Panasonic

Air Curtain

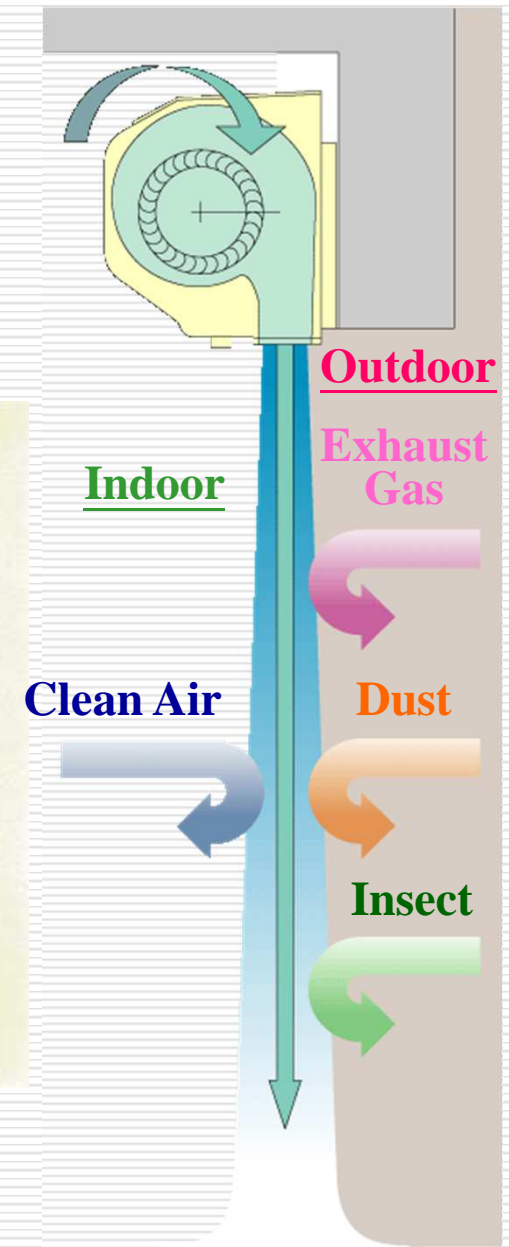FY-10ESPNAH   FY-10ELPNAH

FY-14ESPNAH   FY-14ELPNAH

The Invisible Door

Effects of Air Curtain

Heating/Cooling Retention

Retains heated or cooled air within the store space allowing minimum temperature fluctuation as the doors are opened

