

TECHNICAL MANUAL

Chilled Water Fan Coil Units

AWM, ACK, ACM, ACC, ADB Series



AWM-JW



ACK-EW



ACK-CW



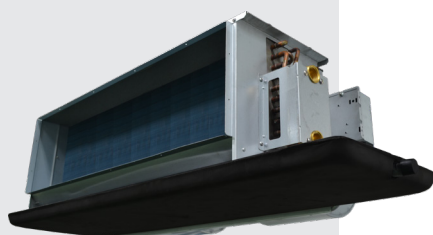
ACM-EW



ACC-CW



ADB-BW



ACC-GW



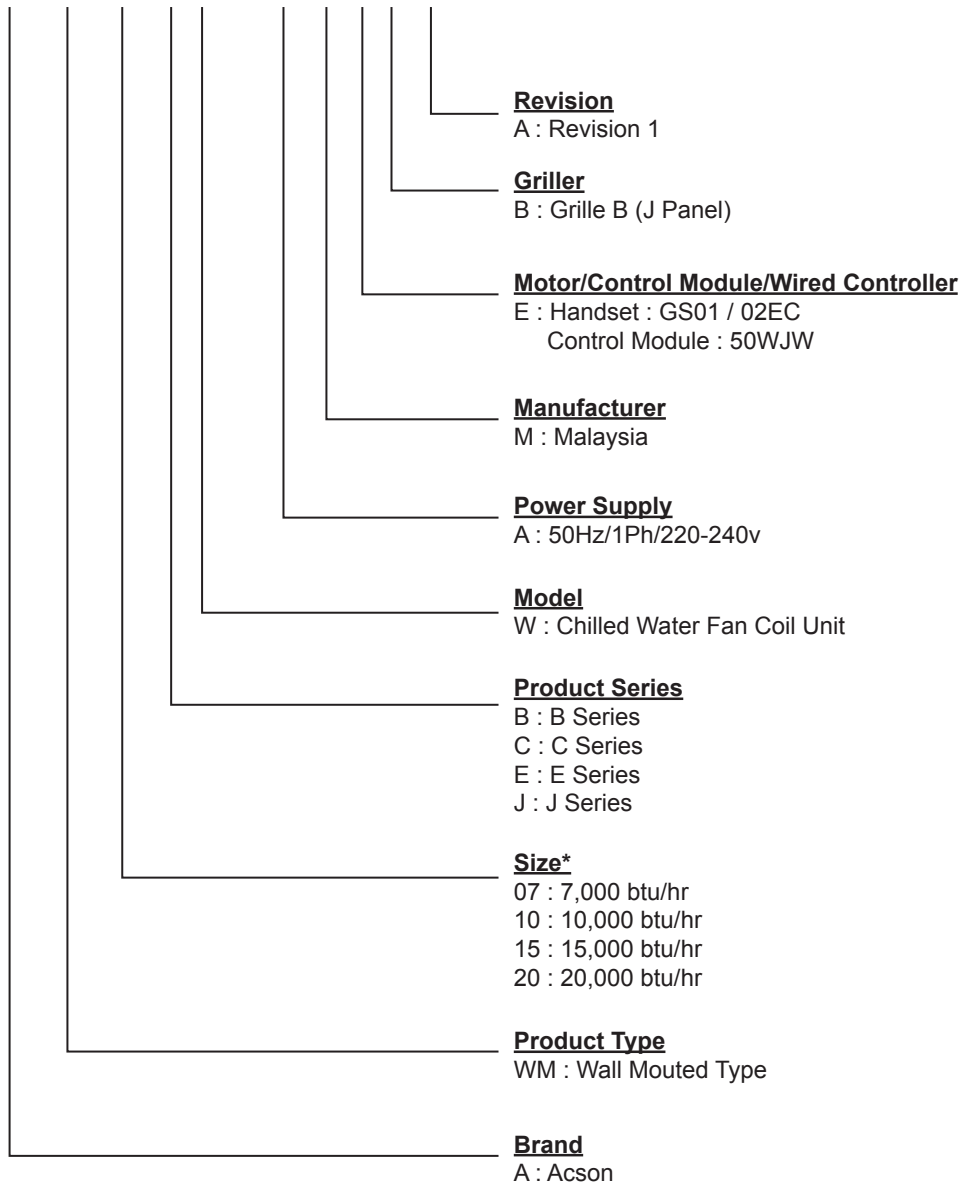
ACC-FWD

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Nomenclature

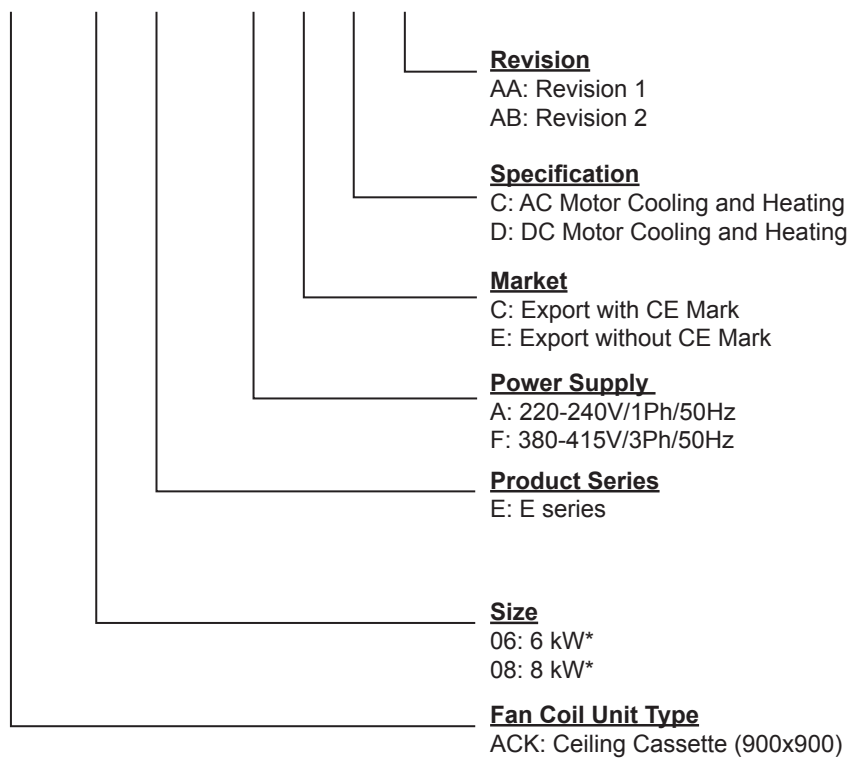
A WM 07 J W - A M E B A



Remark:

* : Capacity value under Nomenclature is an indication.

Please refer to Engineering and Physical Data for exact capacity value

ACK 06 EW - A C C AA

Remark:

* : Capacity value under Nomenclature is an indication.

Please refer to Engineering and Physical Data for exact capacity value

A	CC	10	C	W	-	A	C	A	A	A	
											Revision A : Revision 1 B : Revision 2
											Water Pipe Connection A : Right Piping B : Left Piping
											Controller A : With Controller N : Without Controller
											Market C : Export with CE Mark E : Export without CE Mark
											Power Supply A : 220-240V/1Ph/50Hz F : 380-415V/3Ph/50Hz
											Model W : Chilled Water Fan Coil Unit
											Product Series C : C series
											Size* 10 : 10,000 btu/hr 15 : 15,000 btu/hr 20 : 20,000 btu/hr 25 : 25,000 btu/hr
											Fan Coil Unit Type CC : Ceiling Concealed
											Brand A : Acson

Remark:

* : Capacity value under Nomenclature is an indication.

Please refer to Engineering and Physical Data for exact capacity value

A C C 06 F W D - 5 C R F A X A A

Revision

A : Revision 1
B : Revision 2

Insulation Material/Thickness

A : PE/Drain Pan
Standard;Return Air Plenum
Without Insulation
K : NBR/Drain Pan
Standard;Return Air Plenum
Without Insulation

Motor/Control Module/Wired Controller

X : AC/Without Control Module/
Without Wired Controller

Drain Pan Material & Length

A : Galvanised Steel
E : Stainless Steel & Standard
Length

Filter

F : 8mm Saranet Filter
H : 1inch Aluminium Filter

Return Air Plenum & Filter Removal

R : Rear Return & Side/Bottom
Filter Removal

Coil & Water Pipe Connection

C : 3 Row, Right Piping
D : 3 Row, Left Piping
E : 4 Row, Right Piping
F : 4 Row, Left Piping

External Static Pressure

5 : 50Pa
8 : 75-80Pa

Application

D : District Cooling
(High $\Delta T \approx 9^{\circ}\text{C}$)

Model

W : Chilled Water Fan Coil Unit

Product Series

F : F series

Size*

06 : 600 CFM
09 : 900 CFM
12 : 1200 CFM
15 : 1,500 CFM

Product Type

CC : Ceiling Concealed

Brand

A : Acson

Remark:

* : Air Flow Rate value under Nomenclature is an indication.

Please refer to Engineering and Physical Data for exact capacity value

Note:

Please consult factory for customised enquiry.

A CC 03 G W - 5 C X X A X D A

Revision

A : Revision 1
B : Revision 2

Insulation Material/Thickness

D : PE (10mm)
G : PE (20mm)
K : NBR (10mm)
R : NBR (20mm)

Motor/Control Module/Wired Controller

X : AC/Without Control Module/
Without Wired Controller

Drain Pan Material & Length

A : Galvanised Steel & Standard Length
B : Galvanised Steel & Extended 100mm
E : Stainless Steel & Standard Length
F : Stainless Steel & Extended 100mm

Filter

X : No Filter
H : 1" Aluminium Filter
F : 8mm Saranet Filter
A : 8mm Aluminium Filter

Return Air Plenum & Filter Removal

X : Without Return Plenum &
Without Filter Removal
S : Rear Return & Side Filter Removal

Coil & Water Pipe Connection

C : Right Piping
D : Left Piping

External Static Pressure

5 : 50Pa
8 : 75-80Pa

Model

W : Chilled Water Fan Coil Unit

Product Series

G : G series

Size*

03 : 300 CFM
04 : 400 CFM
06 : 600 CFM
08 : 800 CFM

Product Type

CC : Ceiling Concealed

Brand

A : Acson

Remark:

* : Air Flow Rate value under Nomenclature is an indication.

Please refer to Engineering and Physical Data for exact capacity value

Note:

Please consult factory for customised enquiry.

A	DB	75	B	W	-	F	C	N	P	A	
											<u>Air Discharge Direction</u> A : Horizontal B : Vertical
											<u>Water Pipe Connection</u> P : Right Piping Q : Left Piping
											<u>Controller</u> N : Without Controller
											<u>Market</u> C : Export with CE Mark E : Export without CE Mark
											<u>Power Supply</u> A : 220-240V/1Ph/50Hz F : 380-415V/3Ph/50Hz
											<u>Product Series</u> B : B series
											<u>Model</u> W : Chilled Water Fan Coil Unit
											<u>Size*</u> 75 : 75,000 btu/hr 100 : 100,000 btu/hr 125 : 125,000 btu/hr 150 : 150,000 btu/hr
											<u>Product Type</u> DB : Ducted Blower
											<u>Brand</u> A : Acson

Remark:

* : Capacity value under Nomenclature is an indication.

Please refer to Engineering and Physical Data for exact capacity value

Product Line-Up

Chilled Water Fan Coil Units

Model	Classification																				
	PCB				Handset		Control			Connection				Air Return			Air Discharge			Filter	
	50WJWXX*	UCW_W2.0*	W3*	Without Controller	BRC52A	BRC51A	Auto Air Swing	Turbo	Quiet	1/2" BSP Female Thread Adaptor	3/4" BSP Female Thread Adaptor	1 1/4" BSP Female Thread Adaptor	3/4" BSPT Female Thread Adaptor	Horizontal Flow	Vertical Flow	Convertible	Horizontal Flow	Vertical Flow	Convertible	Saranet Filter	Viledon R29
AWM07JW	X				X		X	X	X	X										X	
AWM10JW	X				X		X	X	X	X										X	
AWM15JW	X				X		X	X	X	X										X	
AWM20JW	X				X		X	X	X	X										X	
AWM25JW	X				X		X	X	X	X										X	
ACK10CW		X			X						X									X	
ACK15CW		X			X						X									X	
ACK20CW		X			X						X									X	
ACK20EW			X		X		X		X		X									X	
ACK25EW			X		X		X		X		X									X	
ACK30EW			X		X		X	X	X		X									X	
ACK40EW			X		X		X	X	X		X									X	
ACK50EW			X		X		X	X	X		X									X	
ACM15EW		X			X		X	X		X									X	X	
ACM20EW		X			X		X			X									X	X	
ACM25EW		X			X		X			X									X	X	
ACM30EW			X		X		X				X								X	X	
ACM40EW			X		X		X				X								X	X	
ACM50EW			X		X		X				X								X	X	

Model	Classification																					
	PCB					Handset		Control			Connection				Air Return			Air Discharge			Filter	
	50WJWXX*	UCW_W2.0*	W3*	W3DC*	Without Controller	BRC52A	BRC51A	Auto Air Swing	Turbo	Quiet	3/4" BSP Female Thread Adaptor	1 1/4" BSP Female Thread Adaptor	3/4" BSPT Female Thread Adaptor	1" BSPT Female Thread Adaptor	Horizontal Flow	Vertical Flow	Convertible	Rear Return	Bottom Return	Convertible	Saranet Filter	Viledon R29
ACC10CW		X					X				X				X			X			X	
ACC15CW		X					X				X				X			X			X	
ACC20CW		X					X				X				X			X			X	
ACC25CW		X					X				X				X			X			X	
ACC30CW		X					X				X				X			X			X	
ACC38CW		X					X				X				X			X			X	
ACC40CW		X					X				X				X			X			X	
ACC50CW		X					X				X				X			X			X	
ACC60CW		X					X				X				X			X			X	
ACC06FWD					X								X		X			X		X	X	
ACC09FWD					X								X		X			X		X	X	
ACC12FWD					X								X		X			X		X	X	
ACC15FWD					X								X		X			X		X	X	
ACC18FWD					X								X		X			X		X	X	
ACC24FWD					X								X		X			X		X	X	
ACC30FWD					X								X		X			X		X	X	
ACC02GW					X								X		X			X				
ACC03GW					X								X		X			X				
ACC04GW					X								X		X			X				
ACC06GW					X								X		X			X				
ACC08GW					X								X		X			X				
ACC10GW					X								X		X			X				
ACC12GW					X								X		X			X				
ACC14GW					X									X	X			X				
ACC16GW					X									X	X			X				
ACC18GW					X									X	X			X				
ACC20GW					X									X	X			X				
ADB075BW					X							X			X			X			X	
ADB100BW					X							X			X			X			X	
ADB125BW					X							X			X			X				X
ADB150BW					X							X			X			X				X

* PCB naming

** Standard Model, optional items please refer to Nomenclature.

Application Information

Model: AWM-JW**Operating Limits:**

Thermal carrier : Water

Water temperature : 4°C ~ 10°C (Cooling), 35°C ~ 50°C (Heating)

Maximum water pressure : 16 bar

Air temperature : (as below)

Cooling Mode

Temperature	Ts °C/°F	Th °C/°F
Minimum indoor temperature	19.0 / 66.2	14.0 / 57.2
Maximum indoor temperature	32.0 / 89.6	23.0 / 73.4

Ts: Dry bulb temperature. Th: Wet bulb temperature.

Model: ACK-CW**Operating Limits:**

Thermal carrier : Water

Water temperature : 4°C ~ 10°C (Cooling), 35°C ~ 50°C (2 Pipes) (Heating)

Maximum water pressure : 16 bar

Air temperature : (as below)

Cooling Mode

Temperature	Ts °C/°F	Th °C/°F
Minimum indoor temperature	19.0 / 66.2	14.0 / 57.2
Maximum indoor temperature	32.0 / 89.6	23.0 / 73.4

Ts: Dry bulb temperature. Th: Wet bulb temperature.

Model: ACK-EW (AC)**Operating Limits:**

Thermal carrier : Water

Water temperature : 4°C ~ 10°C (Cooling), 35°C ~ 50°C (2 Pipes) (Heating)

Maximum water pressure : 16 bar

Air temperature : (as below)

Cooling Mode

Temperature	Ts °C/°F	Th °C/°F
Minimum indoor temperature	16.0 / 60.8	11.0 / 51.8
Maximum indoor temperature	32.0 / 89.6	23.0 / 73.4

Ts: Dry bulb temperature. Th: Wet bulb temperature.

Model: ACM-EW**Operating Limits:**

Thermal carrier : Water

Water temperature : 4°C ~ 10°C (Cooling), 35°C ~ 50°C

Maximum water pressure : 16 bar

Air temperature : (as below)

Cooling Mode

Temperature	Ts °C/°F	Th °C/°F
Minimum indoor temperature	19.0 / 66.2	14.0 / 57.2
Maximum indoor temperature	32.0 / 89.6	23.0 / 73.4

Ts: Dry bulb temperature. Th: Wet bulb temperature.

Model: ACC-CW**Operating Limits:**

Thermal carrier : Water

Water temperature : 4 ~ 10°C (Cooling), 35°C ~ 50°C (Heating)

Maximum water pressure : 16 bar

Air temperature : (as below)

Cooling Mode

Temperature	Ts °C/°F	Th °C/°F
Minimum indoor temperature	19.0 / 66.2	14.0 / 57.2
Maximum indoor temperature	32.0 / 89.6	23.0 / 73.4

Ts: Dry bulb temperature. Th: Wet bulb temperature.

Model: ACC-FWD**Operating Limits:**

Thermal carrier : Water

Water temperature : 4 ~ 10°C (Cooling)

Maximum water pressure : 16 bar

Air temperature : (as below)

Cooling Mode

Temperature	Ts °C/°F	Th °C/°F
Minimum indoor temperature	19.0 / 66.2	14.0 / 57.2
Maximum indoor temperature	32.0 / 89.6	23.0 / 73.4

Ts: Dry bulb temperature. Th: Wet bulb temperature.

Model: ACC-GW (MSP , LSP)**Operating Limits:**

Thermal carrier : Water

Water temperature : 4 ~ 10°C (Cooling)

Maximum water pressure : 16 bar

Air temperature : (as below)

Cooling Mode

Temperature	Ts °C/°F	Th °C/°F
Minimum indoor temperature	19.0 / 66.2	14.0 / 57.2
Maximum indoor temperature	32.0 / 89.6	23.0 / 73.4

Ts: Dry bulb temperature.

Th: Wet bulb temperature.

Model: ADB-BW**Operating Limits:**

Thermal carrier : Water

Water temperature : 4 ~ 10°C (Cooling), 35°C ~ 70°C (Heating)

Maximum water pressure : 16 bar

Air temperature : (as below)

Cooling Mode

Temperature	Ts °C/°F	Th °C/°F
Minimum indoor temperature	19.0 / 66.2	14.0 / 57.2
Maximum indoor temperature	32.0 / 89.6	23.0 / 73.4

Ts: Dry bulb temperature. Th: Wet bulb temperature.

Installation Guide

System Configuration

The standard controller board comes with a VALVE jumper and a HEAT jumper. The system can be configured as the jumper selection listed below:

	HEAT Jumper	VALVE Jumper
Heatpump Mode & Valve Application	√	√
Heatpump Mode & Valveless Application	√	X
Cooling Mode & Valve Application	X	√
Cooling Mode & Valveless Application	X	X

√ Jumper Remained

X Jumper Removed

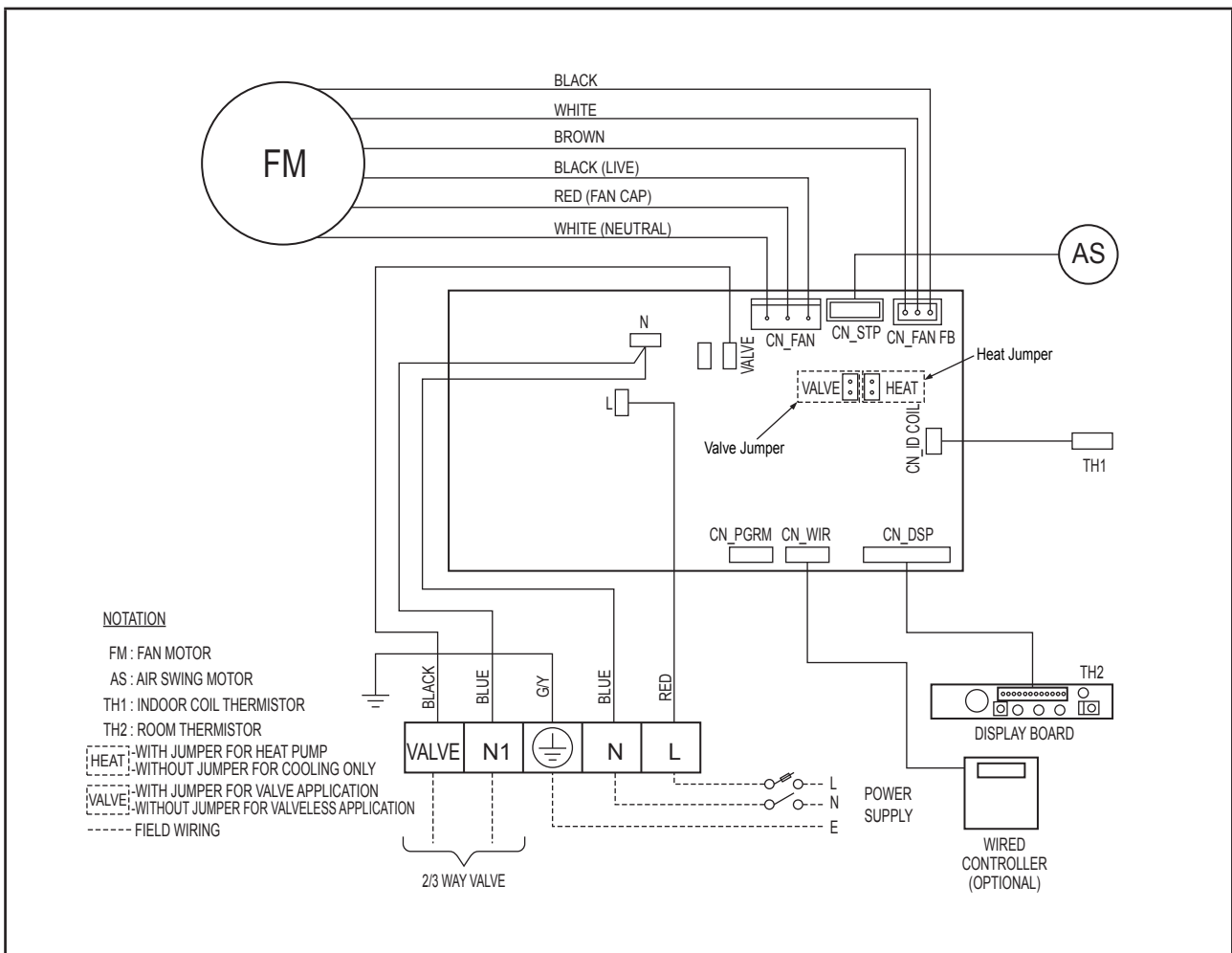


Caution

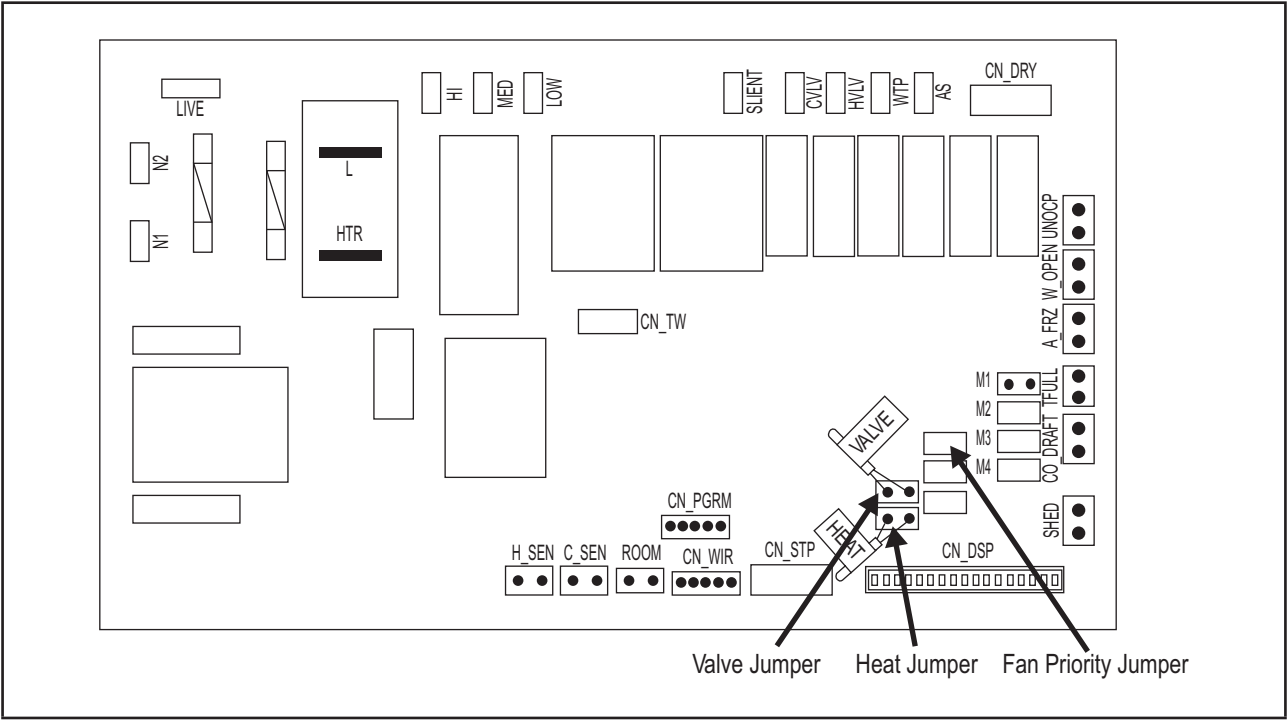
Disconnect the power supply to the unit before attempting to connect the wiring

Valve, Heat and Fan Priority Setting

Model: AWM-JW



Model: ACK, ACM, ACC-CW

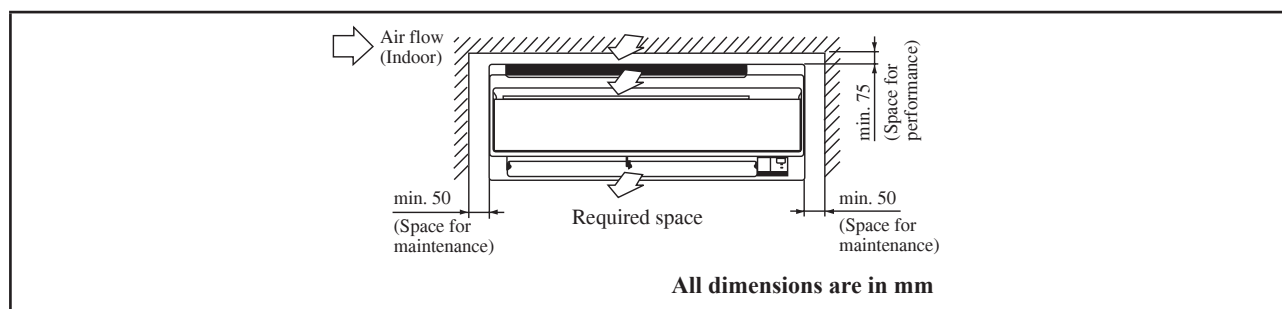


Jumper	With Jumper (Default)	Without Jumper
Fan Priority Jumper	User set speed or lower fan if auto mode is selected	Fan Stop when thermostat cat off
Heat Jumper	For Heat pump	For Cooling only
Valve Jumper	For valve control	For valveless control

Indoor Installation

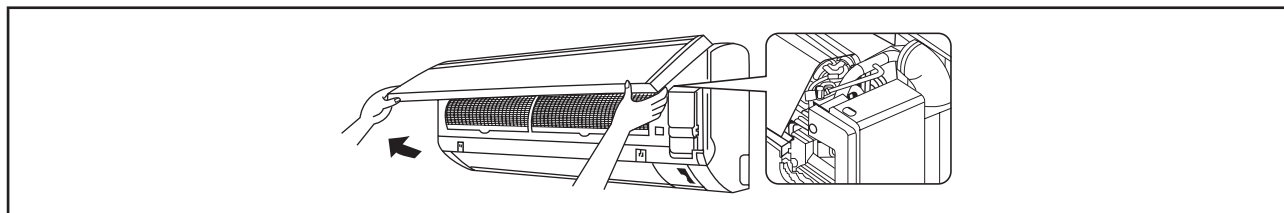
Model: AWM-JW

The indoor unit must be installed in such a way so as to prevent short circuit of the cool discharged air with the hot return air. Please follow the installation clearance shown in the figure. Do not place the indoor unit where there could be direct sunlight shining on it. Also, this location must be suitable for piping and drainage, and be away from doors or windows.



Air Purging

To prevent pump damage, the fan coil unit should not be energized until the coil and all water lines have been purged of air.



