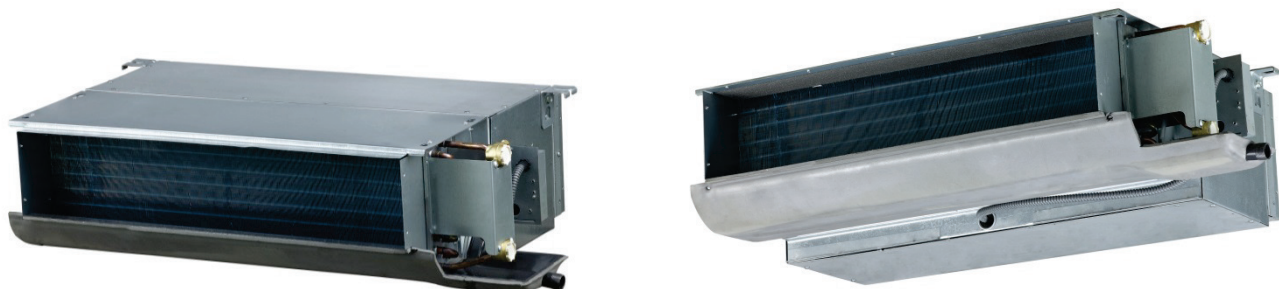


## 4. External Appearance



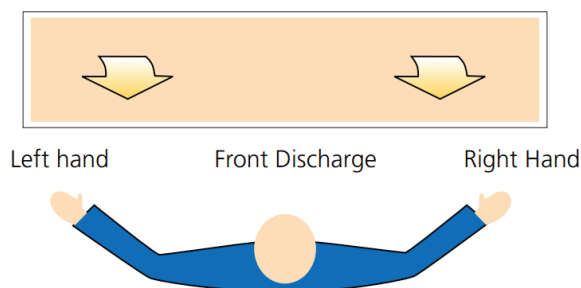
## 5. Features

◆ **Wide external static pressure supplying.**

For 2-row unit, two external static pressure (12Pa/30Pa) setting for added flexibility.

For 3-row and 4-row unit, 12Pa and 30Pa ESP are standard, 50 Pa can be customized.

◆ **Left or right hand piping connections, field convertible.**



◆ **Quiet operation.**

A patent design is able to prevent abnormal noise caused by blowing fins.

◆ **Superior air distribution**

As the conditioned air can be distributed to every corner of the area by air duct, this will ensure more pleasant living environment, thus provide extra comfort to the occupants.

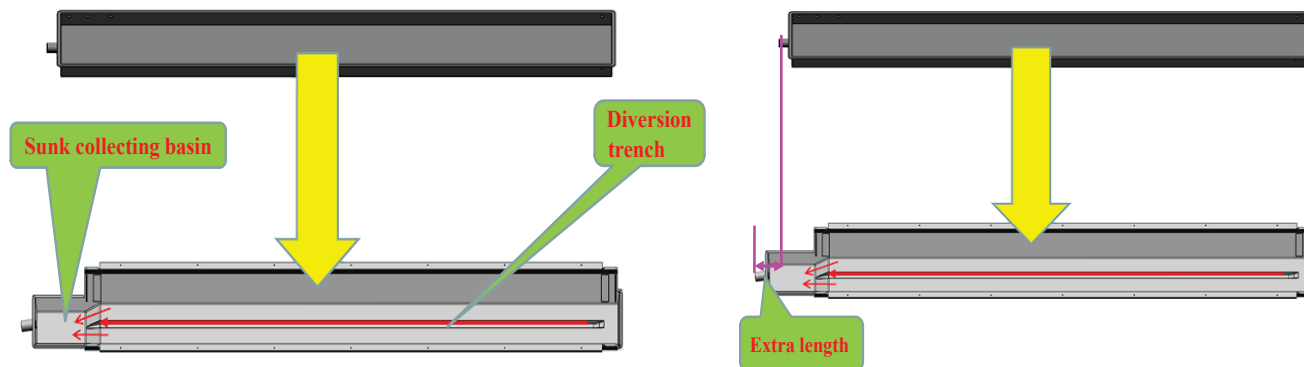
◆ **Fresh air supply makes life healthier and more comfortable**

◆ **Air return plenum**

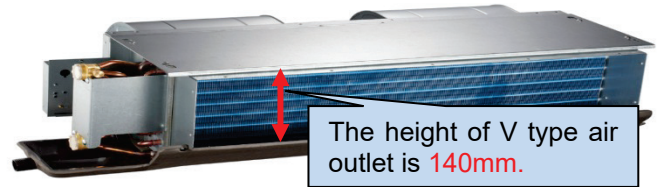
Units with air return plenum is standard and units without air return plenum can be customized.

◆ **V type drain pan**

Diversion trench and sunk collecting basin design making better drainage. Longer length of V type drain pan can better receive the drain ,water dripping from the water piping and valve connection.



The performance is improved for larger air outlet area.



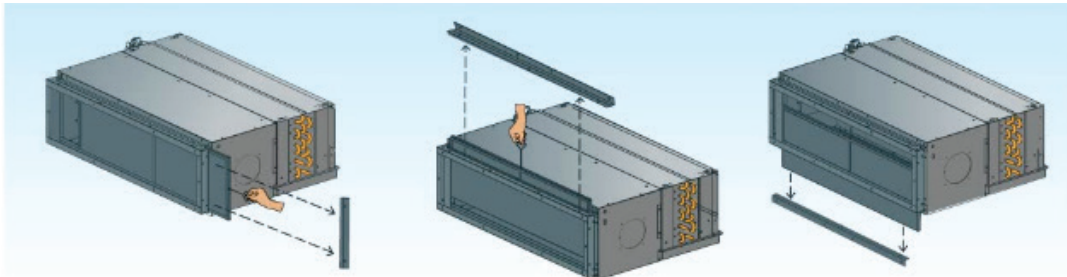
◆ **Electric heater**

Safe factory-installed electric heater is an option for unit.

◆ **Washable filter**

Iron frame filter is standard, and aluminum frame filter can be customized.

Air outlet flange and multi-direction pull-out filter can be customized.



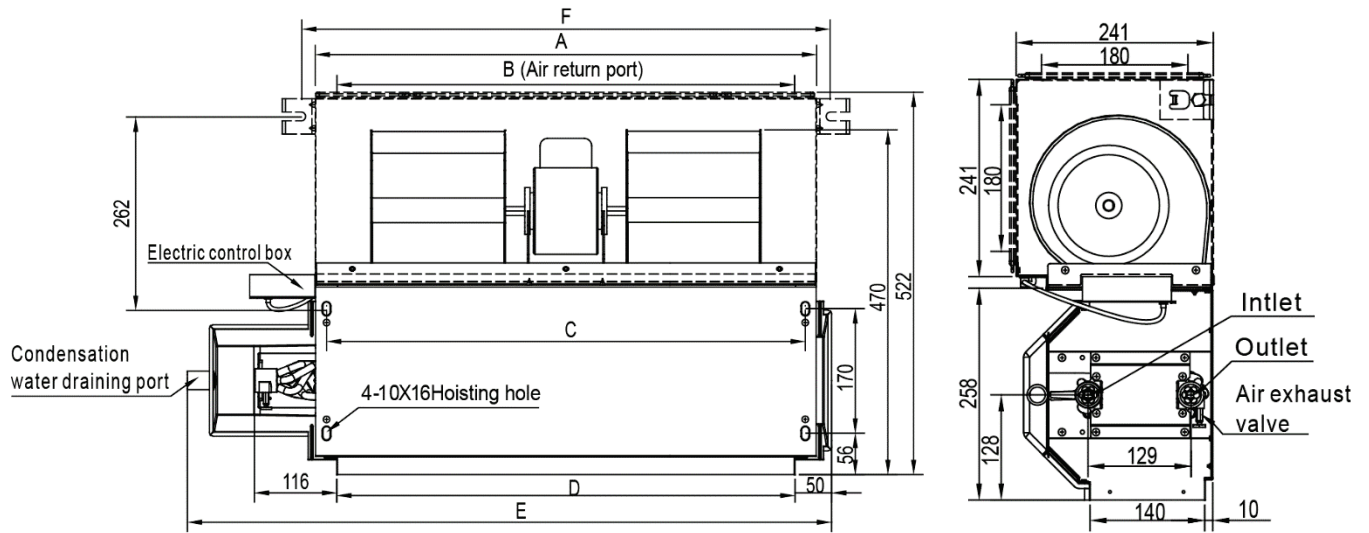
◆ **Optional wired controller**

Optional wired controller offers simple and flexibility in controlling the unit.

◆ **Wide application area**

220-240V/1Ph/50Hz power supply is standard and 208-230V/1Ph/60Hz can be customized.

### 7. Dimension

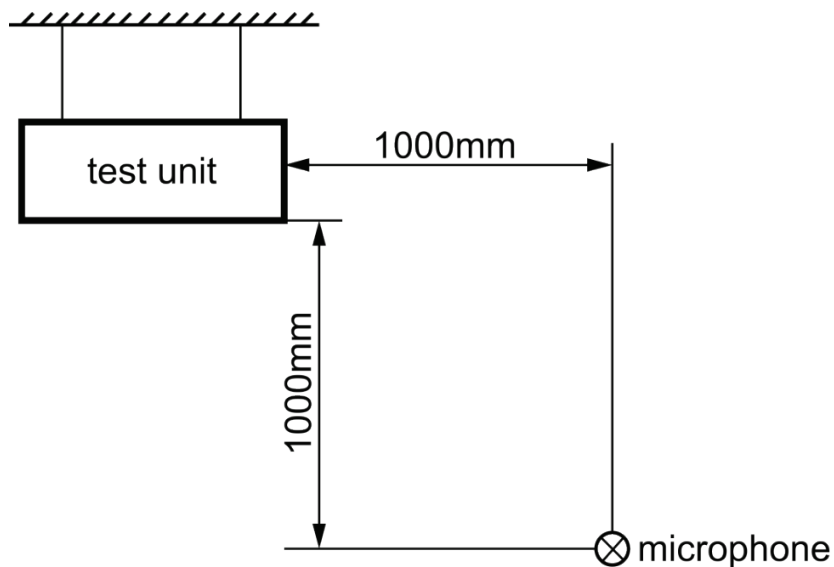


Model Size	200	300	400 500	600	800	1000	1200	1400
<b>A</b>	545	645	745	965	1265	1370	1660	1826
<b>B</b>	484	585	685	905	1205	1310	1600	1766
<b>C</b>	513	613	713	933	1233	1338	1628	1794
<b>D</b>	485	585	685	905	1205	1310	1600	1766
<b>E</b>	741	841	941	1161	1461	1566	1856	2022
<b>F</b>	583	683	783	1003	1303	1408	1698	1864

