

# OHL - 125

## PERFORMANCE WEATHER LOUVER

### MODEL OHL-125

#### FEATURES

- High Performance Louver
- Water Penetration Performance
- Bold Straight Blade Profile
- Obstructed Line of Sight
- Dual Weather Stop Blade

#### OPTIONS

- The OHL-125 is available in two surrounds:
  - 40mm flange cover as standard
  - Flangeless channel surround (on request)
- Finish:
  - Natural anodised 25um finish as standard
  - Duralloy Powder Coat finish (on request)
  - Warranty powder coatings available (on request)
- The OHL-125 can be ordered with closable blades (on request) - this option gives the louver operability but reduces the performance of the louver (ordering code: OHCL-125)
- Insect screens (on request)
- Blank-off panels (on request)
- Head and/or sill flashing (on request)
- Security bars (on request)
- Filter racks (on request)



The OHL-125 is an attractive louver designed from proven Holyoake louver technology, featuring improved weather performance alongside a high free area.



The OHL-125 is available with an operable, closable louver that offers functionality through black anodised damper blades. These blades are pivoted on the underside of each fixed blade and operated by either manual or motorised means. While open the closing blades offer minimal additional air flow resistance.



#### TYPICAL APPLICATIONS

The OHL-125 louver can be installed as part of the Mechanical Services System for either intake or exhaust applications and is suited for applications where high airflow is required.

#### CONSTRUCTION

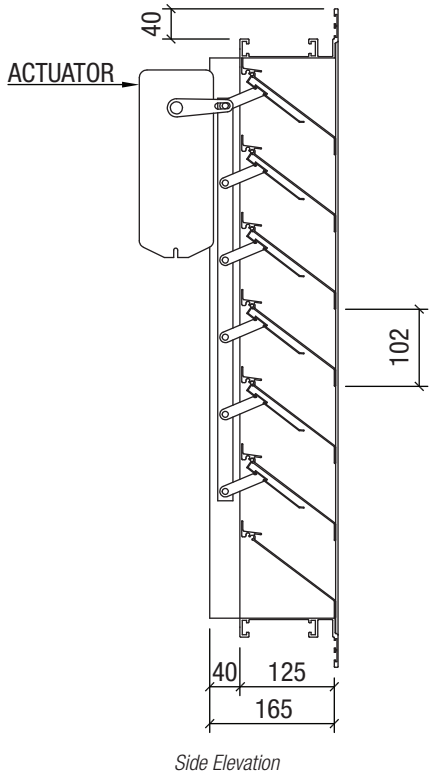
The OHL-125 louver is constructed with 6063 T6 extruded aluminium, mechanically locked together ensuring a reliable and resilient louver. Various mesh options are available for fitting to the rear of the louver. On the closable option, the integral extruded closing blades, hinged off the fixed blades, are finished black anodised.

<b>Surround:</b>	125mm deep
<b>Blades:</b>	37° x 2mm thick
<b>Mesh:</b>	- Stainless steel 10 x 10 x 0.9mm as standard - Stainless steel 6 x 6 x 0.5mm (on request)
<b>Mullion:</b>	Fitted to rear at either edge and at intervals no greater than 1000mm spacing
<b>Hardware:</b>	All stainless steel
<b>Free Area:</b>	1200mm x 1200mm unit - (0.66m <sup>2</sup> ) 46%
<b>Minimum</b>	
<b>Nominal Size:</b>	300mm (wide) x 280mm (high)
<b>Maximum</b>	<b>OHL-125:</b>
<b>Nominal Size:</b>	1128mm (wide) x 5788mm (high) or (single section) 5800mm (wide) x 1504mm (high)
	<b>OHCL-125:</b>
	1128mm (wide) x 5788mm (high) or 5800mm (wide) x 1198mm (high)

