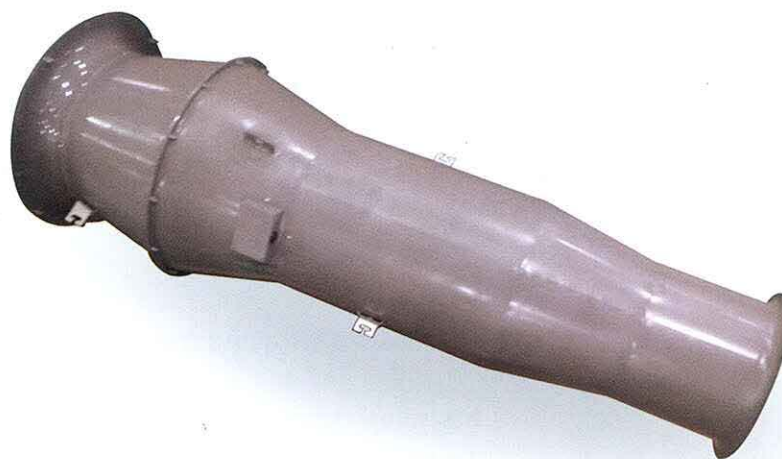


Fine Factory Fan : Solution for Hot Environment

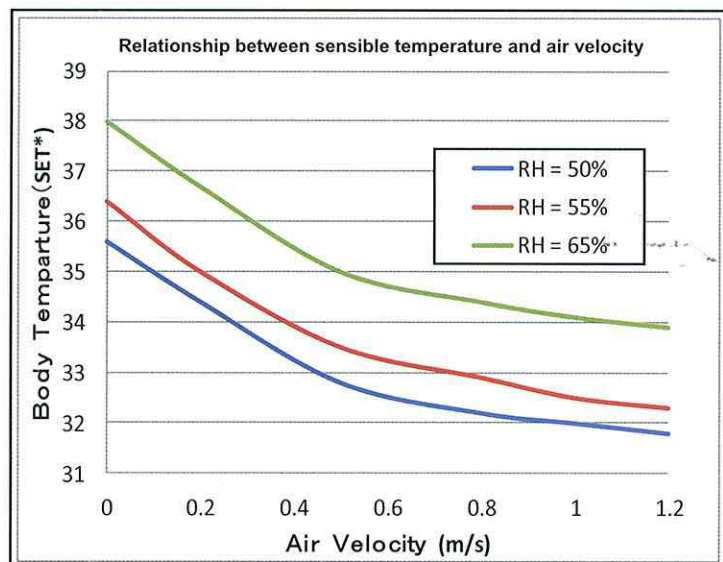


Features

- **Air Velocity Distribution to Long Distance (up to 30 m. at 1 m/s)**
Efficiently bring in external air and distribute fresh air to the target area and lower body felt temperature.
- **Energy Saving**
Without air conditioner usage, it reduces body felt and factory temperature gap by air velocity.
- **Low noise**

The concept of this product is to reduce the Body Temperature (Sensible Temperature) by air velocity.

According to ASHRAE, it explains the Standard Effective Temperature (SET) from temperature, humidity, workload and amount of clothes. The graph and table below show the relationship between Sensible Temperature and Air Velocity at 50-60% of humidity

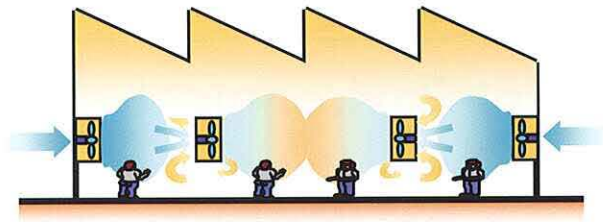


Air Velocity m/s	Room temperature = 35 °C		
	RH = 50%	RH = 55%	RH = 65%
0.0	35.6	36.4	38.0
0.2	34.4	35.0	36.7
0.5	32.8	33.5	35.0
0.8	32.2	32.9	34.4
1.0	32.0	32.5	34.1
1.2	31.8	32.3	33.9