**Notes:**

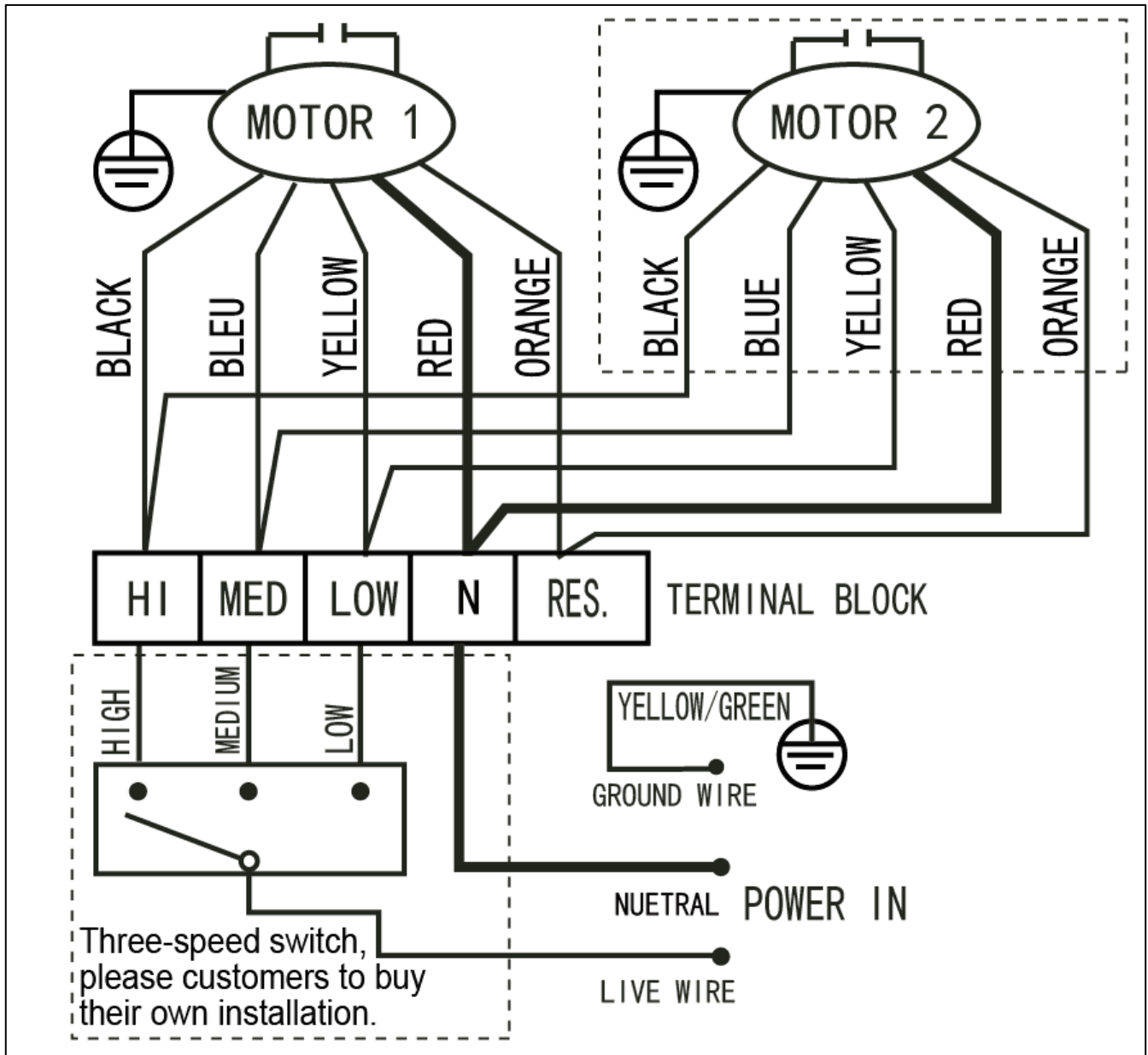
- The above figure is only an instance, which would be different from the one that you purchase.
- The dotted line in the figure is the dimension for air return plenum.
- Units with air return plenum is standard; units without air return plenum can be customized.

### 8. Sound Levels



## 9. Wiring Diagrams

2-row duct units without electric heater (reserved super high fan speed)



### Notes:

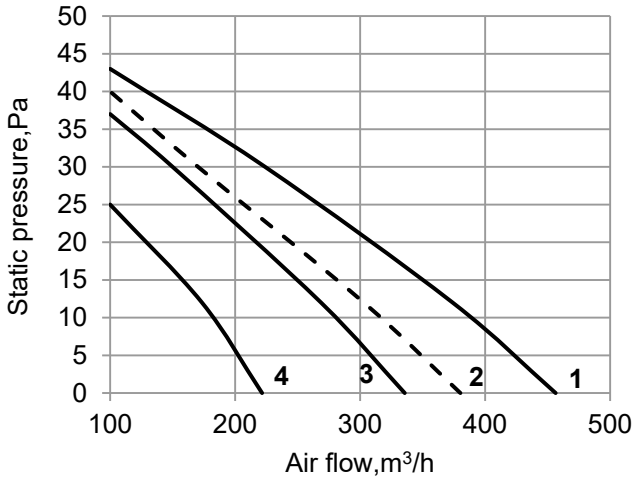
- Black: supper high fan speed; Orange: high fan speed; Blue: medium fan speed; Yellow: low fan speed.
- Terminal 5 connects with reserved speed.
- Please connect wires properly, or the motor would be burned-out.

### 11. Static Pressure Graphs

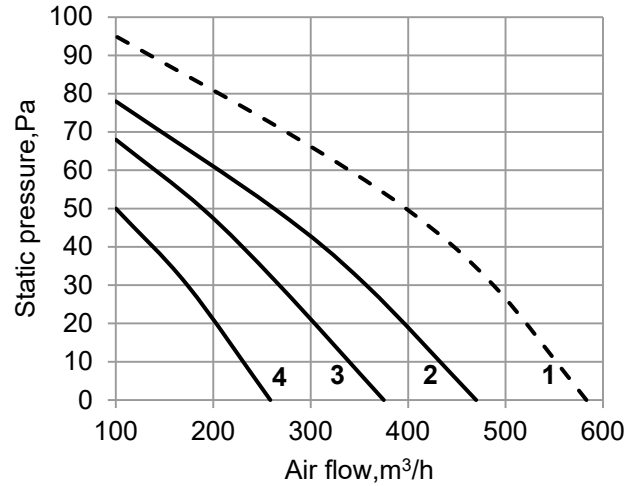
How to read the diagram:

- The vertical axis is the External Static Pressure (Pa) while the horizontal axis represents the Air Flow (m<sup>3</sup>/h).
- The fan performance curves are for the “1-Super High”, “2-High”, “3-Medium” and “4-Low” fan speed.
- The dotted line stands for reserved fan speed.