**5** YEAR WARRANTY

ALL DIMENSIONS IN MM  
INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION  
PRICE HOLYOAKE OHL-125 FEBRUARY 2024

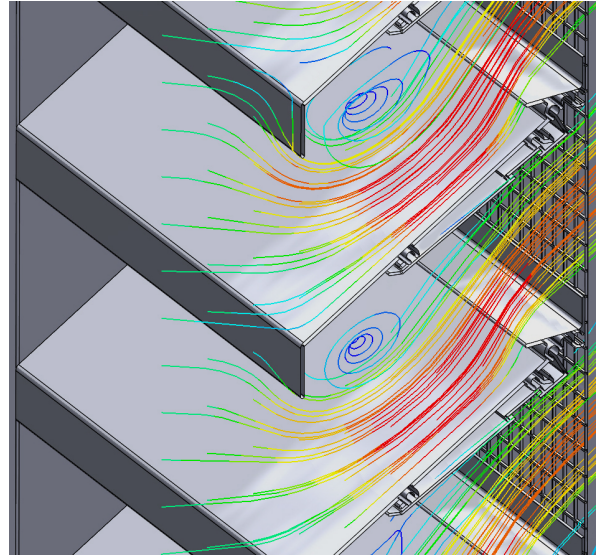
## PRODUCT INFORMATION - DIMENSIONS



## PRODUCT INFORMATION - WEIGHTS

OHCL-125 PRODUCT GUIDE WEIGHTS (KG)			
600 x 600	13	1500 x 1500	56
900 x 900	24	2000 x 3500	160
1200 x 1200	41	4000 x 1500	135