Calculation condition :
 Quantity of Cloth (CLO = 0.7)
 Work load (MET = 1.0)
 Relative humidity (RH = 55%, 65%)
 Mean Radiant Temperature
 (MRT = Room temperature)

Application Sample

1. Large sized area : Difficult for external air distribution to middle area

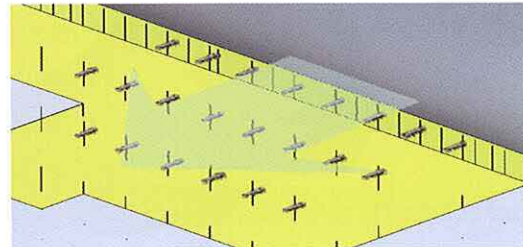
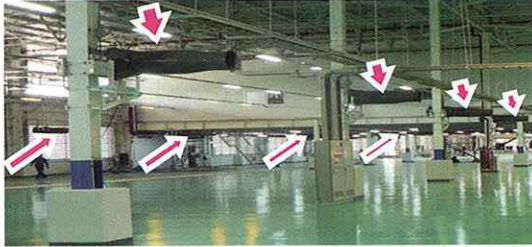


Installed Sample

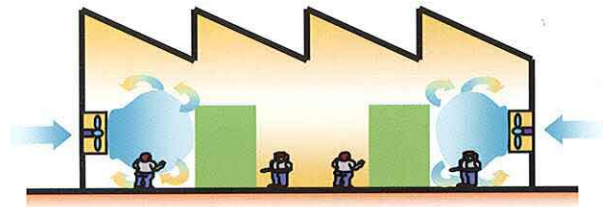
One-direction flow pattern for all internal factory area.

Result

Air flows all over the factory, no still air.



2. Obstacle from machines : Difficult for air to flow due to obstructed machines.



Installed Sample

Air distribution to no wind area

Result

Bring in new fresh air to solve still air problem from obstacle from machine.



3. Heat load : Lot of heat inside the factory.



Installed Sample

Heat solution by package of Cooling Pad + Fine Factory Fan + Ventilating Fan.

Result

Create comfortable energy-saving in hot area.



