TROX



HIGH-PERFORMANCE LOUVERS

STATIONARY LOUVER DRAINABLE BLADE

AWX

www.troxbrasil.com.br

PRODUCT DETAILS

The AWX unit has been designed to protect HVAC (heating, ventilation, and air conditioning) systems against the ingress of rainwater and other harmful agents which, in addition to compromising system performance due to excessive humidity, may also promote the growth of microorganisms, posing health risks.
Our louver features drainable horizontal blades manufactured from extruded 6063-T5 aluminum alloy, ensuring efficient airflow with minimal water penetration.
Projects with large openings requiring multiple louver sections demand structural reinforcing members for proper interconnection and fastening between sections, as well as the incorporation of front drainage provisions to ensure proper water runoff.
Non-standard items – consult commercial and technical supply conditions



TROX certifies that the AWX louvers presented here in are authorized to bear the AMCA Seal. The performance ratings shown are based on tests and procedures conducted in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to Water Penetration and Air Performance (Airflow) ratings.
Louvers were tested in accordance with AMCA Standard 500-L.

STANDARD CONSTRUCTION

Frame	Extruded 6063-T5 aluminum, nominal thickness 0.081 in. (2 mm)
Blades	Extruded 6063-T5 aluminum, nominal thickness 0.081 in. (2 mm)
Blade	4.33 in. (110 mm)
Depth	6 in. (152.4 mm)
Construction	Mechanically fastened
Minimum Size	12.2 in. W × 12.2 in. H (310 mm W × 310 mm H)
Maximum Size	78.74 in. W × 78.74 in. H (2000 mm W × 2000 mm H)

Performance of 48 in. x 48 in. (1219 mm x 1219 mm) Louver

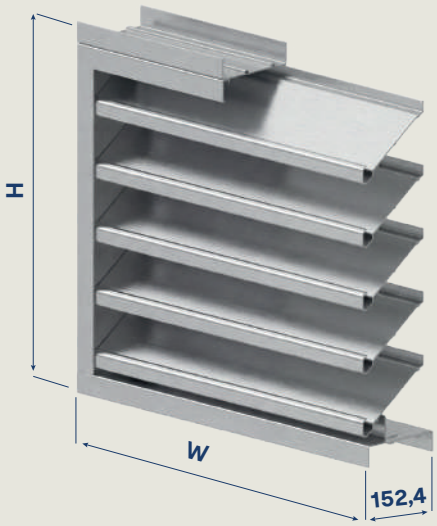
Free area	
Area	**7.96 sq. ft. (0.73 m²)**
Percent	**59,2%**

Performance at the beginning point of water penetration	
Free Area Velocity	**968 fpm (4.92 m/s) Max Intake Volume 7,084 cfm (3.342 m³/s)**

Performance at 5,534 CFM (2.611 m³/s) Intake
Pressure Drop 0.061 in. wg (0.015 kPa)