Outdoor

Indoor

Exhaust Gas

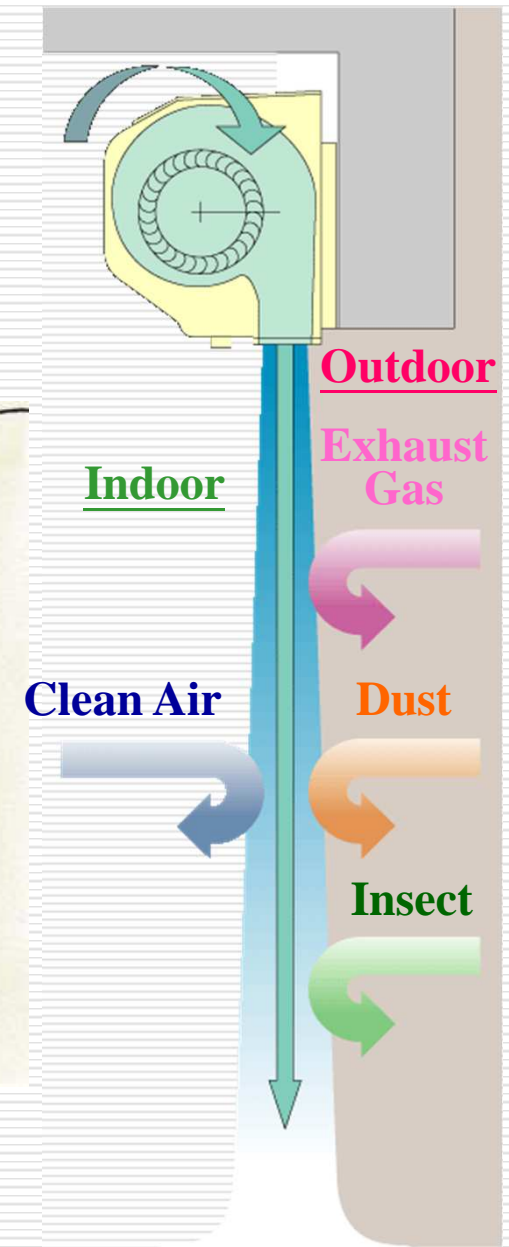**Clean Air**

Dust

Insect

Effects of Air Curtain

Deodorizing

Prevents odors from special function rooms, such as vegetable preparation rooms, and automobile exhaust fumes from outside

Outdoor

Indoor

Exhaust Gas

Clean Air
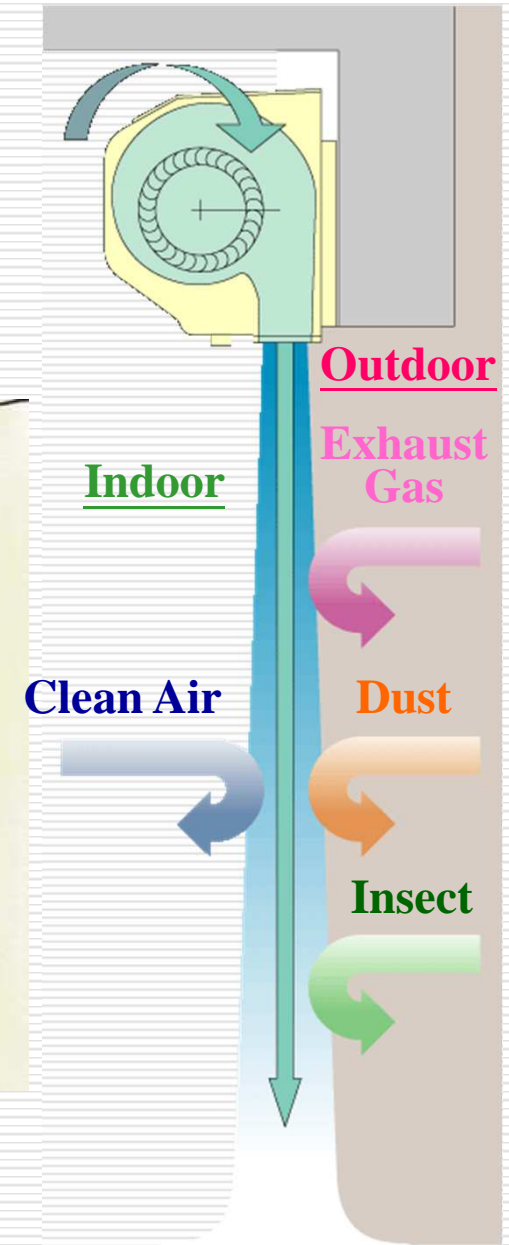
Dust

Insect

Effects of Air Curtain

Insect Proof

Checks out annoying, harmful and germ-laden insects to keep the required health and sanitation standards