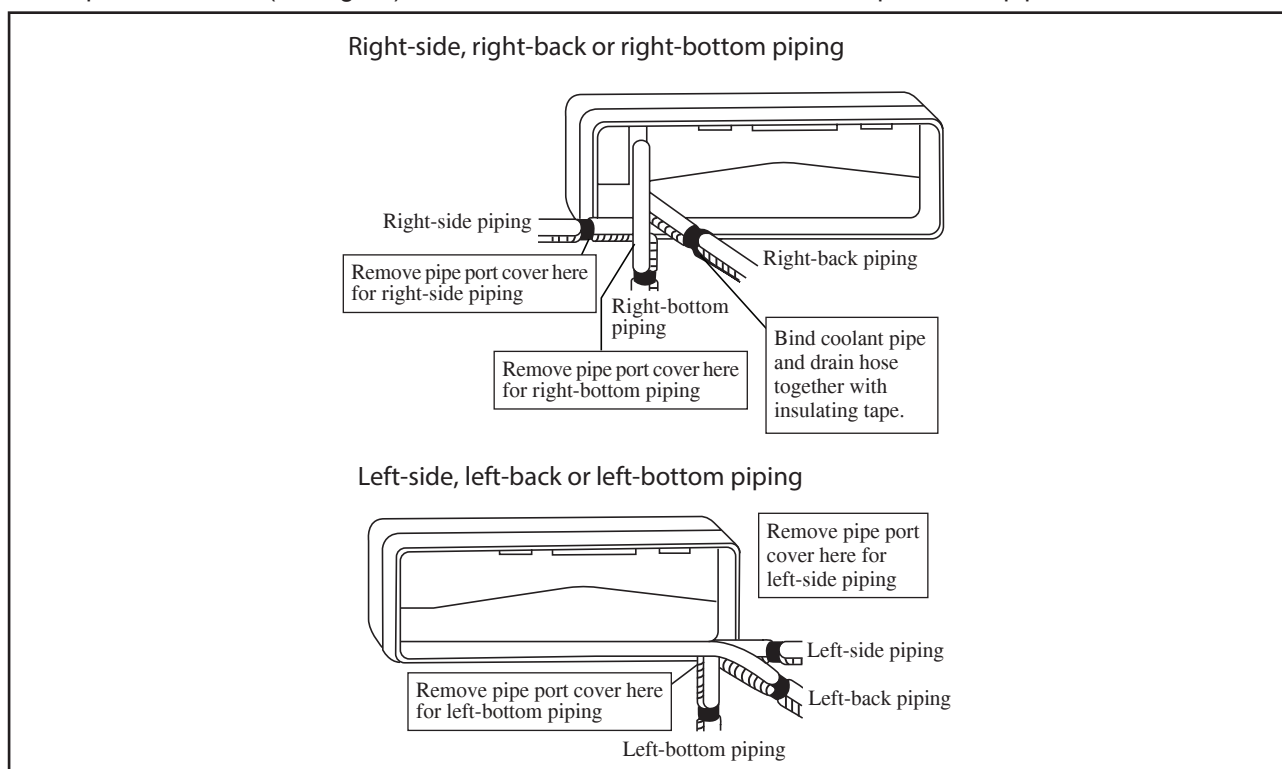
The Air Vent located inside the casing. Removed the casing and connect hose to the air vent while doing purging.



Caution

Ensure there is no water droplets go into the control box during purging process.

The water piping can be routed to the unit in a number of ways (left or right from the back of the unit), by using the cut-out holes on the casing of the unit (see figure). Bend the pipes carefully to the required position in order to align it with the holes. For the side and bottom, hold the bottom of the piping and then position it to the required direction (see figure). The condensation drain hose can be taped to the pipes.

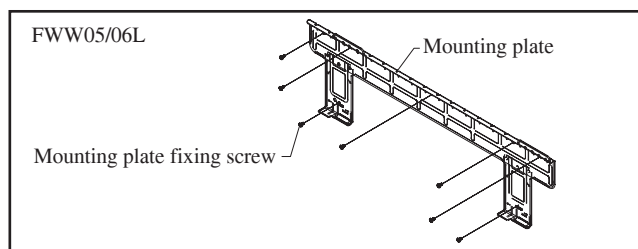
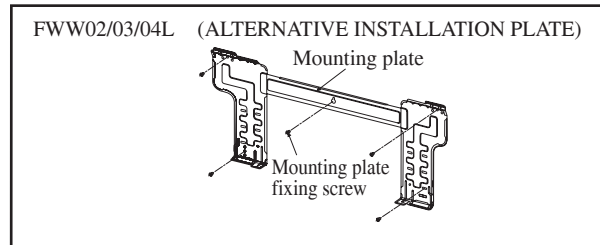
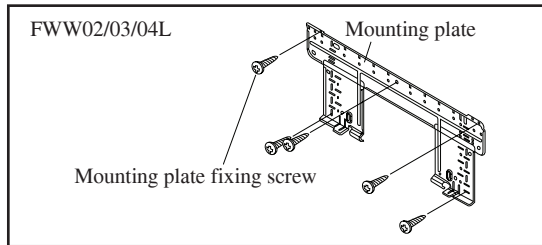


Mounting Installation Plate

Ensure that the wall is strong enough to withstand the weight of the unit. Otherwise, it is necessary to reinforce the wall with plates, beams or pillars.

Use the level gauge for horizontal mounting, and fix it with 5 suitable screws for AWM07/10/15JW and 7 suitable screws for AWM20/25JW.

In case the rear piping draws out, drill a hole 65mm in diameter with a cone drill, slightly lower on the outside wall (see figure).

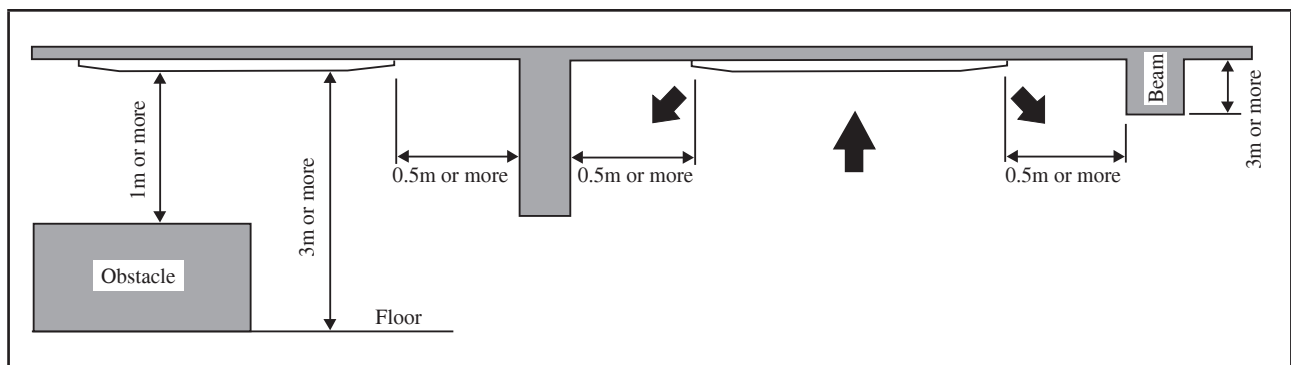


Model: ACK/ACM/ACC-C

1. Preliminary Site Survey

Be sure to read this manual before installing the air-conditioner indoor unit.

- Voltage supply fluctuation must not exceed +10% of rated voltage. Electricity supply lines must be independent of welding transformers which can cause high supply fluctuation.
- Ensure that the location is convenient for wiring, piping and drainage.
- Do not exert pressure on the resin parts when opening the unit or when moving it after opening.
- Do not move the unit from packaging while moving, until it reaches the installation site. Use safe material or protection plates when unpacking it or lifting it to avoid damage or scratches to the unit.



- Ensure a location where:
 - a) Drainage can be done easily.
 - b) Convenient for wiring and piping.
 - c) Which have enough space for installation and service work.
 - d) Where no risk of flammable gas leakage.
 - e) When free from any obstacles in path of cool air discharge and warm air return and must allow spreading of air throughout the room (near the center of the room).
 - f) Must be provided clearance for indoor unit from the wall and obstacles as shown in figure below.
 - g) The installation place must be strong enough to support a load 4 times the indoor unit weight to avoid amplifying noise and vibration.
 - h) The installation place (hanging ceiling surface) must be assuring levelness and the height in the ceiling is 350mm or more.
 - i) The indoor unit must be away from heat and steam sources (avoid installing it near an entrance).

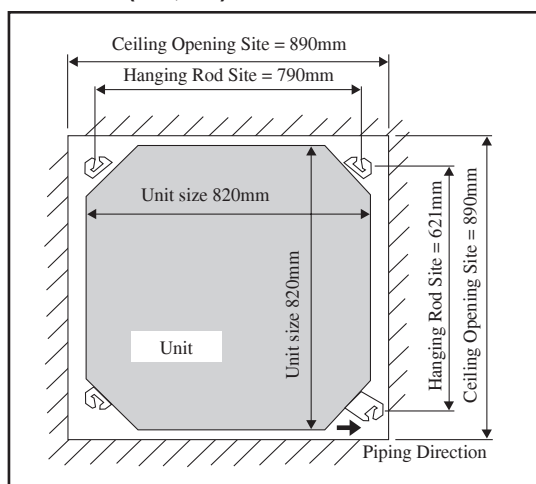
Unit Installation

- Measure and mark the position for the hanging rod. Drill the hole for the angle nut on the ceiling and fix the hanging rod.
- The installation template is extended according to temperature and humidity. Check on dimensions in use.
- The dimensions of the installation template are the same as those of the ceiling opening dimensions.
- Before ceiling laminating work is completed, be sure to fit the installation template to the indoor unit.

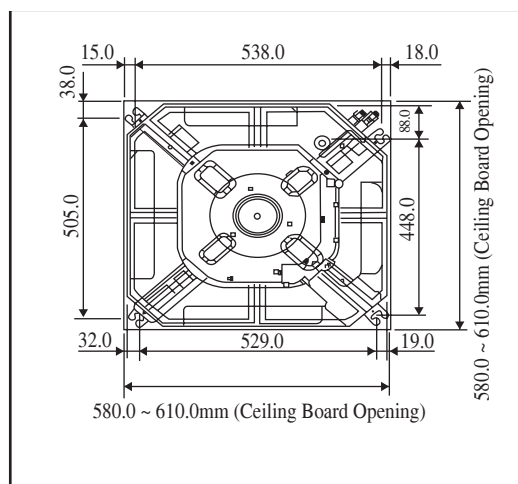
NOTE

Be sure to discuss the ceiling drilling work with the installers concerned.

ACK-EW (AC,DC)

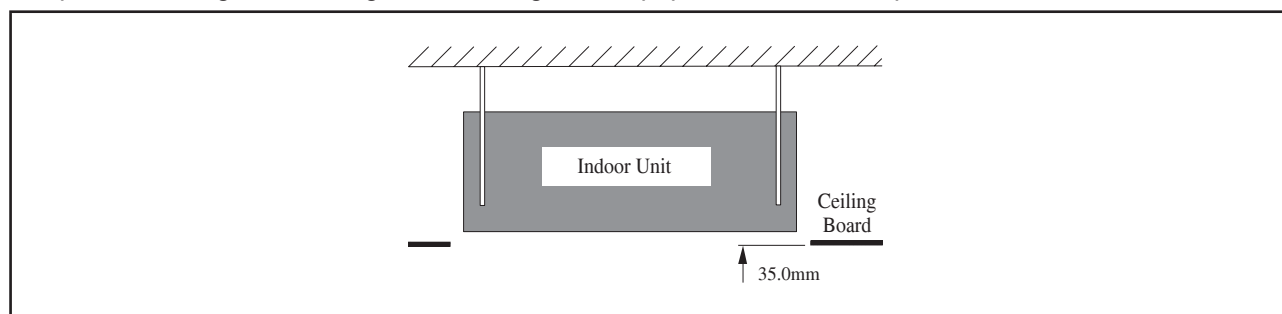


ACK-CW



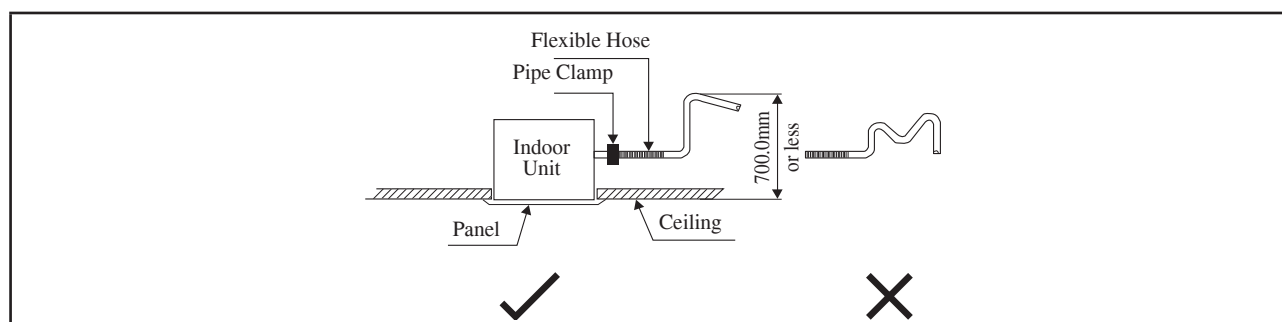
Unit Hanging

- Confirm the pitch of the hanging rod.
- Hold the unit and hang it on the hanging rod with the nut and washer.
- Adjust the unit height to 35.0mm between the indoor unit bottom surface and the ceiling surface.
- Confirm with a level gauge that the unit is installed horizontally and tighten the nut and bolt to prevent unit failing and vibration.
- Open the ceiling board along the outer edge of the paper installation template.



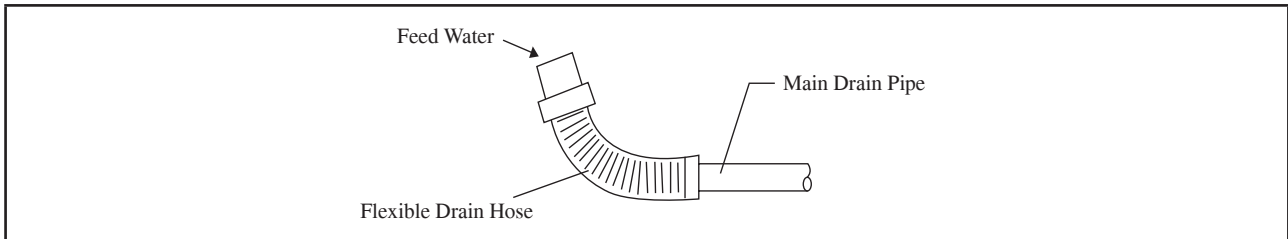
Drain Piping Work

- Drain pipe must be in downward gradient for smooth drainage.
- Avoid installing the drain pipe in up and down slope to prevent reversed water flow.
- During the drain pipe connection, be careful not to exert extra force on the drain connector at indoor unit.
- The outside diameter of the drain connection at the flexible drain hose is 20mm.
- Be sure to execute heat insulation (polyethylene foam with thickness more than 8.0mm) on the drain piping to avoid the condensed water dripping inside the room.



Drain Test

- Connect the main drain pipe to the flexible drain.
- Feed water from flexible drain hose to check the piping for leakage.
- When the test is completed, connect the flexible drain hose to the drain connector on the indoor unit.



NOTE

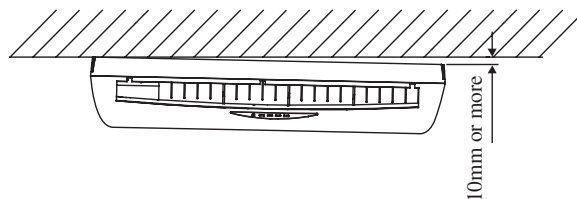
This Indoor Unit uses a drain pump for condensed water drainage. Install the unit horizontally to prevent water leakage or condensation around the air outlet.

Model: ACM15/20/25EW

Standard Mounting

- Ensure that the overhead supports are strong enough to hold the weight of the unit.
- Position the hanger rods (wall mounting bracket for floor standing), and check for its alignment with the unit.
- Also, check that the hangers are secured and the base of the fan coil unit is leveled in both horizontal directions, taking into account the gradient for drainage flow as recommended in Figure A.

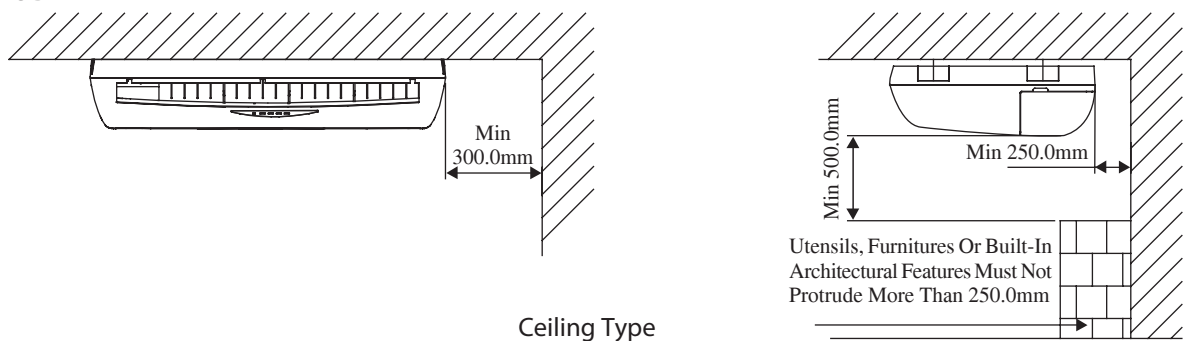
Figure A



Please ensure that the following steps are taken:

- Check the gradient for drainage flow as recommended in Figure A.
- Provide clearance for easy servicing and optimal air flow as shown in Figure B.
- The indoor unit must be installed such that there is no short circuit of the cool discharge air with the warm return air.
- Do not install the indoor unit where there is direct sunlight shining on the unit. The location should be suitable for piping and drainage installation. The unit must be a large distance away from the door.

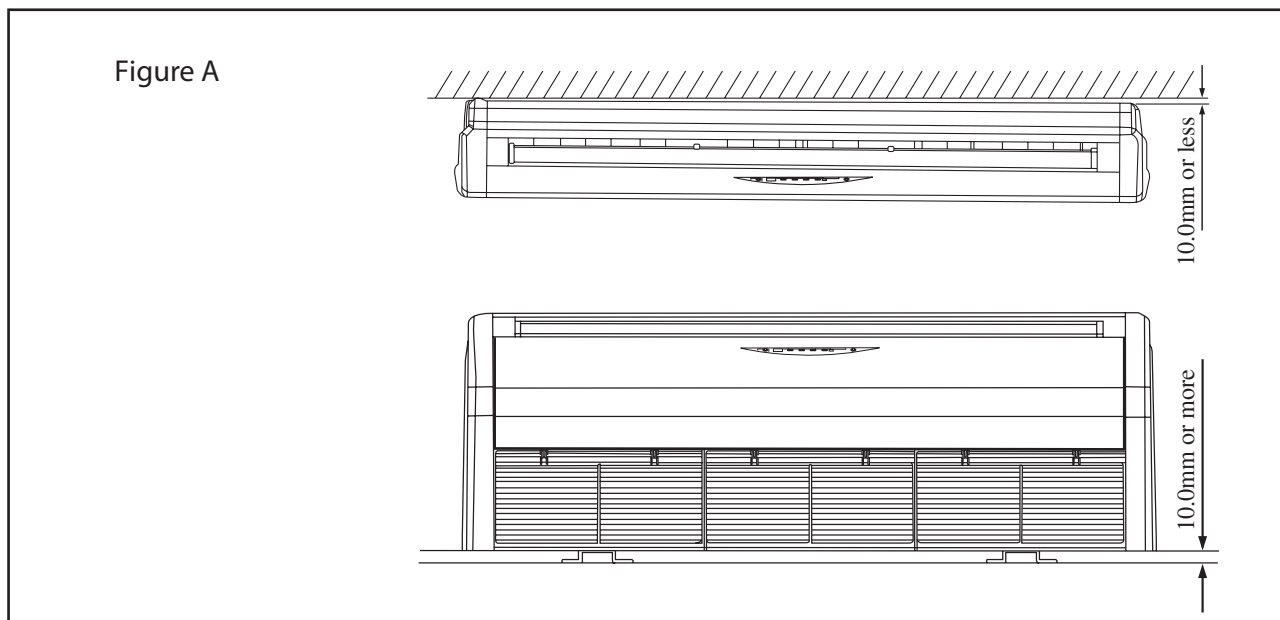
Figure B



Ceiling Type

Model: ACM30/40/50EW**Standard Mounting**

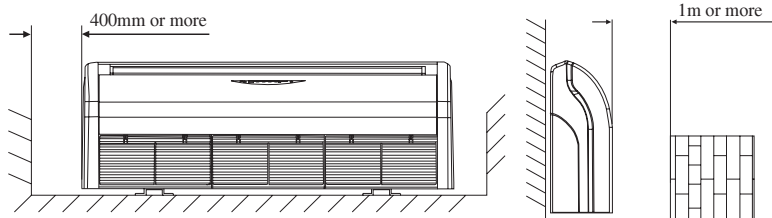
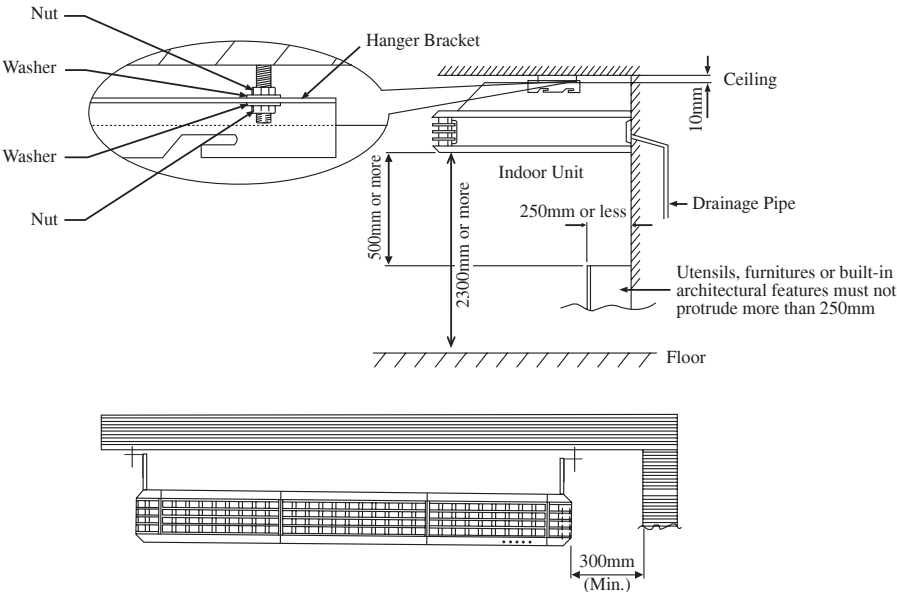
Ensure that the overhead supports are strong enough to hold the weight of the unit. Position the hanger rods (wall mounting bracket for floor standing), and check for its alignment with the unit. Also, check that the hangers are secured and the base of the fan coil unit is leveled in both horizontal directions, taking into account the gradient for drainage flow as recommended in Figure A.



Please ensure that the following steps are taken:

- Unit installation should be tilted at least 10mm as recommended in Figure A.
- The drain pipe slope shall be kept at least 1:100.
- Provide clearance for easy servicing and optimal air flow as shown in Figure B.
- The indoor unit must be installed such that there is no short circuit of the cool discharge air with the warm return air.
- Do not install the indoor unit where there is direct sunlight shining on the unit. The location should be suitable for piping and drainage installation. The unit must be a large distance away from the door.

Figure B



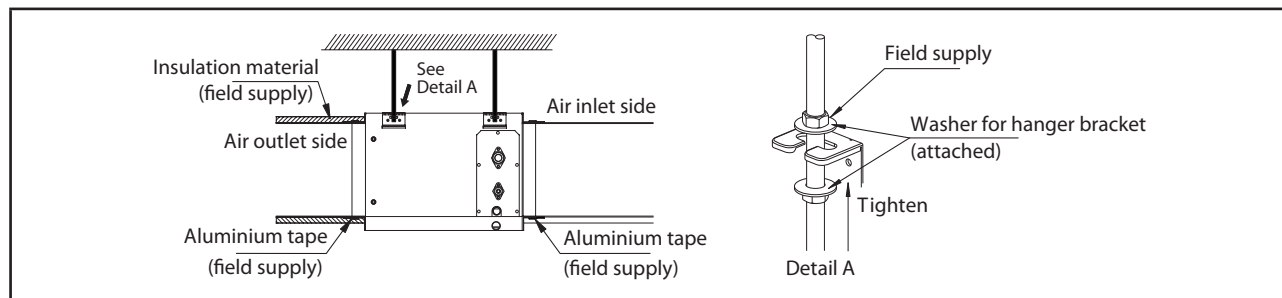
Floor Standing Type

Model: ACC-CW

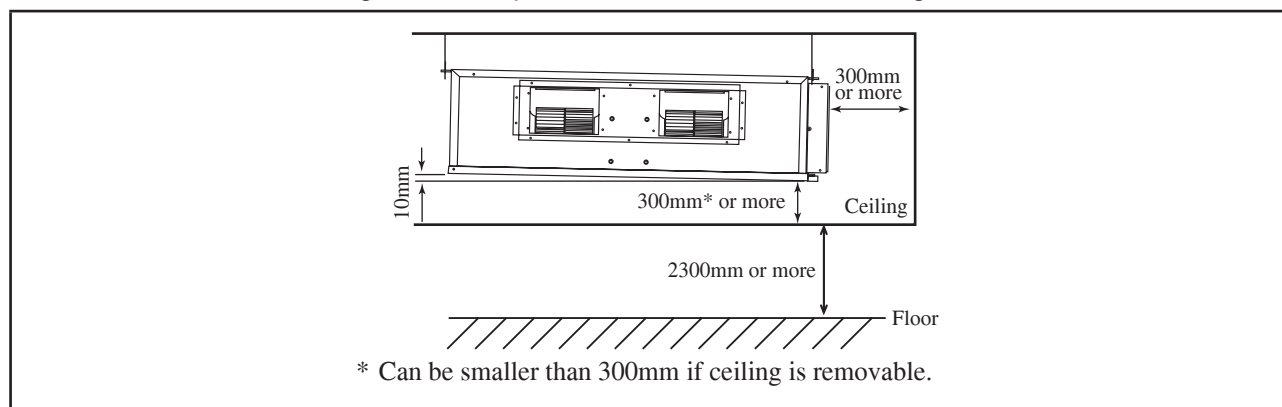
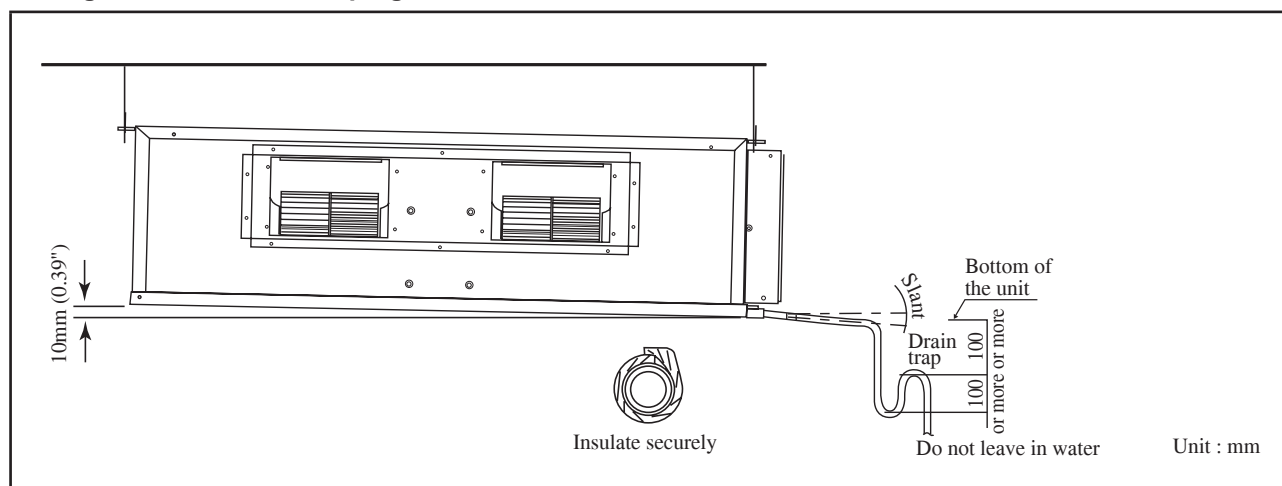
The indoor unit must be installed such that there is no short circuit of the cool discharge. Respect the installation clearance. Do not put the indoor unit where there is direct sunlight on unit. The location is suitable for piping and drainage and it must have a large distance between a door and unit.

Ceiling Concealed Mounting

- Use the hanger supplied with the unit.
- Make sure that the ceiling is sufficiently strong to withstand the weight.



Provide clearance for servicing ease and optimal air flow as shown in the diagram.

**Ceiling Concealed Drain Piping Work**

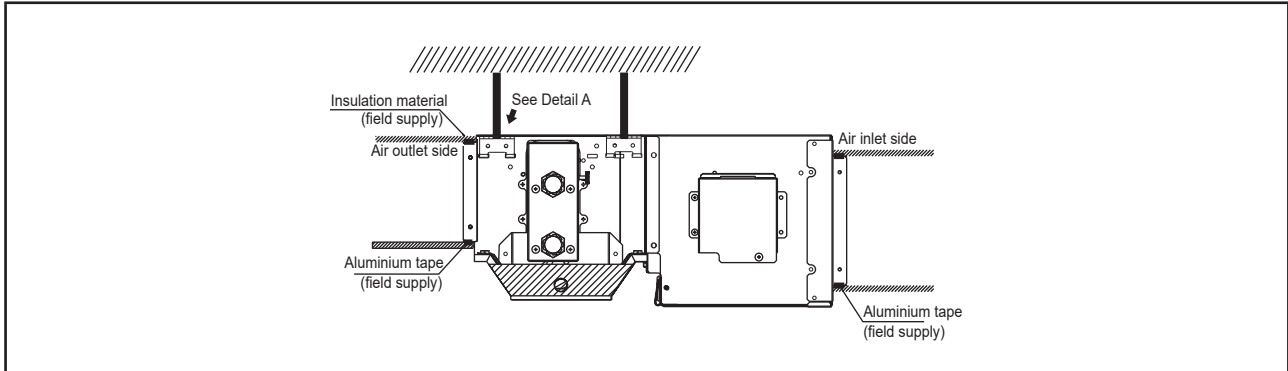
- The drain pipe must be installed as shown in the diagram (see diagram above) to avoid damage caused by leaks and condensation.
- For the best result, keep the piping as short as possible. Slant the piping at an angle to improve the flow.
- Ensure the drain pipe is securely insulated.
- It is necessary to provide a drain trap in the drain outlet to relieve pressure that exists within the unit compared to the outside atmospheric pressure when the unit is operating. The drain trap is to avoid possibility of splashes or an odor.
- Keep pipes as straight as possible for easy cleaning and to prevent the accumulation of dirt and debris.
- Conduct a water drainage test after the installation is completed. Make sure that the drainage flow is smooth.
- In humid environments, use an extra drain pan to cover the entire area of the indoor unit.