INSTALLATION

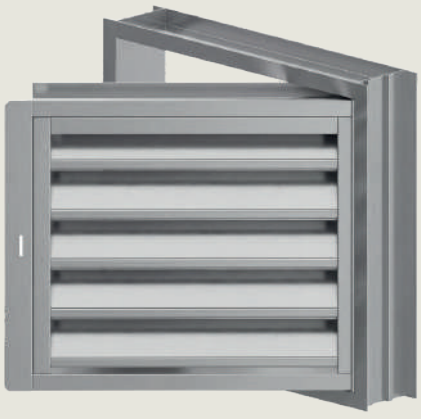
Standard



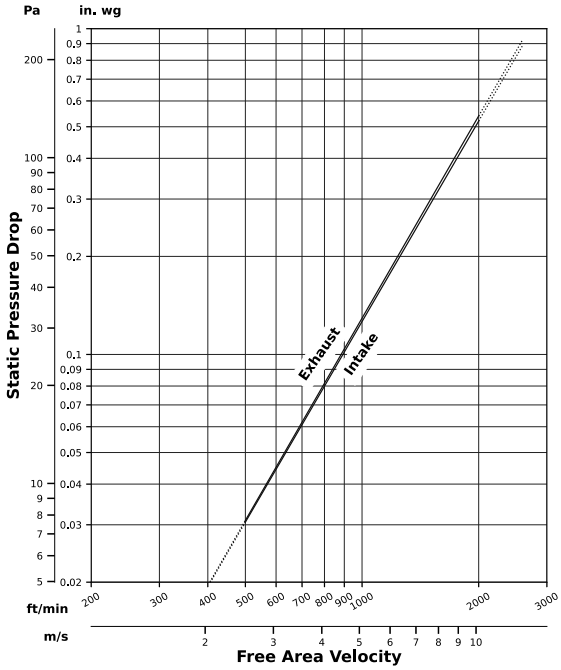
With Flange:



With Hinged Frame:

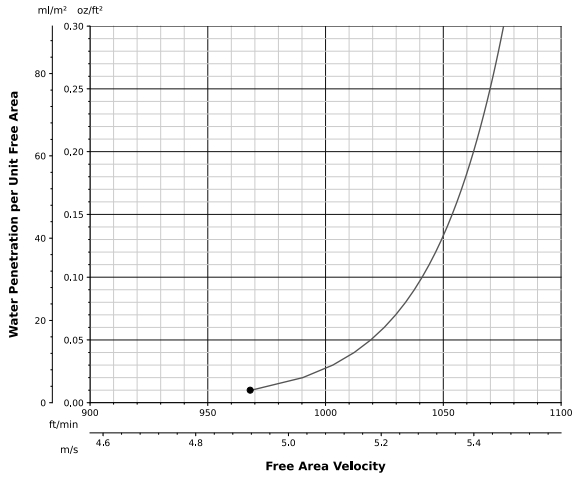


Airflow Resistance
Standard Air: 0.075 lb/ft³ (1.2 kg/m³)
Test size: 48 in. x 48 in. (1219 mm x 1219 mm)



The AWX airflow resistance (pressure drop) varies depending on the louver application (air intake or air exhaust).
The free area velocities (shown) are higher than the average velocity through the overall louver area.
Refer to the louver selection information. (Figure 5.5–6.5)

Water Penetration
Standard Air: 0.075 lb/ft³ (1.2 kg/m³)
Test Size: Test size 48 in. x 48 in. (1219 mm x 1219 mm)
Test Duration: 15 min



The AMCA Water Penetration Test provides a method for comparing different louver models and designs with respect to their effectiveness in resisting the penetration of rainwater under specific laboratory test conditions.
*The beginning point of water penetration is defined as that velocity where the water penetration curve projects through 0.01 oz. (3 g) of water (penetration) per sq. ft. (m²) of louver free area. *The beginning point of water penetration for Model AWX is 968 fpm (4.92 m/s) free area velocity.*
These performance ratings do not guarantee that the louver will be completely weatherproof or stormproof and should be used in conjunction with other factors, including proper engineering evaluation and judgment, when selecting the louver.

FREE AREA TABLE

The free area table shows the open area square feet and square meters (m²).

H / W		W*												
	inch	13	15	20	25	30	36	42	48	54	60	66	72	78
	13	0,20	0,24	0,33	0,43	0,53	0,65	0,77	0,88	1,00	1,12	1,24	1,36	1,47
	15	0,20	0,24	0,33	0,43	0,53	0,65	0,77	0,88	1,00	1,12	1,24	1,36	1,47
	20	0,39	0,47	0,67	0,87	1,06	1,30	1,53	1,77	2,00	2,24	2,48	2,71	2,95
	24	0,59	0,71	1,00	1,30	1,59	1,95	2,30	2,65	3,01	3,36	3,71	4,07	4,42
	30	0,98	1,18	1,67	2,16	2,65	3,24	3,83	4,42	5,01	5,60	6,19	6,78	7,37
	36	1,18	1,42	2,01	2,60	3,18	3,89	4,60	5,31	6,01	6,72	7,43	8,14	8,84
H*	42	1,57	1,89	2,67	3,46	4,25	5,19	6,13	7,08	8,02	8,96	9,91	10,85	11,79
	48	1,77	2,12	3,01	3,89	4,78	5,84	6,90	7,96	9,02	10,08	11,14	12,21	13,27
	54	1,97	2,36	3,34	4,33	5,31	6,49	7,67	8,85	10,02	11,20	12,38	13,56	14,74
	60	2,36	2,83	4,01	5,19	6,37	7,78	9,20	10,61	12,03	13,44	14,86	16,27	17,69
	66	2,56	3,07	4,35	5,62	6,90	8,43	9,97	11,50	13,03	14,56	16,10	17,63	19,16
	72	2,75	3,30	4,68	6,06	7,43	9,08	10,73	12,38	14,03	15,69	17,34	18,99	20,64
	78	3,15	3,78	5,35	6,92	8,49	10,38	12,27	14,15	16,04	17,93	19,81	21,70	23,59

