## OHCL - Closable Horizontal Louvers

Both OHL-102 and 124 louvers are available as closable options. They offer performance and appearance similar to the basic model with the facility to close the complete louver by means of concealed damper blades, pivoted on the underside of each fixed blade, and gang operated by either manual or motorised means. They are ideally suited for use in high wind storm conditions. While open, they offer minimum air flow resistance with low droplet penetration for normal weather.

Typical uses are to provide controlled air movement in conjunction with powered and natural ventilation schemes in factories, plant rooms, power stations and similar projects.

Other suitable applications include controlable air inlets operating with smoke clearance systems, where louvers would normally remain closed, but would open in the event of an emergency.

Bird screen material slides horizontally into tracks between blades so that linkages are not obstructed.

#### **Standard Construction**

#### Frame:

6063 T5 extruded aluminium, mitred corners, mechanically locked with heavy aluminium gussets.

#### Blades (Fixed):

6063 T5 extruded aluminium with screw pipes for end fixing, clip lugs for snap on mullion supports and channels for bird screen and hinge.

#### Blades (Operating):

6063 T5 extruded aluminium (black anodised) with integral hinge and edge seal of extruded vinul.

#### Bird Screen:

Expanded aluminium.

#### Finish:

Mill finish, natural or colour anodised, or powder coated. In all cases hinged control blade is black anodised.

#### MODELS:

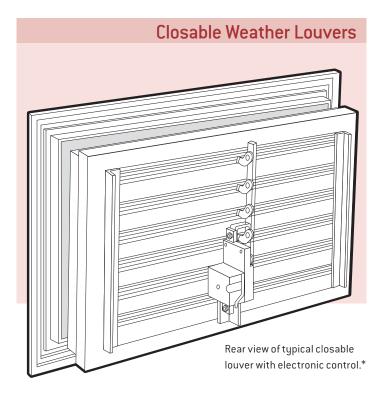
OHCL-C-102 or 124 (Channel Frame)
OHCL-F-102 or 124 (Flanged Frame)

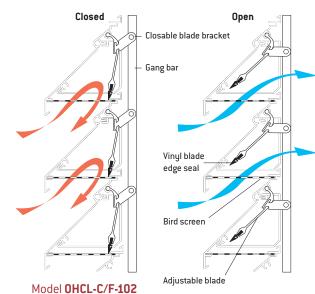
For continuous appearance with this model, contact your local Holyoake branch.

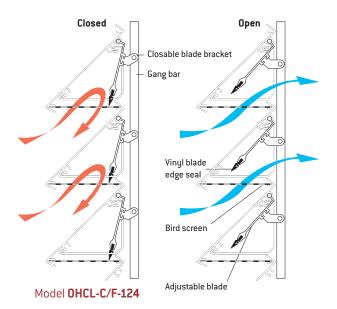
\* Note: Motor can be mounted Top, or Bottom. Specify when ordering.

#### Performance Note

Models OHCL 102 and OHL 102 share the same effective pressure area chart. Model OHCL 124 has slightly lower effective pressure area than OHL 124 Refer to chart pertaining to appropriate model.



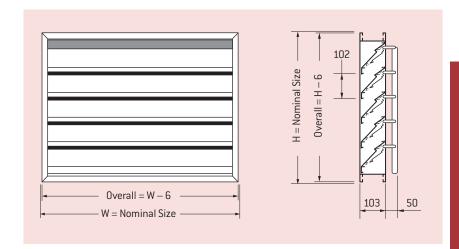




# Closable Horizontal Louvers – OHCL

#### Model: 0HCL-C-102

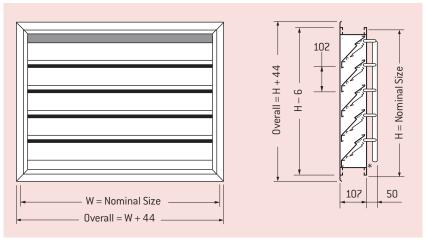
102mm Horizontal closable louver, curved blade profile, in a channel surround.