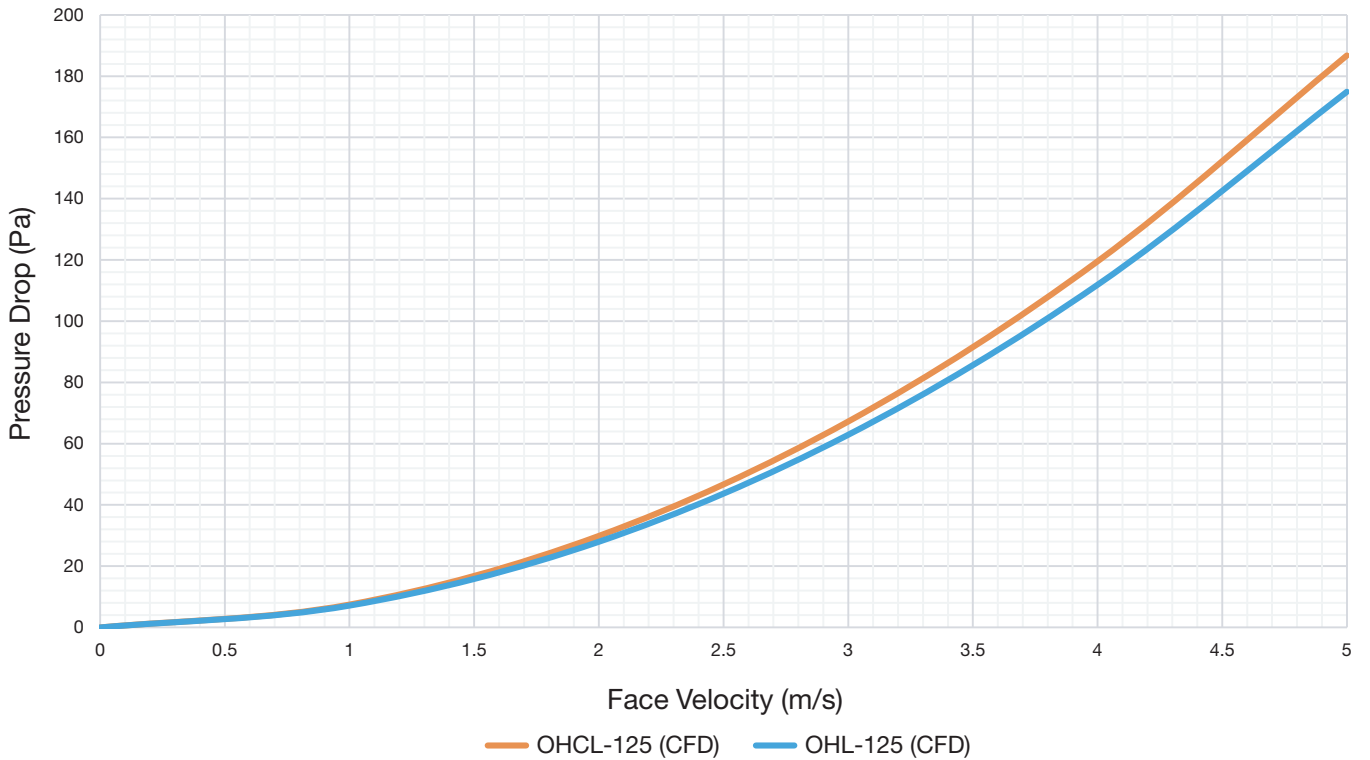
## PRESSURE DROP - CFD ANALYSIS



## PERFORMANCE DATA - FACE VELOCITY

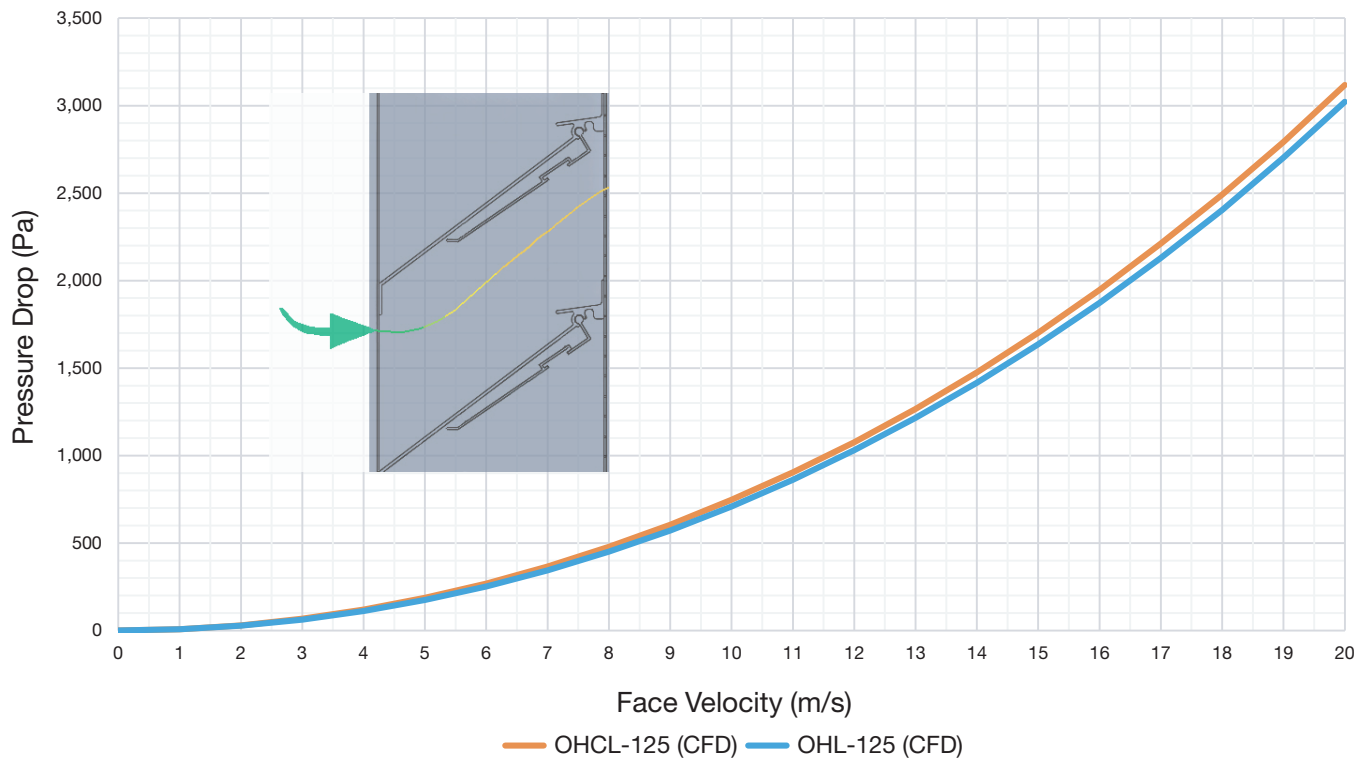
(0m/s - 5m/s for increased resolution)

