

## DF-47



### Long-throw rectangular diffuser

#### Product description

Rectangular, long-throw diffuser KOOLAIR, model **DF-47**, size  $\_x\_$ , dimension of  $\_x\_$ . It can incorporate volume control damper (29-O-47). The diffuser can be manually adjusted to be vertically positioned at an angle of ( $\pm 30^\circ$ ). The unit is equipped with deflecting blades for distributing the air in horizontal fan-shape or concentrating the inlet airflow in the desired direction.

Finished in anodised aluminium or any RAL colour upon request. Recommended installation height between 2.5 and 6 m.

#### Mounting

**With screws.** Without indication the diffuser is always screw-mounted.

**M-47.** Mounting frame. Fixed with screws.

#### Other models

**DF-47-TR.** Rectangular long-throw diffuser autoregulated by thermal element. Available til size 312.

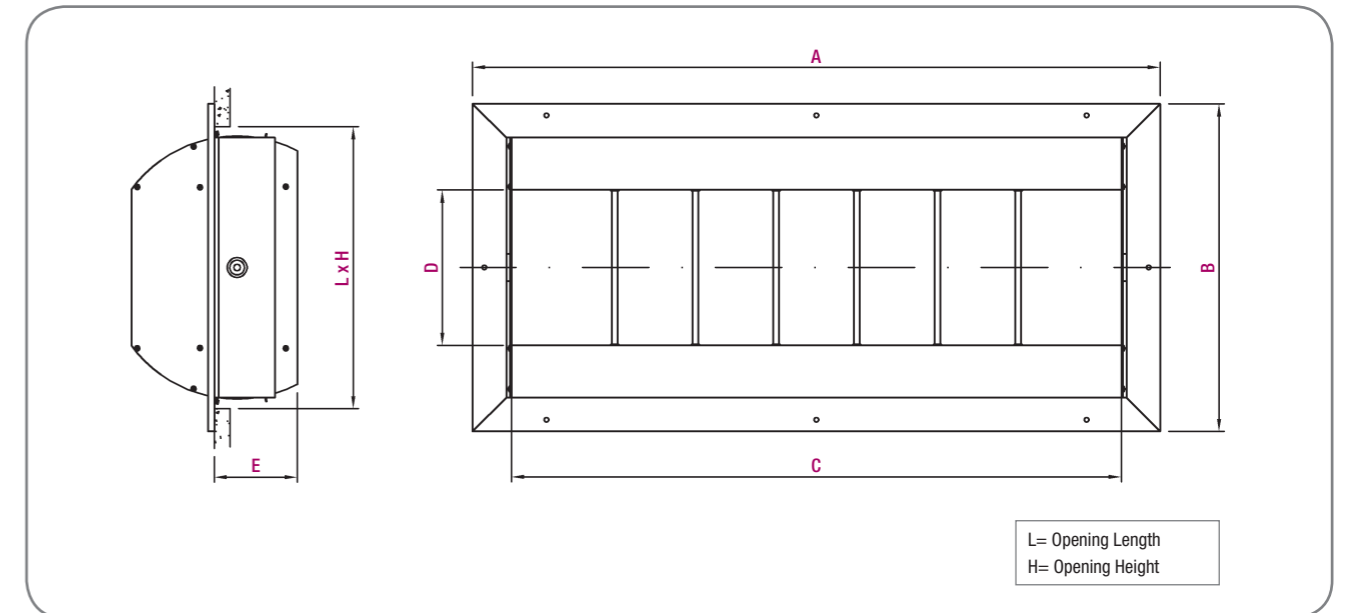
**DF-47-CC.** Rectangular ong-throw diffuser adaptable to round duct.

**DF-47-AE.** Rectangular long-throw diffuser with motorised mechanism.

**DF-47-CC-AE.** Rectangular long-throw diffuser adaptable to round duct with motorised mechanism.

**DF-47-S.** Rectangular diffuser, long throw, narrow slot.

#### General dimensions

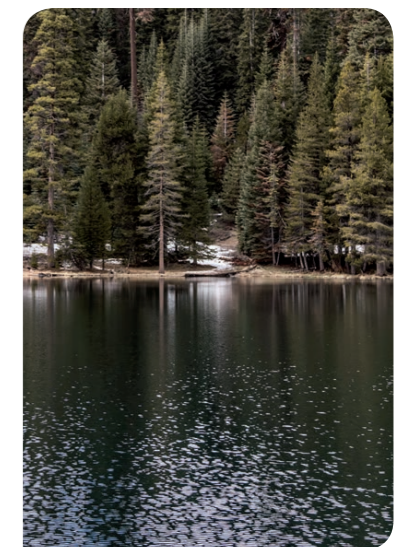


L x H	A	B	C	D	E
305 x 165	348	210	284	82	58,5
610 x 165	652	210	588	82	58,5
610 x 267	652	310	588	147	78,5
1219 x 267	1262	310	1198	147	78,5
1067 x 380	1110	422	1046	229	102

Unit mm

#### Selection table

Size	Dimension	Q (m³/h)	L <sub>WA</sub> [dB(A)]	ΔP <sub>t</sub> (Pa)	X <sub>0,3</sub>	X <sub>0,5</sub>	X <sub>1,0</sub>	V <sub>k</sub>
23	305 x 165	530	32	33	16.1	9.7	4.8	7.5
		690	40	55	21.0	12.6	6.3	9.7
		880	48	90	26.8	16.1	8.0	12.4
26	610 x 165	930	32	26	20.3	12.2	6.1	6.7
		1200	40	44	26.2	15.7	7.9	8.7
		1550	48	48	>30	20.3	10.2	11.2
36	610 x 267	1390	32	23	20.2	12.1	6.1	6.3
		1790	40	38	26.0	15.6	7.8	8.1
		2310	48	64	>30	20.1	10.1	10.5
312	1219 x 267	2490	32	19	25.7	15.4	7.7	5.7
		3210	40	31	>30	19.9	9.9	7.4
		4140	48	52	>30	25.6	12.8	9.5
410	1067 x 380	2990	32	18	22.4	13.4	6.7	5.5
		3860	40	29	28.9	17.3	8.7	7.1
		4980	48	49	>30	22.3	11.2	9.2



#### LEGEND

Q (m³/h): Air flow.  
 L<sub>WA</sub> [dB(A)]: Sound power level.  
 ΔP<sub>t</sub> (Pa): Total pressure loss.  
 X<sub>0,3</sub>-X<sub>0,5</sub>-X<sub>1,0</sub> (m): Throw for terminal velocity of the air stream of 0.3, 0.5, and 1.0 m/s, respectively, in isothermal conditions (ΔT = 0° C).  
 V<sub>k</sub> (m/s): Effective velocity.