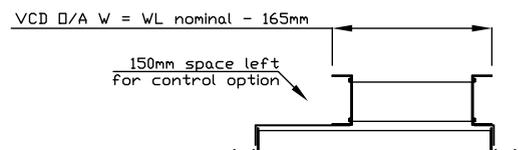
## Technical drawings

### Series WL c/w Series HVC-VCD aluminium volume control damper



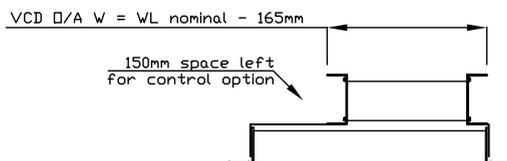
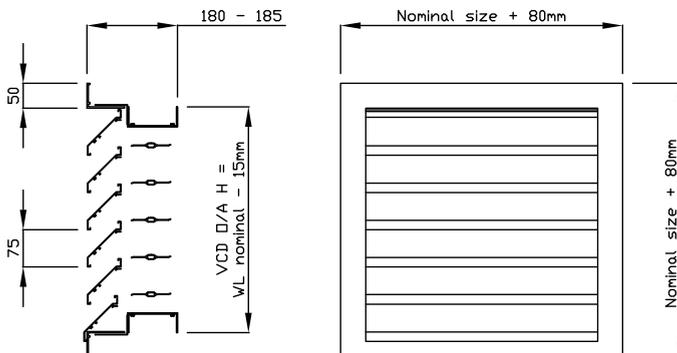
WL50 - 30FW c/w HVC-VCD

50mm pitch louvre with 30mm flat frame complete with aluminium volume control damper



WL50 - 50FS c/w HVC-VCD

50mm pitch louvre with 50mm flat frame complete with aluminium volume control damper



WL75 - 50FD c/w HVC-VCD

75mm pitch louvre with 50mm flat frame complete with aluminium volume control damper

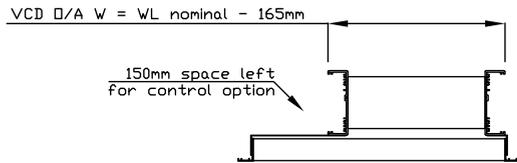
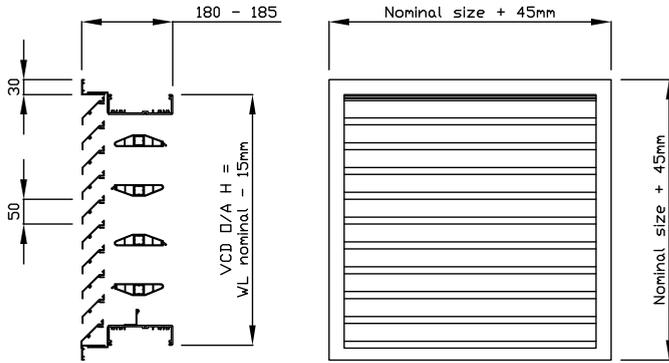
#### Duct connection:

As standard dampers are supplied in a Model A configuration (square flanged).

If required the non-louvre side of the damper can be supplied with a square, circular or flat oval spigot, please contact HVC for more details.

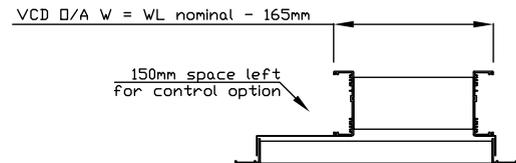
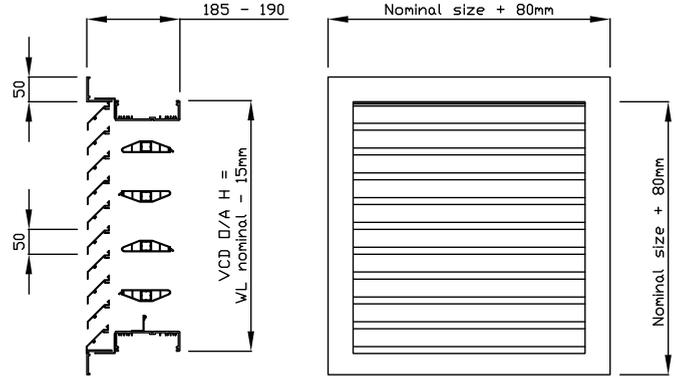
## Technical drawings