#### Model: 0HCL-F-102

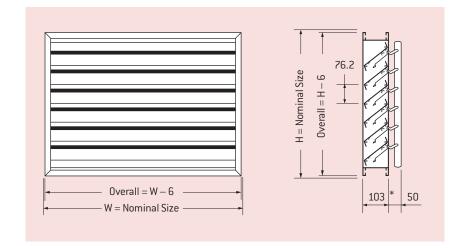
102mm Horizontal closable louver, curved blade profile in a flanged surround.

Guide Product Weights									
Approximate Weight in Kg.									
Size	OHCL-C-102	OHCL-C-102 OHCL-F-102 OH		OHCL-F-124					
300 x 300	2	2	2	2					
700 x 700	11	12	11	12					
1050 x 1000	22	23	22	23					
1500 x 1500	46	48	46	48					
2500 x 2000	102	107	102	107					



#### Model: OHCL-C-124

76mm Horizontal closable louver, straight blade profile in a channel surround.



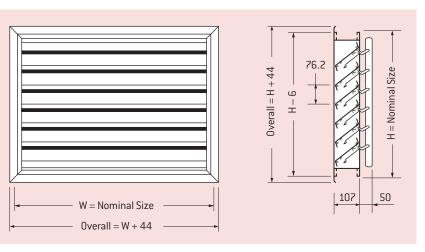
#### Model: OHCL-F-124

76mm Horizontal closable louver, straight blade profile in a flanged surround.

#### Notes

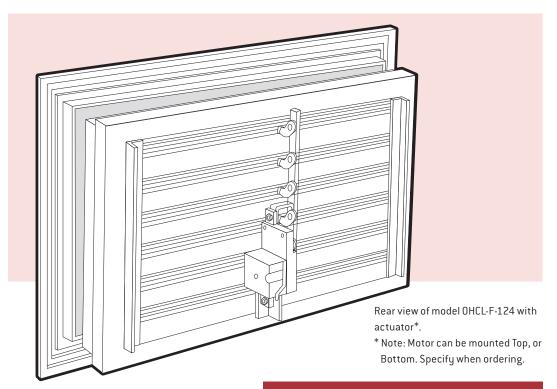
- The number of Actuators or Manual Operators required is dependent on the overall size of the closable louver.

  Large applications will require several. Please refer to your local Holyoake branch for further details.
- 2. \*110 mm minimum clearance should be allowed for motor fitment.



# OHCL - Selection Data

Models: OHCL-C-124 OHCL-F-124 and



### Effective pressure area (sq. metres)

					WIDT	H mm (	NOMI	NAL)									
Blade Spaces	HEIGHT mm (NOMINAL)	300	450	600	750	900	0	1050	125	0	1500	175	0	2000	225	60	2500
2	299	0.02	0.03	0.04	0.05	0.0	6	0.07	0.0	8	0.10	0.1	2	0.14	0.1	6	0.18
3	375	0.03	0.04	0.06	0.07	0.0	9	0.10	0.1	3	0.15	0.1	8	0.21	0.2	4	0.26
4	451	0.04	0.06	0.08	0.10	0.17	2	0.13	0.1	7	0.21	0.2	4	0.28	0.3	1	0.35
5	527	0.04	0.07	0.10	0.12	0.1!	5	0.17	0.2	1	0.26	0.3	0	0.35	0.3	9	0.44
6	603	0.05	0.08	0.12	0.15	0.18	8	0.20	0.2	6	0.31	0.3	6	0.42	0.4	7	0.53
7	680	0.06	0.10	0.14	0.17	0.2	1	0.24	0.3	0	0.36	0.4	3	0.49	0.5	5	0.61
8	756 .05	0.07	0.11	0.16	0.20	0.2	4	0.27	0.3	4	0.41	0.4	9	0.56	0.6	3	0.70
9	832	0.08	0.13	0.18	0.22	0.2	7	0.30	0.3	9	0.47	0.5	5	0.63	0.7	1	0.79
10	908	0.09	0.14	0.20	0.25	0.3	0	0.34	0.4	3	0.52	0.6	1	0.70	0.7	9	0.88
11	984	<b>.1</b> 0.10	0.16	0.21	0.27	0.3	3	0.37	0.4	7	0.57	0.6	7	0.77	0.8	7	0.97
12	1061	0.10	0.17	0.23	0.30	0.3	6	0.41	0.5	1	0.62	0.7	3	0.84	0.9	5	1.06
13	1137	0.11	0.18	0.25	0.32	0.3	9	0.44	0.5	6	0.67	0.7	9	0.91	1.0	3	1.14
14	1213	0.12	0.20	0.27	0.35	0.4	0.39 0.42		0.6	0	0.73	0.8	5	0.98	1.1	0	1.23
15	1289	0.13	0.21	0.29	0.37	0.4	5	0.51	0.6	4	0.78	0.9	1	1.05	1.1	8	1.32
16	1365	0.14	0.23	0.31	0.40	0.4	9	0.54	0.6	9	0.83	0.9	7	1.12	1.2	6	1.41
17	1442	0.15	0.24	0.33	0.42	0.5	2	0.58	0.7	3	0.88	1.0	4	1.19	1.3	4	1.49
18	1518	0.16	0.25	0.35	0.45	0.5	5	0.61	0.7	7	0.93	1.1	0	1.26	1.4	2	1.58
							<u>.</u>										
			Velocity, r	m/s ** 1	.0 1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
	re requireme		Intake*		2 4	7	11	16	22	29	37	45	55	65	77	89	102
for outs	ide louvers		Exhaust*		1 3	5	8	11	15	19	24	30	37	43	51	59	68