Model: ACC-FWD

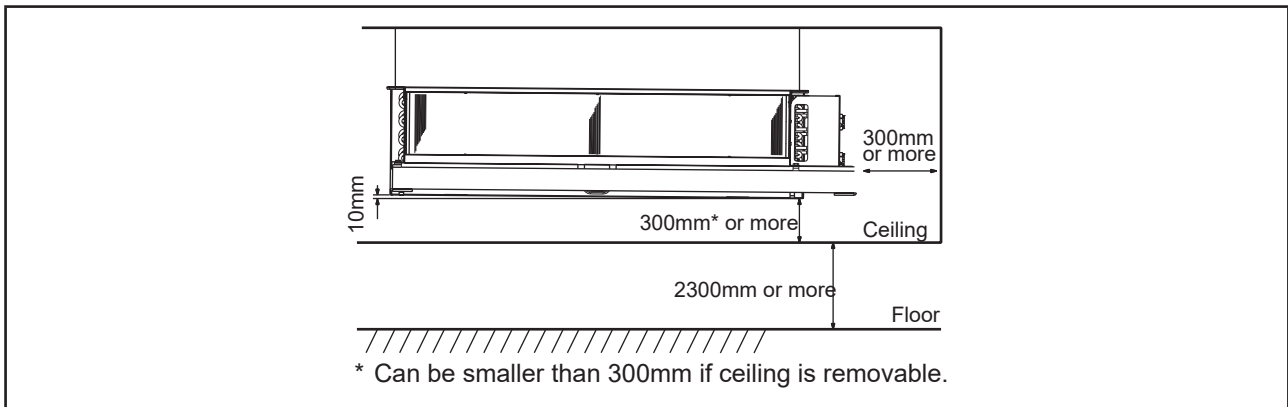
The indoor unit must be installed such that there is no short circuit of the cool discharge. Respect the installation clearance. Do not put the indoor unit where there is direct sunlight on unit. The location is suitable for piping and drainage and it must have a large distance between a door and unit.

Ceiling Concealed Mounting

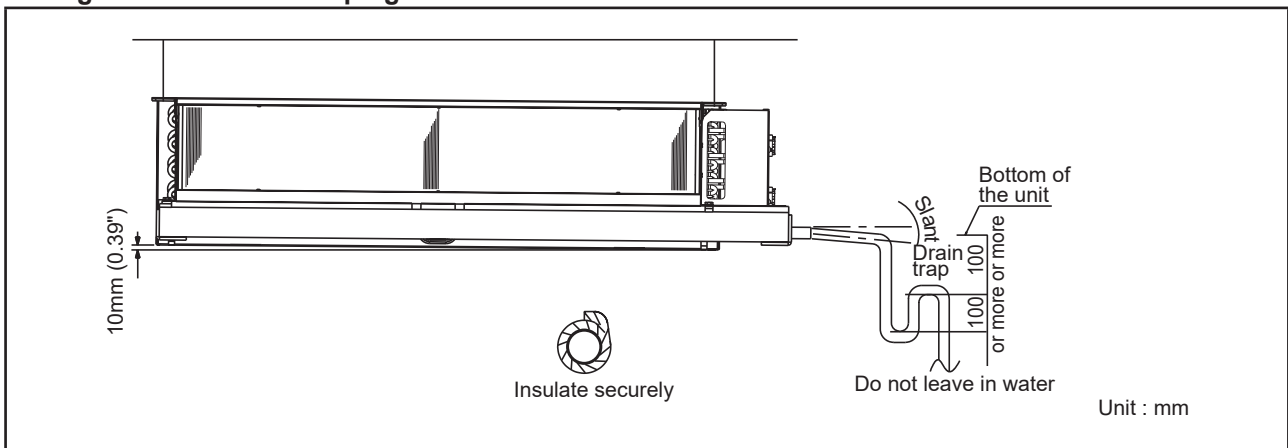
- Use the hanger supplied with the unit.
- Make sure that the ceiling is sufficiently strong to withstand the weight.



Provide clearance for servicing ease and optimal air flow as shown in the diagram.



Ceiling Concealed Drain Piping Work



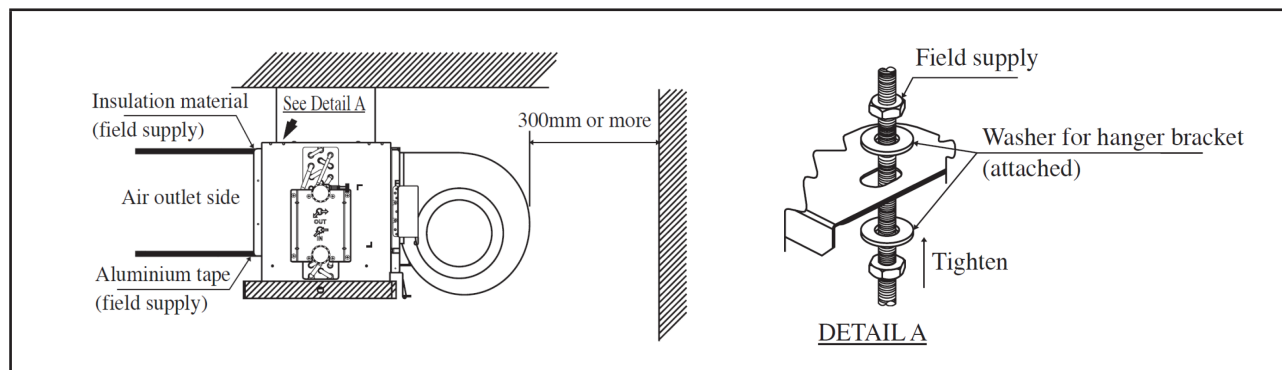
- The drain pipe must be installed as shown in the diagram (see diagram above) to avoid damage caused by leaks and condensation.
- For the best result, keep the piping as short as possible. Slant the piping at an angle to improve the flow.
- Ensure the drain pipe is securely insulated.
- It is necessary to provide a drain trap in the drain outlet to relieve pressure that exists within the unit compared to the outside atmospheric pressure when the unit is operating. The drain trap is to avoid possibility of splashes or an odor.
- Keep pipes as straight as possible for easy cleaning and to prevent the accumulation of dirt and debris.
- Conduct a water drainage test after the installation is completed. Make sure that the drainage flow is smooth.
- In humid environments, use an extra drain pan to cover the entire area of the indoor unit.

Model: ACC-GW (MSP , LSP)

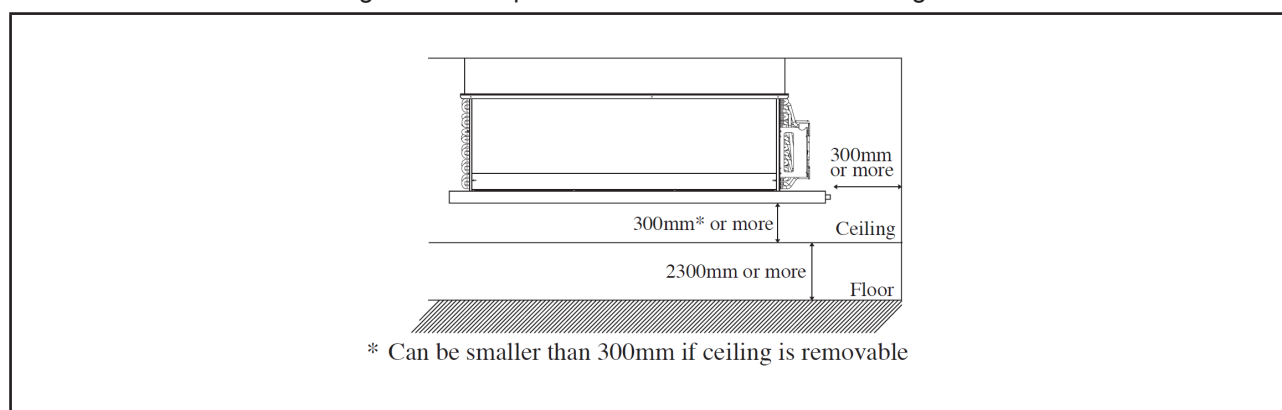
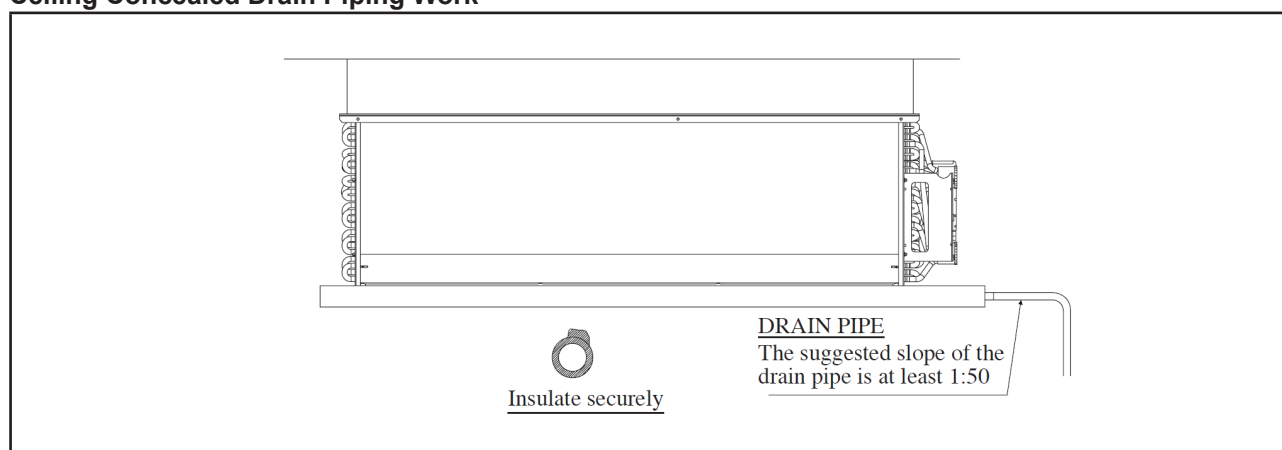
The indoor unit must be installed such that there is no short circuit of the cool discharge. Respect the installation clearance. Do not put the indoor unit where there is direct sunlight on unit. The location is suitable for piping and drainage and it must have a large distance between a door and unit.

Ceiling Concealed Mounting

- Use the hanger supplied with the unit.
- Make sure that the ceiling is sufficiently strong to withstand the weight.



Provide clearance for servicing ease and optimal air flow as shown in the diagram.

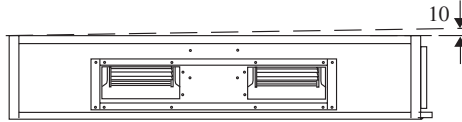
**Ceiling Concealed Drain Piping Work**

- The drain pipe must be installed as shown in the diagram (see diagram above) to avoid damage caused by leaks and condensation.
- For the best result, keep the piping as short as possible. Slant the piping at an angle to improve the flow.
- Ensure the drain pipe is securely insulated.
- It is necessary to provide a drain trap in the drain outlet to relieve pressure that exists within the unit compared to the outside atmospheric pressure when the unit is operating. The drain trap is to avoid possibility of splashes or an odor.
- Keep pipes as straight as possible for easy cleaning and to prevent the accumulation of dirt and debris.
- Conduct a water drainage test after the installation is completed. Make sure that the drainage flow is smooth.
- In humid environments, use an extra drain pan to cover the entire area of the indoor unit.

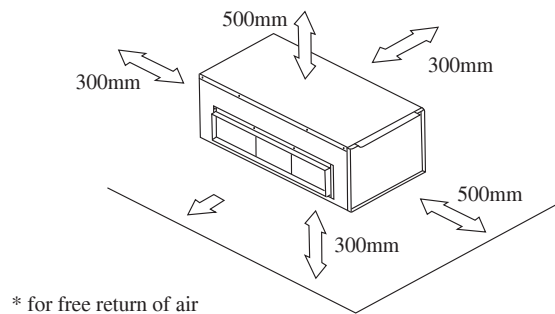
Model: ADB

Mounting

Ensure that the overhead supports are strong enough to hold the unit's weight. Position hanger rods and check for alignment with the unit. Check that hangers are secure and that the base of fan-coil unit is level in the two horizontal directions, taking into account the gradient recommended for drainage flow as shown. Check the gradient recommended for drainage flow as follow.



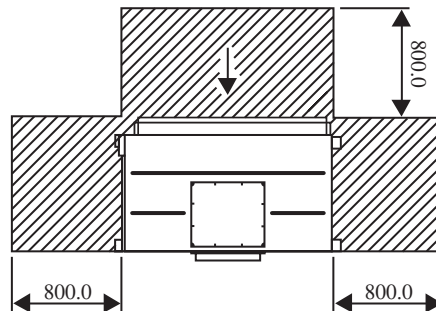
ADB20/25BW



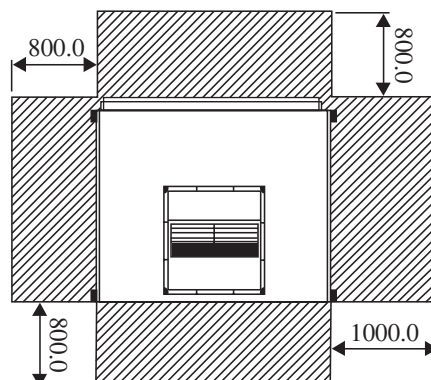
Provide clearance for servicing and optimal air flow as shown in the diagram.

The indoor unit must be installed such that there is no short circuit of cool discharge with air discharge. Respect the installation clearance.

ADB30/40BW (Horizontal)



ADB30/40BW (Vertical)



All dimensions in mm

Cable Size

Model	Unit	AWM / ACK / ACM
Power supply cable size*	mm2	1.5
Number of wire		3
Recommended fuse*	A	2

Model	Unit	ACC10CW	ACC15CW	ACC20CW	ACC25CW
Power supply cable size*	mm2	1.5	1.5	1.5	1.5
Number of wire		3	3	3	3
Recommended fuse*	A	1	1	1	2

Model	Unit	ACC30CW	ACC38/40/50/ 60CW	ACC06/09/15FWD	ACC18/24FWD
Power supply cable size*	mm2	1.5	1.5	1.5	1.5
Number of wire		3	3	5	5
Recommended fuse*	A	3	5	1	2

Model	Unit	ACC30FWD	ACC-GW	ADB75/100BW	ADB120/150BW
Power supply cable size*	mm2	1.5	1.0	1.5	1.5
Number of wire		5	5	3	4
Recommended fuse*	A	3	6	10	10

Important: * These values are for information only. They should be checked and selected to comply local or national codes and regulations. They are also subjected to the type of installation and size of conductor

Sound Data

Sound Pressure Level

Model	Speed	1/1 Octave A-Weighted Sound Pressure (dBA), ref 20μPa							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
AWM07JW	High	31	32	33	28	26	14	6	34	28
	Med	25	29	28	24	19	9	5	29	22
	Low	20	26	24	20	11	8	6	25	18
AWM10JW	High	30	33	33	32	28	17	8	35	31
	Med	26	29	30	27	21	11	7	30	25
	Low	19	25	25	21	14	6	6	25	19
AWM15JW	High	41	39	39	38	36	26	14	42	38
	Med	38	36	37	34	32	22	10	39	33
	Low	30	30	31	28	23	12	7	32	26
AWM20JW	High	37	38	38	39	33	22	11	42	38
	Med	33	35	35	35	29	17	8	38	34
	Low	29	33	32	31	23	12	7	34	30
AWM25JW	High	42	42	42	42	40	31	21	46	42
	Med	37	38	39	38	34	24	13	42	37
	Low	34	35	36	35	30	20	9	39	34

Microphone position: 1m in front and 0.8m below the vertical centre line of the unit.

Model	Speed	1/1 Octave A-Weighted Sound Pressure (dBA), ref 20μPa							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
ACK10CW	High	44	45	40	36	26	19	10	42	35
	Med	40	38	34	28	19	9	7	35	29
	Low	37	32	27	20	14	7	7	29	21
ACK15CW	High	48	48	44	39	31	27	15	45	39
	Med	42	42	36	30	22	13	7	38	31
	Low	39	36	28	20	15	6	6	30	23
ACK20CW	High	52	51	46	41	34	31	19	48	41
	Med	44	43	39	33	26	18	8	40	33
	Low	41	39	35	28	22	11	7	36	30

Microphone position: 1.4m below the face center of the air return of the unit.

Model	Speed	1/1 Octave A-Weighted Sound Pressure (dBA), ref 20μPa							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
ACK20EW	High	44	43	42	35	29	23	15	42	37
	Med	40	40	38	30	23	16	14	38	33
	Low	35	34	32	23	15	10	14	32	26
ACK25EW	High	48	47	45	39	34	28	17	46	40
	Med	44	42	42	34	28	21	10	42	37
	Low	39	37	36	26	19	10	6	35	31
ACK30EW	High	49	48	46	42	37	35	22	48	41
	Med	44	44	42	36	32	27	14	43	37
	Low	41	39	37	31	26	17	8	38	32
ACK40EW	High	51	49	49	45	37	36	24	50	45
	Med	48	46	47	40	33	31	18	47	43
	Low	44	42	43	35	28	23	10	43	38
ACK50EW	High	53	54	50	47	39	38	28	52	46
	Med	49	48	47	43	36	35	25	49	43
	Low	46	45	44	39	32	30	22	45	39

Microphone position: 1.4m/*1.5m below the face center of the air return of the unit.

Model	Speed	1/1 Octave A-Weighted Sound Pressure (dBA), ref 20μPa							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
ACM15EW	High	39	46	43	40	35	29	23	45	39
	Med	34	40	37	33	27	20	15	38	32
	Low	32	38	35	30	24	16	17	36	30
ACM20EW	High	42	48	45	43	38	32	26	48	42
	Med	38	43	42	38	33	26	18	43	37
	Low	35	40	38	33	28	20	11	39	33
ACM25EW	High	43	49	47	45	40	34	28	49	44
	Med	40	47	44	41	36	30	23	46	40
	Low	36	42	39	36	30	23	16	41	35
ACM30EW	High	41	46	44	44	42	35	28	48	43
	Med	41	45	42	43	41	33	26	47	42
	Low	38	44	39	40	37	29	24	44	39
ACM40EW	High	44	49	46	48	47	40	33	52	48
	Med	40	44	42	43	41	31	24	47	42
	Low	39	44	41	42	40	31	24	46	41
ACM50EW	High	48	51	49	47	44	41	31	52	47
	Med	45	48	47	45	43	38	28	50	44
	Low	44	47	46	44	41	37	28	49	43

Microphone position: 1m in front of the unit and 0.8m/*1m below the air discharge opening.

Model	Speed	1/1 Octave A-Weighted Sound Pressure (dBA), ref 20µPa							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
ACC10CW	High	43	35	35	30	26	18	13	36	30
	Med	43	34	34	28	25	17	12	35	29
	Low	42	31	31	27	22	14	9	33	25
ACC15CW	High	46	40	40	33	29	21	17	40	35
	Med	45	38	38	31	27	18	14	38	33
	Low	40	33	33	26	21	11	9	33	28
ACC20CW	High	47	41	43	35	31	24	19	42	38
	Med	47	41	41	34	31	23	18	41	36
	Low	47	39	39	33	29	21	16	40	34
ACC25CW	High	48	41	40	35	31	24	19	41	35
	Med	47	39	39	34	29	22	17	40	34
	Low	44	35	35	30	25	17	12	36	30
ACC30CW	High	50	45	43	42	37	31	26	46	41
	Med	45	40	40	38	32	26	20	42	37
	Low	42	36	37	33	28	22	15	38	32
ACC40CW	High	54	47	47	45	39	35	29	49	44
	Med	49	42	43	41	35	31	24	45	40
	Low	45	39	41	37	30	26	18	41	36
ACC50CW	High	54	49	49	48	43	37	32	52	47
	Med	53	47	46	47	40	35	29	50	46
	Low	51	45	44	44	36	32	26	47	43
ACC60CW	High	55	49	49	50	44	37	33	53	49
	Med	53	46	47	47	39	34	28	50	46
	Low	51	43	44	43	35	30	24	47	42

Microphone position: 1.5m below the centre of the unit.
 (Tested with 2m length duct at the air discharge outlet and air return inlet).

Model	Speed	1/1 Octave Sound Pressure Level (dB, reference 20mPa)							Overall (dBA)	Noise Criteria
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz		
ACC06FWD	High	41	37	38	38	30	23	13	40	37
	Med	43	36	37	37	28	21	12	39	36
	Low	39	35	34	33	24	16	5	36	32
ACC09FWD	High	41	41	39	35	32	26	18	40	34
	Med	41	40	38	35	31	25	17	39	34
	Low	41	38	37	34	29	23	15	37	33
ACC12FWD	High	43	41	40	37	33	26	18	41	36
	Med	45	41	39	36	32	25	16	40	35
	Low	45	38	36	33	28	20	9	37	32
ACC15FWD	High	44	42	43	38	34	29	20	42	38
	Med	43	42	42	38	34	28	20	41	37
	Low	41	40	40	36	31	25	15	39	35
ACC18FWD	High	45	44	44	41	34	28	21	45	40
	Med	46	44	44	41	34	28	20	44	40
	Low	45	42	42	38	31	26	16	41	37
ACC24FWD	High	52	49	46	47	36	28	21	47	46
	Med	51	47	46	46	35	27	20	46	45
	Low	50	43	44	45	33	25	17	45	44
ACC30FWD	High	51	47	46	45	39	32	23	48	44
	Med	51	48	46	44	38	31	22	47	44
	Low	49	45	44	43	36	29	19	45	42

Microphone position: 1.5m below the centre of the unit.

(Tested with 2m length duct at the air discharge outlet and 1m length of air return duct).

Model (LSP)	Speed	1/1 Octave Sound Pressure Level (dB, reference 20mPa)							Overall (dBA)	Noise Criteria
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz		
ACC02GW	High	41	33	29	25	17	10	9	31	23
	Med	35	28	24	19	9	8	8	26	0
	Low	29	23	18	12	8	8	7	20	0
ACC03GW	High	36	34	29	28	18	11	9	32	26
	Med	28	27	23	19	9	8	8	25	0
	Low	26	20	16	15	8	8	8	20	0
ACC04GW	High	40	36	32	30	23	16	9	35	29
	Med	35	31	27	25	16	9	8	29	23
	Low	27	24	19	13	9	9	8	21	0
ACC06GW	High	45	40	35	32	28	22	13	38	31
	Med	43	36	32	29	25	19	11	35	28
	Low	40	30	28	25	18	10	8	30	23
ACC08GW	High	45	41	37	33	28	20	12	39	32
	Med	41	37	32	27	21	12	11	34	26
	Low	35	29	25	18	11	10	10	26	0
ACC10GW	High	47	44	38	35	30	22	16	41	34
	Med	45	39	35	30	24	15	9	37	30
	Low	44	33	27	22	15	8	8	31	25
ACC12GW	High	47	43	40	37	32	23	15	42	36
	Med	44	40	37	34	28	19	9	39	33
	Low	41	36	33	30	23	12	8	35	29

Microphone position: 1.5m below the centre of the unit.

(Tested with 2m length duct at the air discharge outlet and 1m length of air return duct).

Model (MSP)	Speed	1/1 Octave Sound Pressure Level (dB, reference 20mPa)							Overall (dBA)	Noise Criteria
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz		
ACC03GW	High	37	36	34	30	23	15	5	35	29
	Med	32	30	28	24	16	5	5	29	22
	Low	24	22	20	12	7	7	6	20	-
ACC04GW	High	37	37	36	32	28	21	12	37	31
	Med	32	31	30	26	20	12	5	31	24
	Low	25	22	22	15	8	5	5	22	-
ACC06GW	High	46	41	39	36	30	24	15	41	35
	Med	41	37	37	32	25	18	9	37	32
	Low	38	32	31	25	17	9	4	31	25
ACC08GW	High	47	43	41	38	32	26	15	43	37
	Med	43	38	36	32	25	17	6	37	31
	Low	37	31	30	24	16	6	5	30	24
ACC10GW	High	48	44	42	39	33	26	18	44	38
	Med	47	41	38	34	28	20	10	40	33
	Low	43	33	32	26	18	7	5	33	26
ACC12GW	High	48	44	43	39	33	26	18	44	38
	Med	43	40	39	35	29	21	12	40	34
	Low	40	38	36	32	24	15	6	37	31
ACC14GW	High	52	46	47	41	36	31	26	47	43
	Med	48	42	43	36	31	26	19	43	38
	Low	41	35	35	28	23	15	7	35	30
ACC16GW	High	55	48	47	42	38	34	28	48	43
	Med	50	42	44	38	33	28	21	44	39
	Low	43	36	38	29	25	17	7	37	33
ACC18GW	High	57	51	46	42	38	34	30	49	41
	Med	55	45	42	38	36	29	24	45	39
	Low	52	39	35	30	26	20	13	39	35
ACC20GW	High	55	52	49	43	38	36	31	50	45
	Med	52	48	44	39	35	31	26	46	39
	Low	46	39	37	31	26	20	13	38	32

Microphone position: 1.5m below the centre of the unit.

(Tested with 2m length duct at the air discharge outlet and 1m length of air return duct).

Model	Speed	1/1 Octave A-Weighted Sound Pressure (dBA), ref 20μPa							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
ADB075BW	High	57	50	47	44	40	35	24	50	43
	Med	57	46	44	40	35	30	17	46	41
	Low	48	42	41	35	30	24	6	42	36
ADB100BW	High	57	53	50	50	44	40	31	54	49
	Med	55	51	49	48	42	38	28	52	47
	Low	54	50	48	46	40	35	25	50	45
ADB125BW	High	57	55	56	53	51	46	38	58	53
ADB150BW	High	57	55	56	53	51	46	38	58	53

Microphone position: 1m in front of the unit and center of the unit.