Pressure Drop Performance Analysis



## PERFORMANCE DATA - FACE VELOCITY

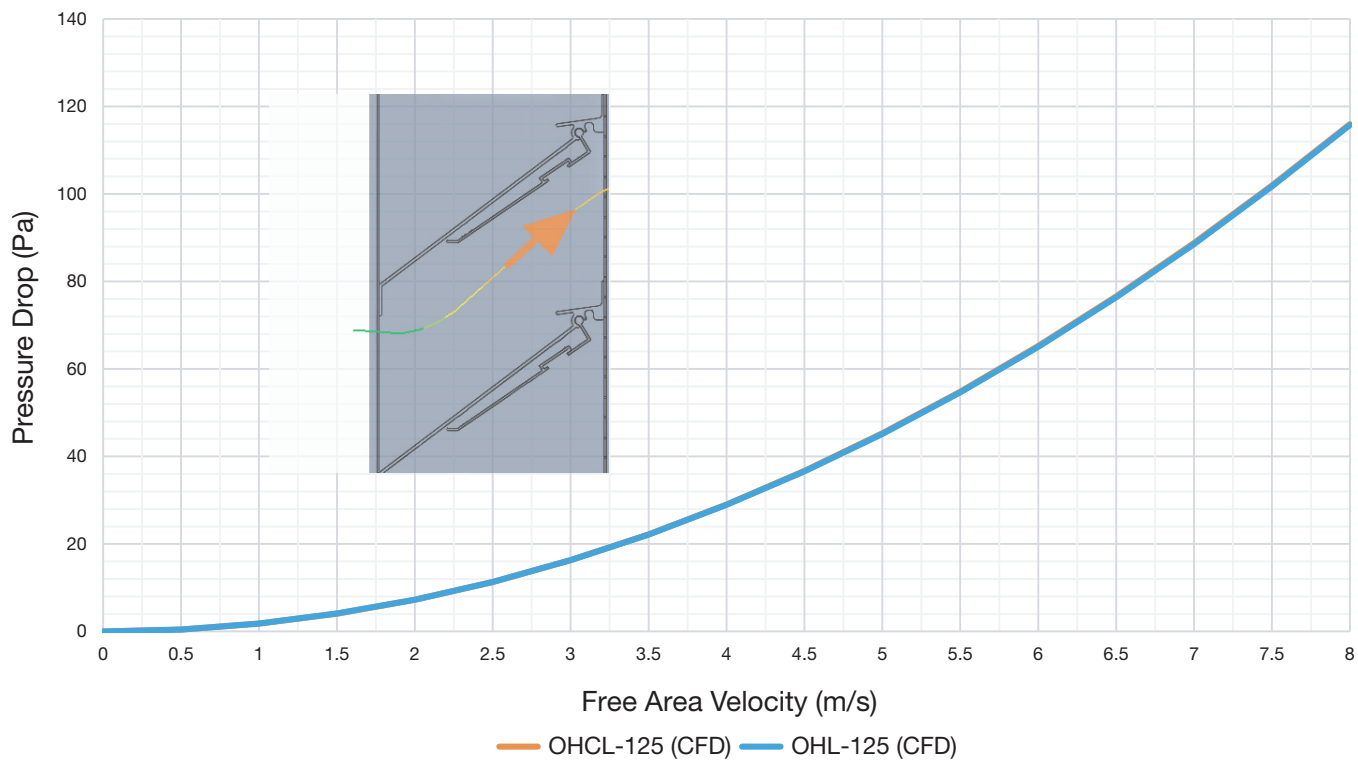
Pressure Drop Performance Analysis



The face area of a louver is the total area within the frame of the louver.  
(face area velocity is illustrated by the green arrow)

## PERFORMANCE DATA - FREE AREA VELOCITY

Pressure Drop Performance Analysis



The free area of a louver is the total minimum area between the louver blades that air can pass through.  
(free area velocity is illustrated by the orange arrow)

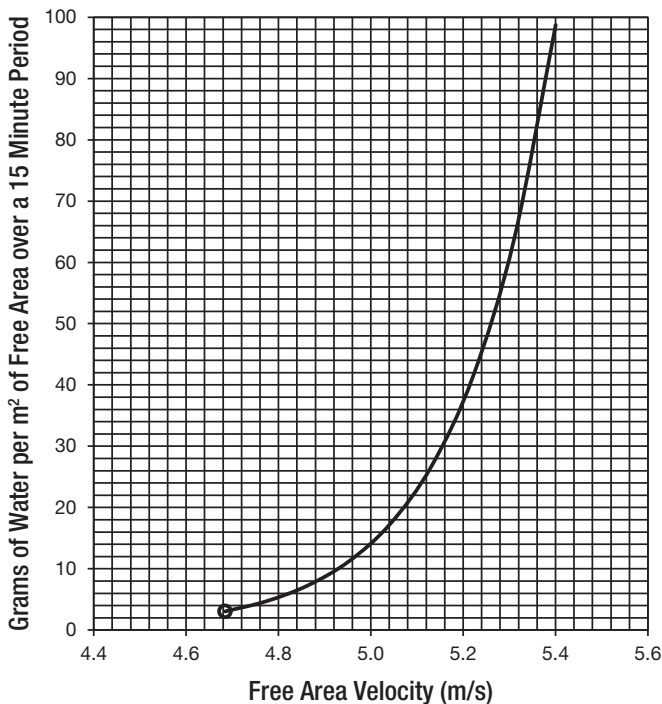
## PERFORMANCE DATA - FREE AREA (m<sup>2</sup>)