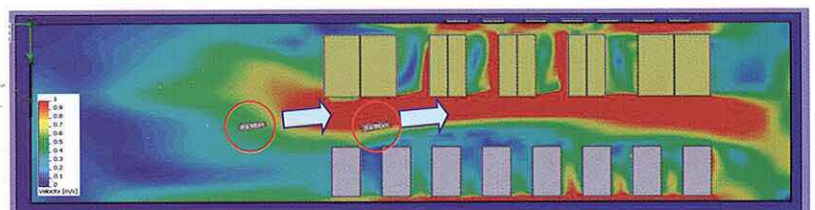
Cooling Pad



Ventilating Fan



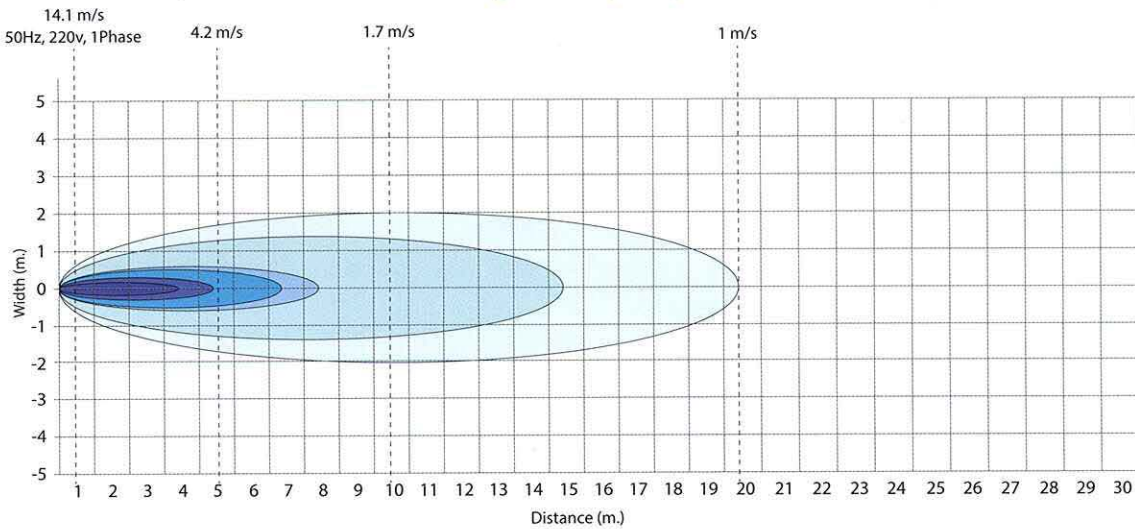
Fine Factory Fan



Installation based on air flow simulation

Model : FY-45DSL-SP

- Unique nozzle for long distance air distribution
- Narrow distribution, able to distribute strong wind by long distance



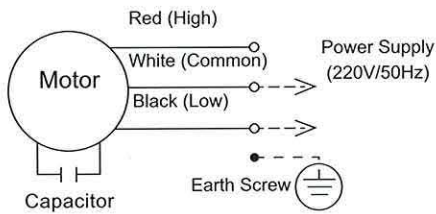
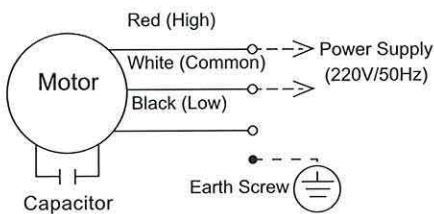
Remark :
The diameter of
air velocity at
1 m/s is 4 m.

Longitudinal Coverage (m.)														Attainment velocity of the wind (m/s)	Velocity of Wind	
20	17	15	12	10	9	8	7	6	5	4	3	2	1			
1	1.2	1.3	1.5	1.7	1.85	2.1	3	3.25	4.2	5.45	6.55	8.28	14.1			
	1.51	1.62	2.06	1.86	1.78	1.76	1.72	1.53	1.39	1.21	0.92	0.73	0.47	Velocity of the wind diffusion radius	1 m/s or more	
			0.54	1.02	1.15	1.16	1.3	1.27	1.2	0.96	0.76	0.59	0.37		2 m/s or more	
							0.42	0.61	0.65	0.67	0.41	0.39	0.3		3 m/s or more	
								0.12	0.26	0.44	0.5	0.44	0.32		4 m/s or more	
										0.18	0.36	0.34	0.29		5 m/s or more	
											0.29	0.27	0.26		6 m/s or more	

Wiring Diagram

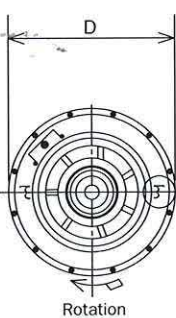
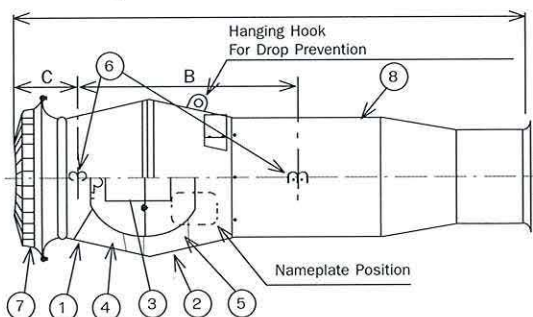
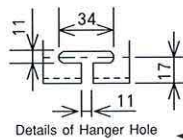
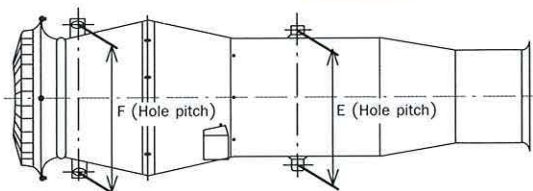
Speed : Hi

Speed : Low



Dimension

Top View



Side View

Front View

Specification

Model		FY-45DSL-SP
Installation Place		Indoor
Electricity Supply		220/1/50
Air Volume		4,653 m ³ /h
Input		523 W
Current		2.38 A
Max. distance at 1m/s		20 m.
Weight		51 kg.
Noise Value	Side	62 dB(A)
	Intake Side	68 dB(A)
	Exhaust Side	68 dB(A)

Dimension

Unit : mm.