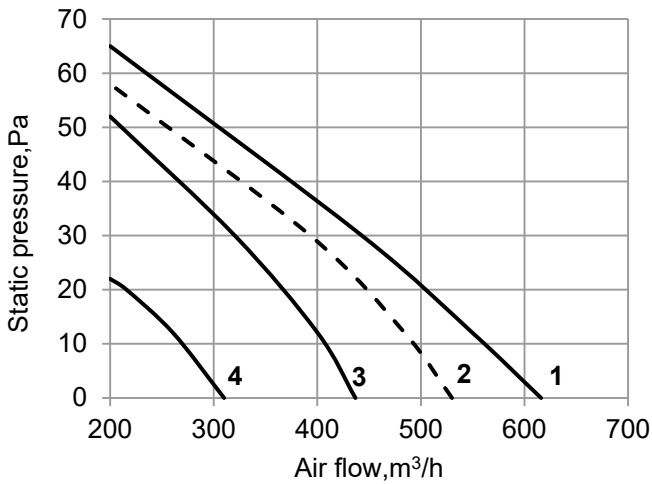
**MKT2-200G12**



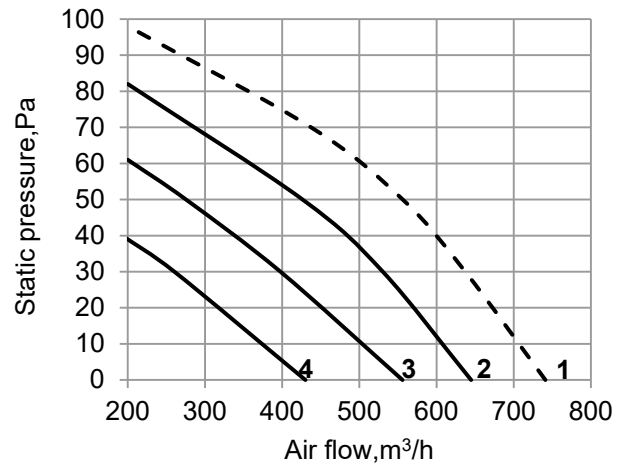
**MKT2-200G30 / MKT2-200EG30**



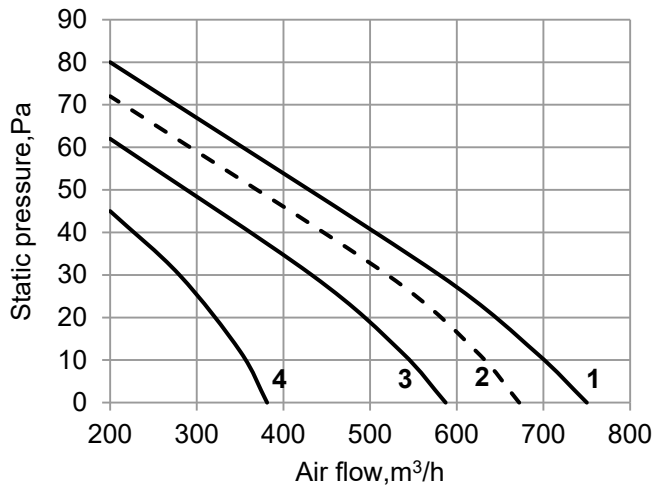
**MKT2-300G12**



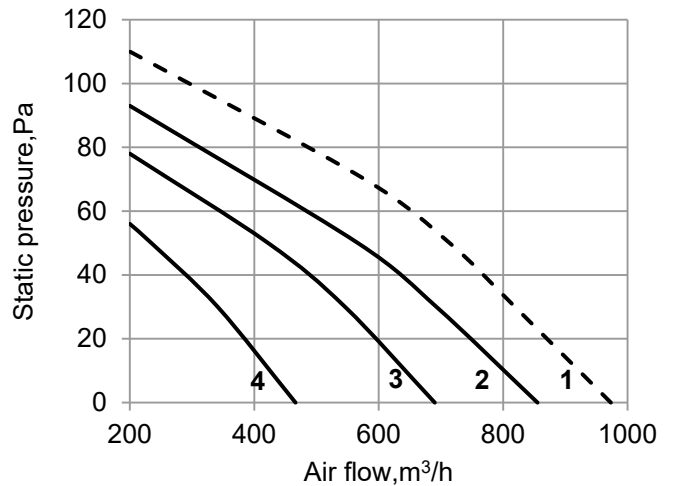
**MKT2-300G30 / MKT2-300EG30**



**MKT2-400G12**

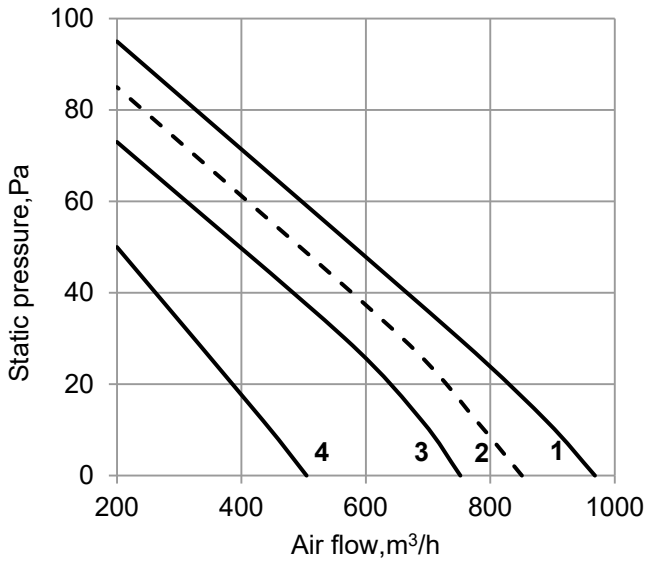


**MKT2-400G30 / MKT2-400EG30**

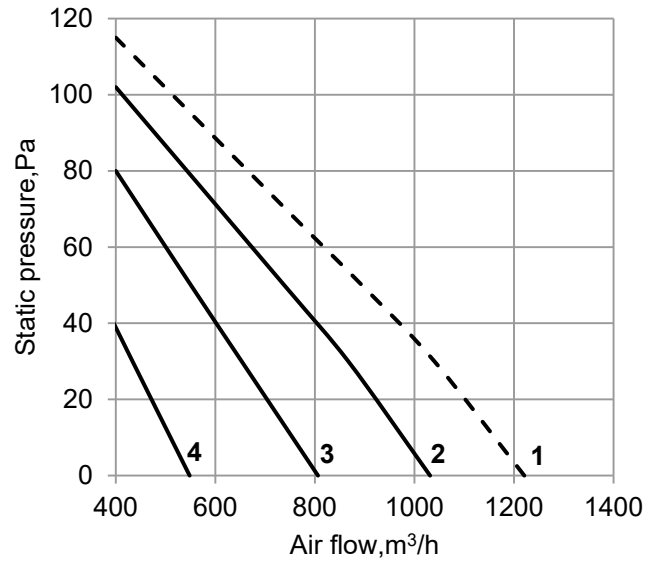


Static pressure graphs

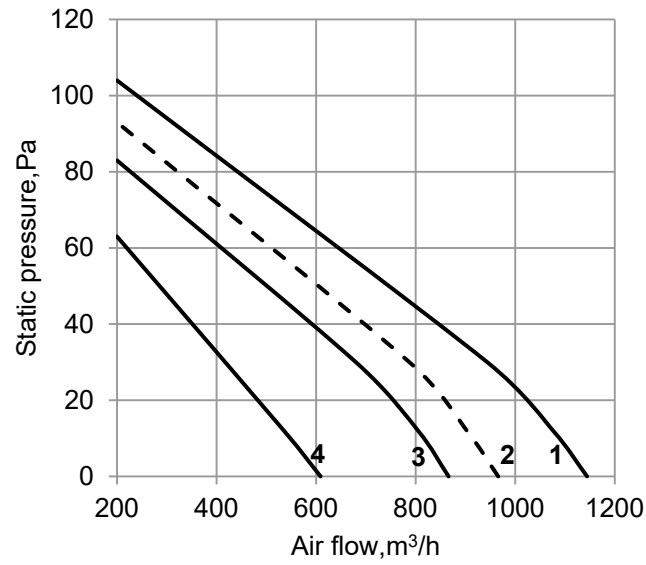
MKT2-500G12



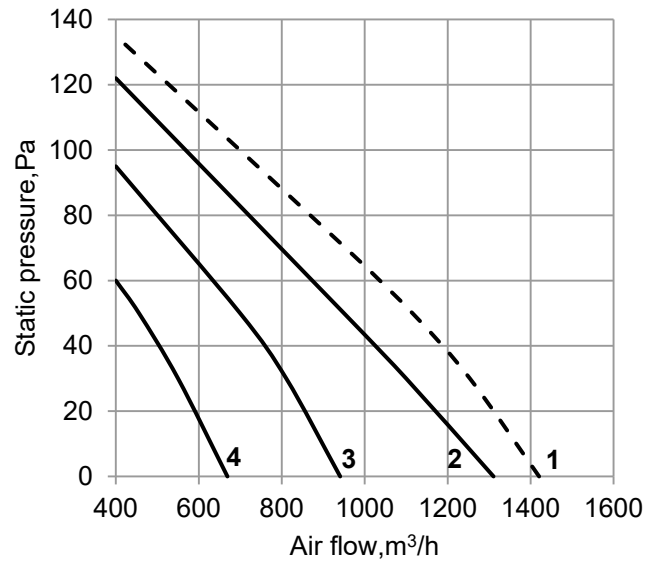
MKT2-500G30 / MKT2-500EG30



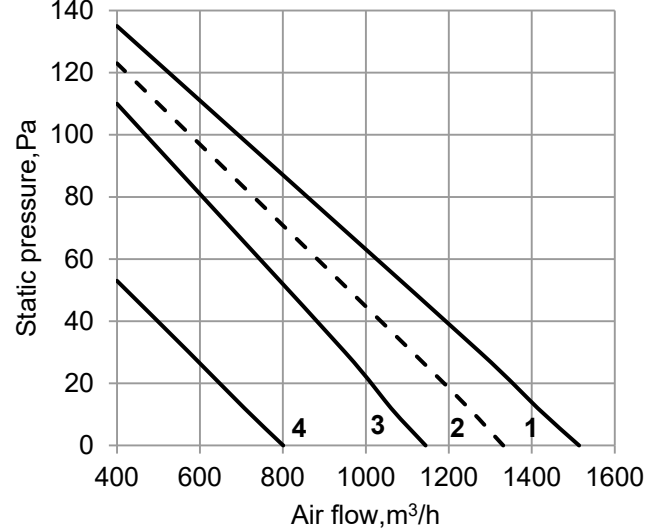
MKT2-600G12



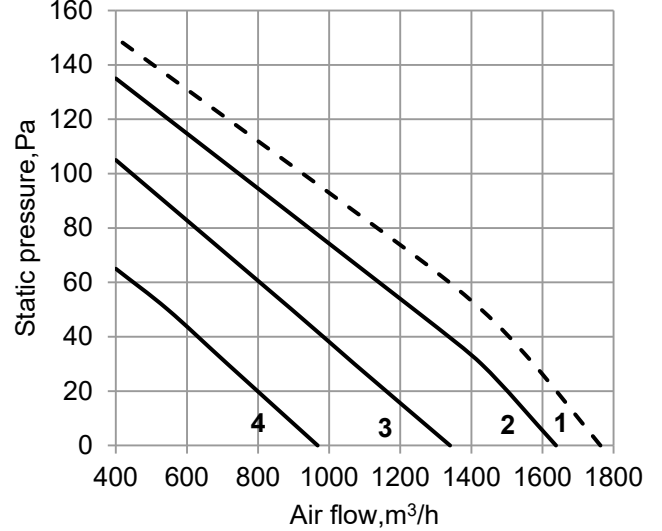
MKT2-600G30 / MKT2-600EG30



MKT2-800G12

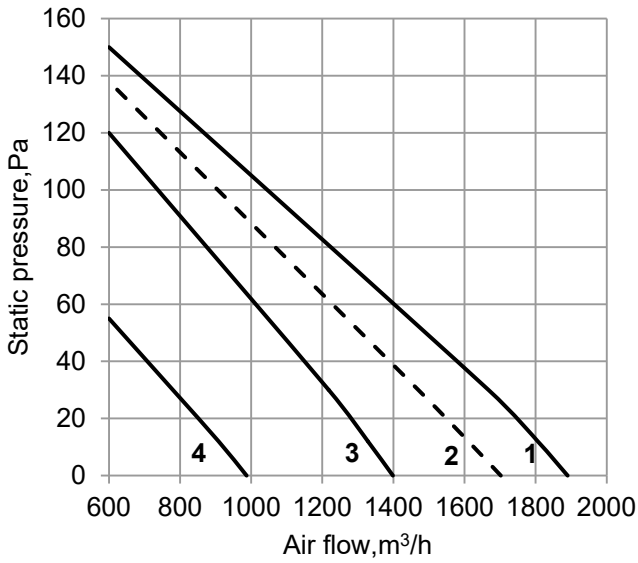


MKT2-800G30 / MKT2-800EG30

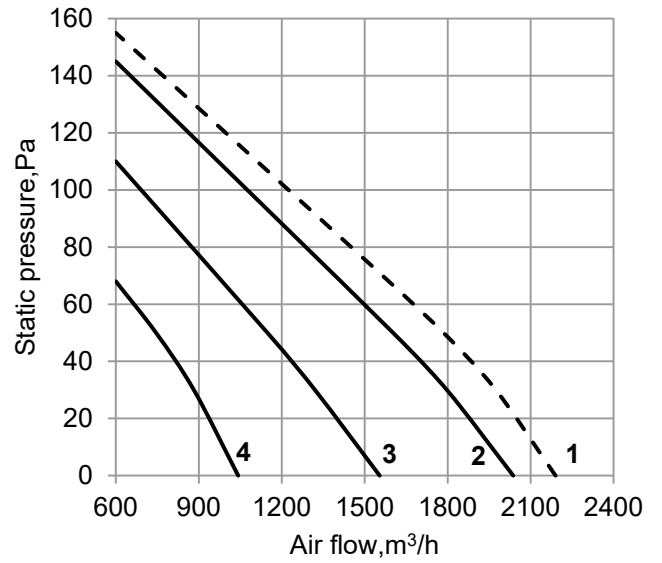


Static pressure graphs

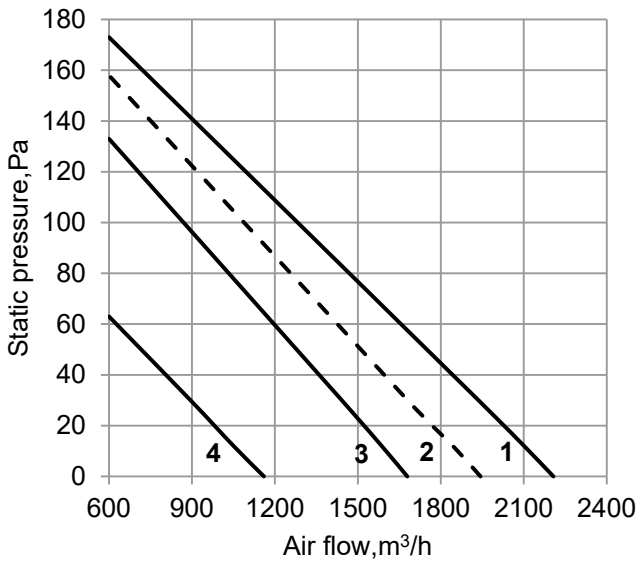