### Series WL c/w Series LF uPVC-VCD high performance plastic volume control damper



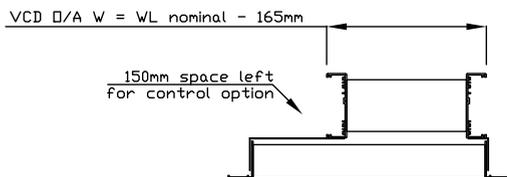
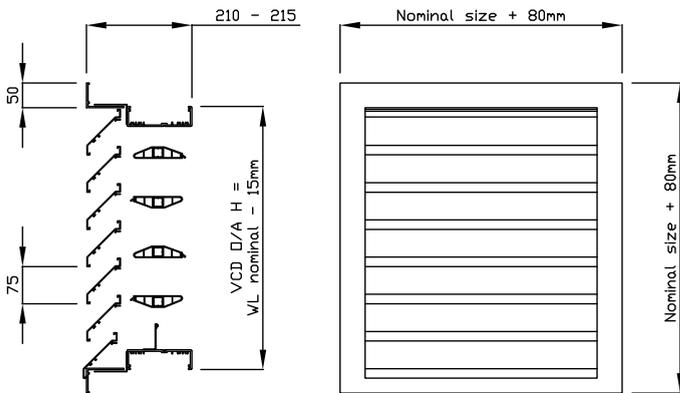
WL50 - 30FW c/w LF uPVC-VCD

50mm pitch louvre with 30mm flat frame complete with high performance plastic volume control damper



WL50 - 50FS c/w LF uPVC-VCD

50mm pitch louvre with 50mm flat frame complete with high performance plastic volume control damper



WL75 - 50FD c/w LF uPVC-VCD

75mm pitch louvre with 50mm flat frame complete with high performance plastic volume control damper

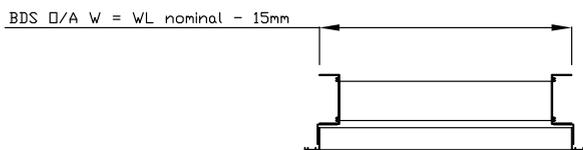
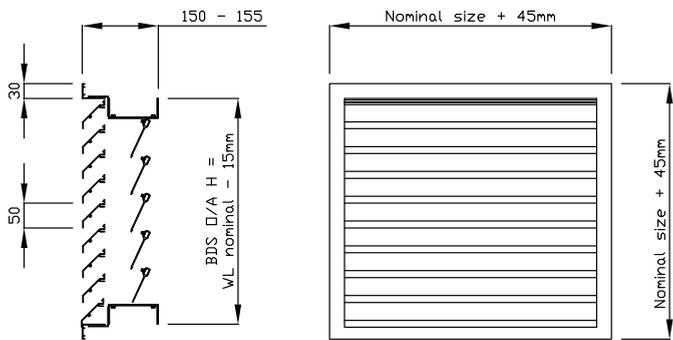
#### Duct connection:

As standard dampers are supplied in a Model A configuration (square flanged).

If required the non-louvre side of the damper can be supplied with a square, circular or flat oval spigot, please contact HVC for more details.

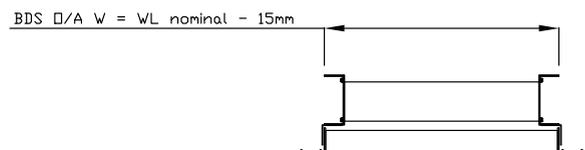
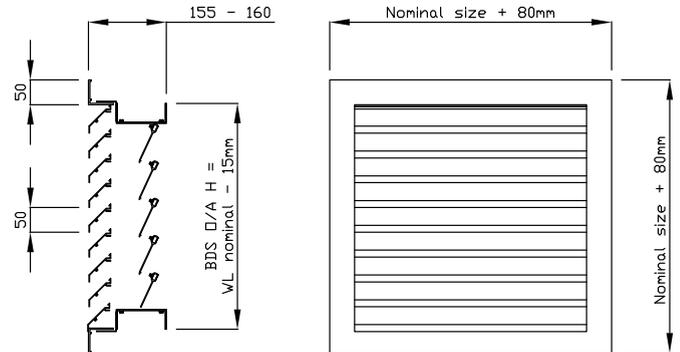
## Technical drawings