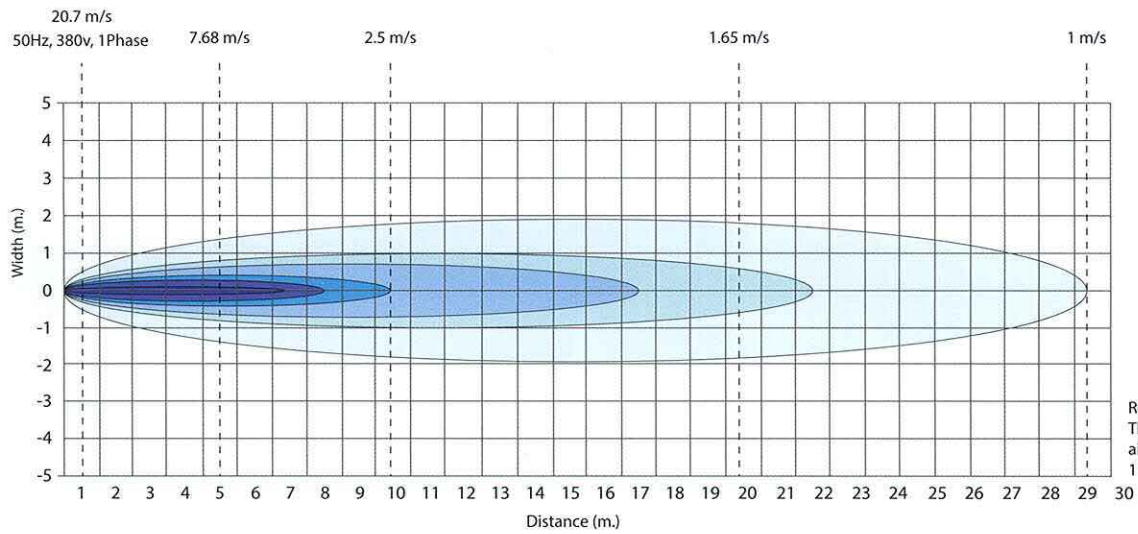
Model	A	B	C	D	E	F
FY-45DSL-SP	1766	630	351	542	467	520

List of Part Name

- | | |
|------------|-------------------|
| ① Casing A | ⑤ Guide Vane |
| ② Casing B | ⑥ Hanger Fittings |
| ③ Motor | ⑦ Guard |
| ④ Fan | ⑧ Duct |

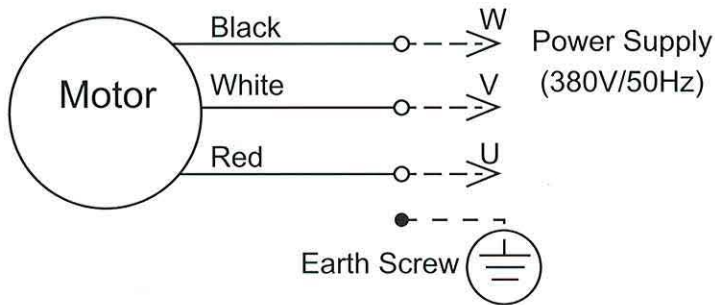
Model : FY-55DTH-SP

- Unique nozzle for long distance air distribution
- Narrow distribution, able to distribute strong wind by long distance