Outdoor

Indoor
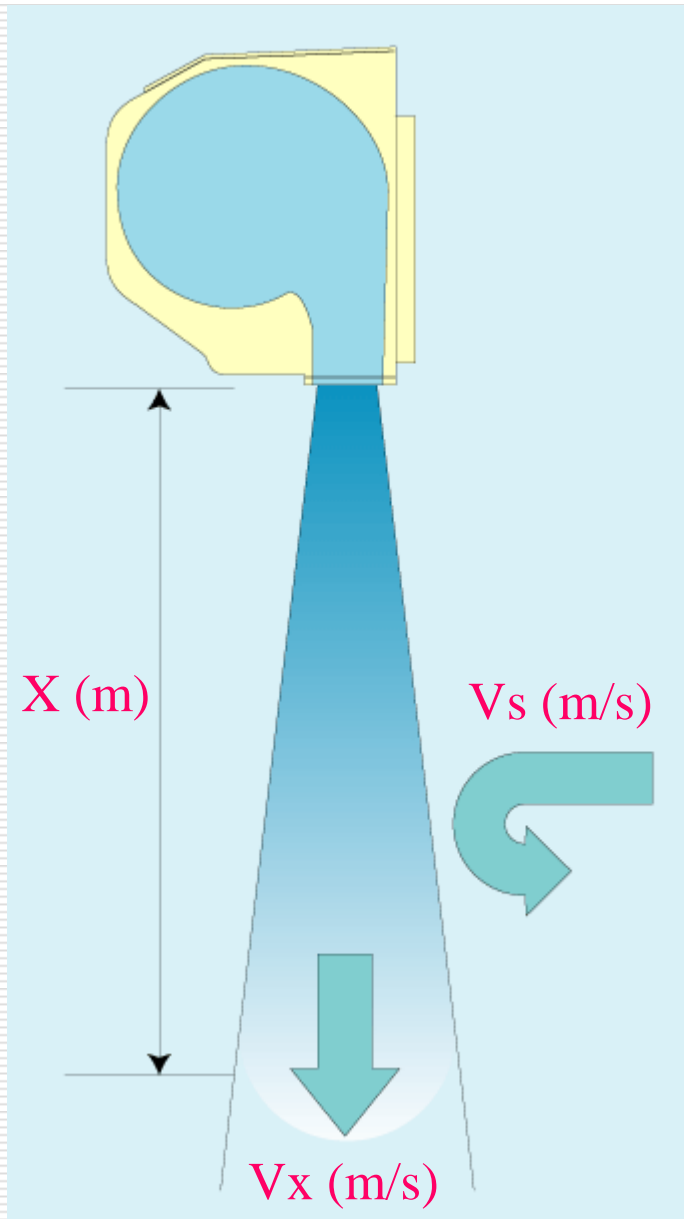
Exhaust Gas

Clean Air

Dust

Insect

Effects of Air Curtain

Dust Proof

Screens out dirt and dust from outside street that maintains a clean environment for food or clothing stores

Indoor

Outdoor

Exhaust Gas

Clean Air

Dust

Insect
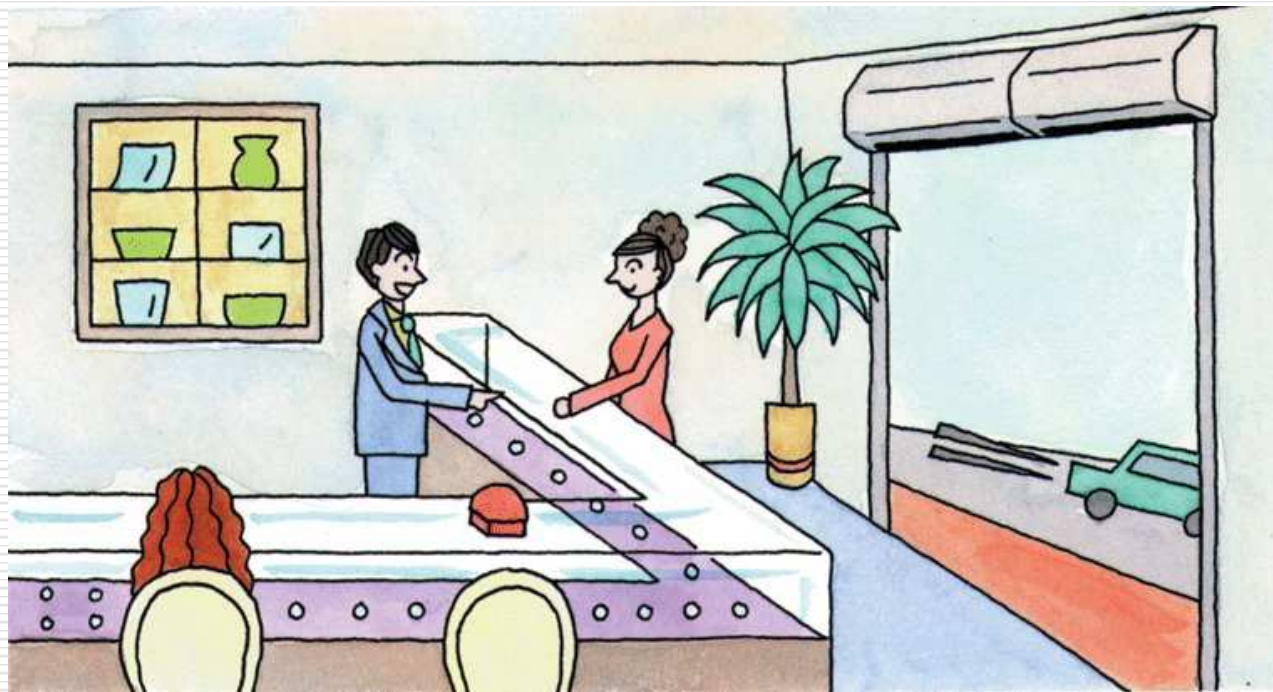
Why Air Velocity is Important?