### Series WL c/w Series BDS back-draught (non-return) damper



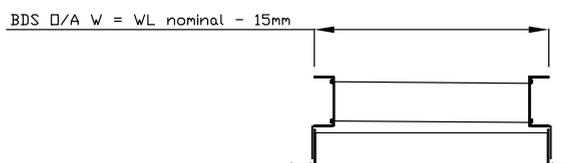
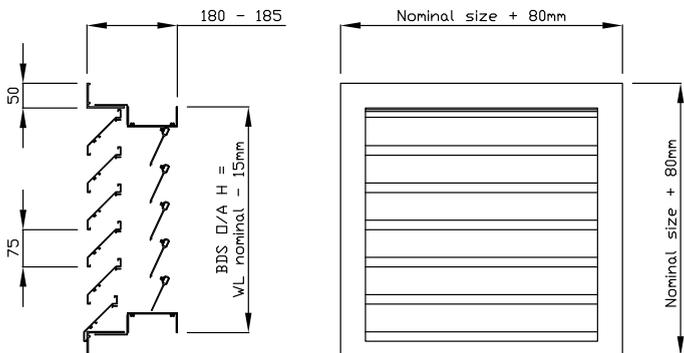
WL50 - 30FW c/w BDS (EX)

50mm pitch louvre with 30mm flat frame complete with back-draught shutter



WL50 - 50FS c/w BDS (EX)

50mm pitch louvre with 50mm flat frame complete with back-draught shutter



WL75 - 50FD c/w BDS (EX)

75mm pitch louvre with 50mm flat frame complete with back-draught shutter

#### **Important note:**

Drawings on this page show units in extract setup, that being air is permitted to flow out of the louvre from inside the building - Ordering code suffix (EXT)

If units are required to permit air to flow into the louvre from outside the building, units are required in intake setup - Ordering code suffix (INT)

#### **Duct connection:**

As standard dampers are supplied in a Model A configuration (square flanged).

If required the non-louvre side of the damper can be supplied with a square, circular or flat oval spigot, please contact HVC for more details.

## Fixings

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### None (Standard)

Most weather louvres are supplied with no fixings.

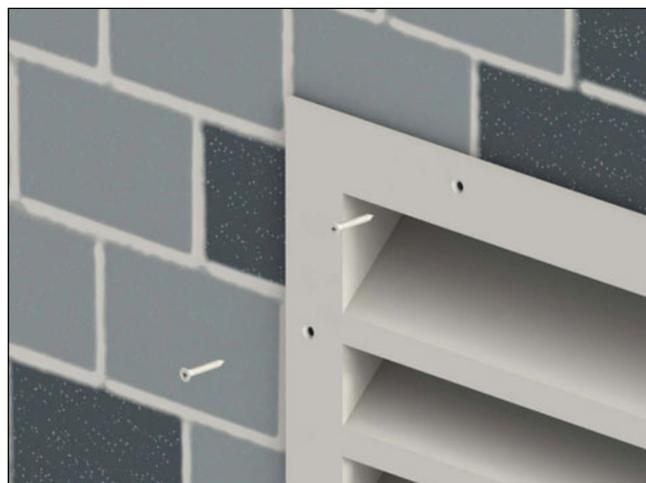
In this instance we recommend drilling through the louvre flange and screwing directly into the supporting structure with an appropriate fixing.

### Pre-punched face fixing holes - Ordering code FH

5.7mm countersunk fixing holes will be punched into the louvre frame before powder coating, allowing quick and easy fitting on site.

Number and layout of fixing holes will be appropriate to louvre size. Arrangements can be specified.

Supplied with pozidrive self tapping screws in the same finish as the louvre.