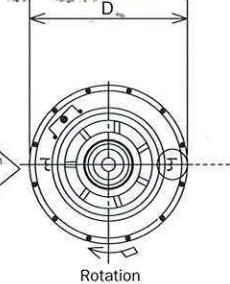
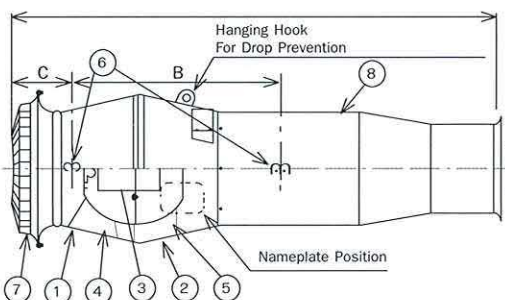
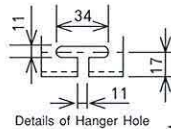
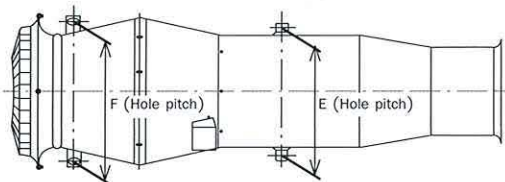
Longitudinal Coverage (m.)																Attainment velocity of the wind (m/s)	Velocity of Wind
30	25	22	20	17	15	12	10	9	8	7	6	5	4	3	2	1	
1	1.42	1.53	1.65	1.84	2.15	2.32	2.53	3.21	4.78	5.76	6.22	7.68	10.6	12.5	16.6	20.7	Central Portion Velocity of Wind
0.5	1.5	1.65	1.84	1.83	1.8	1.52	1.39	1.34	1.31	1.17	1.06	0.96	0.8	0.64	0.48	0.37	
			0.74	0.75	0.82	0.85	0.91	0.93	1.01	1.02	0.86	0.8	0.76	0.62	0.45	0.35	
					0.54	0.65	0.69	0.73	0.74	0.84	0.72	0.68	0.64	0.6	0.42	0.34	
								0.4	0.46	0.49	0.52	0.51	0.5	0.49	0.4	0.29	
									0.31	0.34	0.36	0.38	0.42	0.38	0.24	0.22	
										0.16	0.26	0.31	0.39	0.24	0.22		

Wiring Diagram



Dimension

Top View



Side View

Front View

Specification

Model	FY-55DTH-SP	
Installation Place	Indoor	
Electricity Supply	380/3/50	
Air Volume	8,100 m ³ /h	
Input	1240 W	
Current	3.05 A	
Max. distance at 1m/s	30 m.	
Weight	68 kg.	
Noise Value	Side	69 dB(A)
	Intake Side	78 dB(A)
	Exhaust Side	78 dB(A)

Dimension

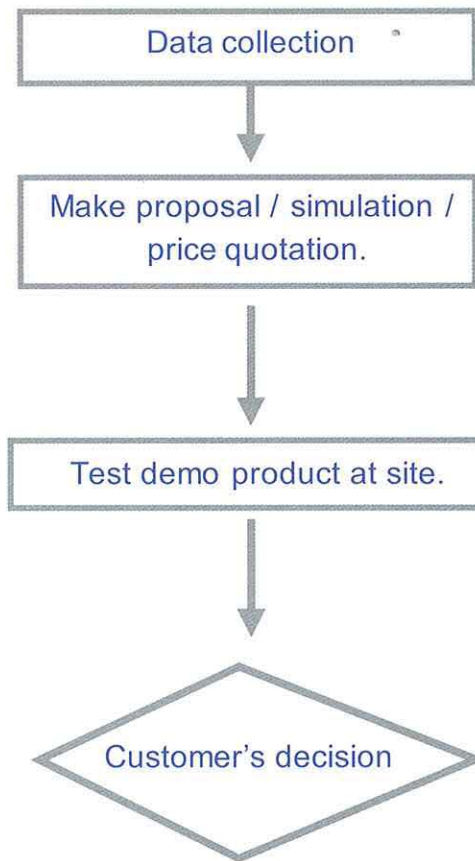
Unit : mm.