X (m)

Vs (m/s)

Vx (m/s)

Shut-out ability of an air curtain is determined by the air velocity at the center of its airflow.

The powerful discharge of Panasonic Air Curtain enables high air velocity for the efficient distance, resulting in the superior shut-out ability.
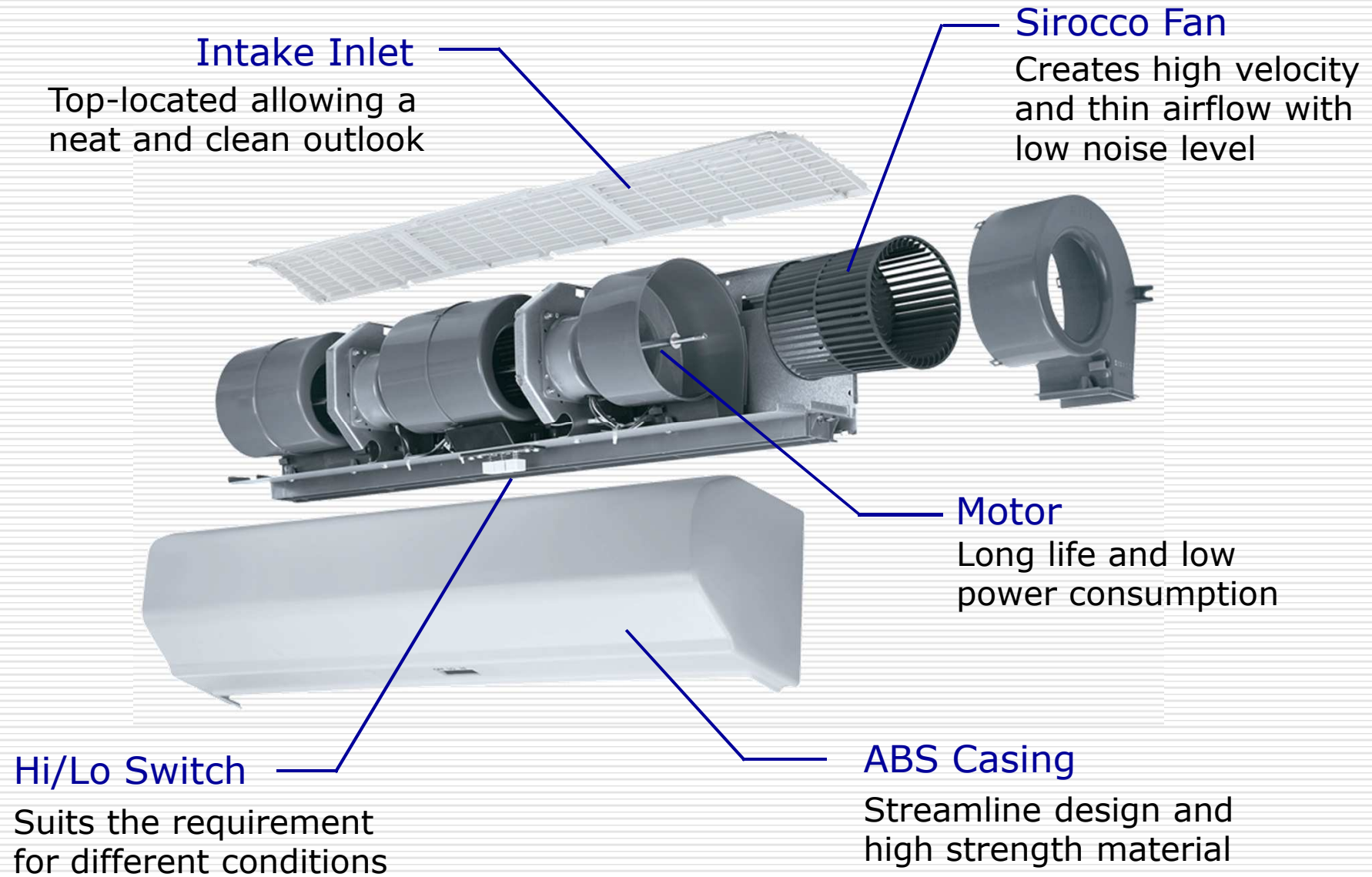
$$Vs = A \times V_x$$

