

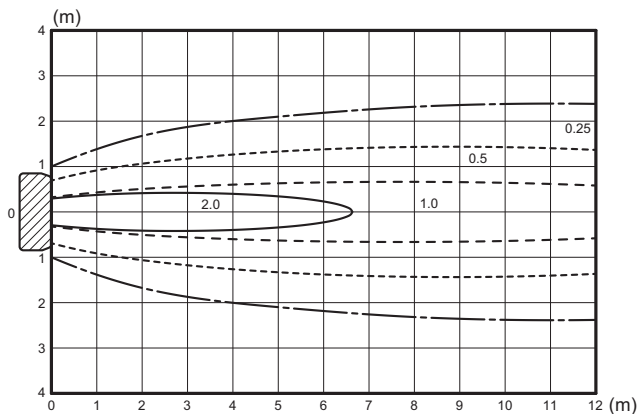
# 5. Fan performance

## 5-1. Air velocity and temperature distributions

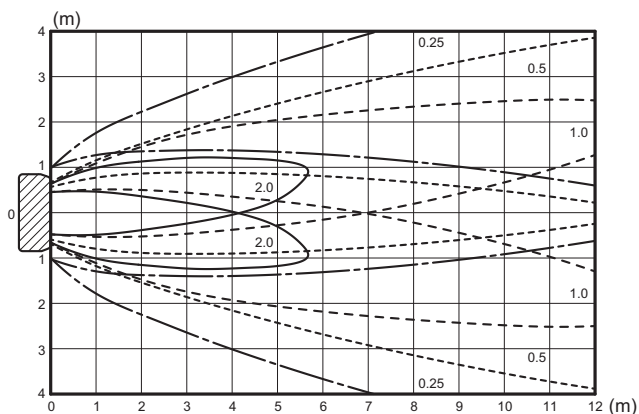
### Model: ABYG54KRTA

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

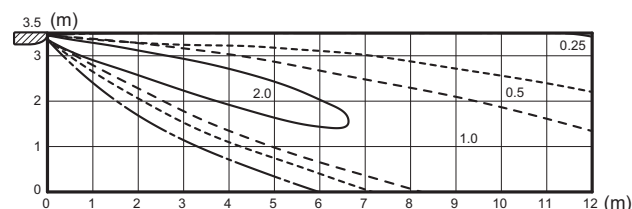
Top view  
Vertical airflow direction louver: Up  
Horizontal airflow direction louver: Center



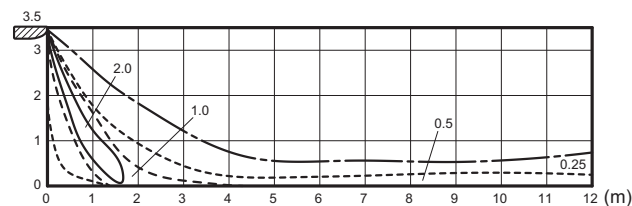
Top view  
Vertical airflow direction louver: Up  
Horizontal airflow direction louver: Left & Right



Side view  
Vertical airflow direction louver: Up  
Horizontal airflow direction louver: Center



Side view  
Vertical airflow direction louver: Down  
Horizontal airflow direction louver: Center



## 5-2. Airflow

Conversion factor:

- $1 \text{ m}^3/\text{h} = 0.2778 \text{ l/s} = 0.5886 \text{ CFM}$
- $3.6 \text{ m}^3/\text{h} = 1 \text{ l/s}$
- $1.699 \text{ m}^3/\text{h} = 1 \text{ CFM}$

### ■ Model: ABYG54KRTA

#### ● Cooling

Fan speed	Airflow	
HIGH	$\text{m}^3/\text{h}$	2,100
	$\text{l/s}$	583
	CFM	1,236
MED	$\text{m}^3/\text{h}$	1,700
	$\text{l/s}$	472
	CFM	1,001
LOW	$\text{m}^3/\text{h}$	1,500
	$\text{l/s}$	417
	CFM	883
QUIET	$\text{m}^3/\text{h}$	1,220
	$\text{l/s}$	339
	CFM	718