Height (mm)	Width (mm)																	
	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
280	0.02	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.06	0.07	0.08	0.08	0.09	0.09	0.10	0.11	0.11	0.12
382	0.03	0.04	0.05	0.07	0.08	0.09	0.10	0.12	0.13	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.23	0.24
484	0.05	0.06	0.08	0.10	0.12	0.14	0.16	0.17	0.19	0.21	0.23	0.25	0.27	0.28	0.30	0.32	0.34	0.36
586	0.06	0.09	0.11	0.13	0.16	0.18	0.21	0.23	0.26	0.28	0.31	0.33	0.35	0.38	0.40	0.43	0.45	0.48
688	0.08	0.11	0.14	0.17	0.20	0.23	0.26	0.29	0.32	0.35	0.38	0.41	0.44	0.47	0.50	0.53	0.56	0.59
790	0.09	0.13	0.16	0.20	0.24	0.27	0.31	0.35	0.38	0.42	0.46	0.49	0.53	0.57	0.60	0.64	0.68	0.71
892	0.11	0.15	0.19	0.23	0.28	0.32	0.36	0.41	0.45	0.49	0.53	0.58	0.62	0.66	0.70	0.75	0.79	0.83
994	0.12	0.17	0.22	0.27	0.32	0.37	0.41	0.46	0.51	0.56	0.61	0.66	0.71	0.76	0.81	0.85	0.90	0.95
1096	0.14	0.19	0.25	0.30	0.36	0.41	0.47	0.52	0.58	0.63	0.69	0.74	0.80	0.85	0.91	0.96	1.02	1.07
1198	0.15	0.21	0.27	0.34	0.40	0.46	0.52	0.58	0.64	0.70	0.76	0.82	0.88	0.95	1.01	1.07	1.13	1.19
1300	0.17	0.23	0.30	0.37	0.44	0.50	0.57	0.64	0.70	0.77	0.84	0.91	0.97	1.04	1.11	1.17	1.24	1.31
1402	0.18	0.26	0.33	0.40	0.48	0.55	0.62	0.70	0.77	0.84	0.92	0.99	1.06	1.13	1.21	1.28	1.35	1.43
1504	0.20	0.28	0.36	0.44	0.52	0.59	0.67	0.75	0.83	0.91	0.99	1.07	1.15	1.23	1.31	1.39	1.47	1.55
1606	0.21	0.30	0.38	0.47	0.56	0.64	0.73	0.81	0.90	0.98	1.07	1.15	1.24	1.32	1.41	1.49	1.58	1.67
1708	0.23	0.32	0.41	0.50	0.59	0.69	0.78	0.87	0.96	1.05	1.14	1.24	1.33	1.42	1.51	1.60	1.69	1.78
1810	0.24	0.34	0.44	0.54	0.63	0.73	0.83	0.93	1.02	1.12	1.22	1.32	1.42	1.51	1.61	1.71	1.81	1.90
1912	0.26	0.36	0.47	0.57	0.67	0.78	0.88	0.99	1.09	1.19	1.30	1.40	1.50	1.61	1.71	1.81	1.92	2.02
2014	0.27	0.38	0.49	0.60	0.71	0.82	0.93	1.04	1.15	1.26	1.37	1.48	1.59	1.70	1.81	1.92	2.03	2.14

## PERFORMANCE DATA - WATER PENETRATION

AMCA defines the beginning point of water penetration as the free area velocity at the intersection of a simple linear regression of test data and the line of 3 grams of water per square metre of free area measured through a 1219 mm x 1219 mm louver during a 15 minute period. The AMCA water penetration test provides a method for comparing louver models and designs as to their efficiency in resisting the penetration of rainfall under specific lab conditions. We recommend that intake louvers are selected with a reasonable margin of safety below the beginning point of water penetration in order to avoid unwanted penetration during severe storm conditions.

Beginning Point of Water Penetration = 4.7 m/s



## PERFORMANCE DATA - PRESSURE LOSS

Pressure loss testing has been completed on a 1219 mm x 1219 mm louver in accordance with Figure 5.5 of AMCA Standard 500-L.