1m away from every side of the unit and 1m above floor level

Sound Power Level

Model	Speed	1/1 Octave Sound Power Level (dB, reference 1pW)							Overall A (dBA)
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
AWM07JW	High	40	43	44	41	36	23	19	45
	Med	39	40	40	37	29	20	28	41
	Low	38	37	35	32	21	16	23	36
AWM10JW	High	48	45	46	44	38	28	20	48
	Med	48	41	42	40	32	18	19	44
	Low	45	37	38	35	24	14	18	39
AWM15JW	High	48	50	52	51	46	38	26	55
	Med	45	47	49	47	41	32	22	50
	Low	43	42	44	41	34	22	18	45
AWM20JW	High	50	51	53	51	42	33	20	55
	Med	47	49	50	48	38	27	17	51
	Low	45	46	47	44	33	22	17	47
AWM25JW	High	53	55	55	55	50	40	26	59
	Med	48	51	52	50	42	33	21	54
	Low	45	48	50	47	38	29	18	51

Measured In Reverberation Chamber

Model	Speed	1/1 Octave Sound Power Level (dB, reference 1pW)							Overall A (dBA)
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
ACK10CW	High	53	56	49	43	35	28	21	52
	Med	47	49	42	35	26	20	19	45
	Low	43	44	36	27	19	14	19	39
ACK15CW	High	56	58	55	50	42	38	29	56
	Med	50	51	48	41	32	26	20	49
	Low	47	49	45	37	27	20	19	45
ACK20CW	High	56	58	55	50	42	38	29	56
	Med	50	51	48	41	32	26	20	49
	Low	47	49	45	37	27	20	19	45

Measured In Reverberation Chamber

Model	Speed	1/1 Octave Sound Power Level (dB, reference 1pW)							Overall A (dBA)
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
ACK20EW	High	53	54	52	45	35	31	19	52
	Med	50	51	48	39	29	23	17	47
	Low	46	45	42	32	22	14	17	41
ACK25EW	High	58	58	55	48	39	37	25	55
	Med	53	53	51	43	33	29	18	51
	Low	49	48	45	36	28	21	17	45
ACK30EW	High	59	61	56	51	43	44	31	58
	Med	54	55	52	46	38	36	23	53
	Low	50	50	47	40	32	26	17	47
ACK40EW	High	60	60	58	54	45	45	33	59
	Med	57	57	56	50	41	40	26	56
	Low	53	53	51	44	35	32	19	51
ACK50EW	High	64	66	61	55	48	48	37	62
	Med	59	60	57	52	44	44	32	58
	Low	56	56	54	48	40	38	25	55

Measured In Reverberation Chamber

Model	Speed	1/1 Octave Sound Power Level (dB, reference 1pW)							Overall A (dBA)
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
ACM15EW	High	51	58	55	52	47	41	35	62
	Med	47	52	49	45	39	32	27	55
	Low	44	50	47	42	36	28	29	53
ACM20EW	High	54	60	58	55	50	44	38	63
	Med	50	55	54	50	45	38	30	59
	Low	47	52	20	45	40	32	23	56
ACM25EW	High	55	61	59	57	52	46	41	66
	Med	52	59	56	53	48	42	35	62
	Low	48	54	52	48	42	35	28	58
ACM30EW	High	62	65	60	59	55	50	43	64
	Med	58	63	57	57	52	46	39	61
	Low	56	60	54	54	48	42	34	58
ACM40EW	High	65	66	61	60	56	50	44	65
	Med	59	63	58	57	51	45	39	61
	Low	57	60	55	54	48	41	34	58
ACM50EW	High	61	66	61	61	56	52	45	65
	Med	60	64	60	58	54	48	41	63
	Low	57	63	57	56	51	45	40	61

Measured In Reverberation Chamber

Model	Speed	1/1 Octave Sound Power Level (dB, reference 1pW)							Overall A (dBA)
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
ACC10CW	High	57	54	52	52	51	46	44	57
	Med	54	51	50	49	48	43	39	54
	Low	51	48	47	46	44	39	35	51
ACC15CW	High	60	58	57	56	54	48	44	61
	Med	56	55	54	53	50	44	40	58
	Low	51	50	49	48	44	37	34	52
ACC20CW	High	63	62	61	61	59	55	51	65
	Med	61	61	59	60	58	53	49	64
	Low	57	56	56	56	53	48	44	60
ACC25CW	High	63	62	61	62	59	56	53	66
	Med	61	60	59	60	57	53	50	64
	Low	58	57	56	57	54	49	47	61
ACC30CW	High	65	66	68	69	65	63	60	73
	Med	61	62	64	65	61	58	55	69
	Low	56	58	60	61	57	53	49	64
ACC38CW	High	70	70	71	72	68	66	64	76
	Med	67	67	68	70	65	62	60	73
	Low	65	64	65	66	61	58	56	70
ACC40CW	High	65	68	70	72	68	66	64	76
	Med	65	65	67	68	64	62	59	72
	Low	59	61	63	64	60	59	54	68
ACC50CW	High	67	69	71	72	69	66	64	76
	Med	66	66	69	69	66	63	61	73
	Low	63	64	66	67	62	60	57	70
ACC60CW	High	69	70	72	74	71	69	68	78
	Med	69	68	70	71	67	65	63	75
	Low	64	65	67	67	63	61	59	71

Measured In Reverberation Chamber

Model (LSP)	Speed	1/1 Octave Sound Power Level (dB, reference 1pW)							Overall A (dBA)
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
ACC02GW	High	61	52	54	54	47	41	32	57
	Med	53	49	51	50	42	35	29	53
	Low	47	45	46	44	35	26	21	47
ACC03GW	High	56	55	57	57	51	47	37	60
	Med	55	51	52	51	45	39	28	55
	Low	49	43	44	41	33	24	23	45
ACC04GW	High	58	58	59	59	54	49	40	62
	Med	55	55	56	55	49	43	33	58
	Low	47	47	47	44	37	28	21	48
ACC06GW	High	60	60	60	59	54	51	44	63
	Med	59	58	58	57	52	48	40	61
	Low	54	54	54	53	46	42	33	56
ACC08GW	High	60	60	60	58	53	49	41	62
	Med	57	56	56	55	48	43	34	58
	Low	50	50	50	47	39	32	25	51
ACC10GW	High	62	62	62	61	57	53	46	65
	Med	59	59	60	59	53	48	41	62
	Low	54	54	55	54	47	41	31	57
ACC12GW	High	64	62	62	61	56	52	44	65
	Med	61	60	60	58	52	48	40	62
	Low	58	56	57	54	48	42	33	58

Measured In Reverberation Chamber

Model (MSP)	Speed	1/1 Octave Sound Power Level (dB, reference 1pW)							Overall A (dBA)
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
ACC03GW	High	55	55	58	58	53	48	40	61
	Med	50	51	53	52	47	41	32	56
	Low	44	43	45	41	34	27	27	46
ACC04GW	High	58	58	59	58	54	50	43	62
	Med	54	54	55	54	49	44	36	58
	Low	47	45	47	45	37	30	27	48
ACC06GW	High	60	60	62	61	56	52	45	65
	Med	57	58	60	59	53	48	41	62
	Low	54	54	56	55	48	42	34	58
ACC08GW	High	61	62	62	62	57	52	45	65
	Med	57	58	59	58	52	47	39	61
	Low	52	51	53	51	43	37	30	54
ACC10GW	High	61	63	64	65	60	55	49	68
	Med	58	60	61	61	56	51	43	64
	Low	53	54	56	55	49	42	34	58
ACC12GW	High	73	65	65	64	59	55	50	68
	Med	65	61	61	61	56	50	42	64
	Low	61	58	59	58	52	46	37	61
ACC14GW	High	68	70	69	68	63	62	60	72
	Med	66	65	65	64	59	56	52	68
	Low	59	55	58	55	50	45	38	59
ACC16GW	High	72	72	69	68	64	63	61	73
	Med	70	68	66	64	60	59	55	69
	Low	58	58	58	56	52	48	42	60
ACC18GW	High	71	73	72	71	66	65	63	75
	Med	68	69	69	67	62	60	58	71
	Low	63	62	62	60	55	52	48	64
ACC20GW	High	71	73	73	72	67	66	65	76
	Med	68	70	70	68	62	62	60	72
	Low	61	62	62	60	55	52	48	64

Measured In Reverberation Chamber

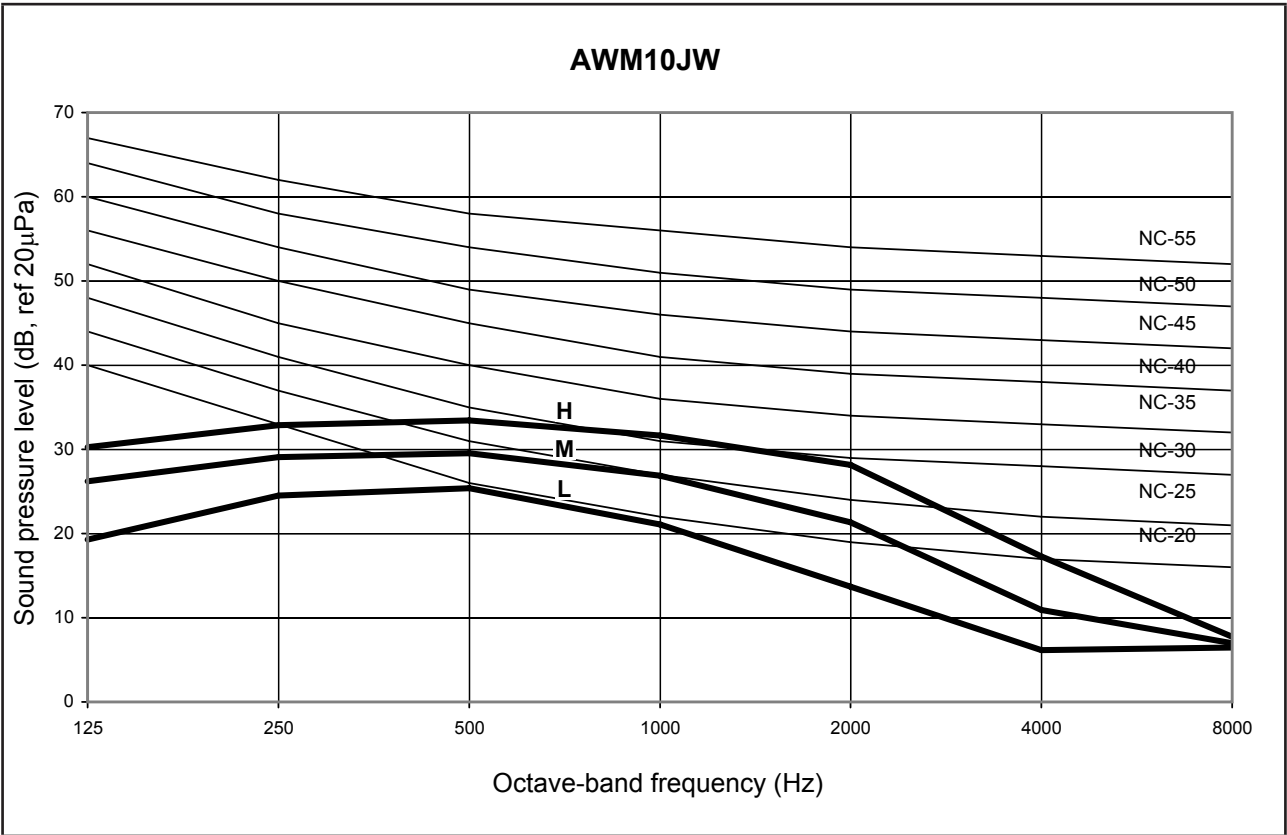
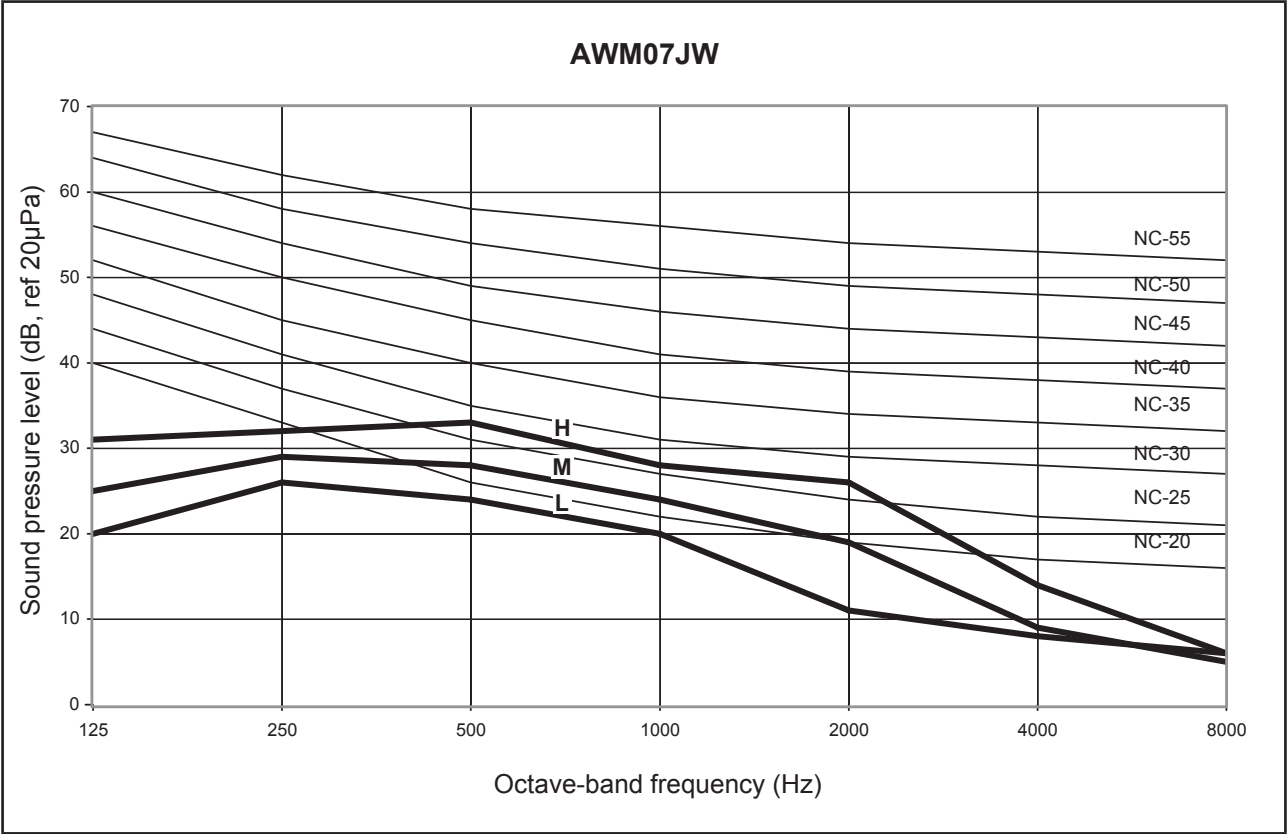
Model	Speed	1/1 Octave Sound Power Level (dB, reference 1pW)							Overall A (dBA)
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
ACC06FWD	High	56	59	59	55	50	45	38	61
	Med	57	58	58	54	49	44	37	60
	Low	54	54	54	50	44	38	31	56
ACC09FWD	High	59	61	60	57	55	50	42	63
	Med	59	61	59	56	53	48	40	62
	Low	58	59	58	54	51	45	38	60
ACC12FWD	High	59	61	61	58	54	49	42	64
	Med	60	60	60	57	53	48	41	63
	Low	60	56	56	53	49	42	34	59
ACC15FWD	High	61	62	63	60	57	52	46	66
	Med	60	62	62	60	57	52	45	66
	Low	57	58	59	57	53	47	39	62
ACC18FWD	High	63	65	65	62	56	51	46	67
	Med	62	64	64	61	55	51	45	66
	Low	58	60	61	57	51	46	39	63
ACC24FWD	High	66	66	65	62	58	53	47	68
	Med	67	65	64	61	57	52	47	67
	Low	64	65	63	60	55	49	44	65
ACC30FWD	High	66	67	67	64	61	56	50	70
	Med	65	66	67	64	60	55	49	69
	Low	63	64	64	62	57	52	46	67

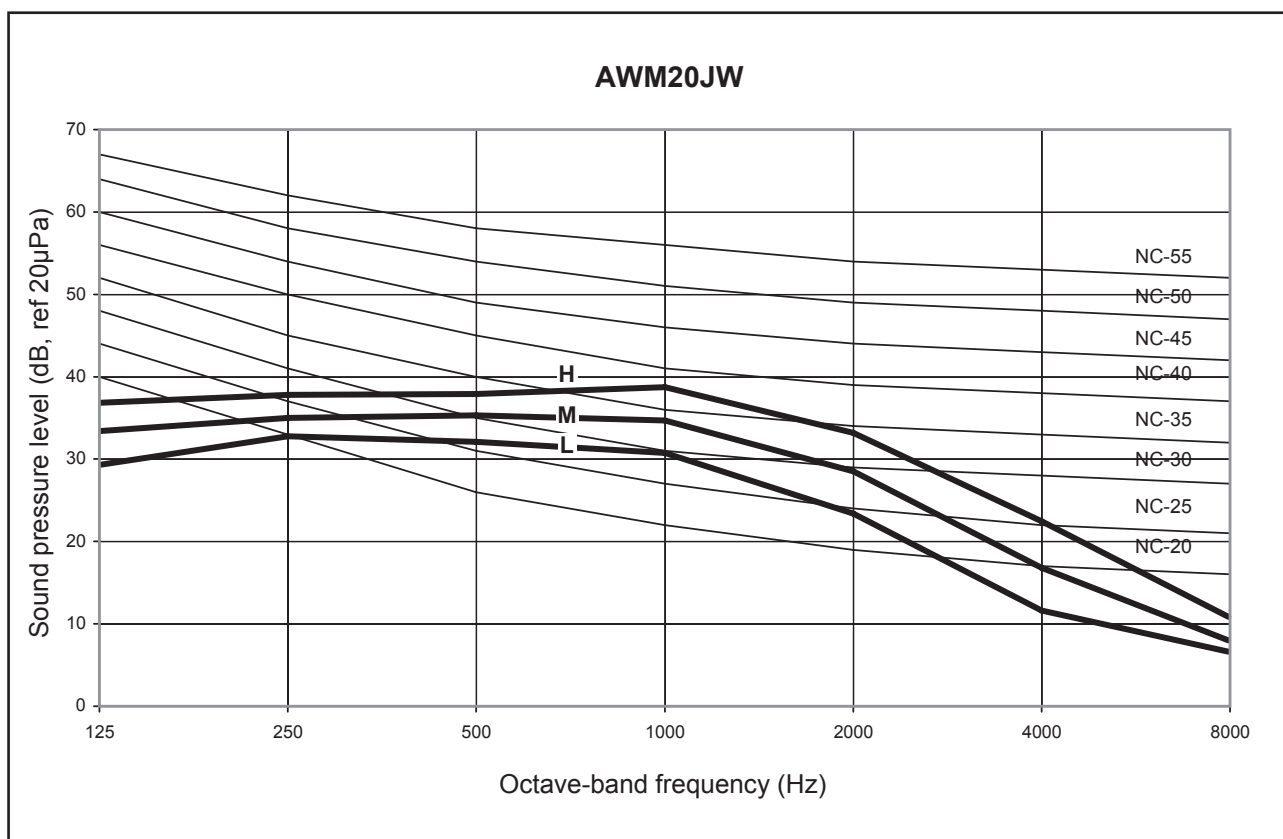
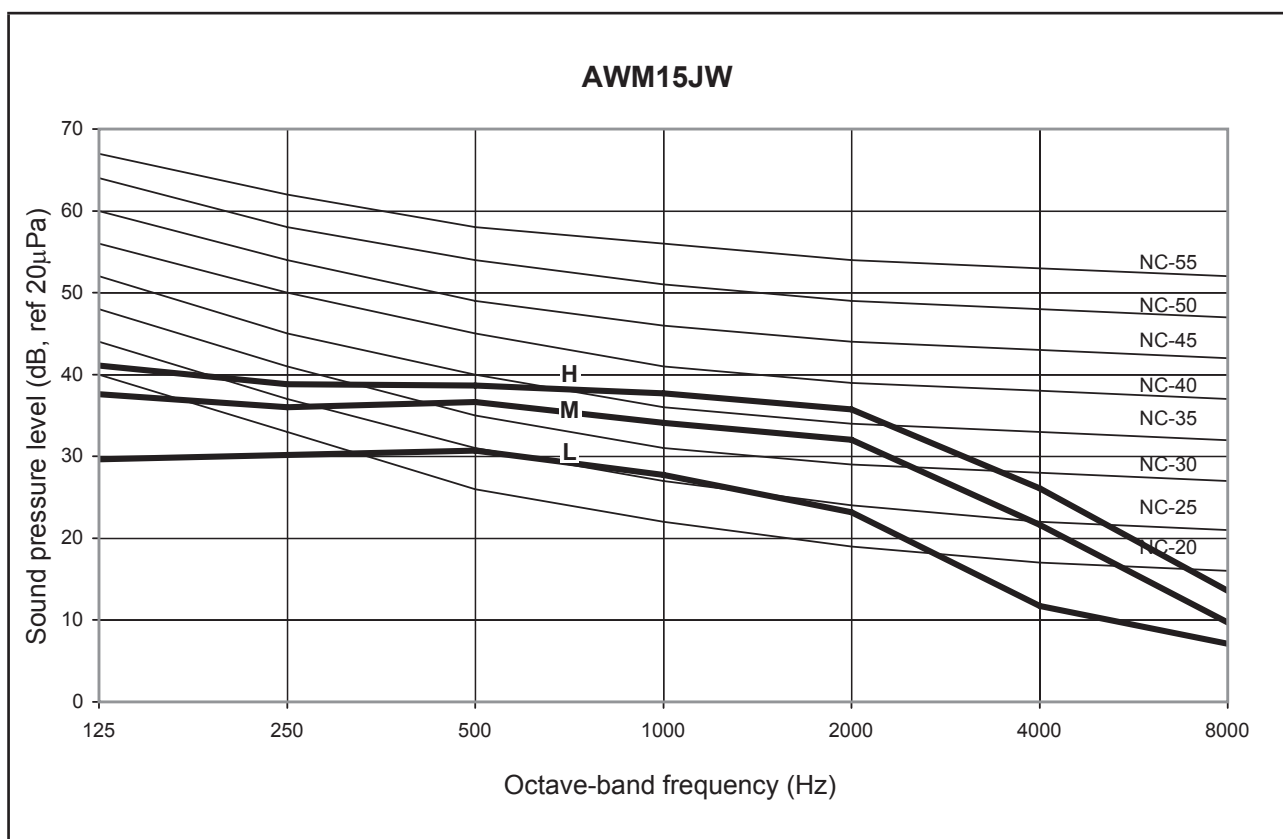
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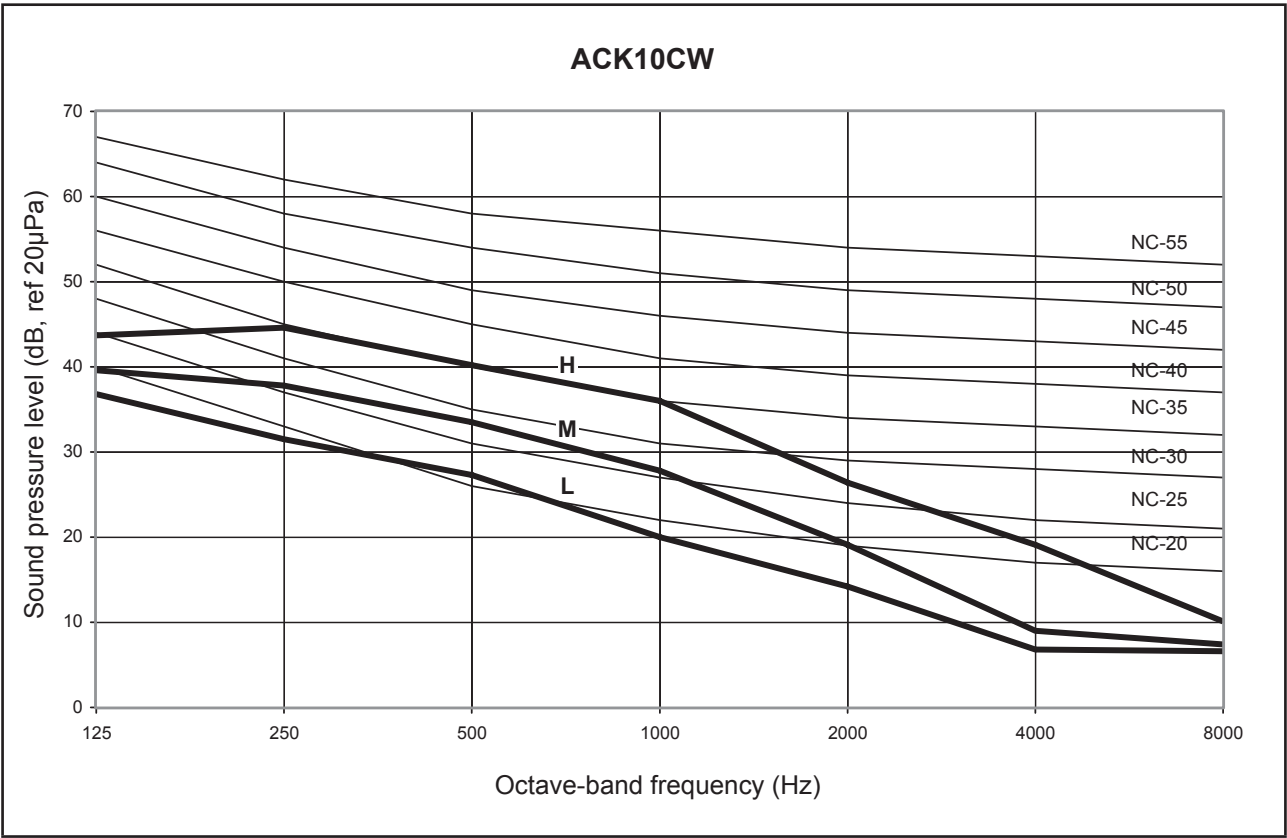
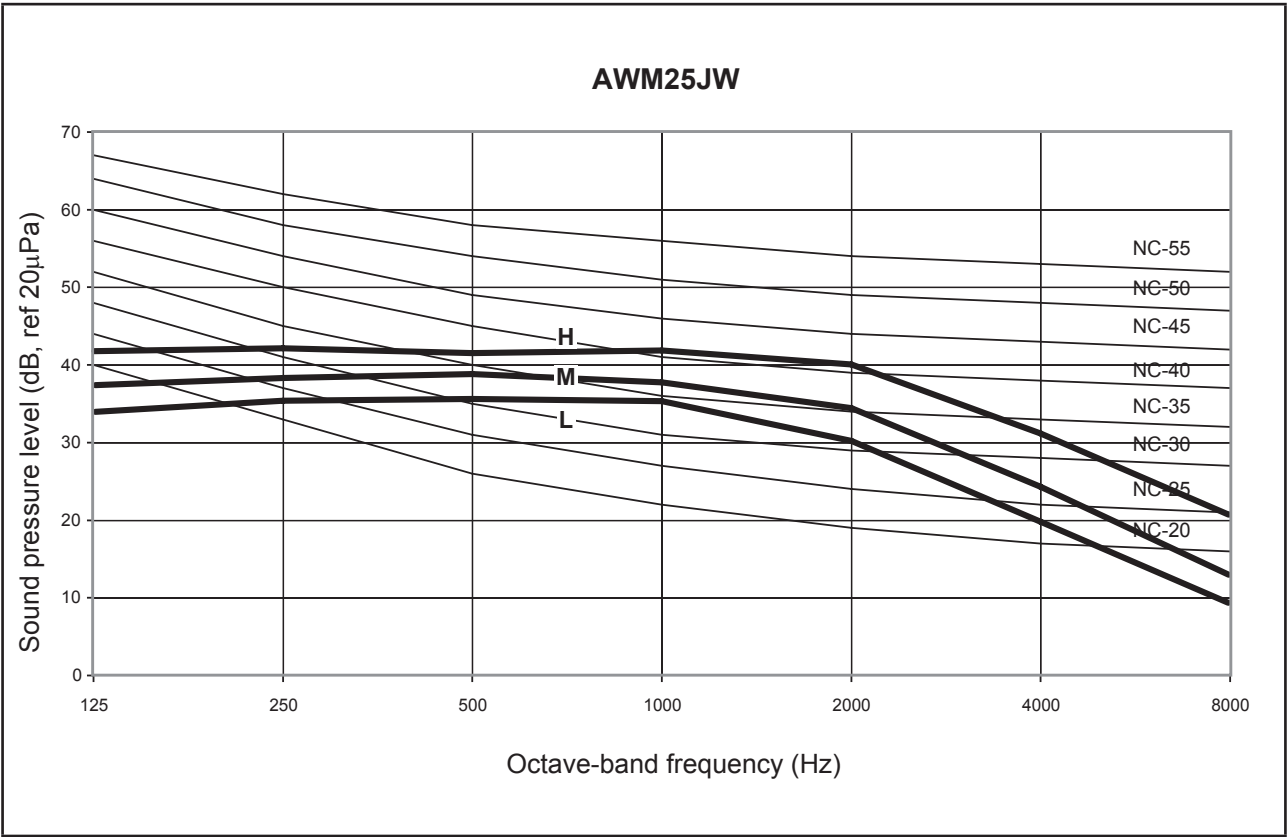
Model	Speed	1/1 Octave Sound Power Level (dB, reference 1pW)							Overall A (dBA)
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
ADB075BW	High	68	67	72	70	65	65	57	74
	Med	64	64	68	65	61	59	51	69
	Low	61	60	63	60	56	53	43	65
ADB100BW	High	71	71	74	74	70	70	63	78
	Med	70	69	73	72	68	68	60	76
	Low	67	67	71	69	65	64	56	73
ADB125BW	High	75	76	75	72	69	65	60	77
ADB150BW	High	75	76	75	72	69	65	60	77