Vs: Shut-out penetrating velocity (m/s)

V_x: Central Air velocity (m/s) at

distance X (m) from air outlet

A : Constant

Product Structure

Intake Inlet
Top-located allowing a
neat and clean outlook

Sirocco Fan
Creates high velocity
and thin airflow with
low noise level

Motor
Long life and low
power consumption

Hi/Lo Switch
Suits the requirement
for different conditions

ABS Casing
Streamline design and
high strength material

Mounting
Plate
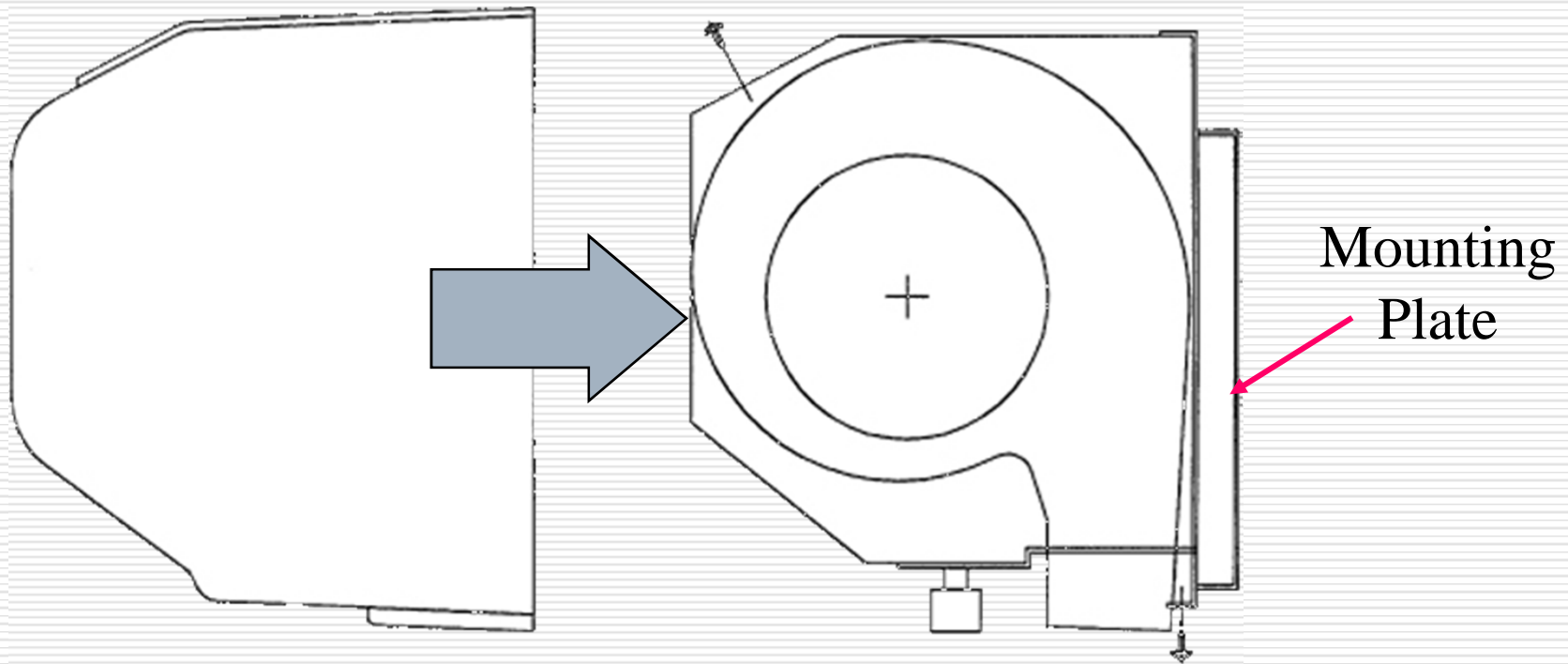
The single-molded casing can be pulled forward by simply
loosening the top and bottom fixing bolts, for quick and
easy inspection of the inner fan and motor.