MKT2-1000G12



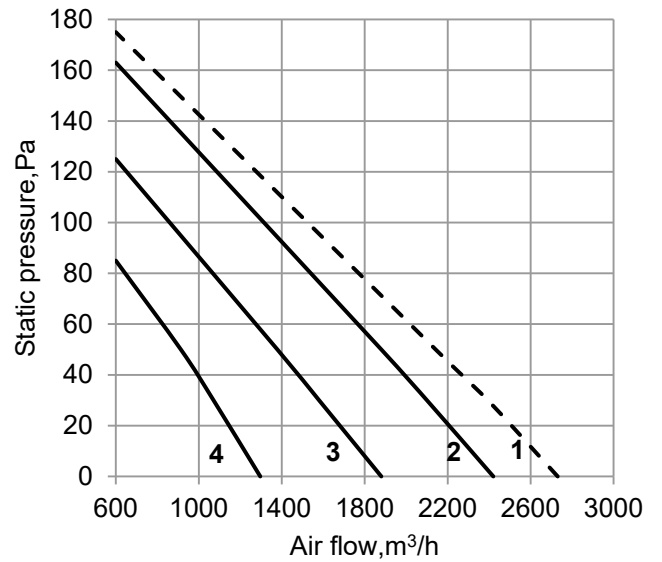
MKT2-1000G30 / MKT2-1000EG30



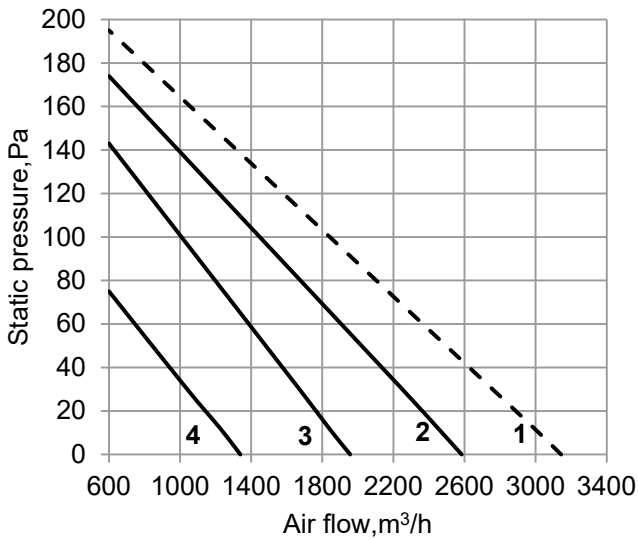
MKT2-1200G12



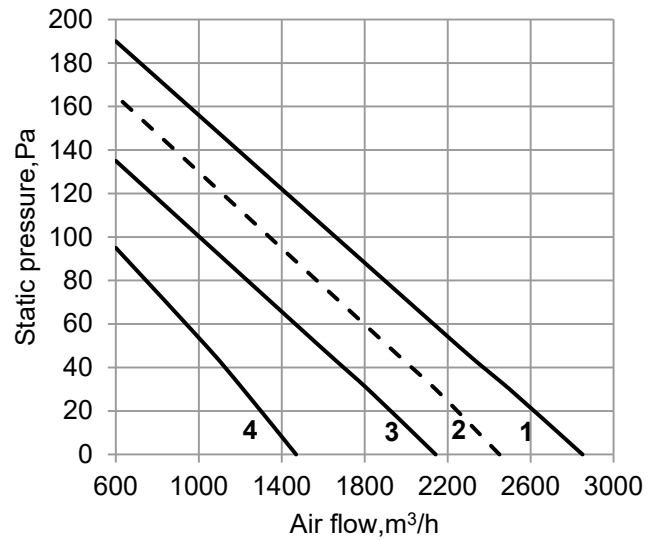
MKT2-1200G30 / MKT2-1200EG30



MKT2-1400G12

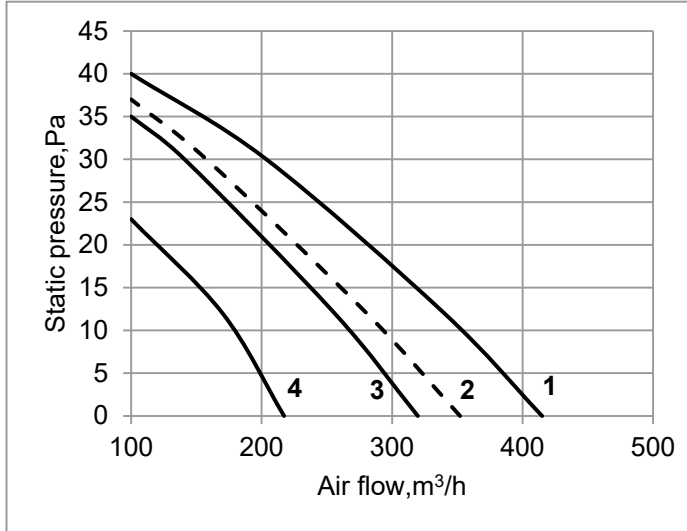


MKT2-1400G30 / MKT2-1400EG30

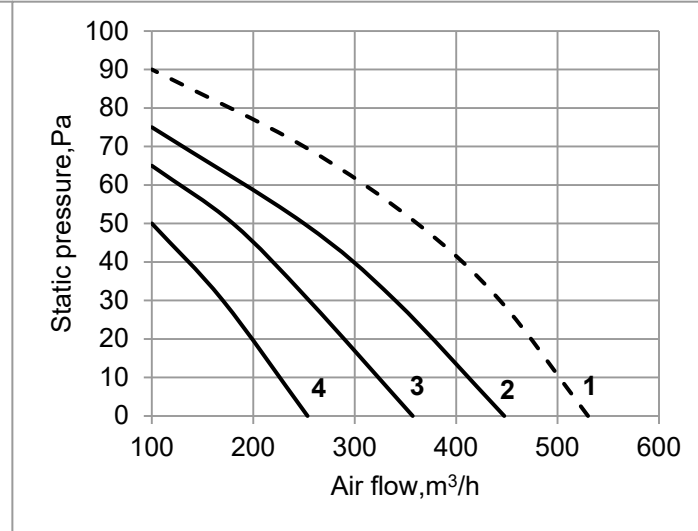


Static pressure graphs

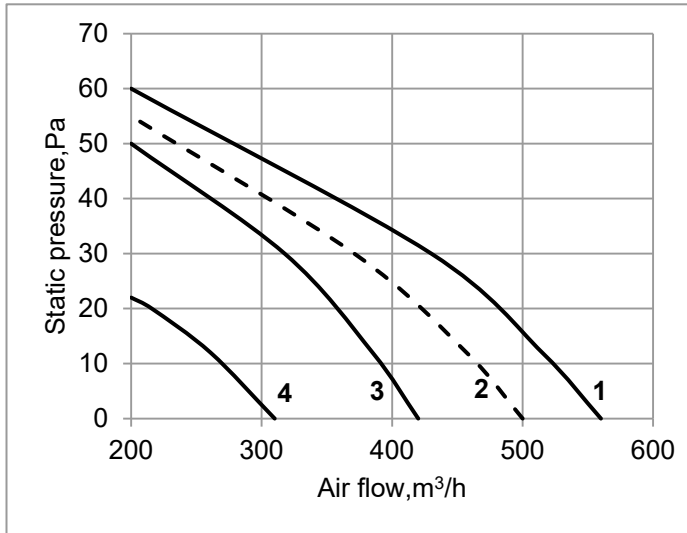
MKT3-200G12



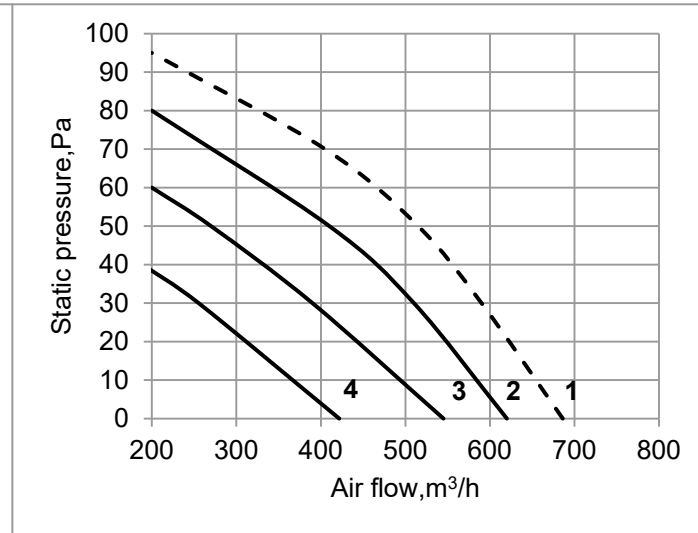
MKT3-200G30 / MKT3-200EG30



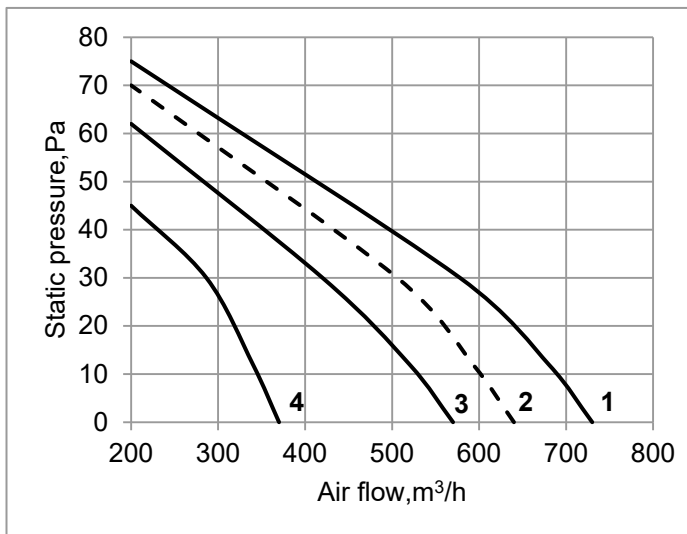
MKT3-300G12



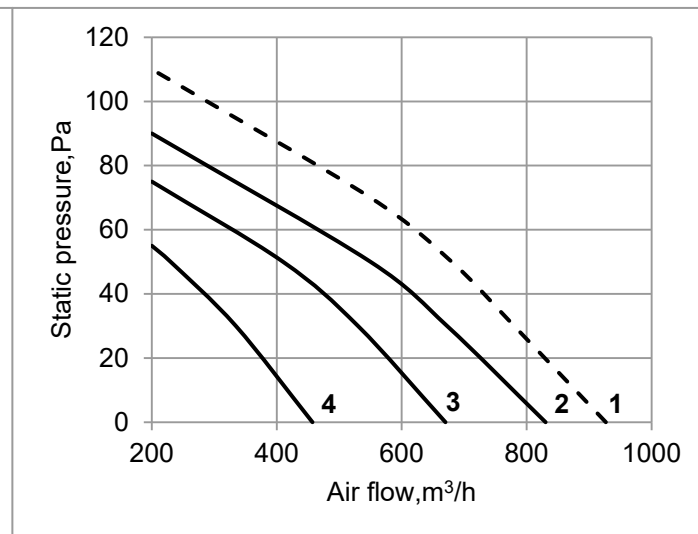
MKT3-300G30 / MKT3-300EG30



MKT3-400G12



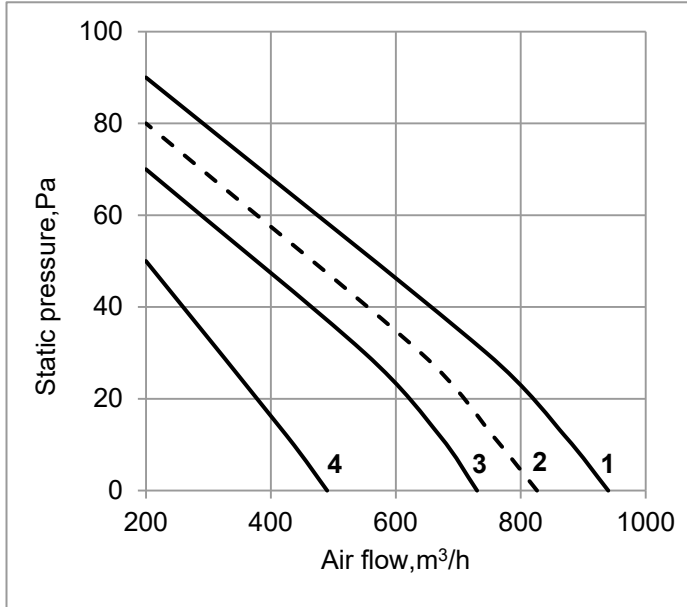
MKT3-400G30 / MKT3-400EG30



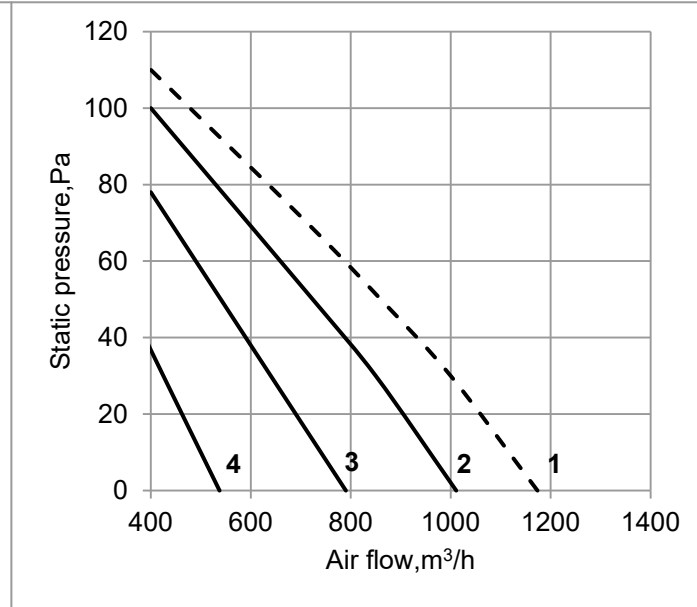


Static pressure graphs

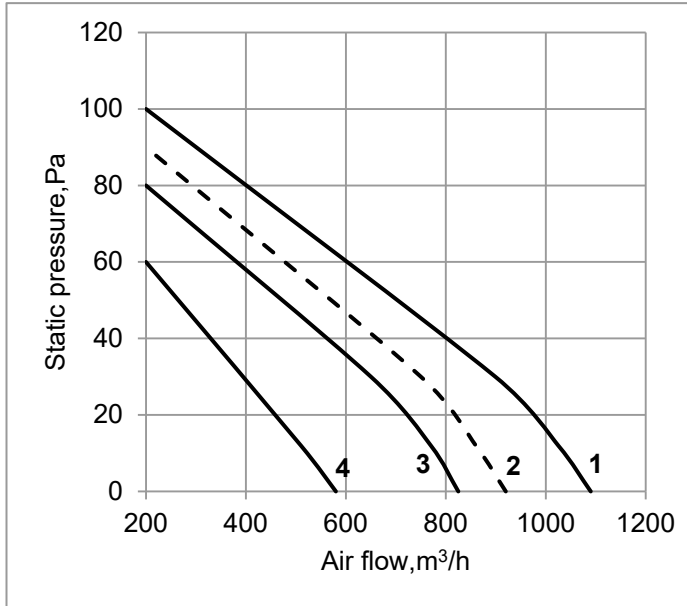
MKT3-500G12



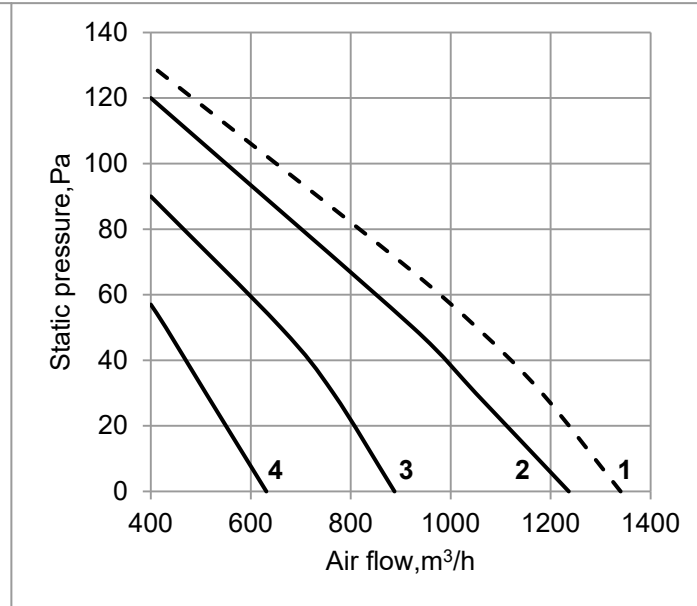