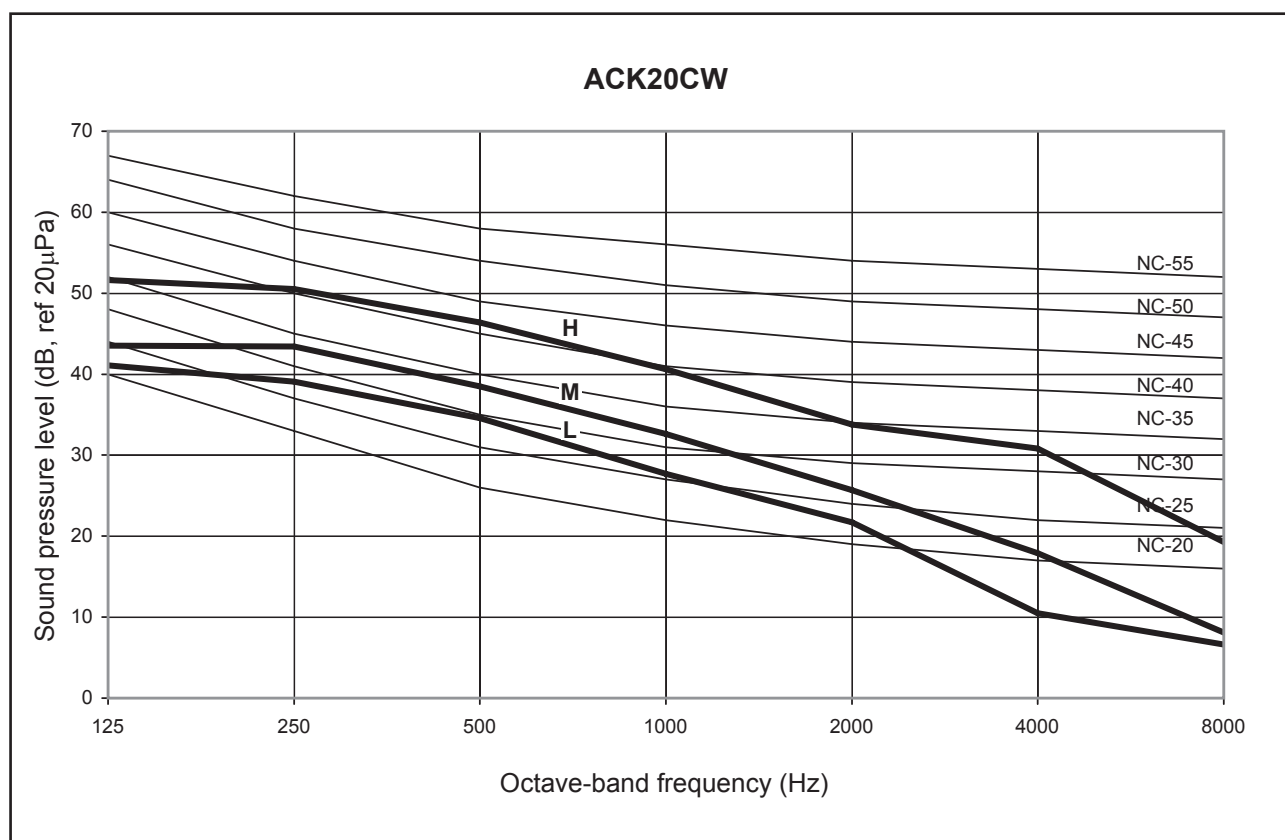
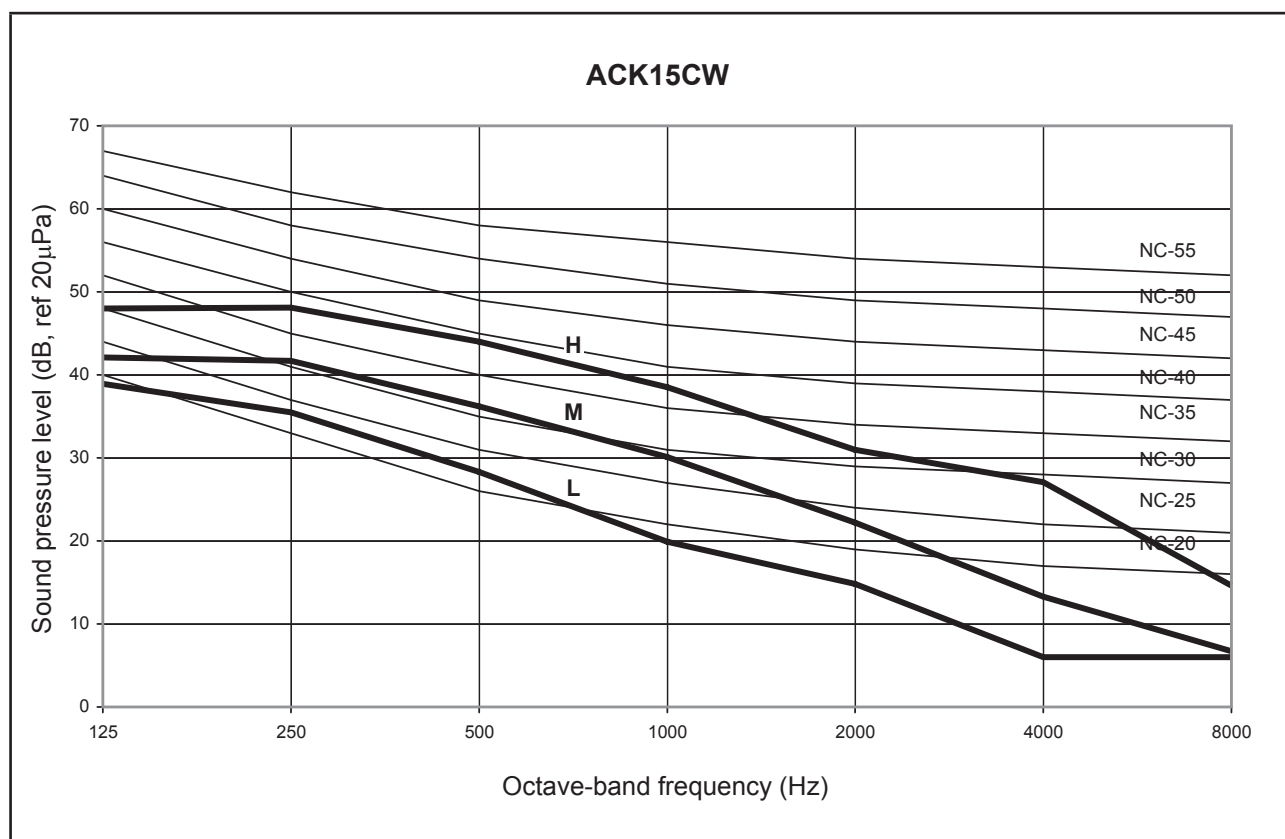
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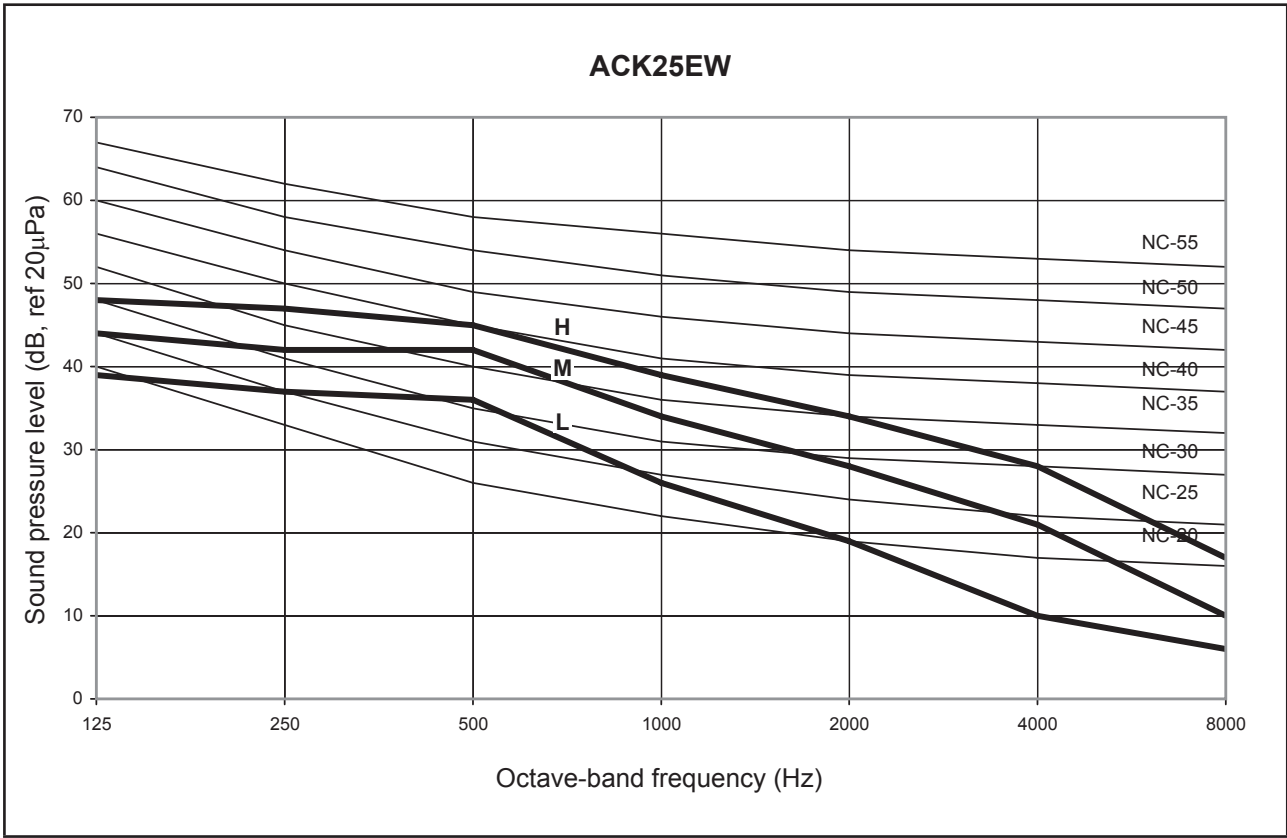
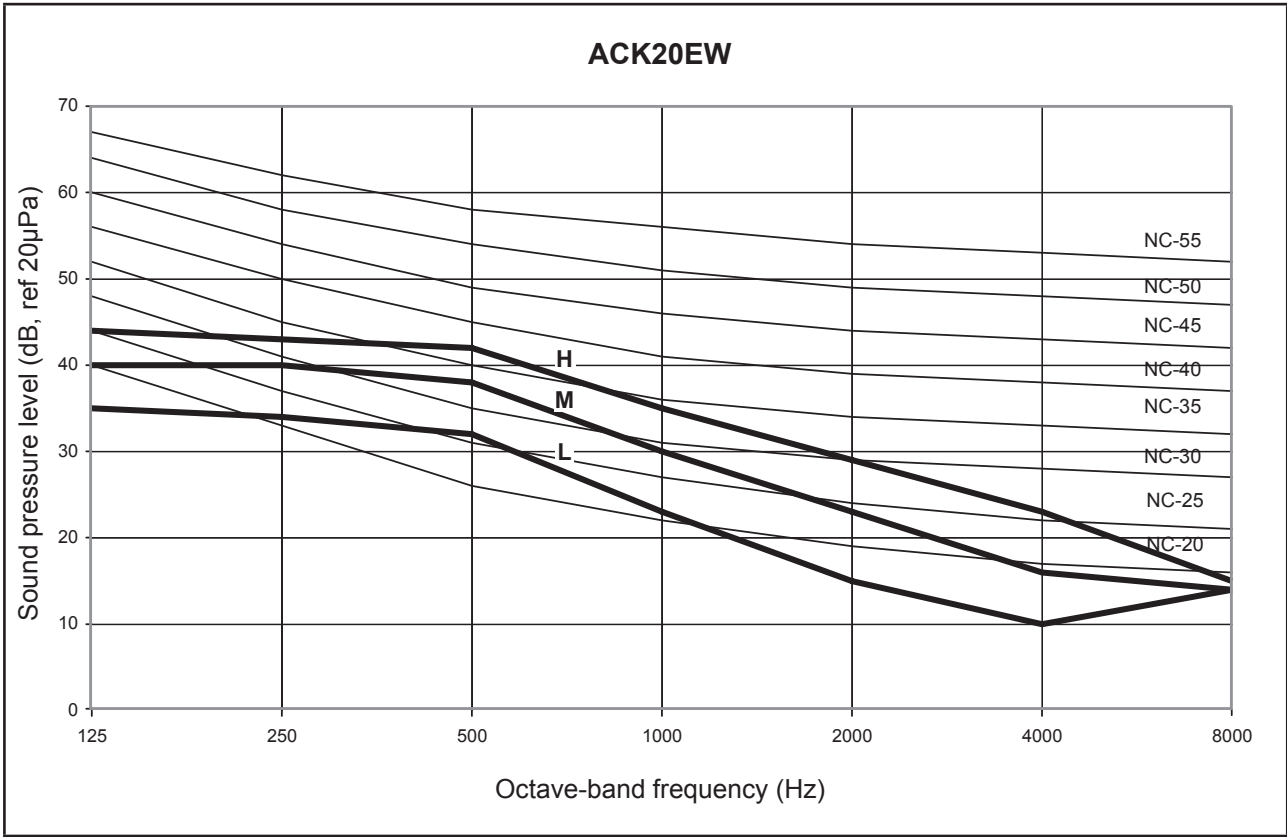
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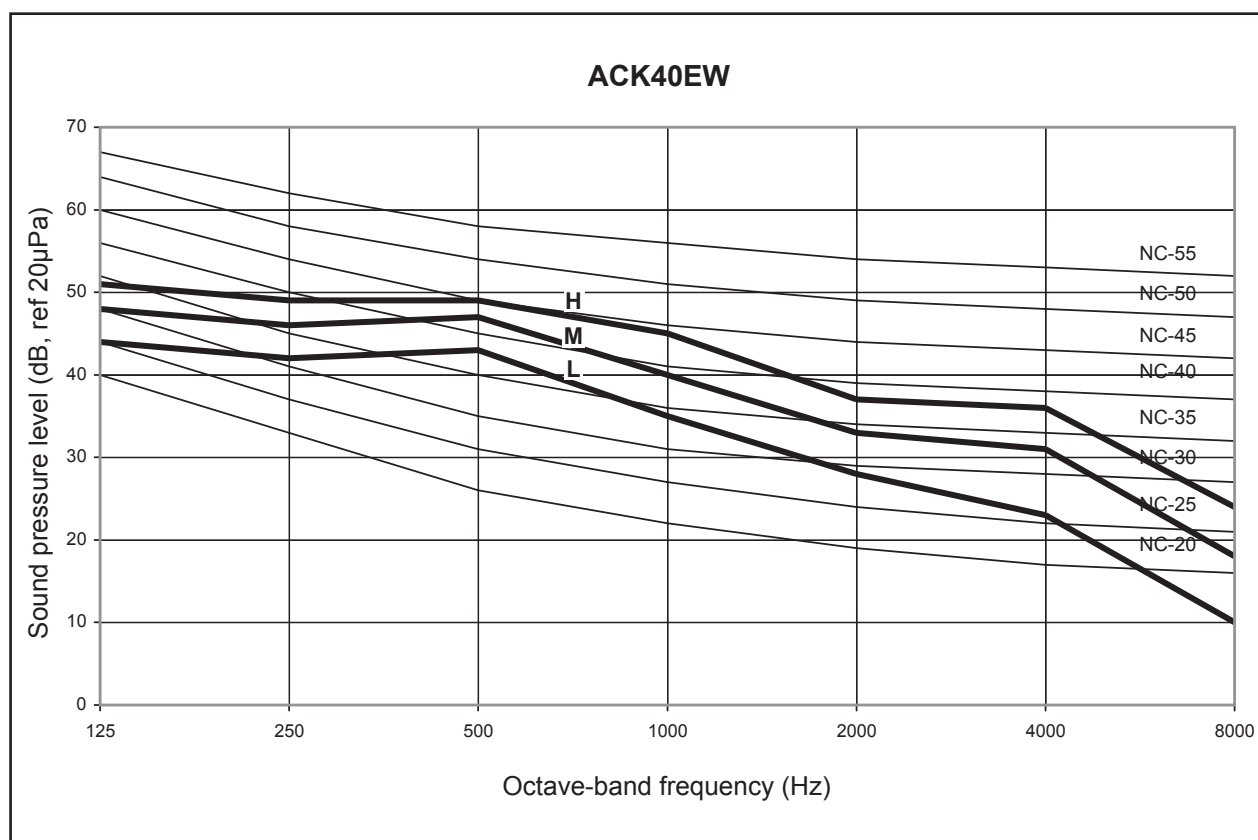
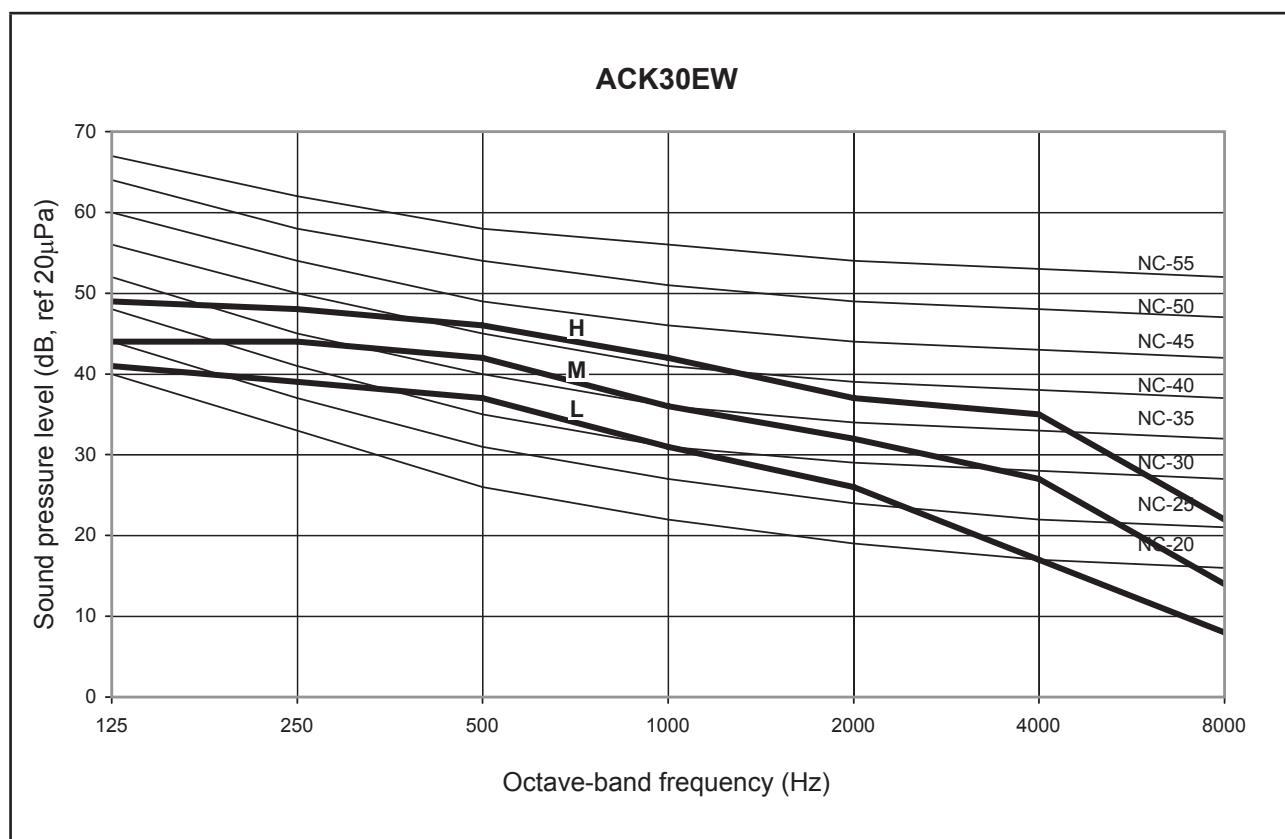


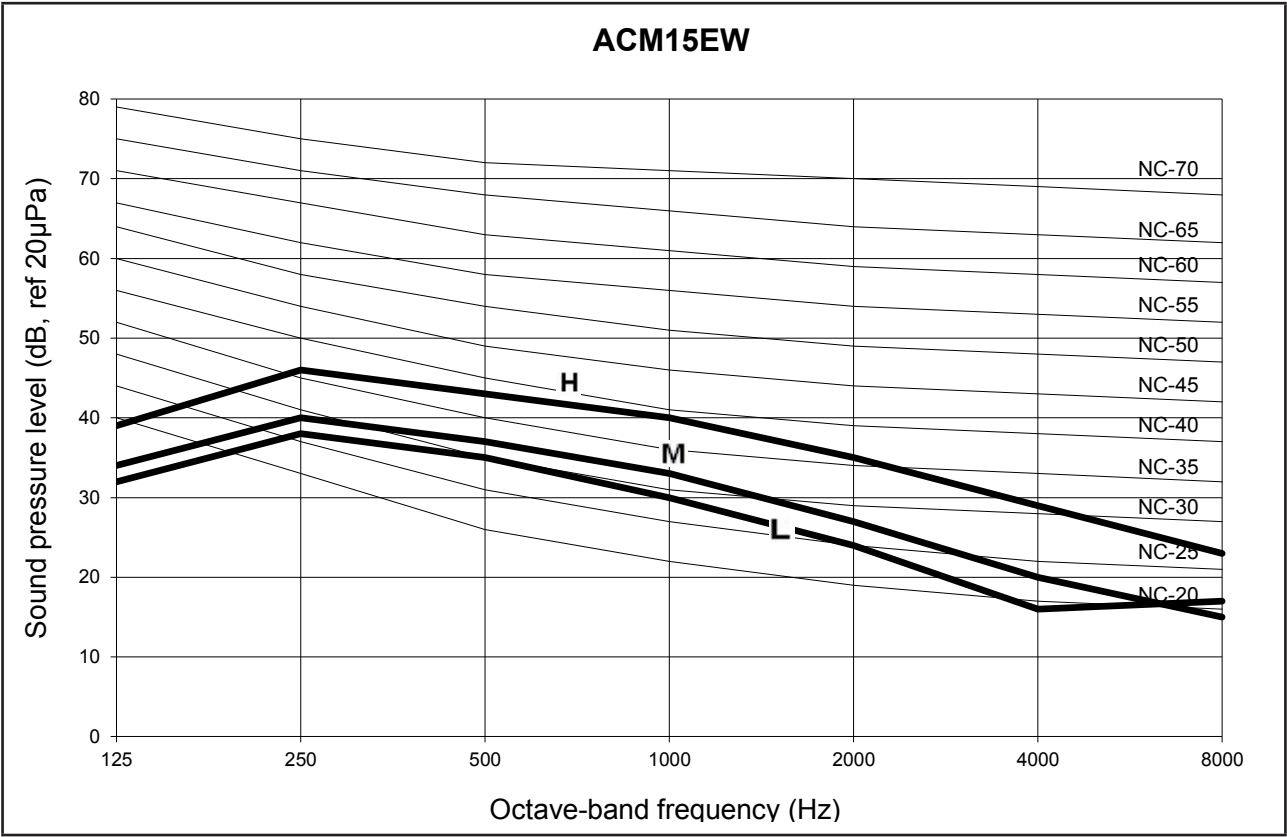
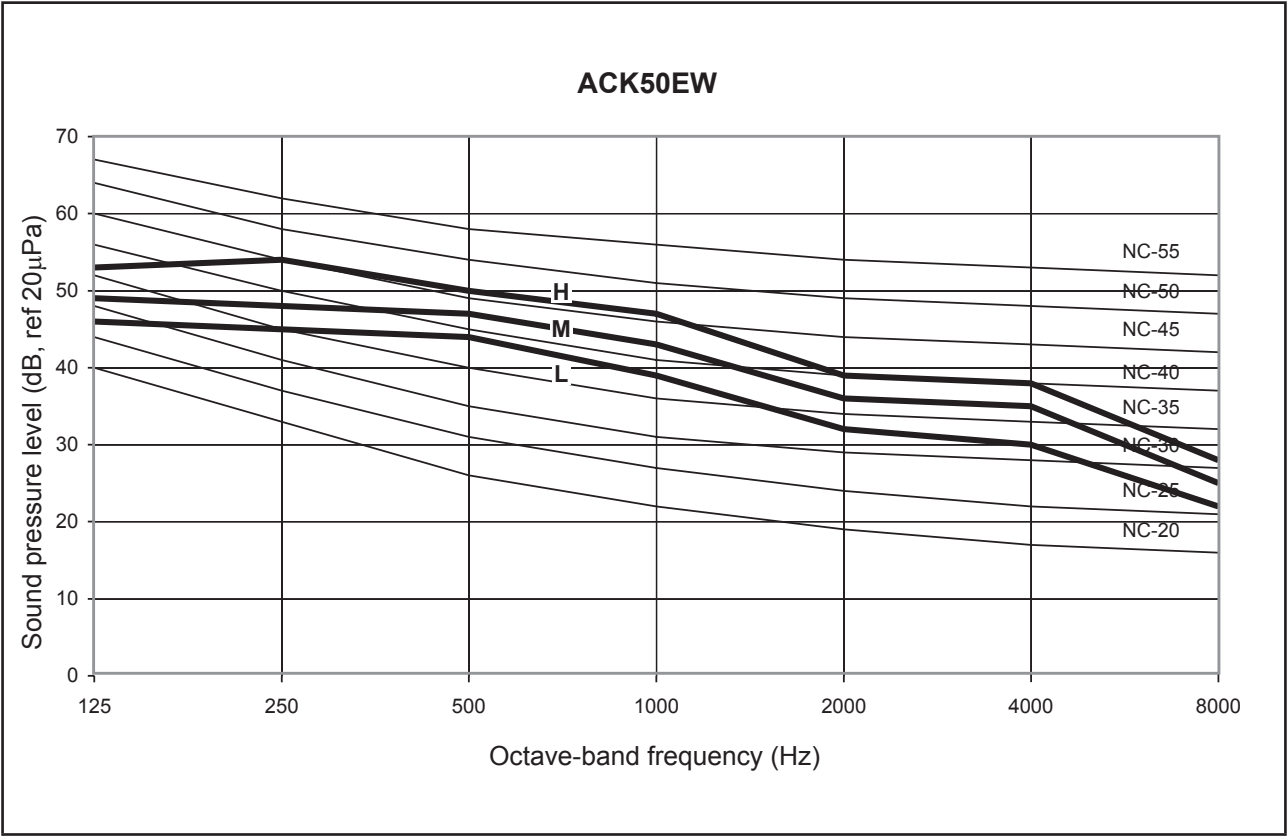


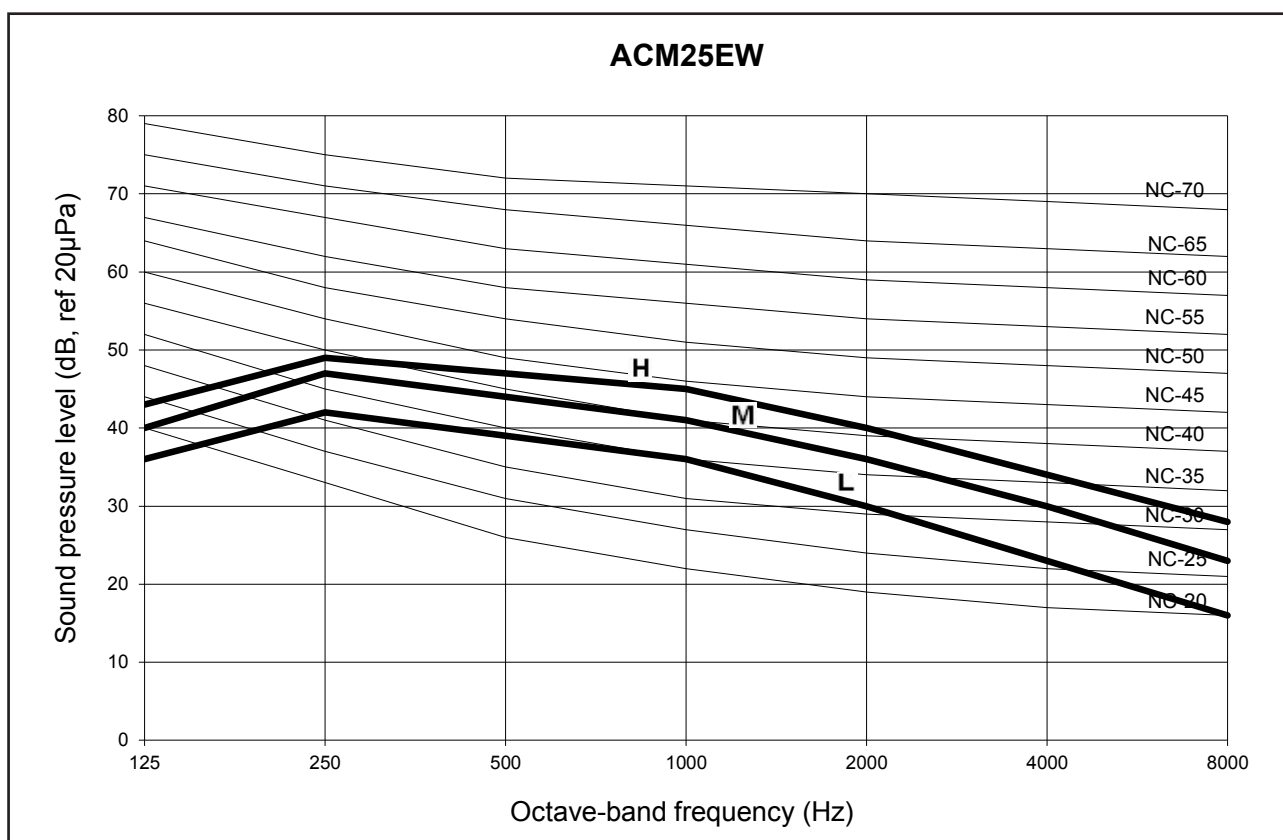
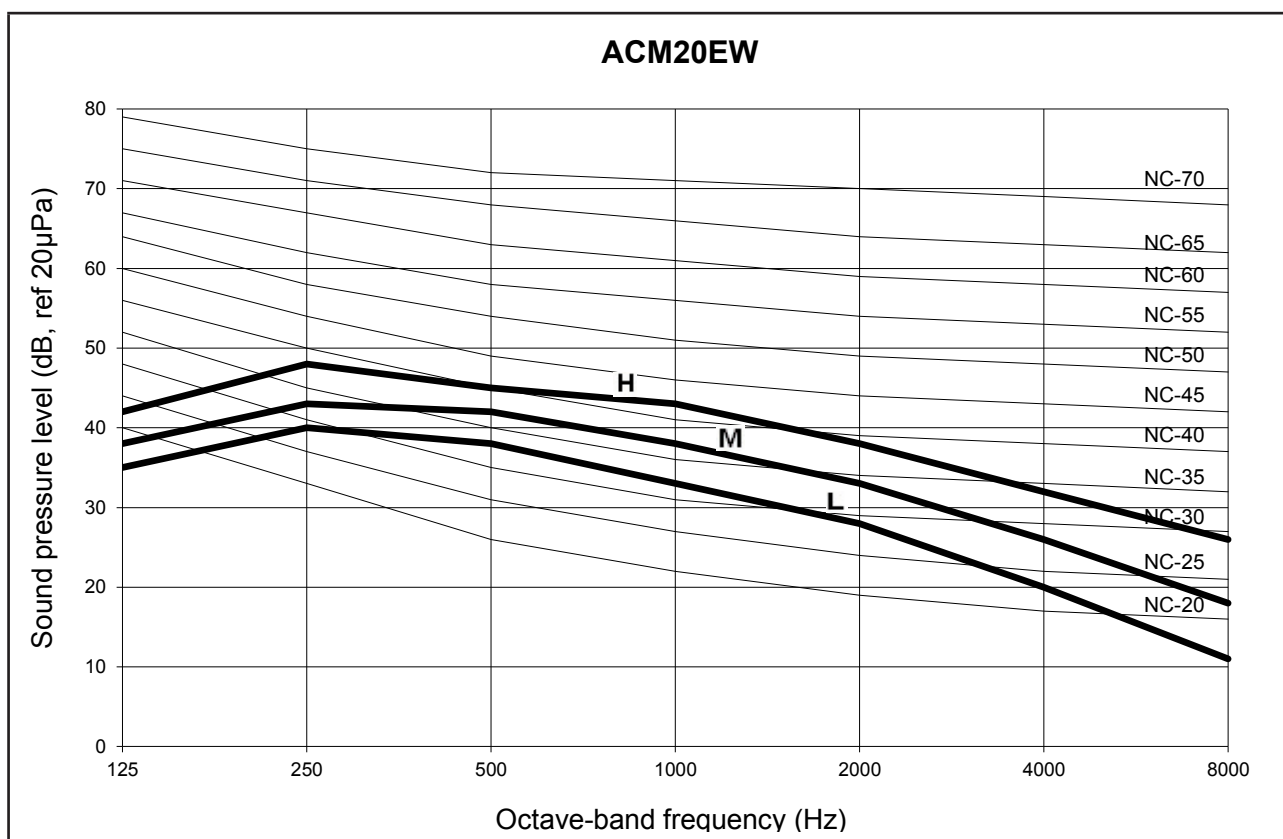