## Example of selection for outside louvers

Select an outside louver for exhausting 0.581 m<sup>3</sup>/s with a pressure requirement of 11 Pa (N/m<sup>2</sup>).

- 1. From pressure requirement table a velocity of 3.0 m/s is indicated as acceptable for an exhaust pressure of 11 Pa (N/m²).
- 2. The effective pressure area corresponding to this velocity and air quantity is
- Area =  $m^3/s$  = 0.581 = 0.19m<sup>2</sup> velocity

3. For a model OHCL-C-124 louver, an effective pressure area of 0.19 m<sup>2</sup> is satisfied by a 750 wide x 756 high louver at 0.2 m<sup>2</sup>, etc.

\*Total Pressure Pa  $(N/m^2)$  \*\* Velocity corresponding to Effective Pressure Area  $m^3/s = Velocity$  Times Effective Pressure Area.

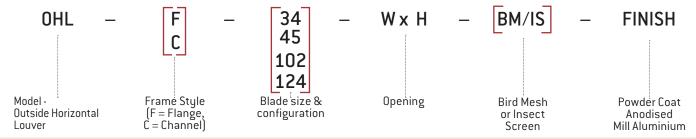
# OHCL, OHL, OHL-D, OHL-DRC, & OHL-LAOGS

### Louver Description Code Examples and Suggested Specifications

OHCL 102  $W \times H$ OPTIONS **FINISH** 124 Blade size & Opening Model -Frame Style 24 V AC/DC Motor Powder Coat Closable Outside (F = Flange, 230 V AC Motor Anodised configuration Horizontal Louver C = ChannelMill Aluminium

Closable Horizontal Outside Louvers shall be of extruded aluminium construction with black anodised blades with integral flange and extruded vinyl edge seal. Fixed blades incorporate expanded aluminium bird screen. Blade closure is via Gang Linkage bars either manually, or by a factory fitted linear motor. Closable Louvers shall be Series OHCL.

All shall be as manufactured by Holyoake.



Horizontal Outside Louvers shall be of extruded aluminium construction with 100 mm blades fixed at their ends with stainless steel screws into a welded aluminium frame. The bottom louver shall overlap the frame and the structure shall be designed to with stand a wind load of  $95~{\rm Kg/m^2}$ .

Louvers shall be type OHL - F - 102.

All shall be as manufactured by Holyoake.

[Example specification shown is for a flanged OHL-F-102].



Drainable Horizontal Outside Louvers shall be of extruded aluminium construction with blades which drain through vertical down pipes to discharge water at the bottom of the louver.