MKT3-500G30 / MKT3-500EG30



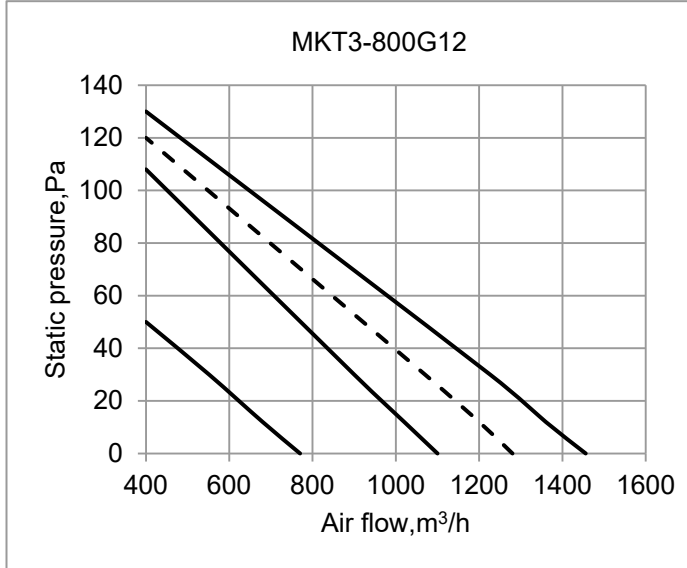
MKT3-600G12



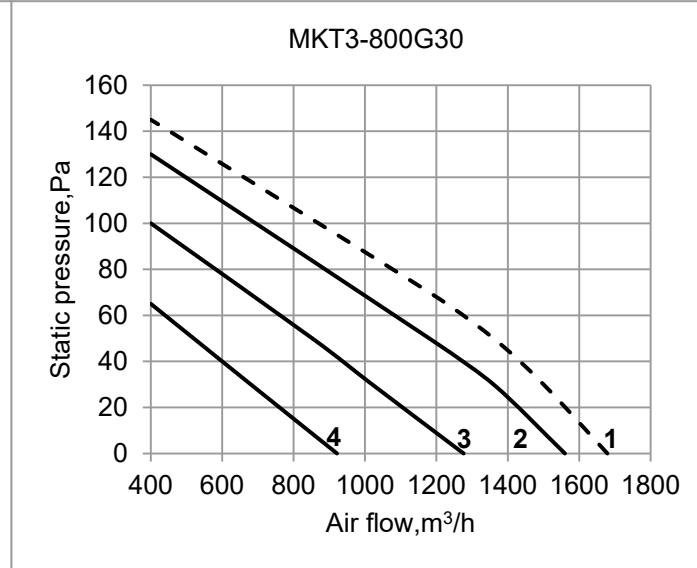
MKT3-600G30 / MKT3-600EG30



MKT3-800G12

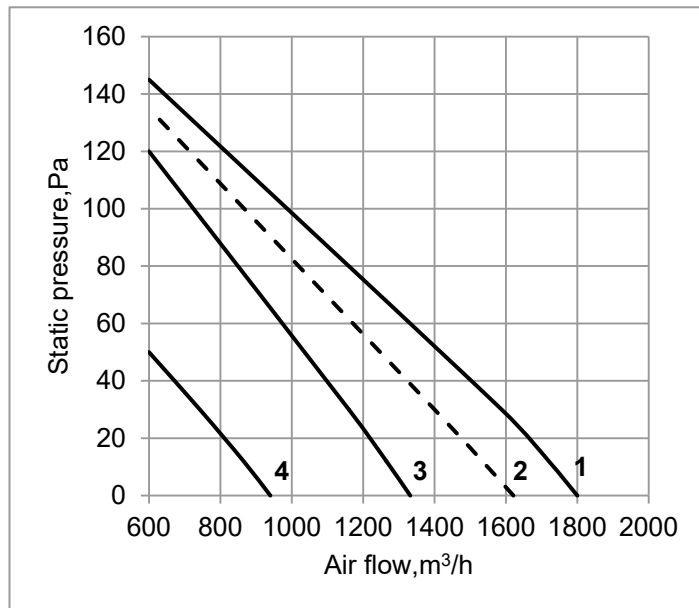


MKT3-800G30 / MKT3-800EG30

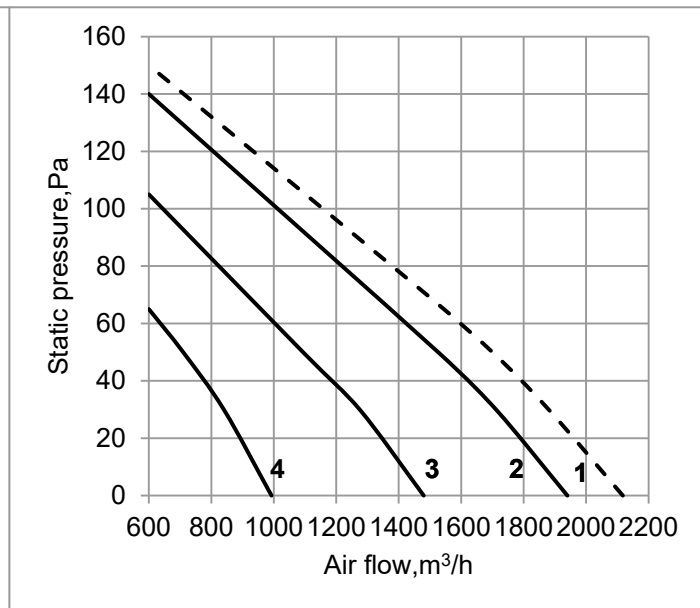


**Static pressure graphs**

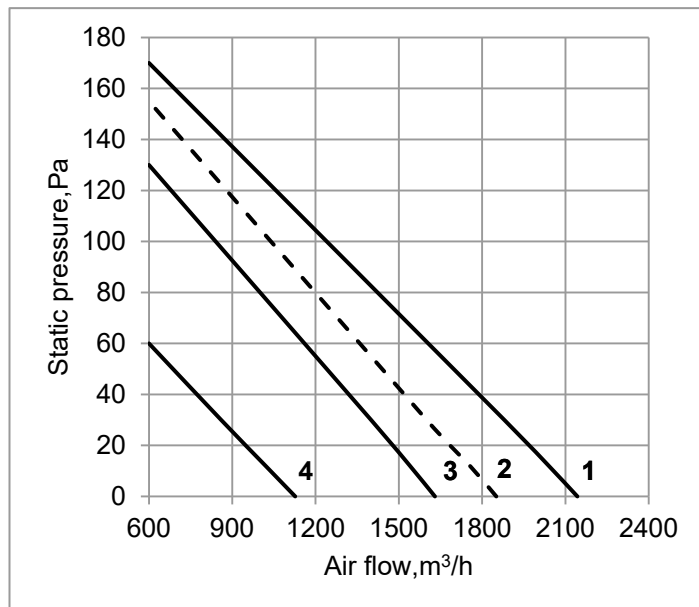
**MKT3-1000G12**



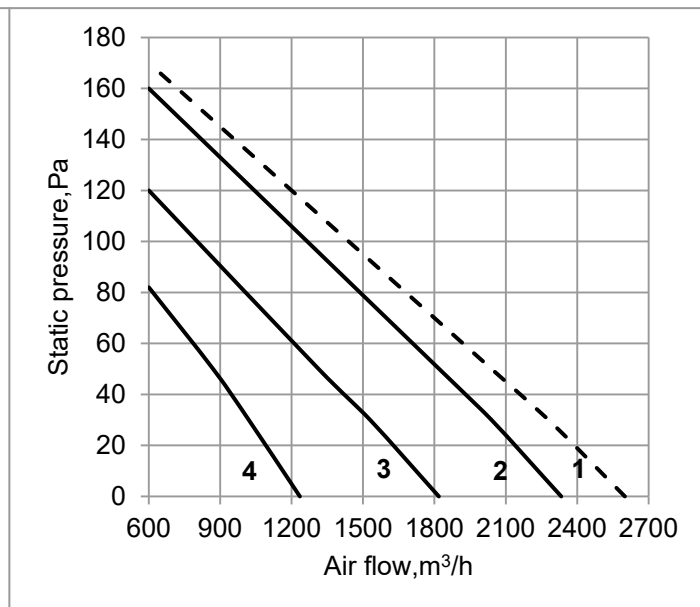
**MKT3-1000G30 / MKT3-1000EG30**



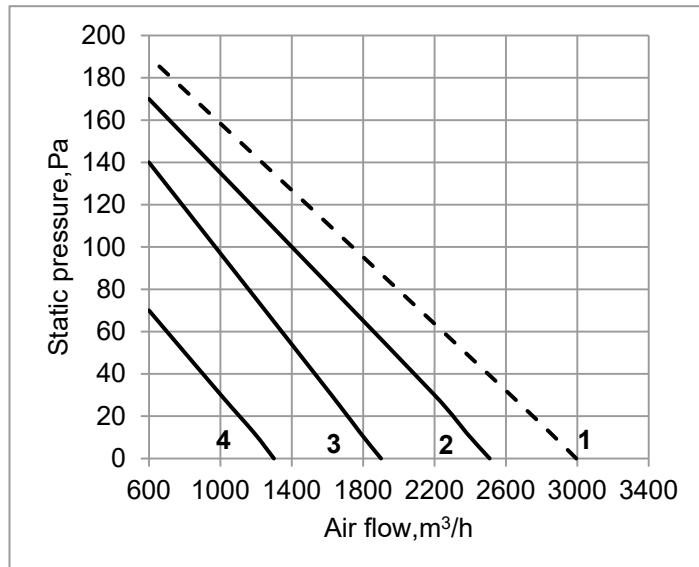
**MKT3-1200G12**



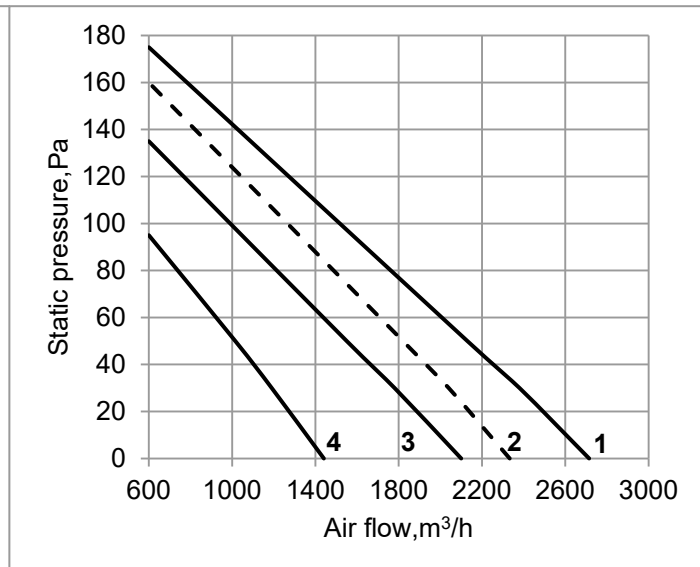
**MKT3-1200G30 / MKT3-1200EG30**



**MKT3-1400G12**

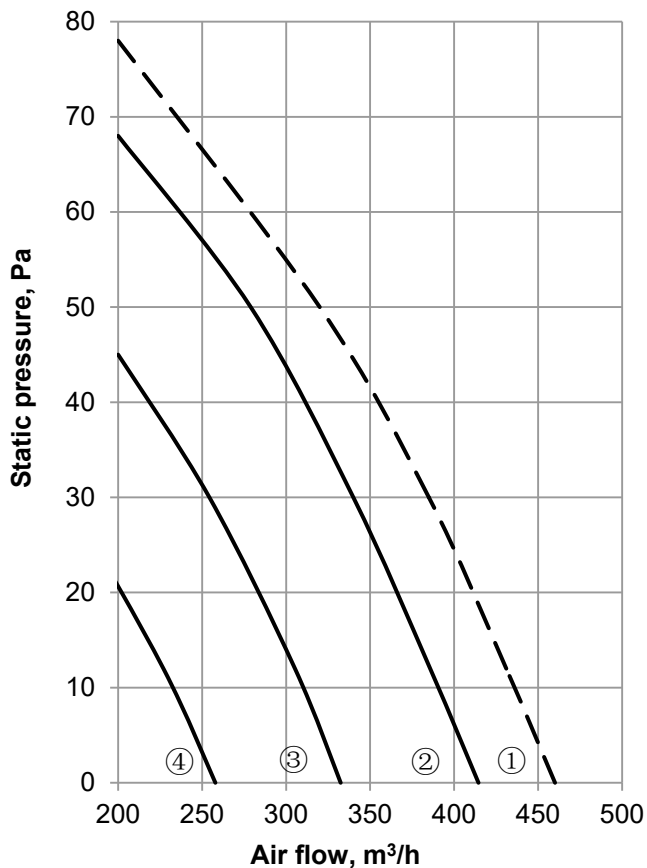


**MKT3-1400G30 / MKT3-1400EG30**

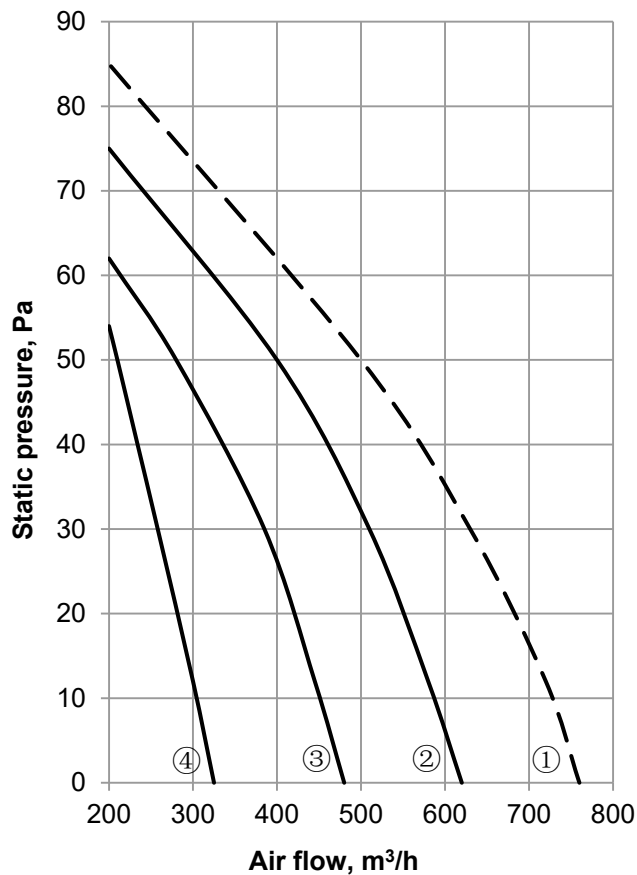


Static pressure graphs

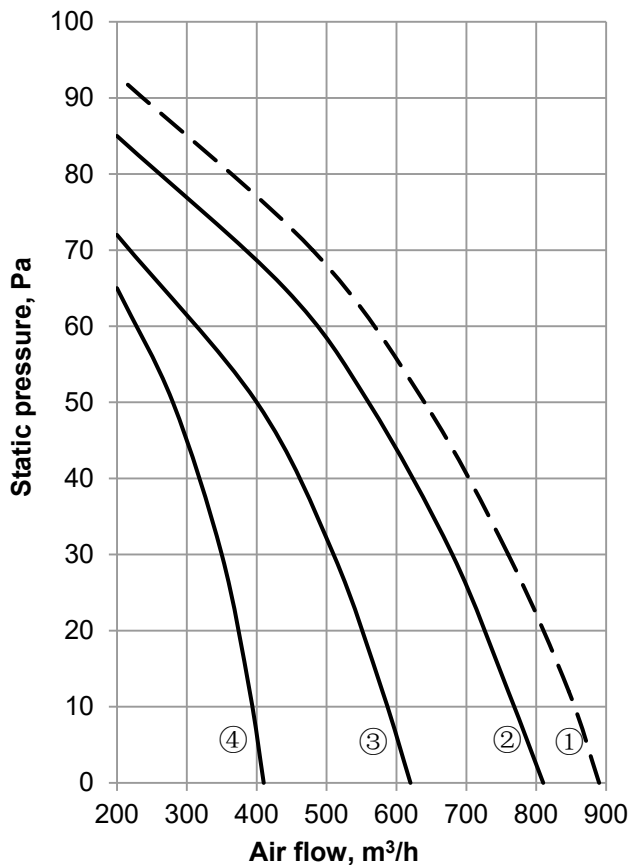
MKT4-200G30



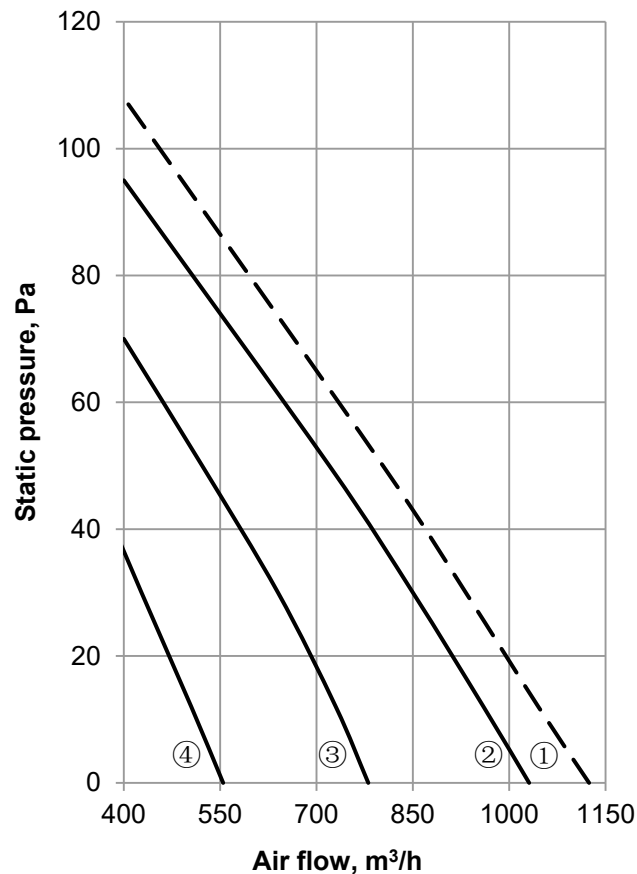