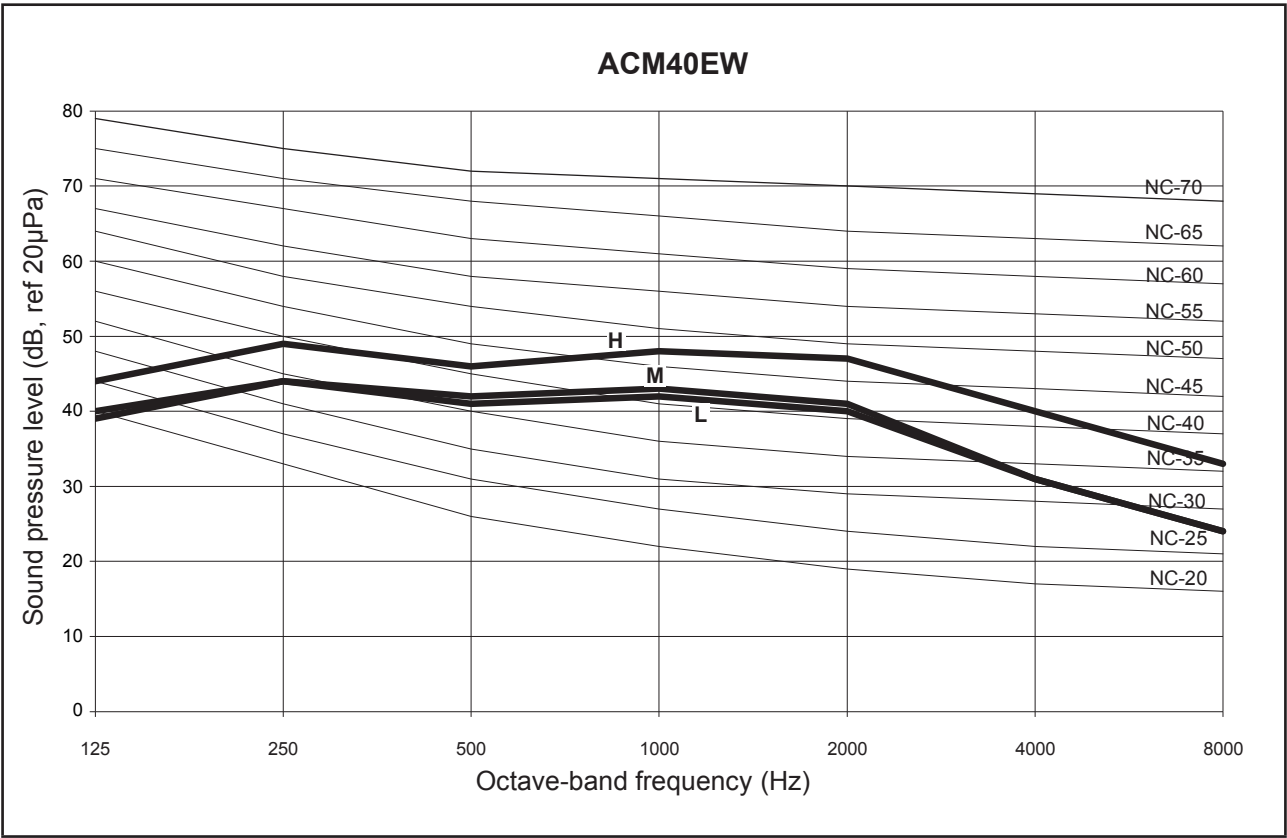
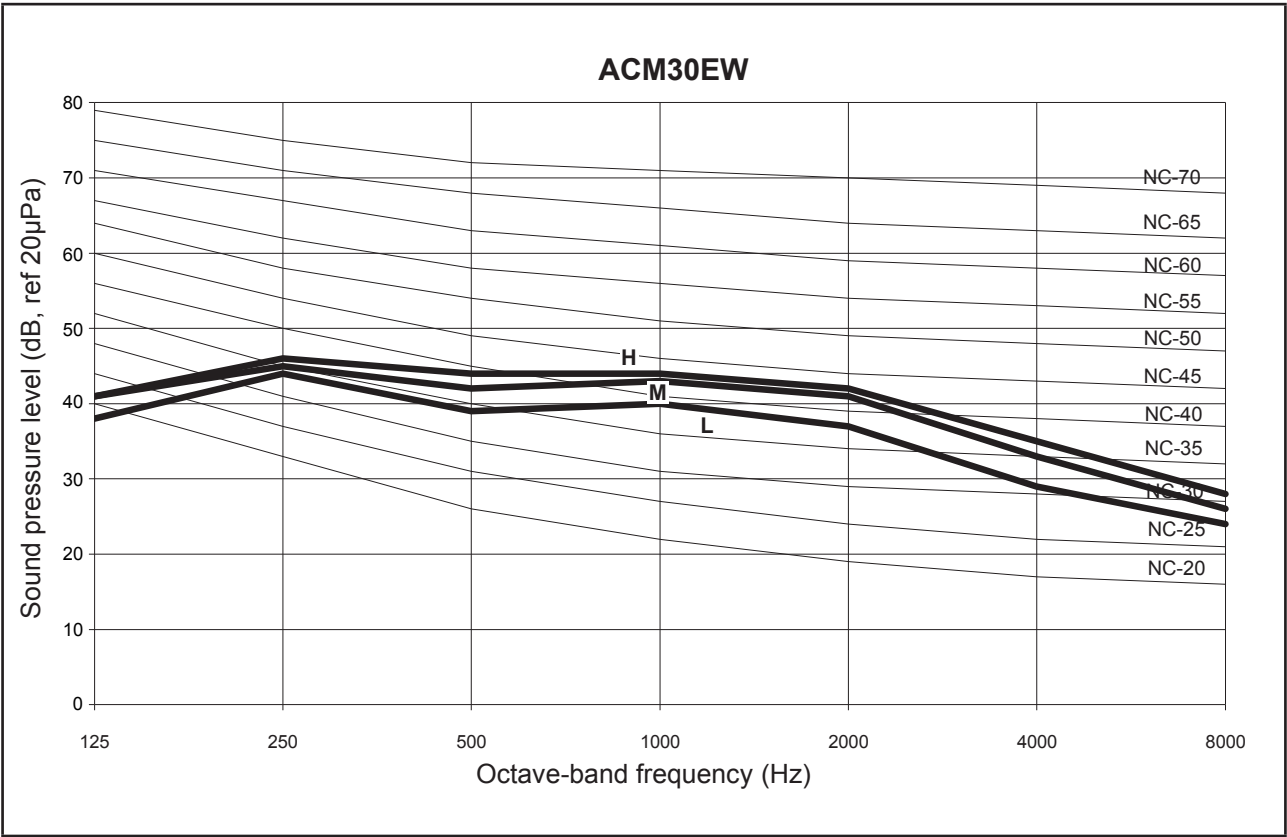


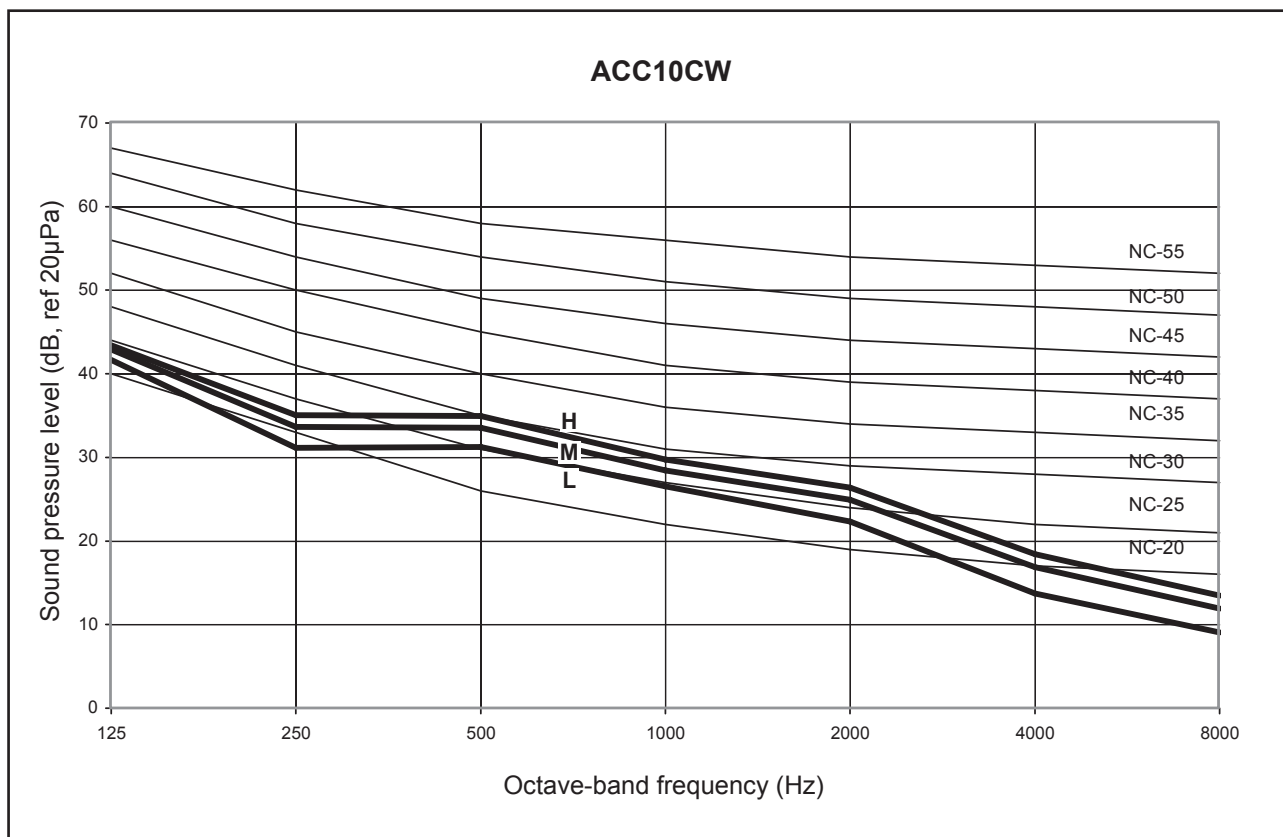
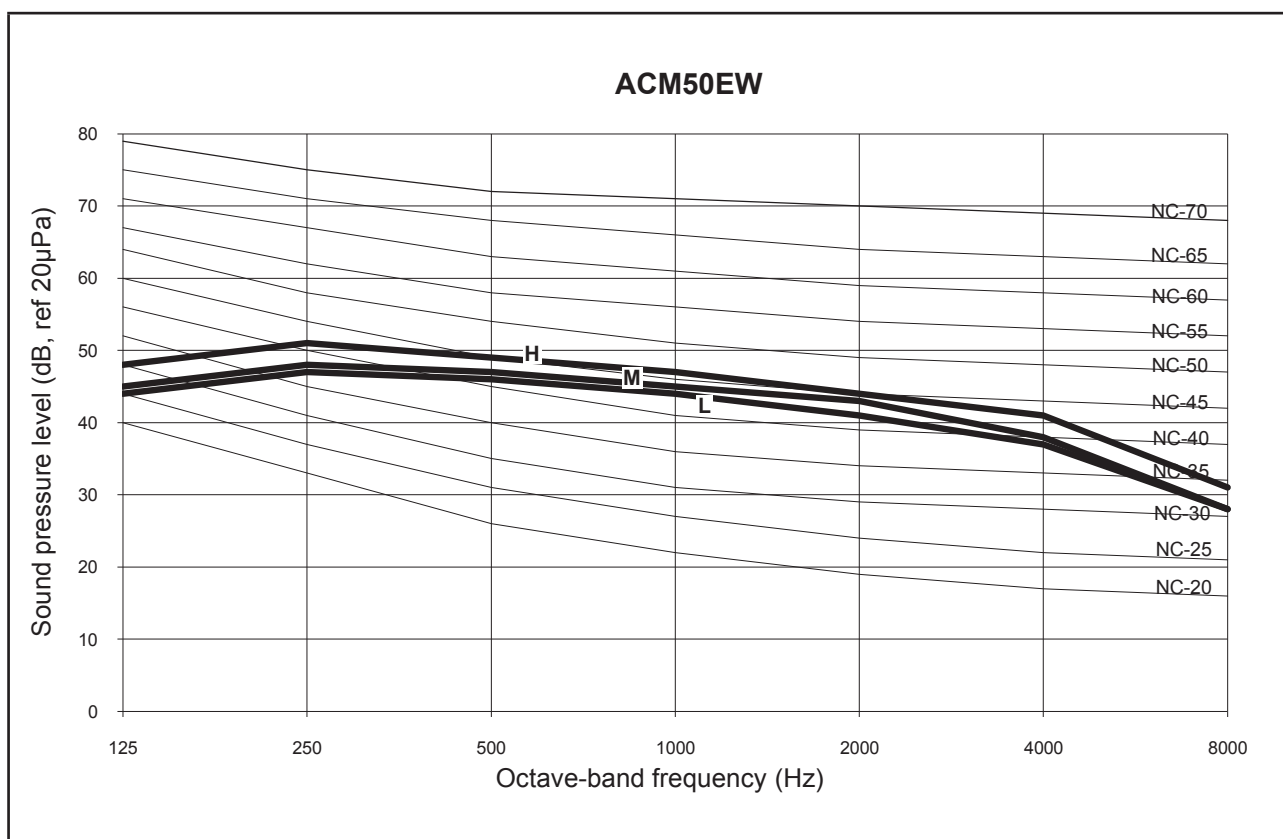


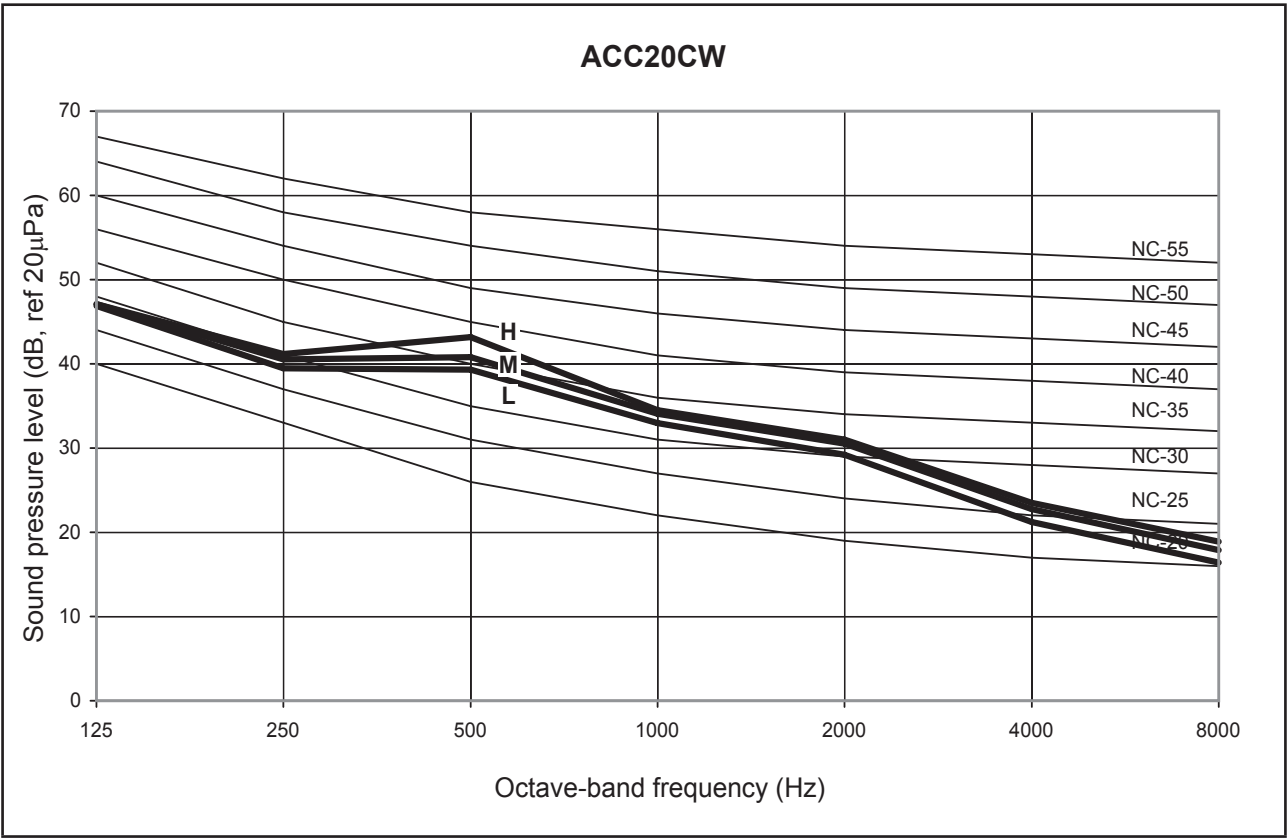
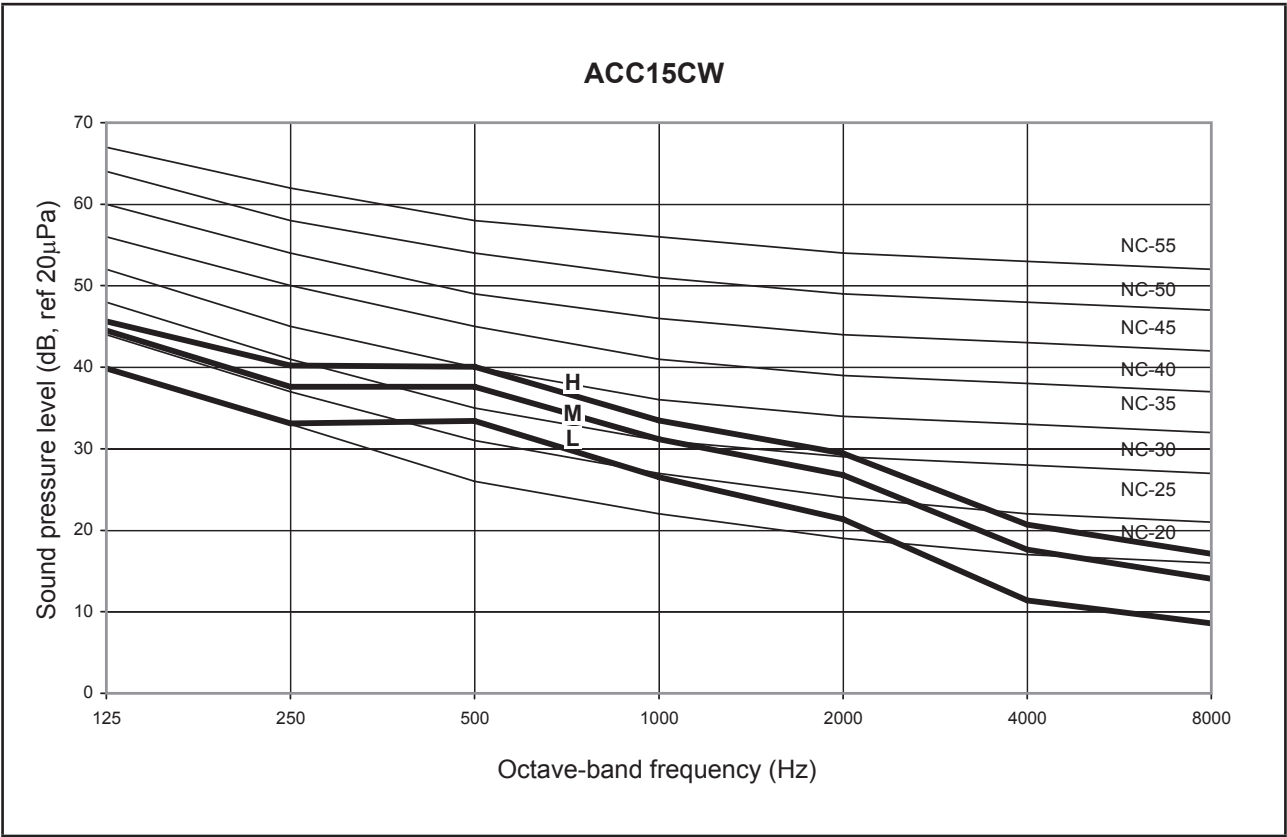


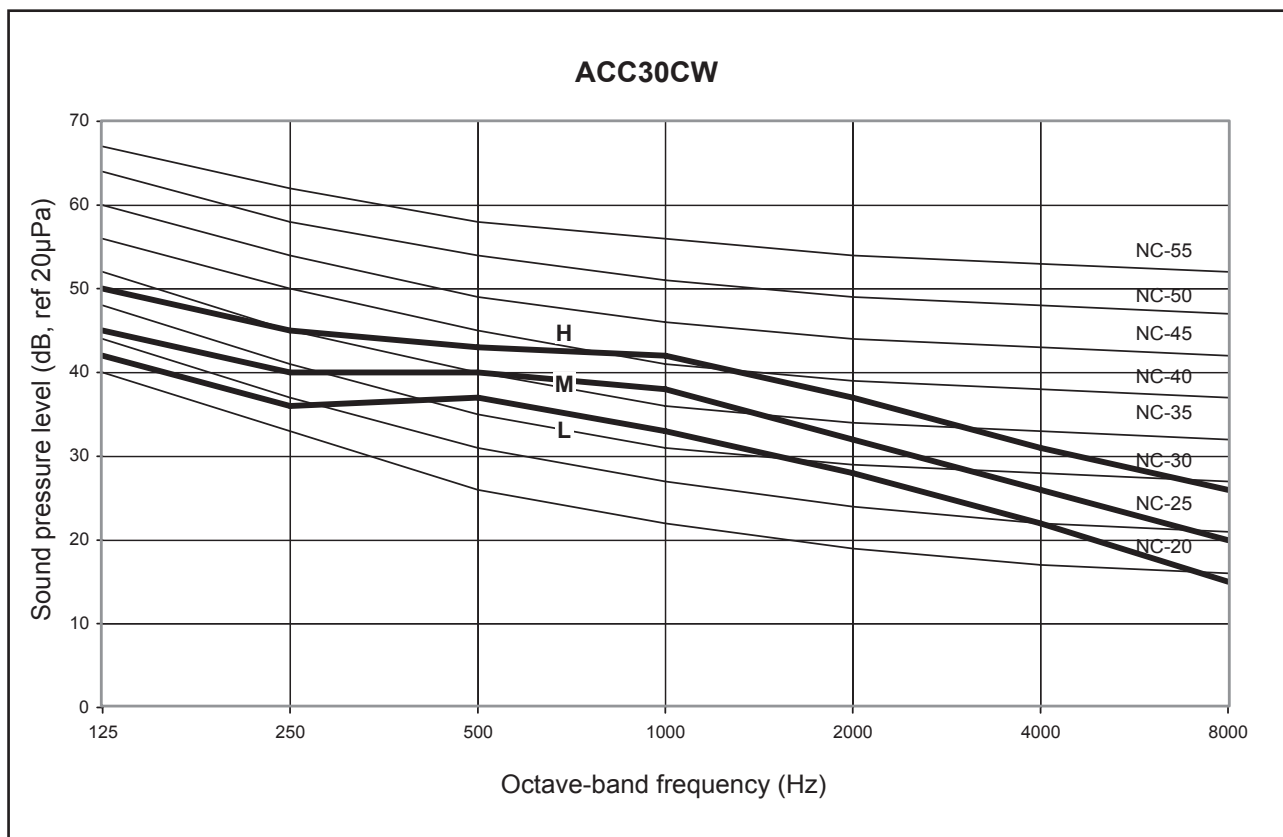
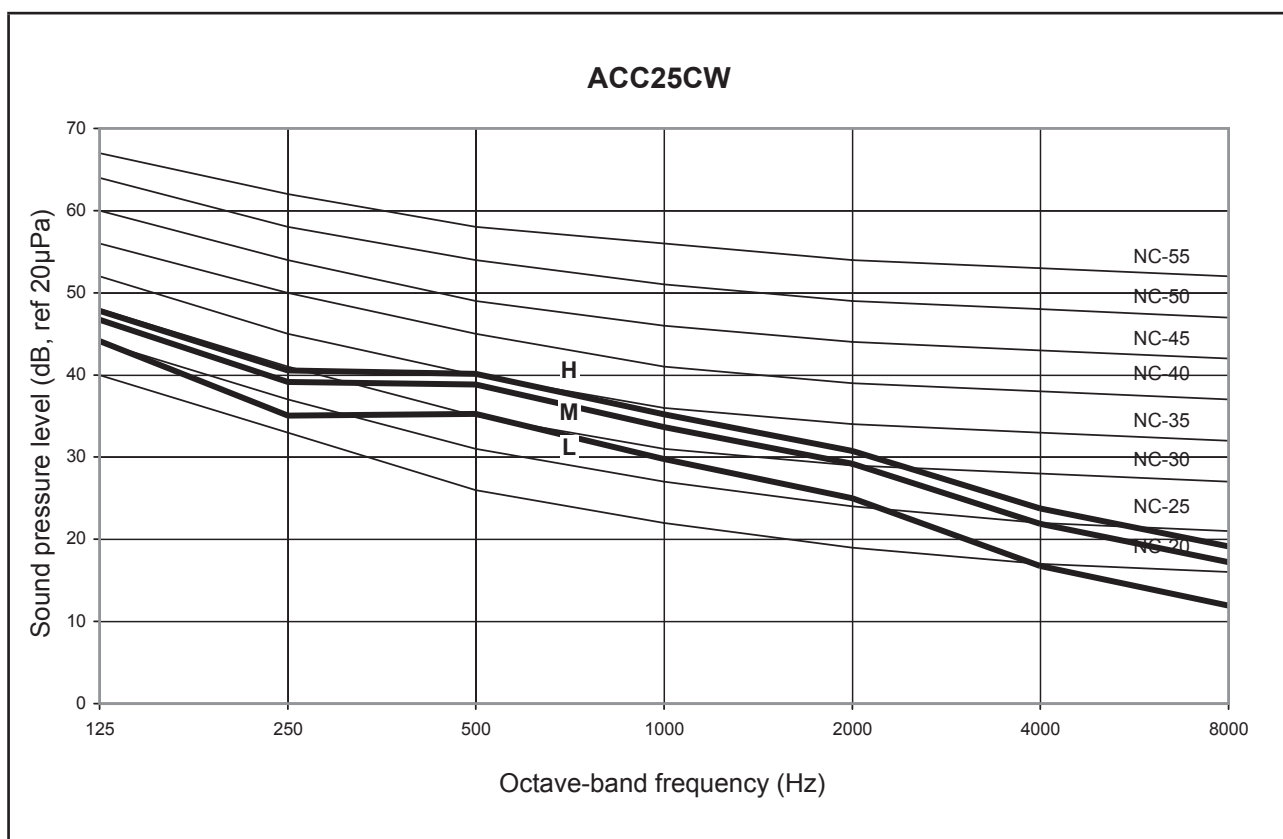