## Further options

### Burglar bars - Ordering code BB

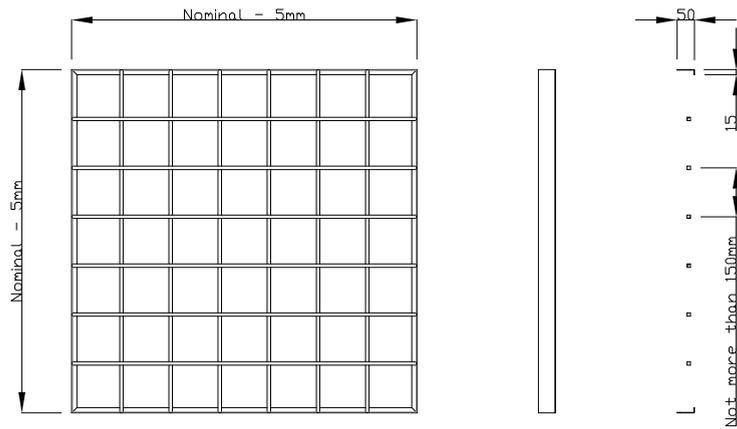
A wall mounted aluminium weather louvre can be a security risk, potentially providing an un-alarmed entry point to a building for any determined would be intruder.

Providing an extremely robust barrier to entry, burglar bars can be fitted to mitigate this risk.

Designed to be fitted directly behind a louvre, burglar bars are constructed with a 1.2mm thick galvanised steel outer frame and a grid of 10mm fully welded steel bars, leaving spaces of not more than 150mm square.

Frames are supplied undrilled to accept whatever fixings are required on site.

Supplied in a powder coated black finish as standard.



## Weather louvre finish

Mill aluminium (standard)

Polyester powder coating to any RAL or BS colour



## Ordering codes

### Example

1 - 1000 x 1000 - WL-combi - WL50 - BM - FH - 30FW - RAL9010  
c/w  
HVC-VCD - ES - SS - EX - SM24A-SR

### Codes

1)	<b>Quantity</b>		
2)	<b>Size (mm)</b>	(Width x height)	
3)	<b>Series</b>	WL-combi	Weather louvre combination unit
			<b><u>Louvre section</u></b>
4)	<b>Louvre series</b>	WL50 WL75	50mm pitch weather louvre 75mm pitch weather louvre
5)	<b>Debris screens</b>	BM IM	Bird mesh (12mm x 12mm mesh) Insect mesh
6)	<b>Fixings</b>	FH	Pre-punched face fixing holes
7)	<b>Flanges</b>	30FW 50FS 50FD	WL50: 30mm flat flange (standard) 50mm flat flange - shallow (optional) WL75: 50mm flat flange - deep (standard)
8)	<b>Finish</b>	Mill RAL... BS...	Mill aluminium (standard) Polyester powder coated to RAL... Polyester powder coated to BS...
			<b><u>Damper section</u></b>
9)	<b>Damper series</b>	HVC-VCD LF uPVC-VCD BDS-EXT BDS-INT	Aluminium volume control damper High performance plastic volume control damper Back-draught (non-return) damper in extract set-up (please see page 5 for more information) Back-draught (non-return) damper in intake set-up (please see page 5 for more information)
10)	<b>Options</b>	ES SS HT LB WB	Blade edge seals (HVC-VCD only - ES and SS can be specified together) Stainless steel frame side seals (HVC-VCD only - ES and SS can be specified together) High temperature spec (HVC-VCD and BDS only - cannot be specified with blade edge seals) Linked blades (BDS only) Linked and weighted blades (BDS only)
11)	<b>Control</b>	*nothing* LQ EX (Actuator)	Standard: HVC-VCD - Lockable plastic handle (standard with HVC-VCD) LF uPVC-VCD - Extended spindle for motorisation by others (standard with LF uPVC-VCD) Locking quadrant (optional with HVC-VCD and LF uPVC-VCD) Extended spindle for motorisation by others (optional with HVC-VCD) State actuator code When ordering a spring return actuator, please specify whether you require spring open or spring close operation.
12)	<b>Burglar/security bars</b>	BB	Burglar bars required