Model	A	B	C	D	E	F
FY-55DTH-SP	1951	830	246	631	515	563

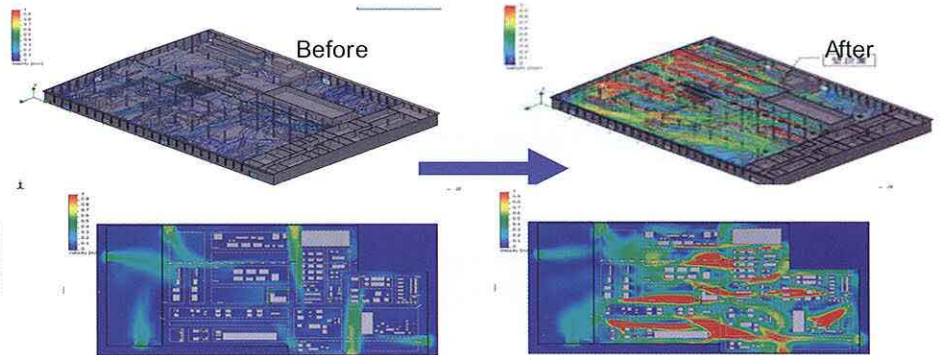
List of Part Name

- | | |
|------------|-------------------|
| ① Casing A | ⑤ Guide Vane |
| ② Casing B | ⑥ Hanger Fittings |
| ③ Motor | ⑦ Guard |
| ④ Fan | ⑧ Duct |

Process of Product Selection



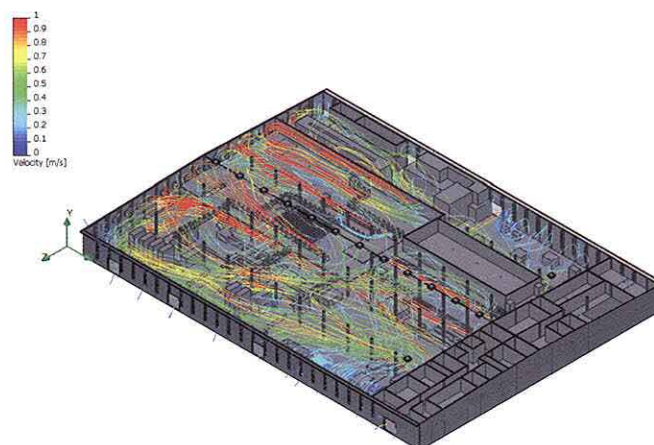
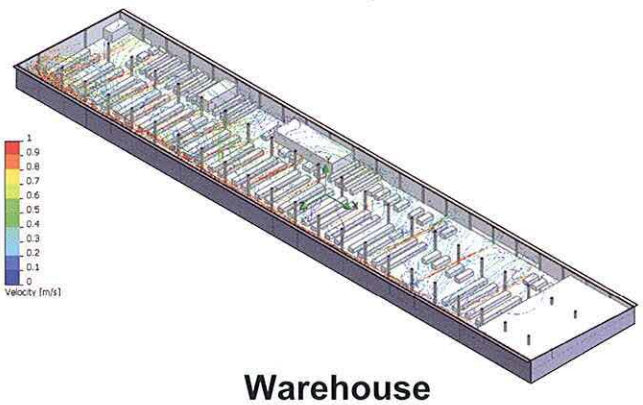
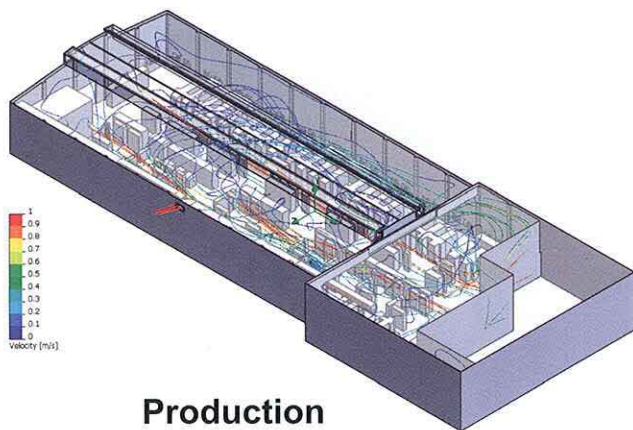
- Check layout of building and specific area. Then, identify installed area and installation points with customer.
- Make proposal, simulation based on data from customer together with price quotation.



- Install demo kit at site.



Simulation Samples



Production with Many Hot Machines

SALES CONTACT



www.airmax-hvac.com



080-614-4944, 063-268-8080



@airmax (Line Official)



windcontrol.info@gmail.com



Address

เลขที่ 56/392 หมู่ที่ 12
ตำบลศีรษะจรเข้น้อย
อำเภอบางเสาธง
จังหวัดสมุทรปราการ
10540