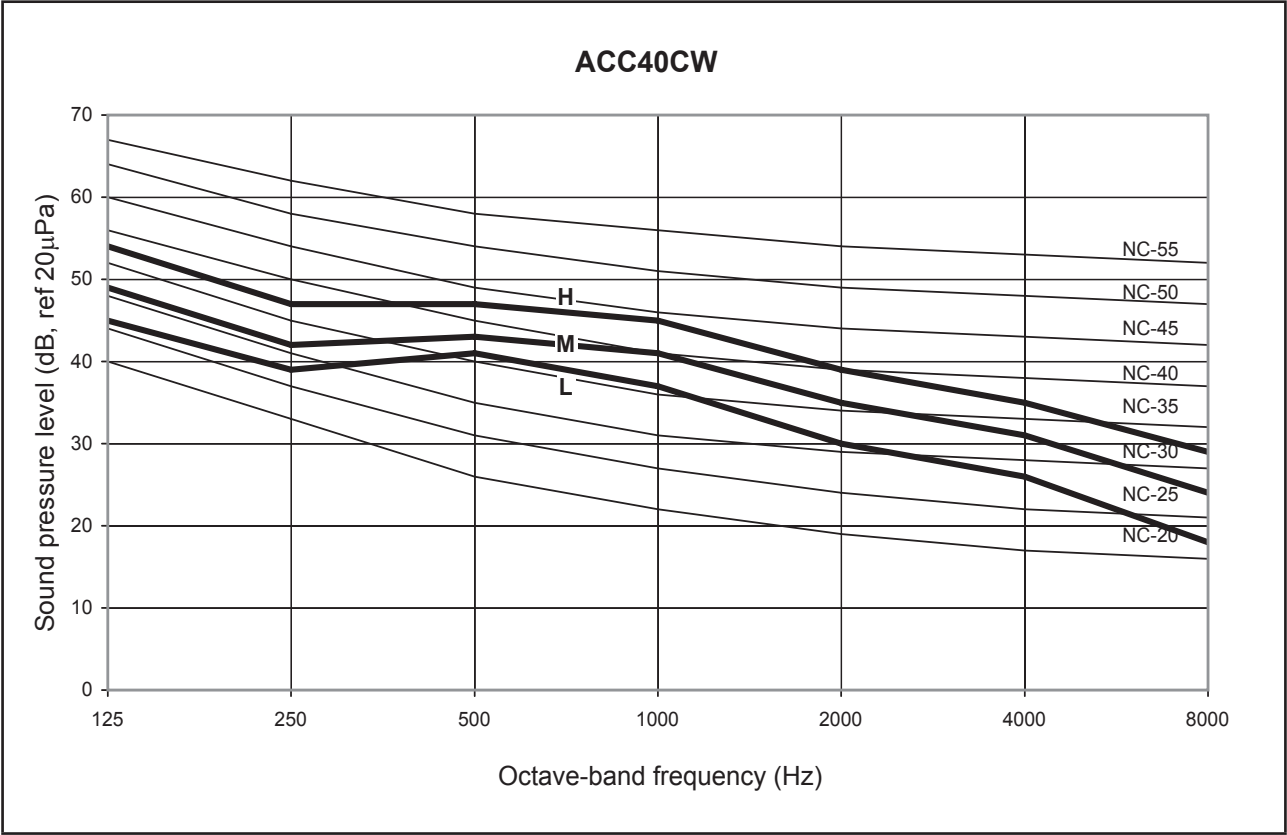
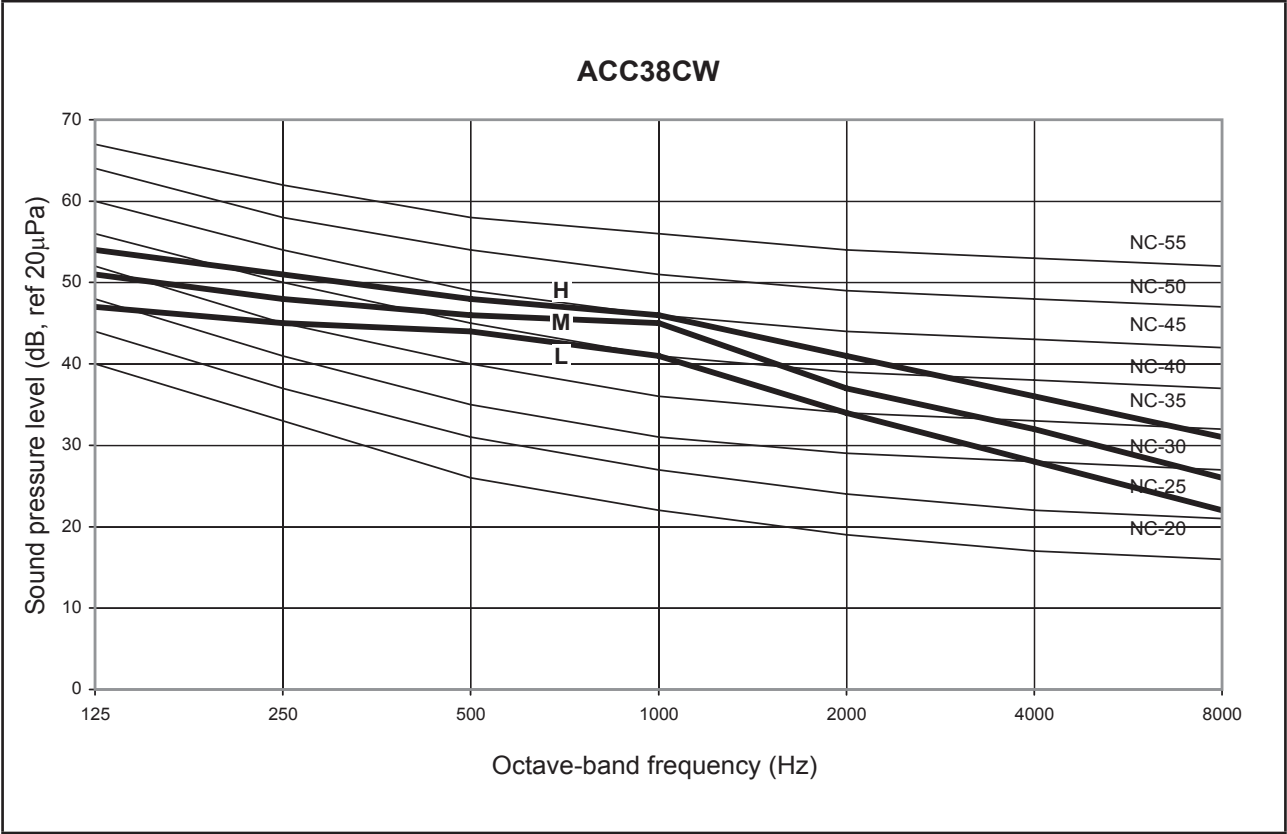


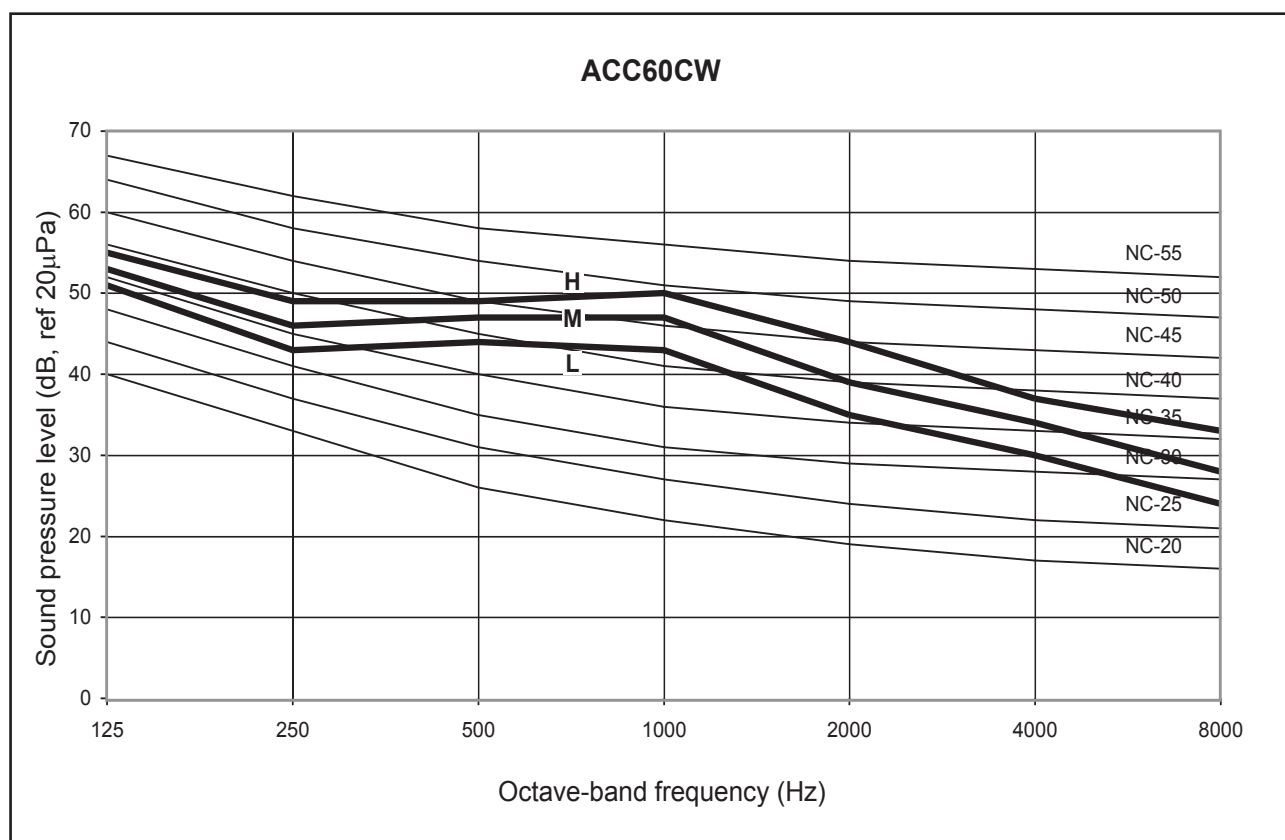
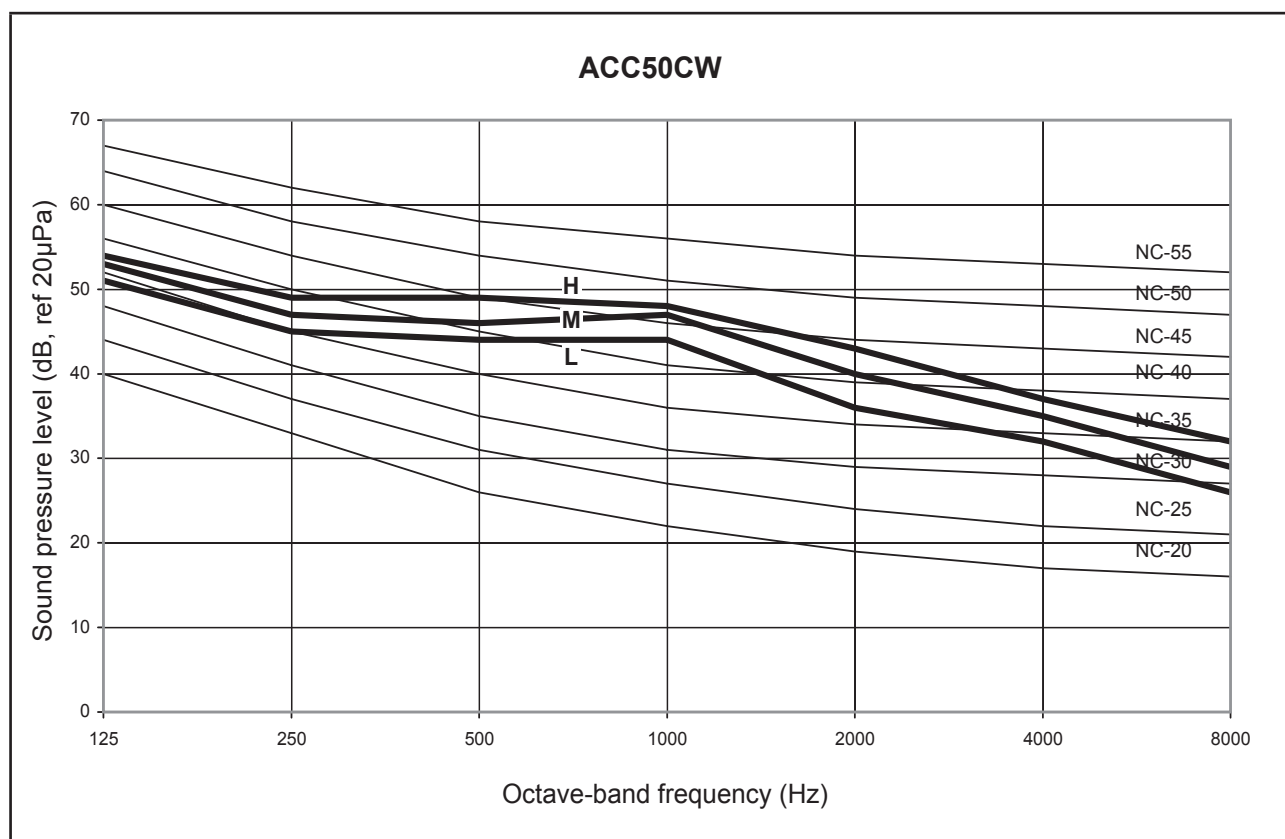


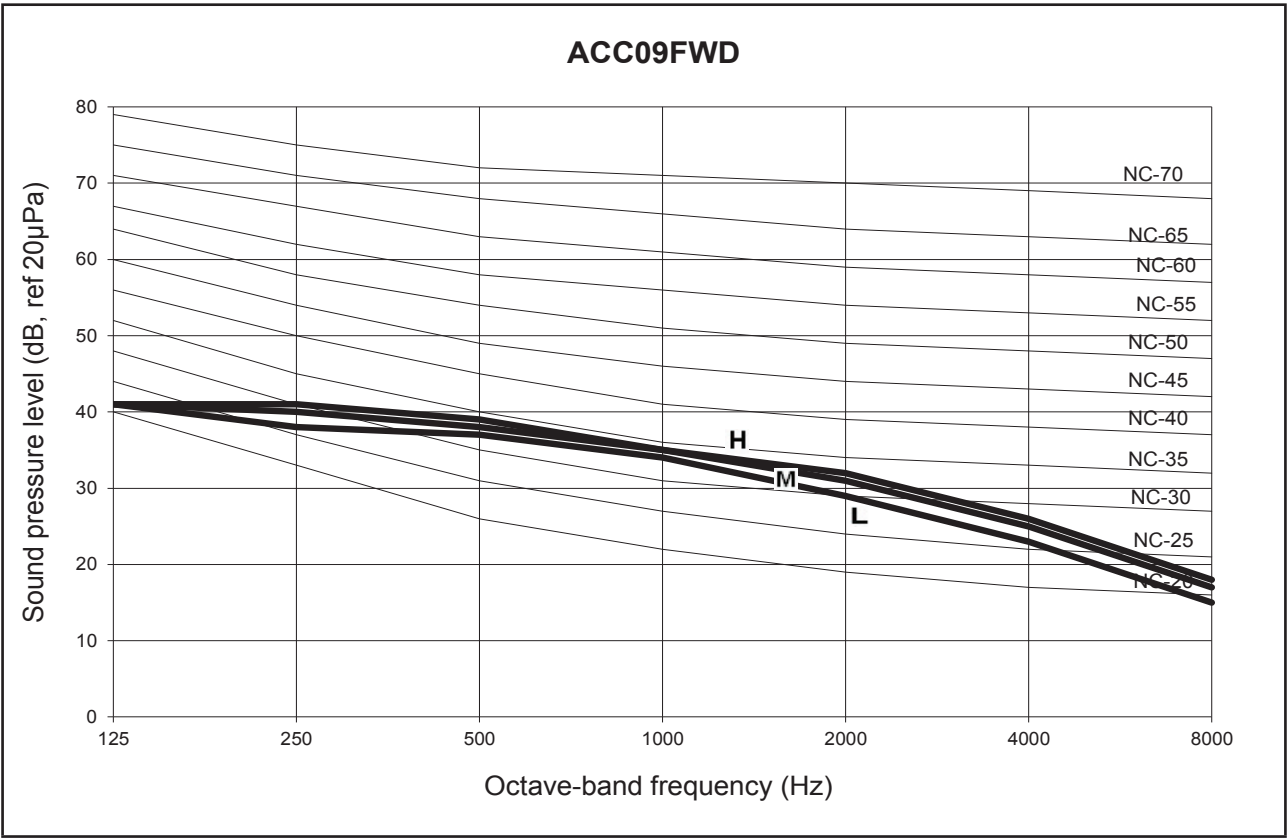
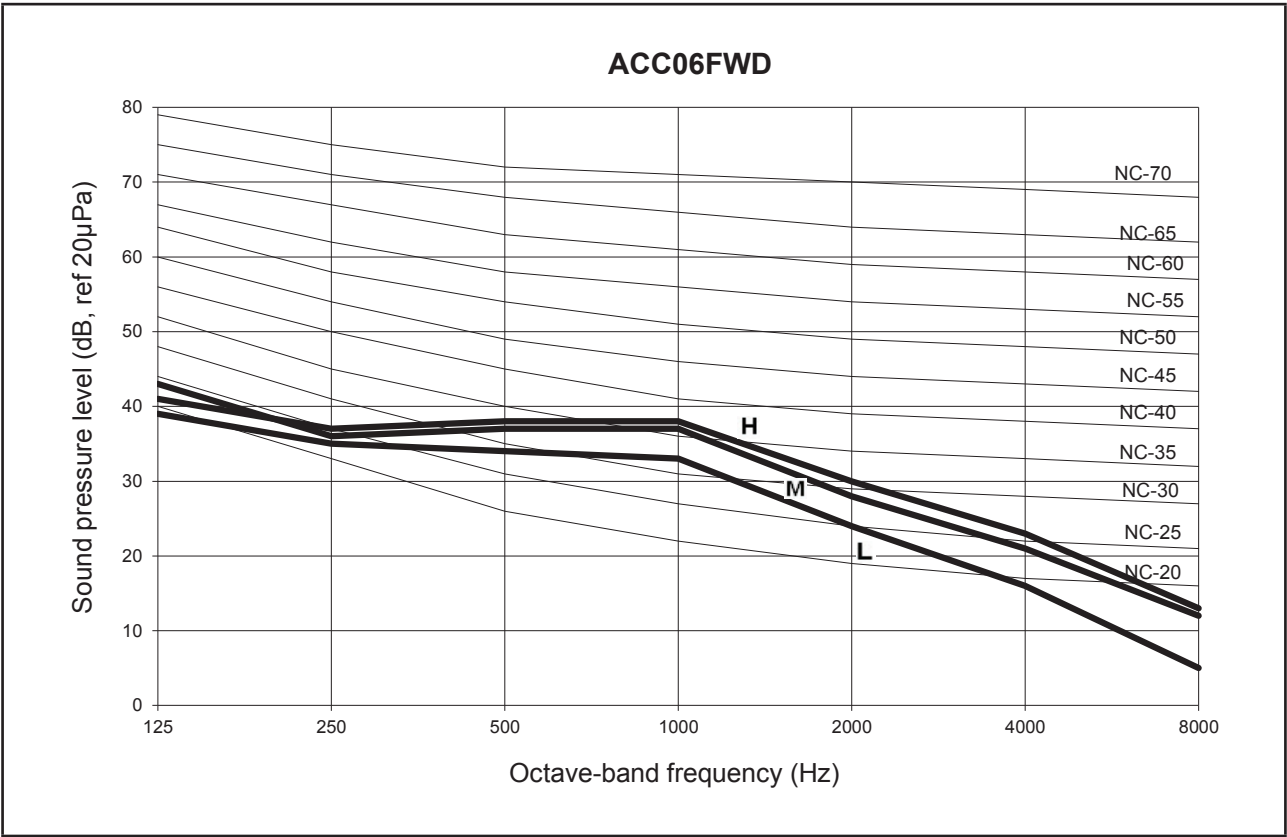


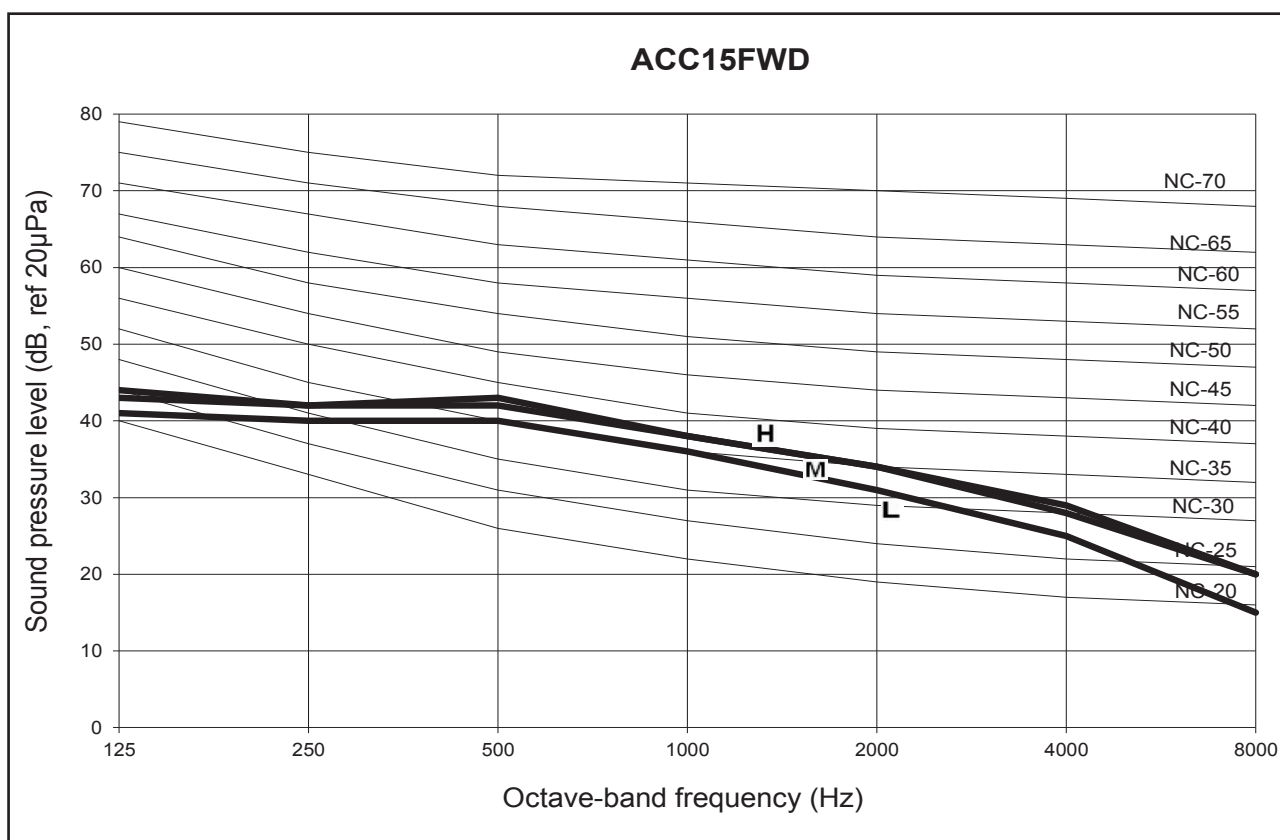
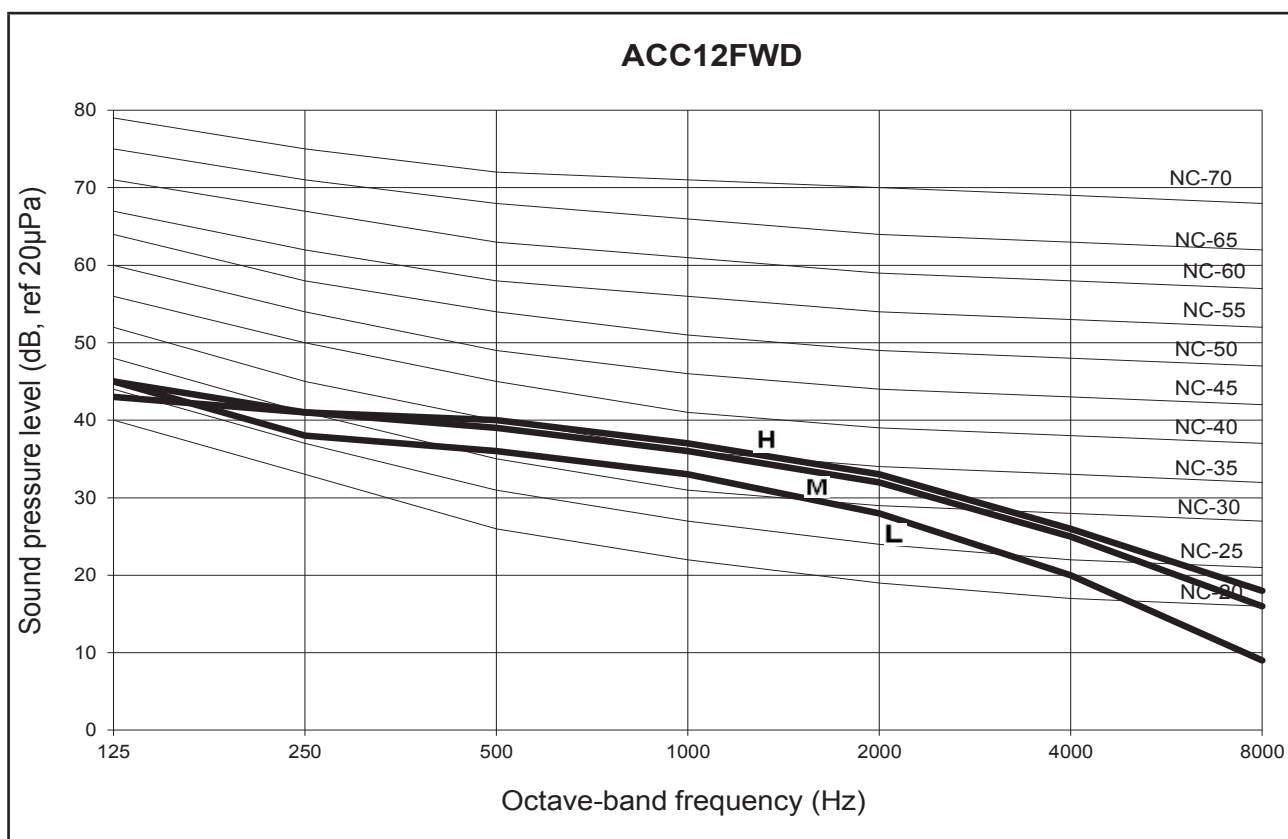


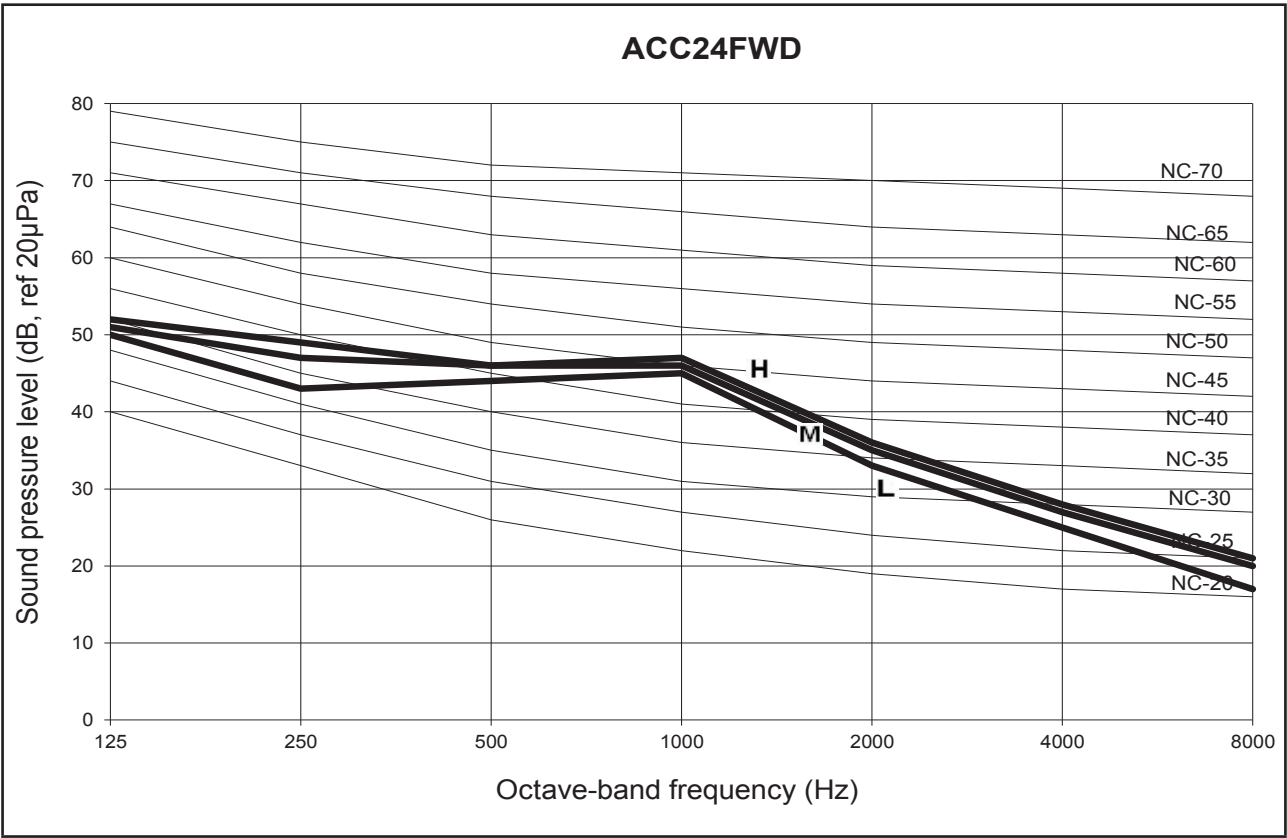
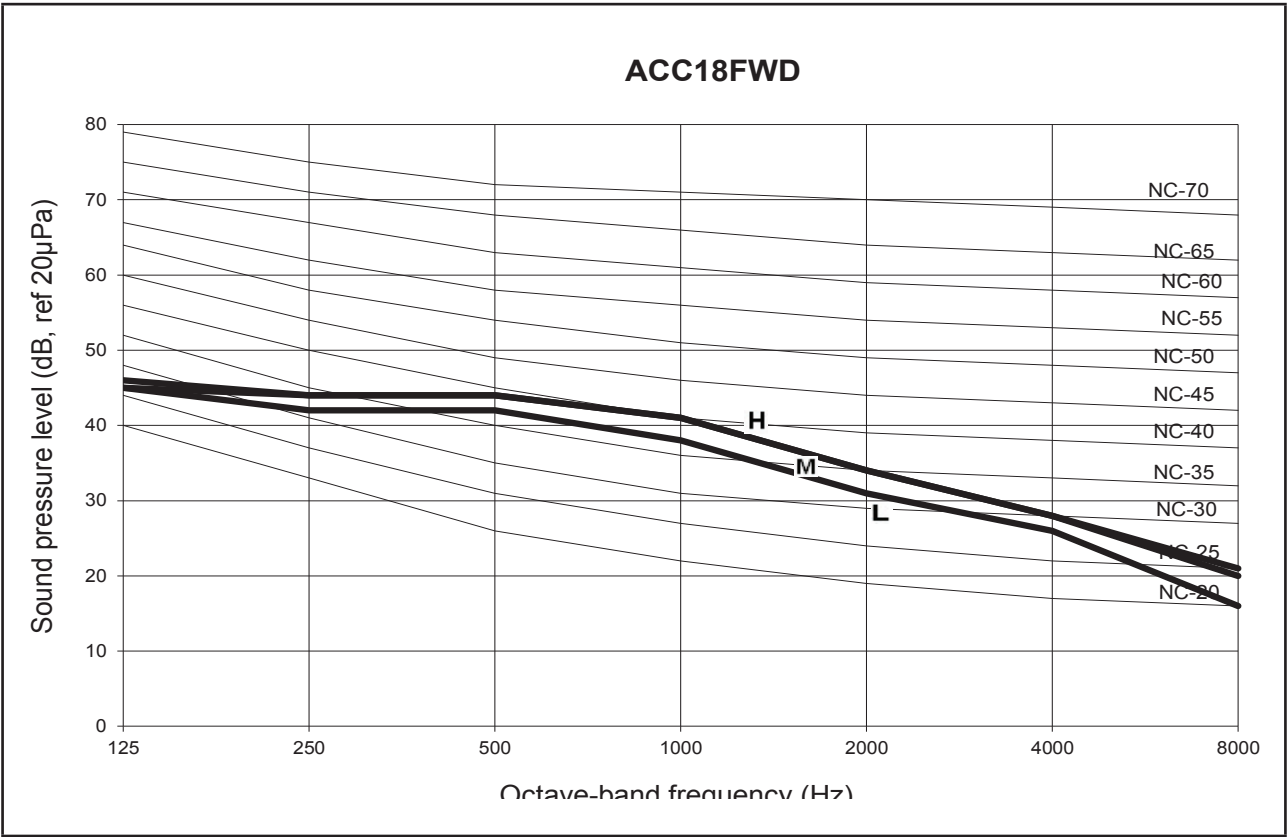