Louvers shall be type OHL - D.

All shall be as manufactured by Holyoake.

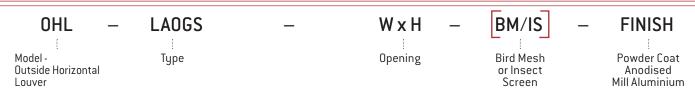


Drainable Closable Horizontal Outside Louvers, shall be of extruded aluminium construction, with special overlapping drainable closable blades and complete with extruded aluminium security mesh on the rear.

Blade closure is via Linkage bars in a concealed cavity, either manually, or by a suitable factory fitted motor.

Drainable Closable Louvers shall be Series OHL - DRC.

All shall be as manufactured by Holyoake.

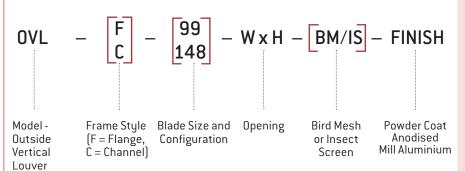


OHL - LAOGS Horizontal Outside Louvers shall be constructed from welded aluminium construction. Bird Mesh is fitted to the rear as standard. Louvers shall be type OHL-LAOGS.

All shall be as manufactured by Holyoake.

# OVL, OHL-KD, PHL, ST2/4 & LOUVER DOOR

## Louver Description Code Examples and Suggested Specifications



Vertical Outside Louvers shall be of extruded aluminium construction with blades fixed at ends with stainless steel screws into a mitred and mechanically locked extruded aluminium frame. Intermediate blade stabilizing spacer clips shall be fitted where blade length exceeds 900mm and the structure shall be designed to withstand a wind load of 95kg/m².

Louvers shall be type OVL-C-99.

All shall be as manufactured by Holyoake.

(Example specification shown is for OVL-C-99).



OHL-KD (Knock Down) Outside Horizontal Louvers shall be manufactured from aluminium extrusion and are supplied in Kit Form for on site assembly, by others. The louver blades shall be sight proof, complete with two water stops and may be provided in a powder coat finish, with Bird Mesh, or Insect Screen.

Louvers shall be type OHL - KD - 100.

All shall be as manufactured by Holyoake.



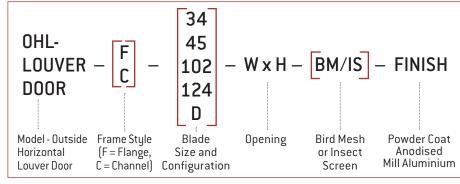
PHL Penthouse Louvers shall be constructed from welded aluminium extrusion with mitred corners. Heavy, extruded aluminium blades and heavy gauge aluminium roof, with bird mesh, or insect screen.

Penthouse Louvers shall be Series PHL-102, or PHL-124. All shall be as manufactured by Holyoake.



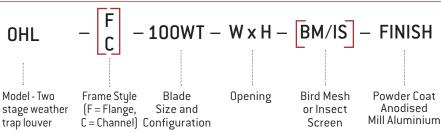
OHL-ST Sound Trap attachments shall be constructed of a number of cylindrical sound absorbing elements, all housed in a sheet aluminium surround which matches the selected OHL louver.

Sound Traps shall be Series OHL - ST2, or OHL - ST4. All shall be as manufactured by Holyoake.



OHL-LOUVER DOORS are robustly constructed with Aluminium box section frames and extruded aluminium blades of the size and configuration required. High quality stainless steel hinges shall be used to support the relevant door loads. A 'High Quality' lock set and handle shall be provided as standard, as well as rubber seals to eliminate door rattle.

Louver Doors shall be Series OHL-Louver Doors. All shall be as manufactured by Holyoake.



Horizontal Outside weather trap louvers shall be of extruded aluminium construction with 100mm front blades fixed at their ends and complete with second stage blades at the rear. The bottom louver shall overlap the frame and the structure shall be designed to withstand a wind load of 95 kg/m2.

Louvers shall be type OHL-F-100WT.

All shall be as manufactured by Holyoake.