MKT4-300G30



MKT4-400G30

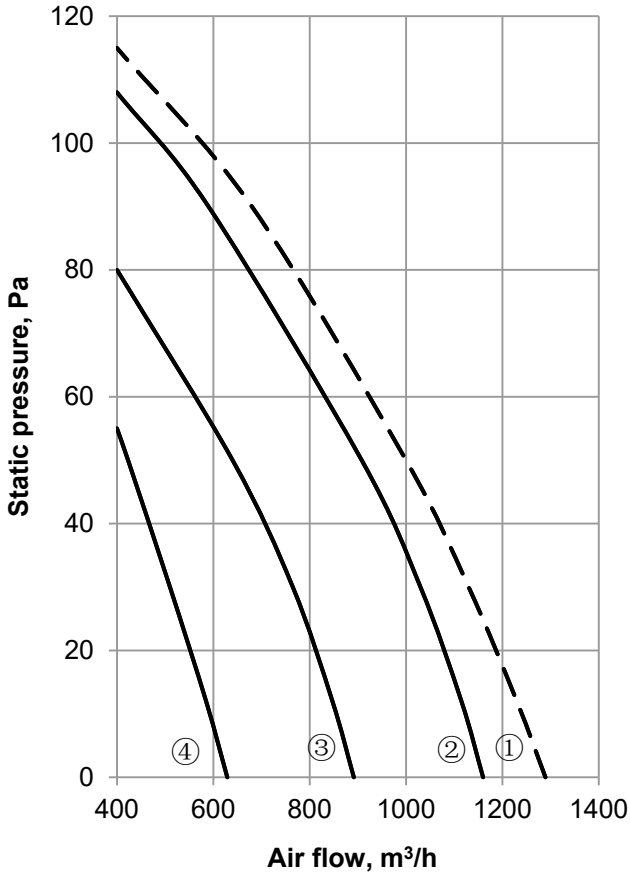


MKT4-500G30

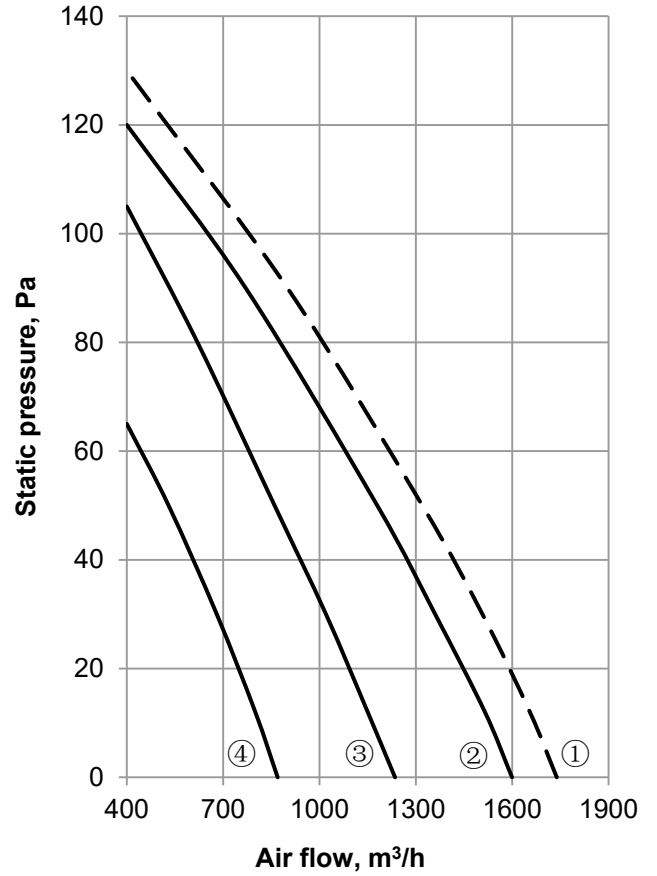


Static pressure graphs

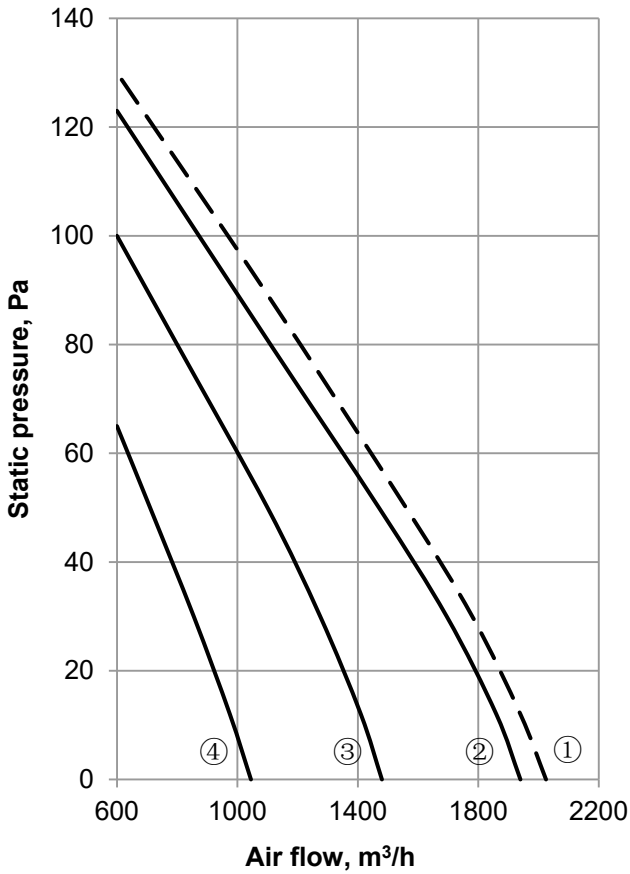
MKT4-600G30



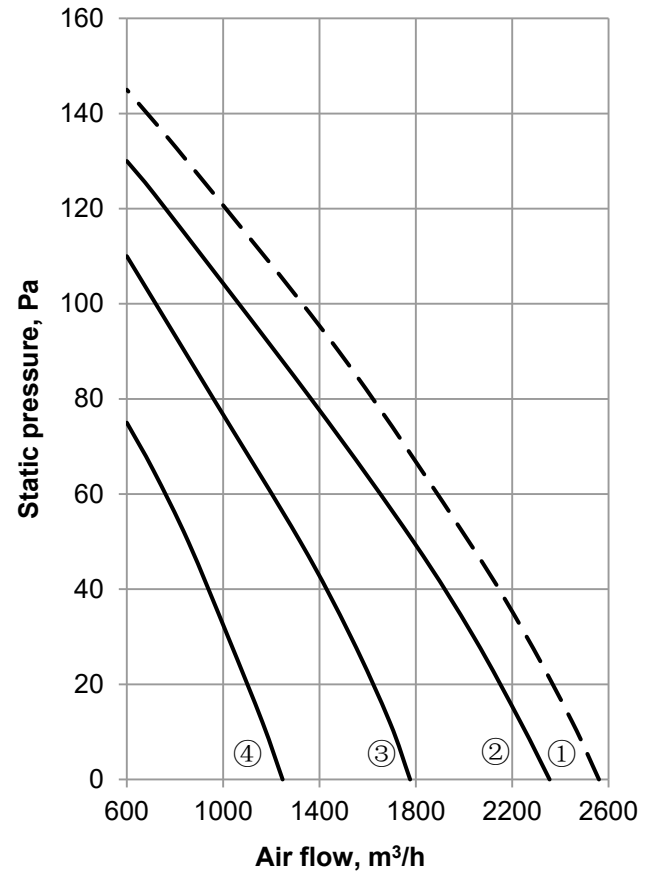
MKT4-800G30



MKT4-1000G30

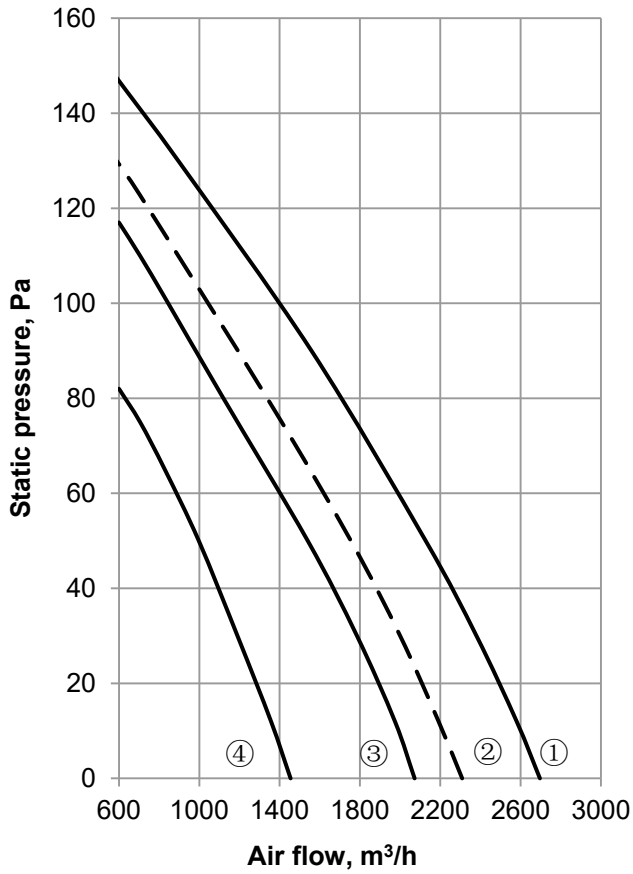


MKT4-1200G30

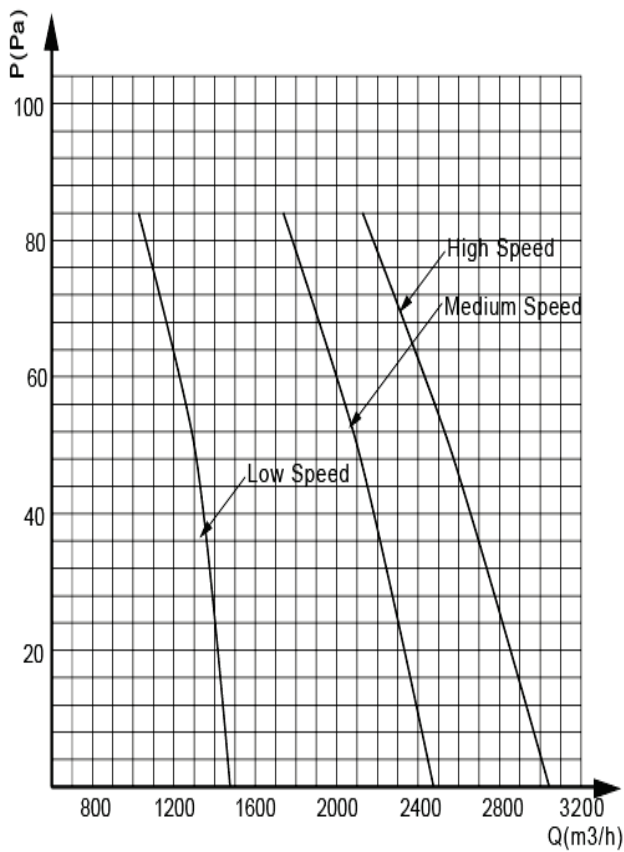


**Static pressure graphs**

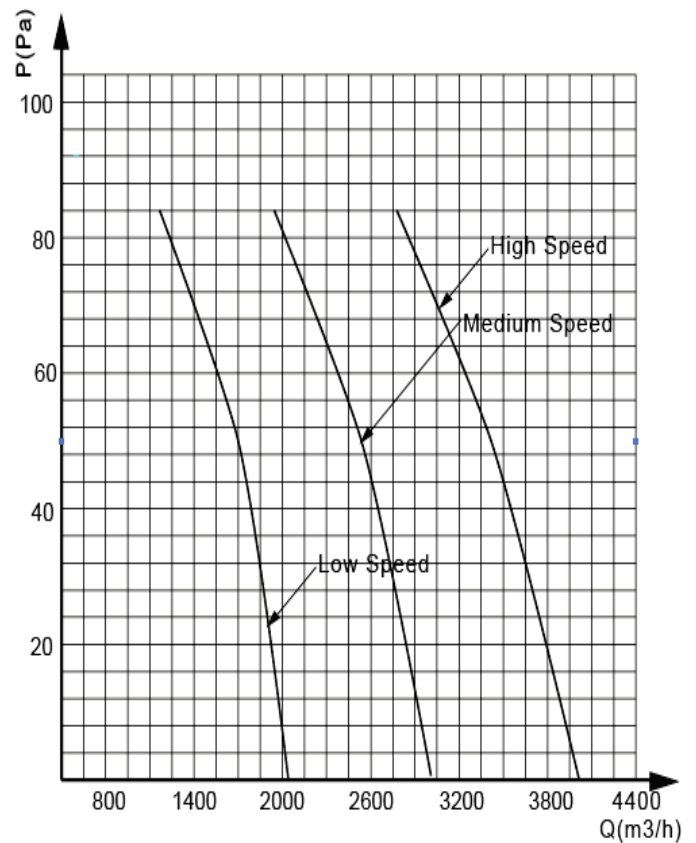
**MKT4-1400G30**



**MKT4H-1500G50**



**MKT4H-2000G50**



## 13. Installation

### 13.1 Installing site

- ◆ Install the unit where installation and maintenance space is enough.
- ◆ Install the unit where the ceiling is horizontal and enough to bear the weight of the indoor unit.
- ◆ Install the unit where the air inlet and outlet are not baffled and are the least affected by external air.
- ◆ Install the unit where the supply air flow can be sent to all parts in the room.
- ◆ Install the unit where it is easy to lead out the connective pipe and the drain pipe.
- ◆ Install the unit where connotative heat is emitted from a heat source directly.

#### Caution:

Installing the equipment in any of the following places may lead to faults of the equipment (if that is inevitable, consult the supplier):

- The site contains mineral oils such as cutting lubricant.
- Seaside where the air contains much salt.
- Hot spring area where corrosive gases exist, e.g., sulfide gas.
- Factories where the supply voltage fluctuates seriously.
- Inside a car or cabin.
- Place like kitchen where oil permeates.
- Place where strong electromagnetic waves exist.
- Place where flammable gases or materials exist.
- Place where acid or alkali gases evaporate.
- Other special environments.