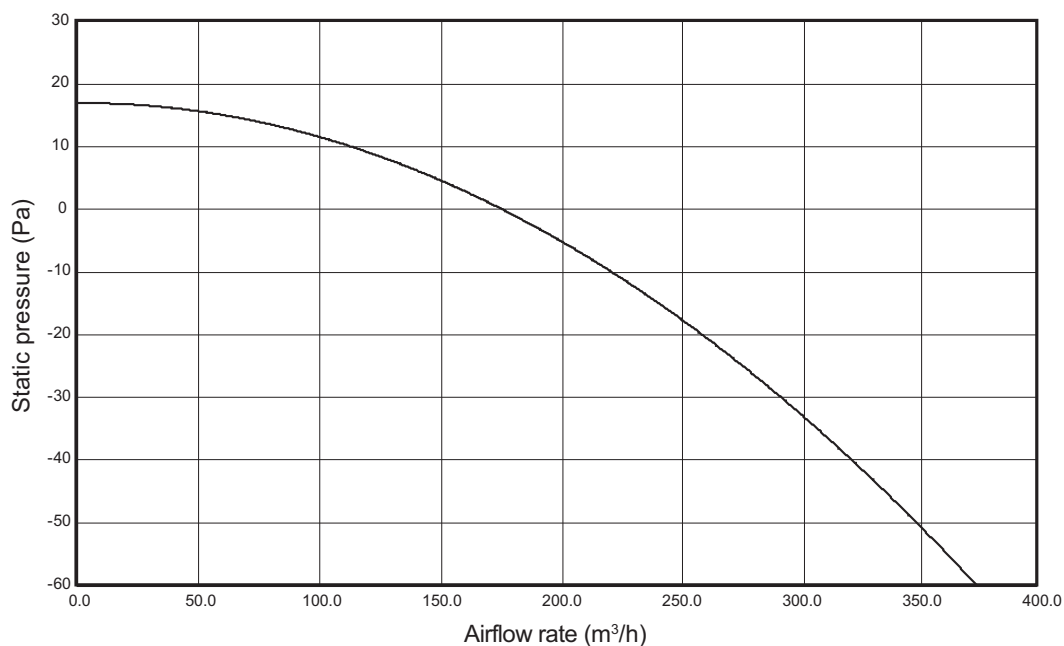
#### ● Heating

Fan speed	Airflow	
HIGH	$\text{m}^3/\text{h}$	2,100
	$\text{l/s}$	583
	CFM	1,236
MED	$\text{m}^3/\text{h}$	1,700
	$\text{l/s}$	472
	CFM	1,001
LOW	$\text{m}^3/\text{h}$	1,500
	$\text{l/s}$	417
	CFM	883
QUIET	$\text{m}^3/\text{h}$	1,220
	$\text{l/s}$	339
	CFM	718

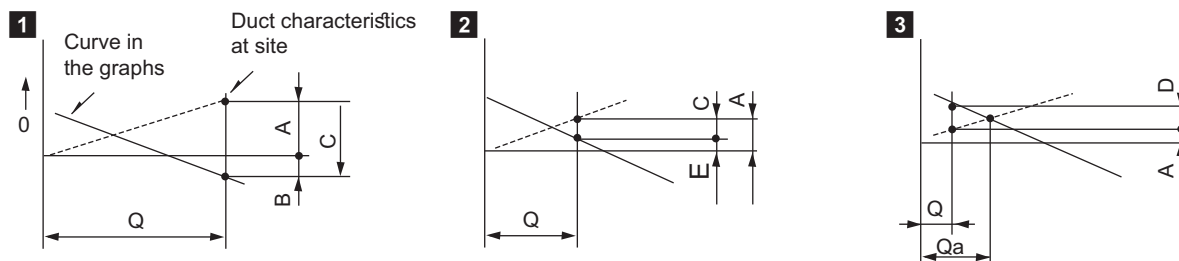
## 5-3. Fresh air characteristics

### ■ Airflow volume - Static pressure of Fresh air intake characteristics

#### ● Model: ABYG54KRTA

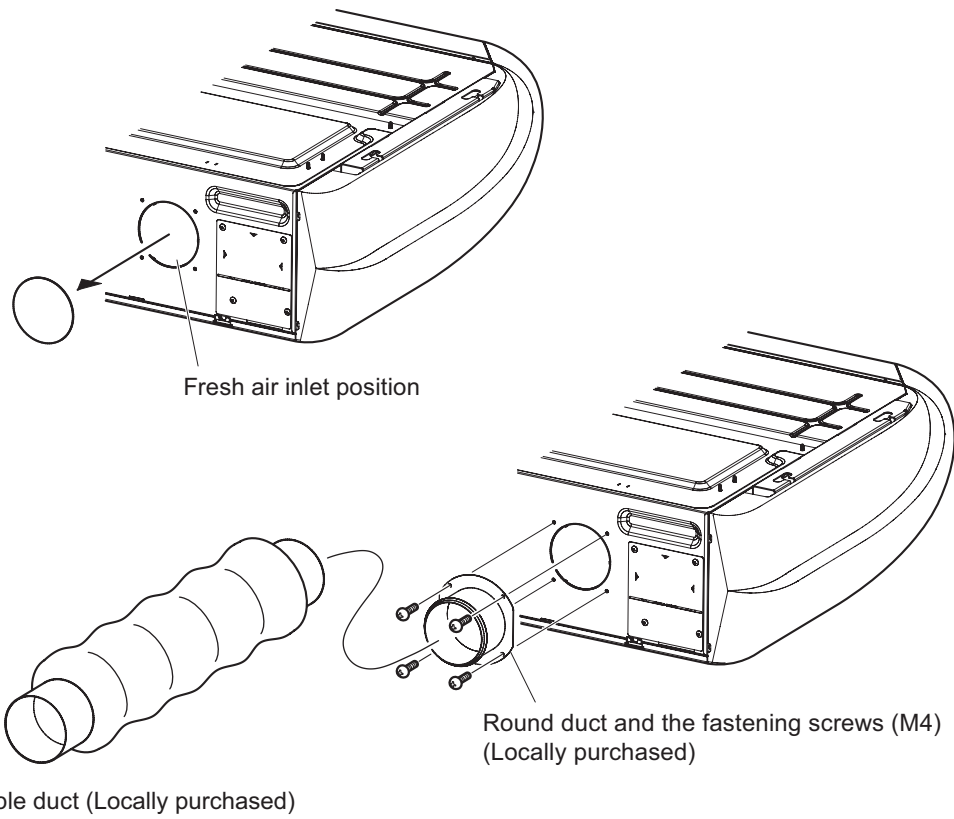


### ■ How to read curve



- Q: Designed amount of fresh air intake ( $\text{m}^3/\text{h}$ )
- A: Static pressure loss of fresh air intake duct system with airflow amount Q (Pa)
- B: Forced static pressure at air conditioner inlet with airflow amount Q (Pa)
- C: Static pressure of booster fan with airflow amount Q (Pa)
- D: Static pressure loss increase amount of fresh air intake duct system for airflow amount Q (Pa)
- E: Static pressure of indoor unit with airflow amount Q (Pa)
- Qa: Estimated amount of fresh air intake without D ( $\text{m}^3/\text{h}$ )

## ■ Installation



**NOTE:** When taking in the fresh air, thermal insulation is required to avoid the product malfunction caused by dew condensation.