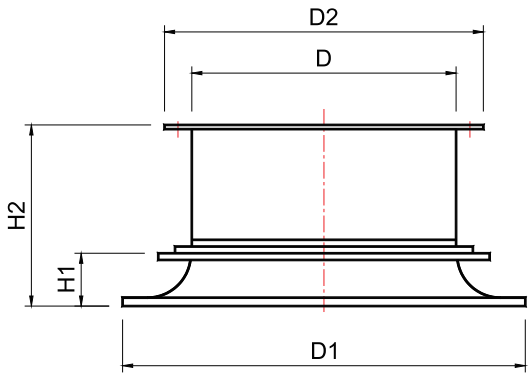
VARIABLE SWIRL DIFFUSER

FEATURES

MODEL: SW-V

- KYODO series SW-V variable swirl diffusers are applicable for spaces with a height of more than 3.8m, such as airport, theatre, stadium, hall, assembly rooms and etc.
- SW-V variable swirl diffuser adopts hydrokinetics principle for the design of its blade, by which the blade pushes the current by means of swirl with a certain initial velocity to achieve a larger throw distance, bigger space covered by a jet, and more efficient convection current effect.
- The blade can be changed its quadrant angle to adapt to different conditions by blowing rotating current of horizontal, slant and vertical directions.
- Constructed of aluminium and steel sheet metal.



FINISH

Standard finish in baked white enamel.
Other colours are available on request.

Condition A:

The blade could be adjusted to refrigeration mode to adapt to summer conditions. Cold air blows out by means of diffusing swirls to facilitate air convection.

Condition B:

The blade could be adjusted to normal temperature mode to adapt to the fresh wind conditions in spring and autumn to supply fresh wind into the indoors in large scale.

Condition C:

The blade could be adjusted to warming mode to adapt to winter condition. Warm jets are amassed vertical y to be supplied to areas where there are human activities.

DIMENSIONS (mm)

SIZE	D	D1	D2	H1	H2
315	Φ315	Φ465	Φ380	63	205
400	Φ400	Φ575	Φ465	80	240
630	Φ630	Φ870	Φ708	125	385
800	Φ800	Φ1075	Φ870	160	570

TECHNICAL PERFORMANCE DATA

MODEL: SW-V

(Condition C):

Φ315	Air Volume CMH	560	840	1120	1400	1680
	Throw (m)	3.0	5.5	7.5	9.0	11.3
	S.P. (Pa)	8	17	30	48	72
	NC	36	46	52	58	62
Φ400	Air Volume CMH	900	1360	1810	2260	2715
	Throw (m)	4.0	5.6	7.8	10.0	13.0
	S.P. (Pa)	8	16	28	45	68
	NC	35	47	52	56	61
Φ630	Air Volume CMH	2245	3365	4490	5610	6730
	Throw (m)	5.0	8.5	11.5	13.5	15.0
	S.P. (Pa)	6	14	24	38	55
	NC	36	48	53	57	62
Φ800	Air Volume CMH	3620	5430	7240	9050	10860
	Throw (m)	11.0	19.0	22.0	24.0	25.0
	S.P. (Pa)	8	18	32	47	70
	NC	35	48	54	58	62

Performance data are tested with blades fully open, which provides maximum vertical throw.

- NC - Based on room absorption of 10dB, re 10^{-12} watts.
- SP - Static Pressure drops are in Pascals.
- Throw -Throw at 0.5m/s terminal velocity in metres.

(Condition A):

Φ315	Air Volume CMH		560	840	1120	1400	1680
	Throw (m)	H	1.2	1.5	1.6	1.8	2.0
		V	0.4	0.9	1.3	2.7	3.3
	S.P. (Pa)		15	33	58	92	130
	NC		38	49	55	60	65
Φ400	Air Volume CMH		900	1360	1810	2260	2715
	Throw (m)	H	1.8	2.8	3.2	3.5	3.6
		V	0.5	0.8	1.0	1.5	3.4
	S.P. (Pa)		15	35	59	92	135
	NC		36	48	53	58	63
Φ630	Air Volume CMH		2245	3365	4490	5610	6730
	Throw (m)	H	2.5	3.0	4.8	6.0	8.0
		V	0.5	0.6	1.2	2.0	5.0
	S.P. (Pa)		16	36	60	100	145
	NC		39	50	56	60	66
Φ800	Air Volume CMH		3620	5430	7240	9050	10860
	Throw (m)	H	5.0	7.4	9.4	13.0	14.5
		V	0.8	1.0	2.1	3.6	4.9
	S.P. (Pa)		15	34	60	93	135
	NC		38	50	57	61	66

- NC - Based on room absorption of 10dB, re 10^{-12} watts.
- SP - Static Pressure drops are in Pascals.
- Throw -Throw at 0.5m/s terminal velocity in metres.

H - Horizontal
V - Vertical