Specification for 50Hz

Model No.	Length (mm)	INPUT (W)		OUTPUT (W)	OUTLET VELOCITY (m/s)		AIR VOLUME (M³/h)		NOISE dB(A)		Weight (kg)
		High	Low		High	Low	High	Low	High	Low	
10ESP NAH	900	72	62	45	13.0	11.1	750	630	46	42	12
10ELP NAH	1200	96	74	60	13.1	11.0	1000	830	46	42	14
14ESP NAH	900	257	218	135	21.9	19.1	1340	1168	62	59	13
14ELP NAH	1200	333	290	180	22.5	20.1	1867	1668	63	61	15

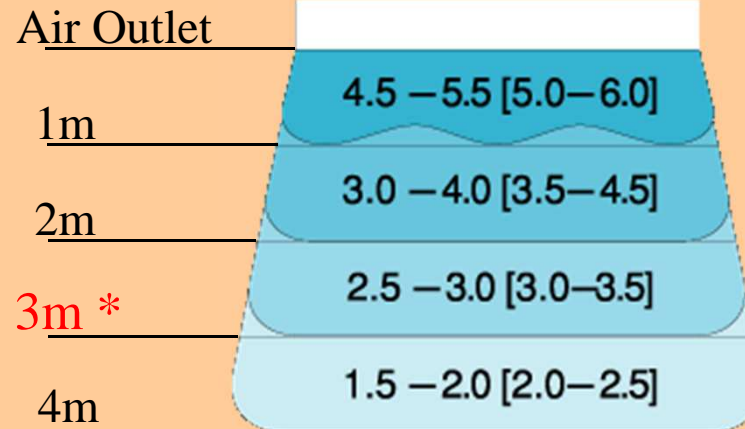**2 different types of motors**
FY-08ESNXX 1pcs 10W, 1pcs 20W
FY-10ESNXX 1pcs 15W, 1pcs 30W
FY-12ESNXX 1pcs 35W, 1pcs 70W
FY-14ESNXX 1pcs 45W, 1pcs 90W

Same types of motors
FY-08ELNXX 2pcs 20W
FY-10ELNXX 2pcs 30W
FY-12ELNXX 2pcs 70W
FY-14ELNXX 2pcs 90W

Air Velocity Chart

FY-10ESPNAH / FY-10ELPNAH

Air Outlet

1m

      4.5 − 5.5 [5.0 − 6.0]

2m

      3.0 − 4.0 [3.5 − 4.5]

3m *

      2.5 − 3.0 [3.0 − 3.5]

4m

      1.5 − 2.0 [2.0 − 2.5]

* Efficient Distance

Unit : m/s　50Hz [60Hz]

FY-14ESPNAH / FY-14ELPNAH

Air Outlet

1m

      7.5 − 8.5 [7.5 − 8.5]

2m

      5.5 − 6.5 [5.5 − 6.5]

3m

      4.5 − 5.5 [4.5 − 5.5]

4m *

      3.5 − 4.0 [3.5 − 4.0]

5m

      3.0 − 3.5 [3.0 − 3.5]