Free area (ft²) defined according to AMCA Standard 500L
***Minimum 12.2 in. x 12.2 in. and maximum 78.74 in. × 78.74 in.**

H / W		W*												
	mm	330	380	510	635	760	915	1070	1220	1370	1525	1680	1830	1980
	330	0,02	0,02	0,03	0,04	0,05	0,06	0,07	0,08	0,09	0,10	0,12	0,13	0,14
	380	0,02	0,02	0,03	0,04	0,05	0,06	0,07	0,08	0,09	0,10	0,12	0,13	0,14
	510	0,04	0,04	0,06	0,08	0,10	0,12	0,14	0,16	0,19	0,21	0,23	0,25	0,27
	635	0,05	0,07	0,09	0,12	0,15	0,18	0,21	0,25	0,28	0,31	0,35	0,38	0,41
	760	0,09	0,11	0,16	0,20	0,25	0,30	0,36	0,41	0,47	0,52	0,58	0,63	0,68
	915	0,11	0,13	0,19	0,24	0,30	0,36	0,43	0,49	0,56	0,62	0,69	0,76	0,82
H*	1070	0,15	0,18	0,25	0,32	0,39	0,48	0,57	0,66	0,75	0,83	0,92	1,01	1,10
	1220	0,16	0,20	0,28	0,36	0,44	0,54	0,64	0,74	0,84	0,94	1,04	1,13	1,23
	1370	0,18	0,22	0,31	0,40	0,49	0,60	0,71	0,82	0,93	1,04	1,15	1,26	1,37
	1525	0,22	0,26	0,37	0,48	0,59	0,72	0,85	0,99	1,12	1,25	1,38	1,51	1,64
	1680	0,24	0,29	0,40	0,52	0,64	0,78	0,93	1,07	1,21	1,35	1,50	1,64	1,78
	1830	0,26	0,31	0,43	0,56	0,69	0,84	1,00	1,15	1,30	1,46	1,61	1,76	1,92
	1980	0,29	0,35	0,50	0,64	0,79	0,96	1,14	1,31	1,49	1,67	1,84	2,02	2,19

Free area (m²) defined according to AMCA Standard 500L
***Minimum 310 mm x 310 mm and maximum 2000 mm × 2000 mm**

PRODUCT CODE

AWX-DB – 1650 x 1180 / TM / PH2

1 2 3 4 5 6

1 TYPE

Stationary Louver, Drainable
Blade AWX

2 INSTALLATION

PD Standard Installation
DB Installation with Hinged Frame
FL Installation with Flange

3 WIDTH

12.2 in. x 78.74 in. (310 mm - 2000 mm)

4 HEIGHT

12.2 in. x 78.74 in. (310 mm - 2000 mm)

5 SCREEN

ST Without Screen
TM With Insect Screen
TP With Bird Screen

6 FINISH

ANO Natural Anodized Finish
PH2 White Powder Coating – RAL 9003



FOR MORE INFORMATION ACCESS THE QR CODE BELOW

TROX do Brasil
Rua Alvarenga, 2025 Butantã
05509-005 – São Paulo – SP – Brasil
Tel. +55 (11) 3037-3900
trox-br@troxgroup.com

www.troxbrasil.com.br

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