**Important:** Size will be taken to be nominal (hole internal) unless stated otherwise.

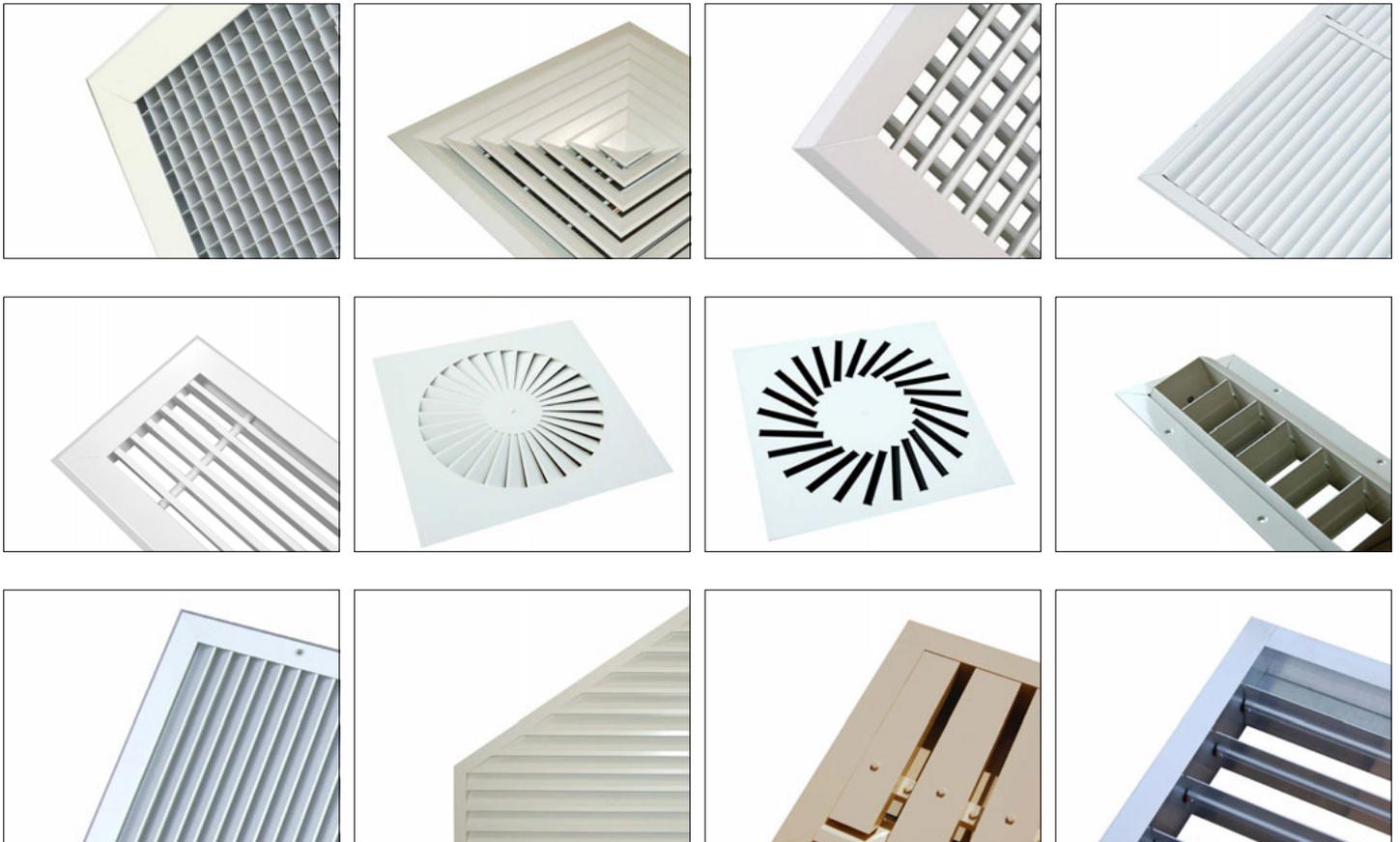
Please refer to product specific PDFs for complete information on WL-combi component products.  
Leave code section blank if no option is required.

## HVC & NCA products

HVC offer the significant advantage of manufacturing both in duct and duct terminal equipment, making us a one stop shop for all your HVAC needs.

The products shown below are a selection, not an exhaustive list. Go to [www.h-v-c.com](http://www.h-v-c.com) for details on all HVC and NCA products.

### HVC: Grilles, Diffusers, Louvres and Volume Control Dampers



### NCA: Fire and Volume Control Dampers





Assessed to ISO 9001  
Cert/Ref No. 1186

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