#### Precautions before installation:

- Decide the correct way of conveying the equipment.
- Try to transport this equipment with the original package.
- If the air conditioner needs to be installed on a metal part of the building, electric insulation must be performed, and the installation must meet the relevant technical standards of electric devices.

### 13.2 Installing body

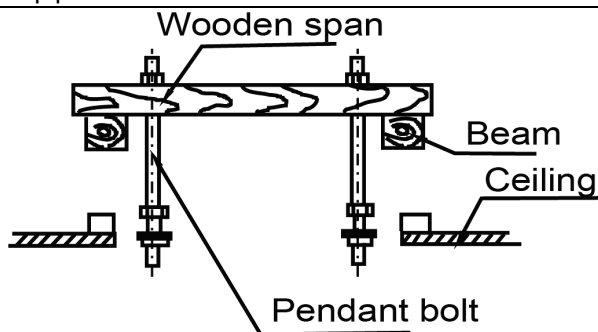
- ◆ Confirm the dimensions of the indoor unit against the following figure.
- ◆ Install  $\Phi 10$  pendant bolts (4 bolts).
- ◆ The intervals of the pendant bolts are shown in the following figure.
- ◆ Use the  $\Phi 10$  pendant bolts.
- ◆ The treatment of the ceiling varies between buildings. For detailed measures, negotiate with the construction and fit-out staff.
  - Scope of dismantling the ceiling. Please keep the ceiling horizontal. Reinforce the beams and girders of the ceiling lest vibration of the ceiling.
  - Cut off the beams and girders of the ceiling.
  - Reinforce the cut-off part, beams and girders of the ceiling.
- ◆ After the main body is suspended, work on the pipes and wires in the ceiling. Decide the lead-out direction of the pipes after selecting the installation site. Especially, in a circumstance where a ceiling is available, extend the refrigerant pipe, drain pipe, indoor/outdoor connection wires and wire controller lines to the connection position before suspending the unit.

#### 13.2.1 Procedure of installing the pendant bolts.

1) Base on the unit structure, please set the screw-pitch according to the size of the following figures:

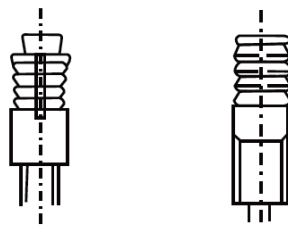
- Wooden structure:

Put rectangular sticks across the beams, and set pendant bolts.



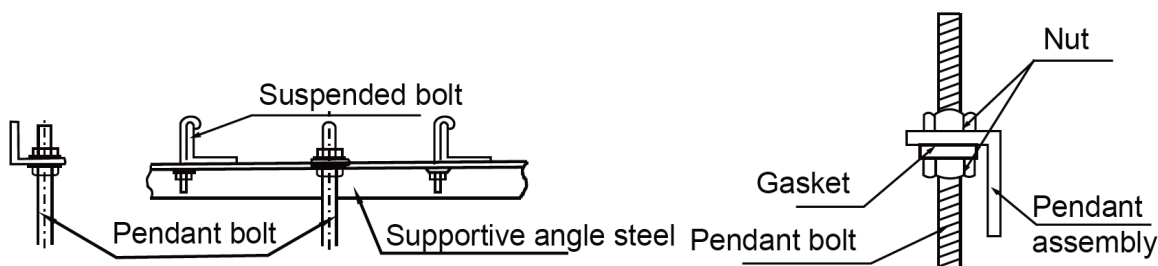
■ Old concrete roughcast:

Use embedded bolts and embedded pulling plugs.



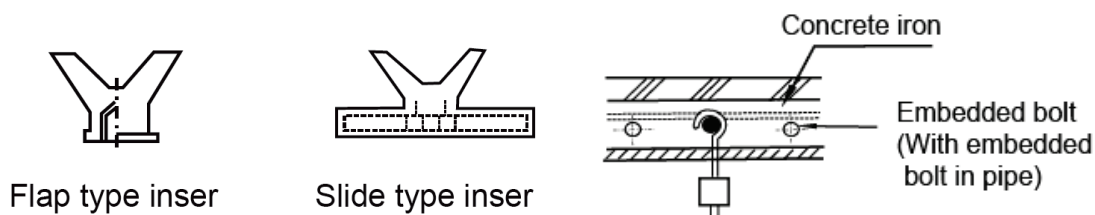
■ Steel beam and girder structure:

Set and use supportive angle steel.



■ New concrete roughcast:

Set it with embedded bushes or embedded bolts.



2) Suspending the indoor unit

- Use tools such as pulleys to hoist the indoor unit to the pendant bolt.
- Use tools such as gradient to settle the indoor unit horizontally. Lack of horizontality may cause water leak.

3) Connect the duct

The duct length is determined according to the external static pressure.

4) Install the wire control switch

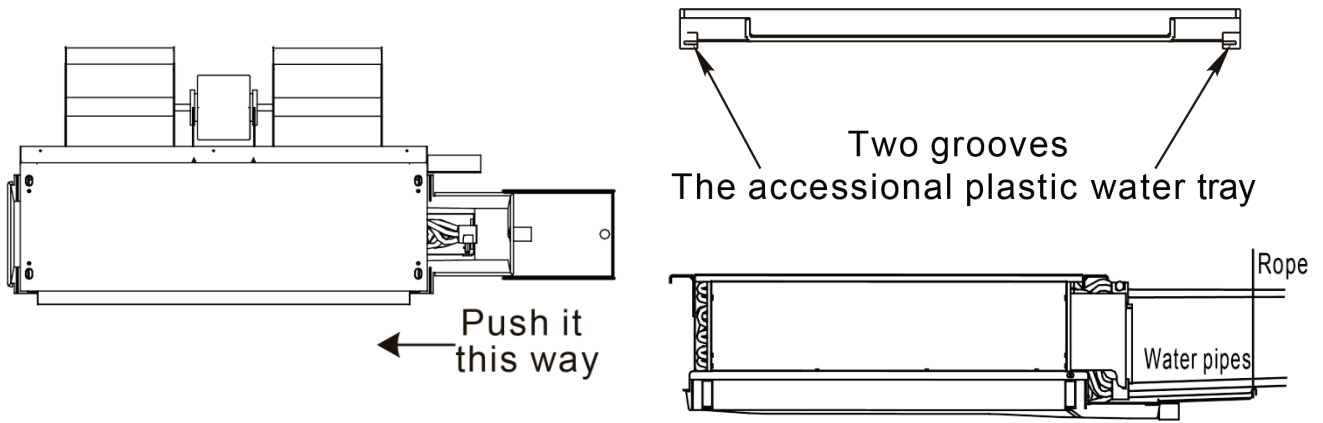
For installation of the wire control switch, see the installation manual of the wire controller.

**13.2.2 Body dimension**

Please refer to chapter 7.

**12.3 Installing extended drain pan**

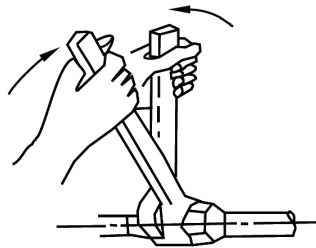
The grooves of the extended drain pan can be locked at the brim of the main drain pan.



Please hang up the extended drain pan to the pipes or ceiling by a rope.

### 12.4 Installing water pipe

- ◆ With air release valve, the other side is water inlet pipe.
- ◆ When connect water collector, set the tightening torque to 6180~7540N.cm (630~770kgf.cm), and use a spanner to tighten it as shown in Figure.
- ◆ The diameter of connective junction in water inlet pipe and water outlet pipe is RC3/4 taper pipe thread inside.
- ◆ The diameter of condensate pipe is ZG3/4 taper pipe thread outside.



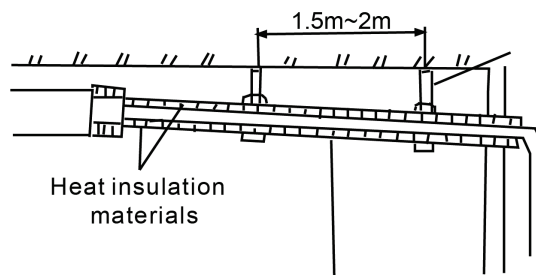
### 12.5 Installing drain pipe

■ Install the drain pipe of the fan coil unit

Before out from factory, the scupper adopts the pipe thread.

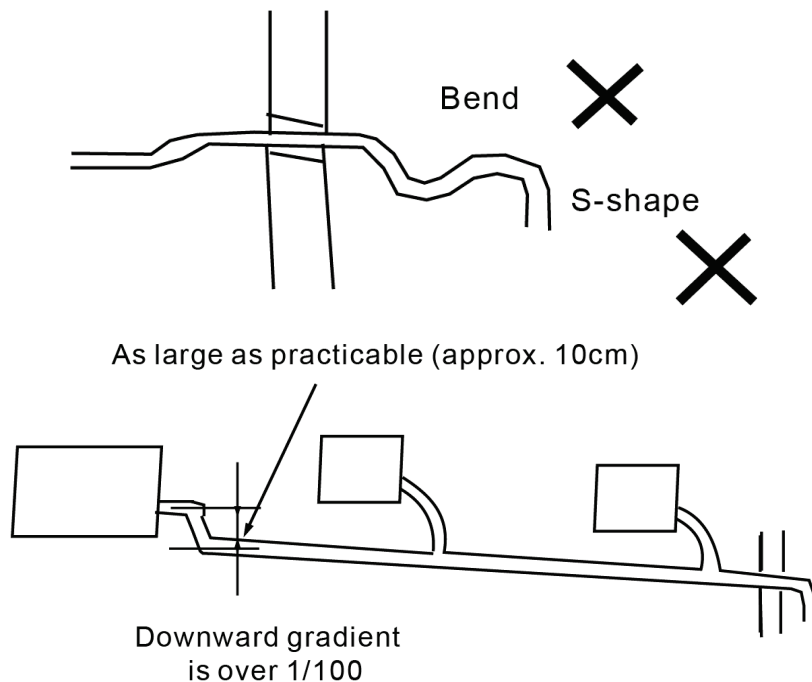
**CAUTIONS:**

- Be sure to perform heat insulation for the drain pipe of the indoor unit. Otherwise, condensate will occur. The joint of the indoor unit should also undergo heat insulation treatment.
- When performing the pipes connection, use the rigid PVC binder, and make sure that no leak exists.
- Same as the joint of the indoor unit. Be careful not to apply force at the pipe side of the indoor unit.
- The downward gradient of the drain pipe should be higher than (1/100), without bend in the middle.
- The total length of the drain pipe should not exceed 20m, when the pipe is over long, a prop stand must be installed to prevent winging.
- The centralized pipes should be distributed against the figure shown on the right side.



Downward gradient is over 1/100





■ Drain test

Before the test, ensure that the drain pipes are smooth and the adapters are sealed.

Newly built rooms should undergo the drain test before the ceiling is laid.

**12.6 Wiring installation**

**CAUTIONS:**

- The air conditioner should use separate power supply with rated voltage.
- The external power supply to the air conditioner should have ground wiring, which is linked to the ground wiring of the indoor and outdoor unit.
- The wiring work should be done by qualified persons according to circuit drawing.
- An all-pole disconnection device which has at least 3mm separation distance in all pole and a residual current device(RCD) with the rating of above 10mA shall be incorporated in the fixed wiring according to the national rule.
- The appliance shall be installed in accordance with national wiring regulations.
- Be sure to locate the power wiring and the signal wirings well to avoid cross-disturbance.
- Do not turn on the power until you have checked carefully after wiring.

The wiring connection please refers to chapter 8.

**14. Accessories**

**14.1 Standard accessories**

Accessory name	Qty.	Shape	Usage
Owner's & installation manual	1	/	Installation guide
Extended drain pan	1		Connect drain water from valve kit