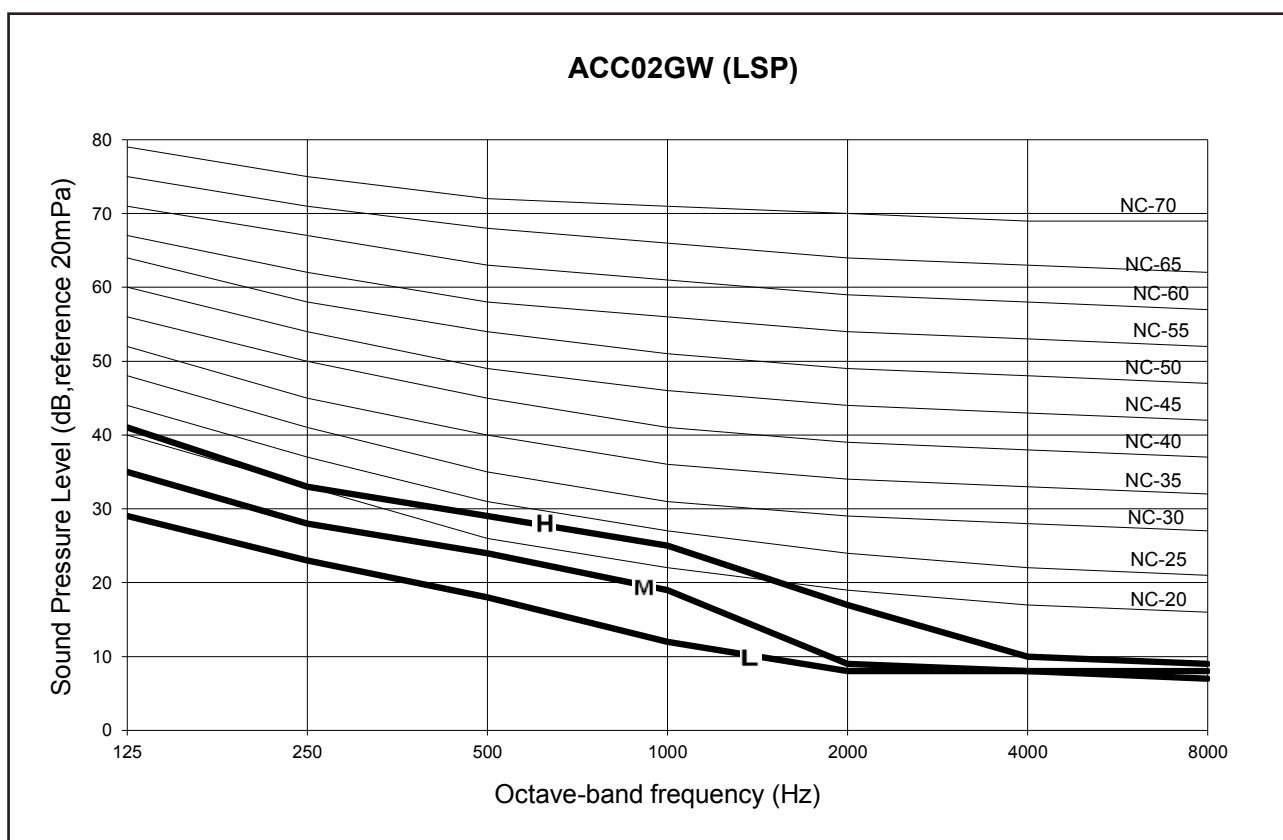
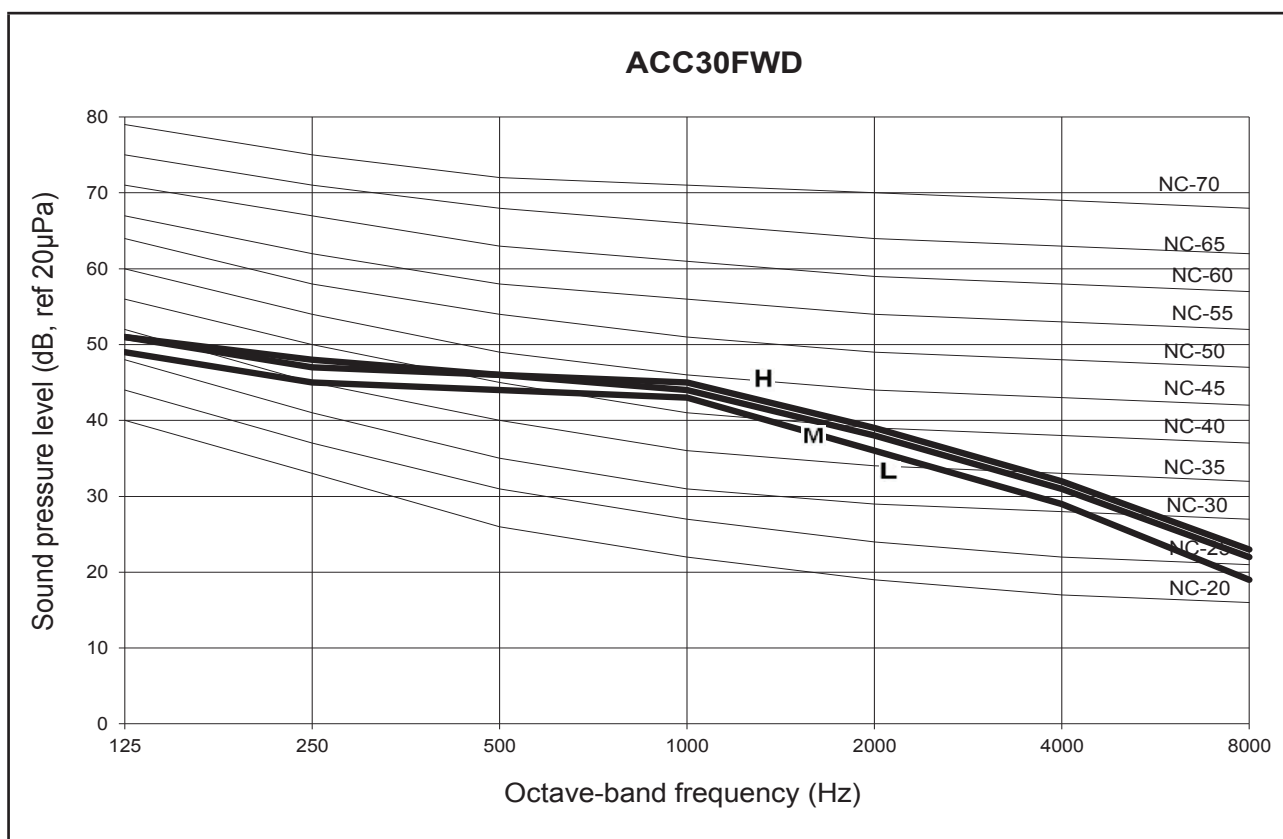


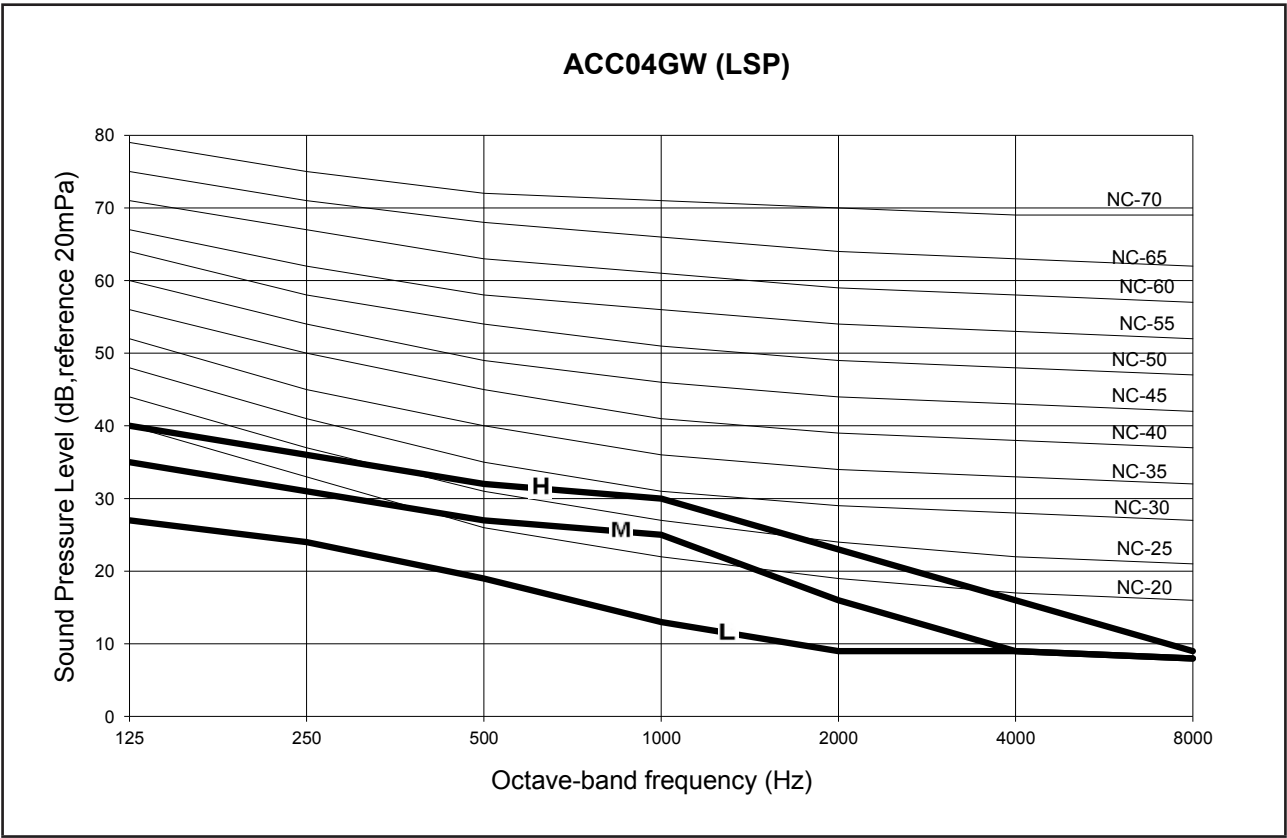
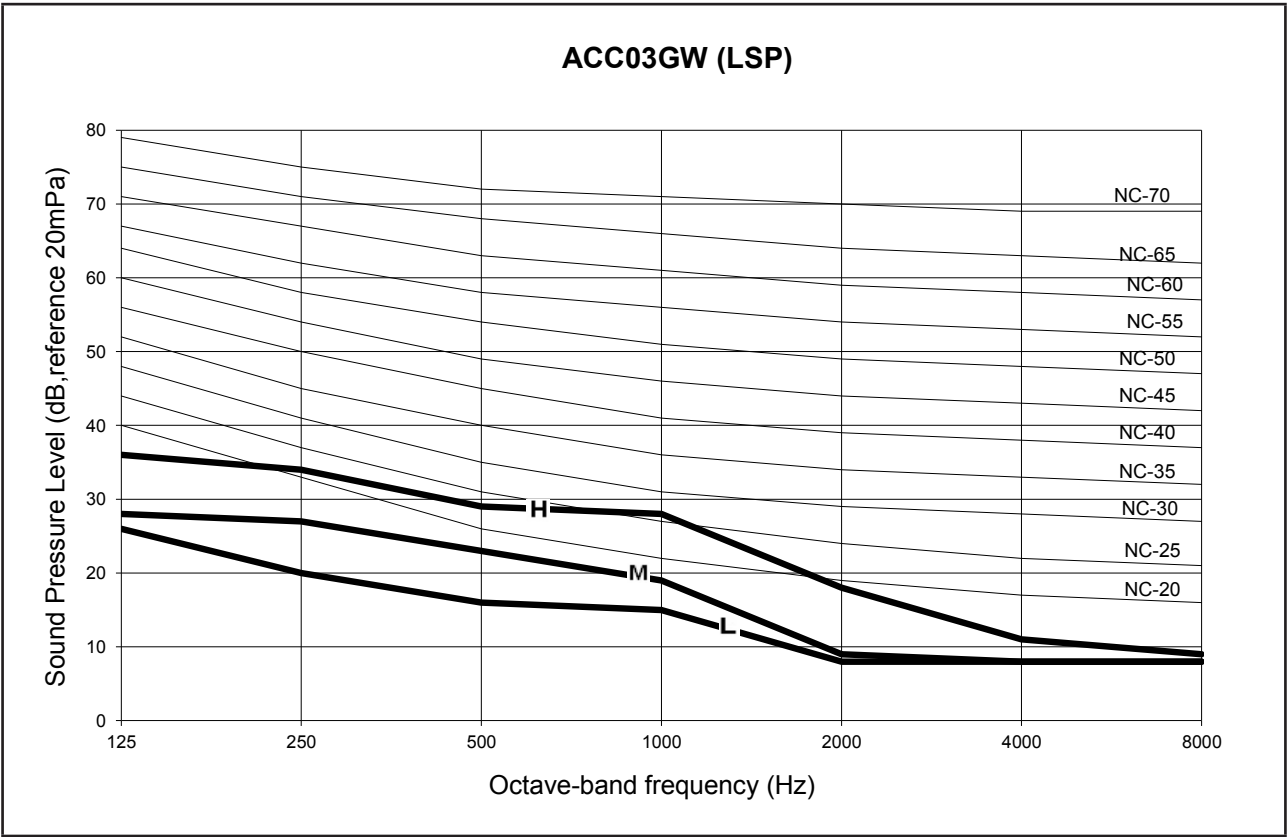


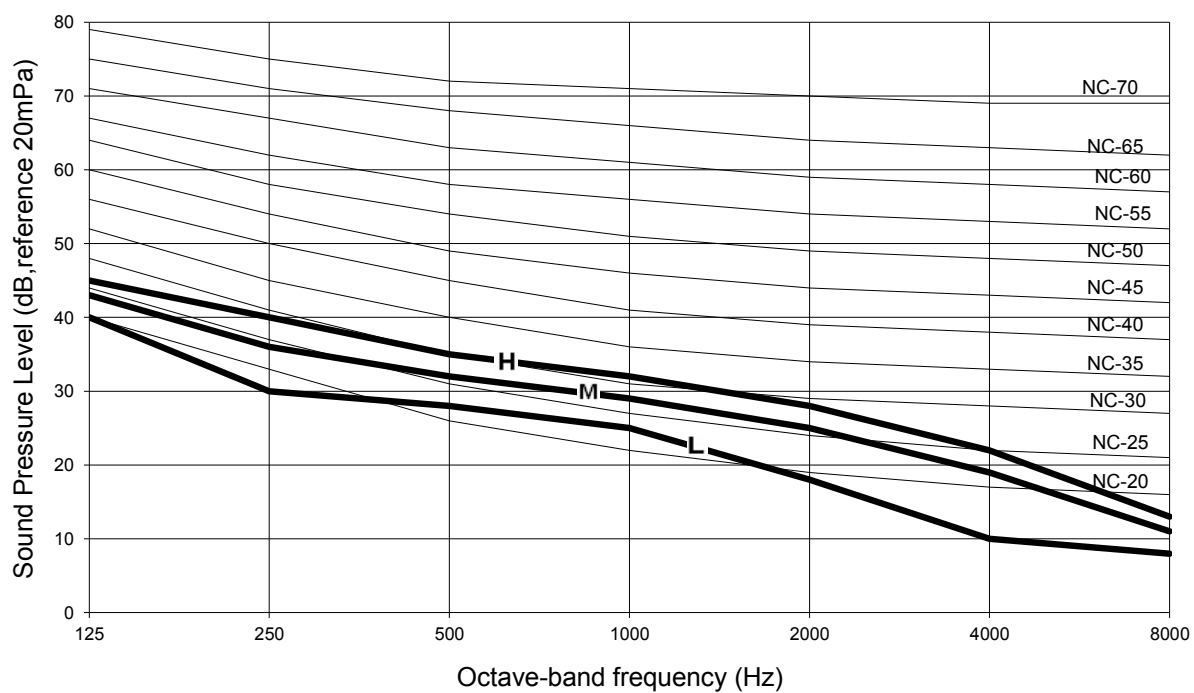
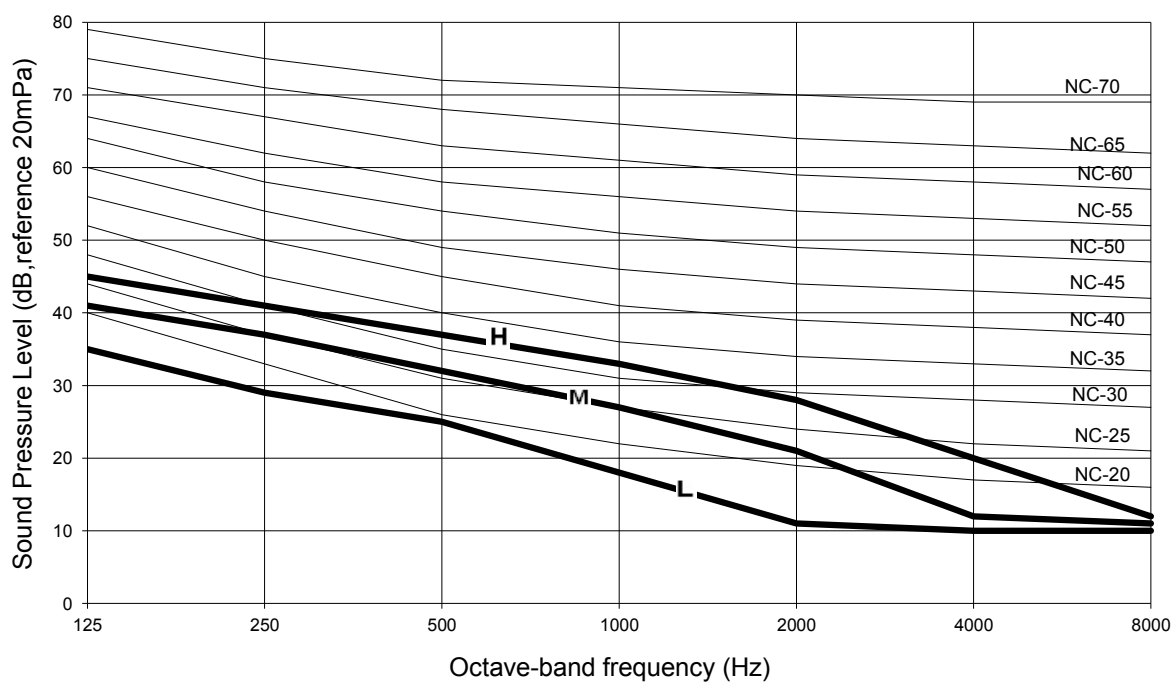


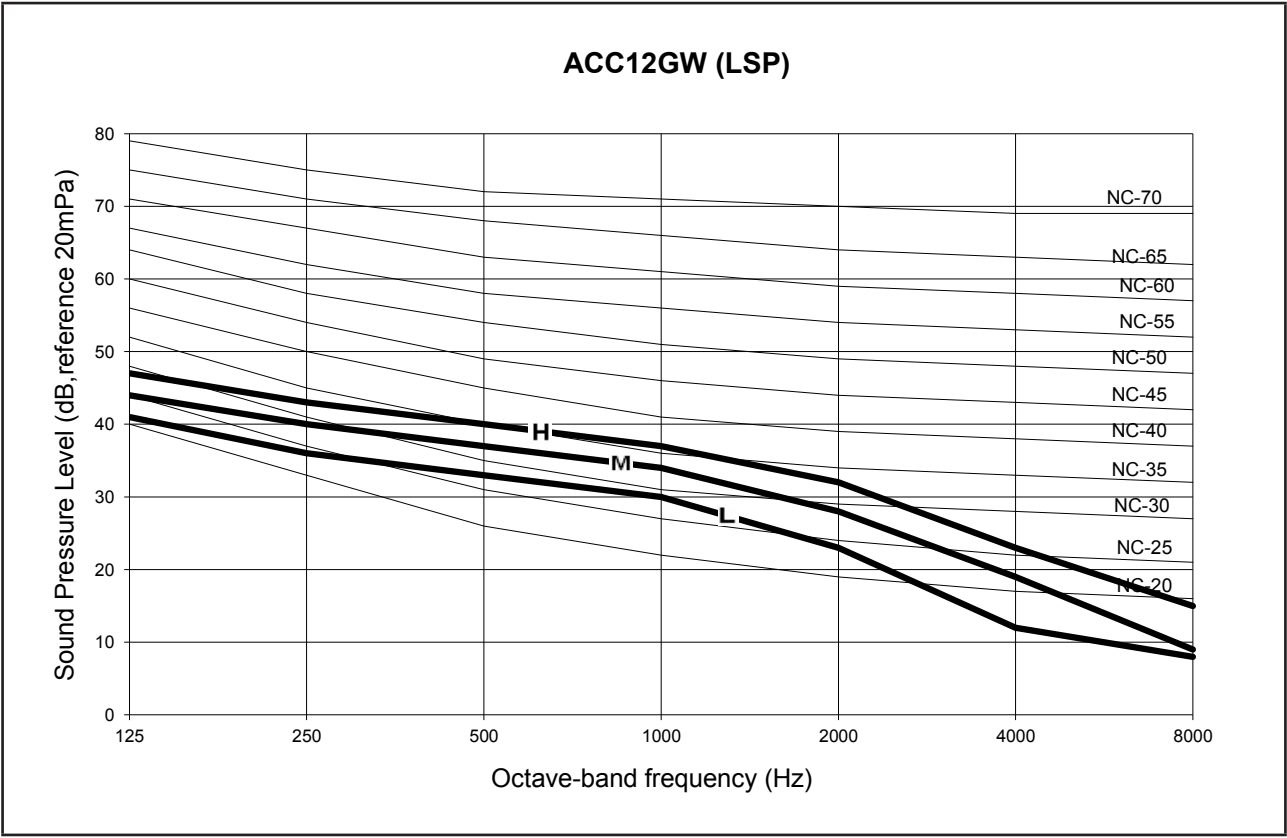
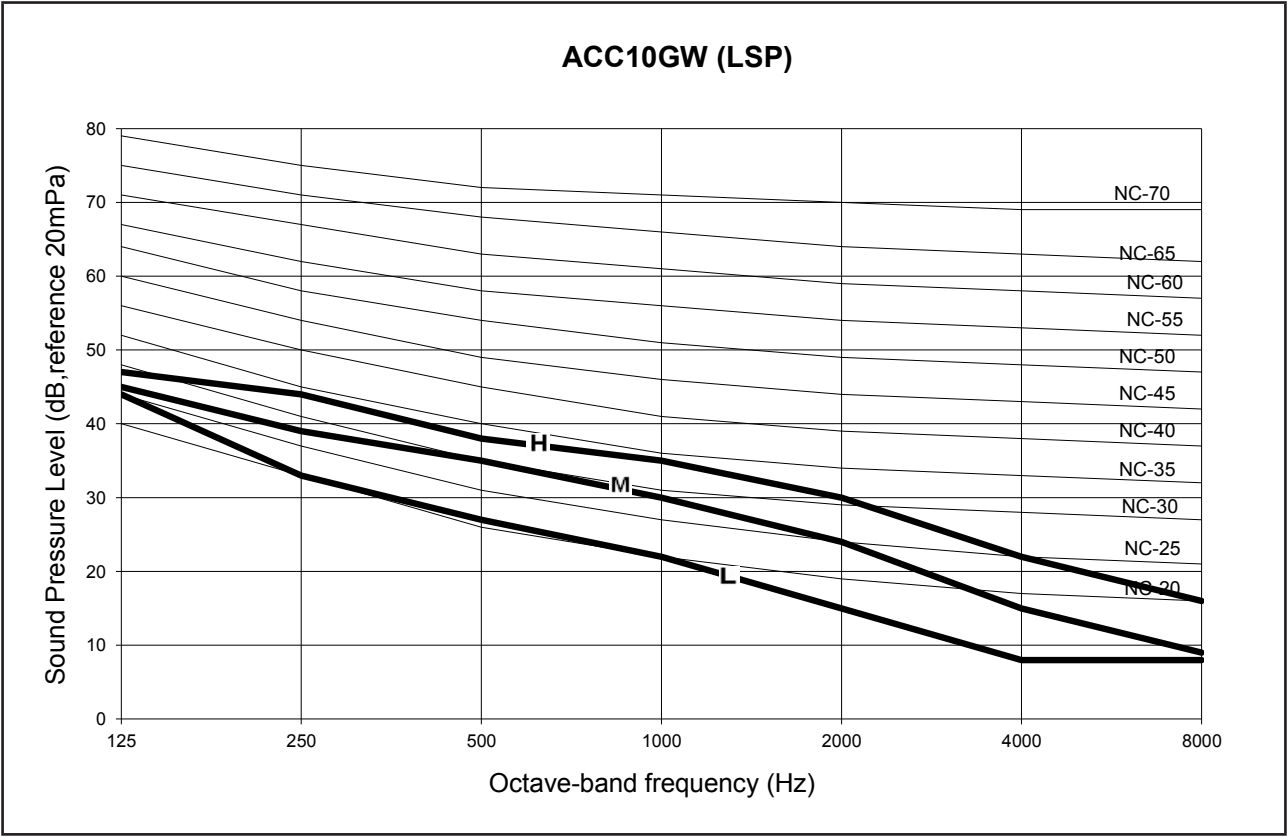


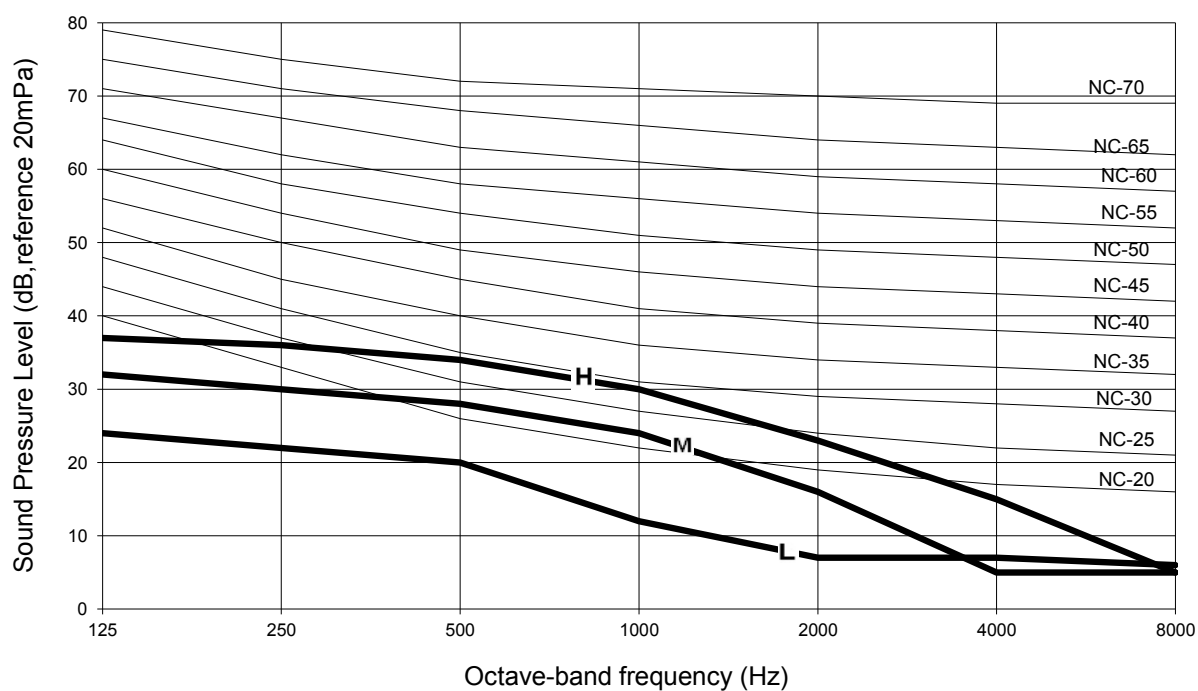
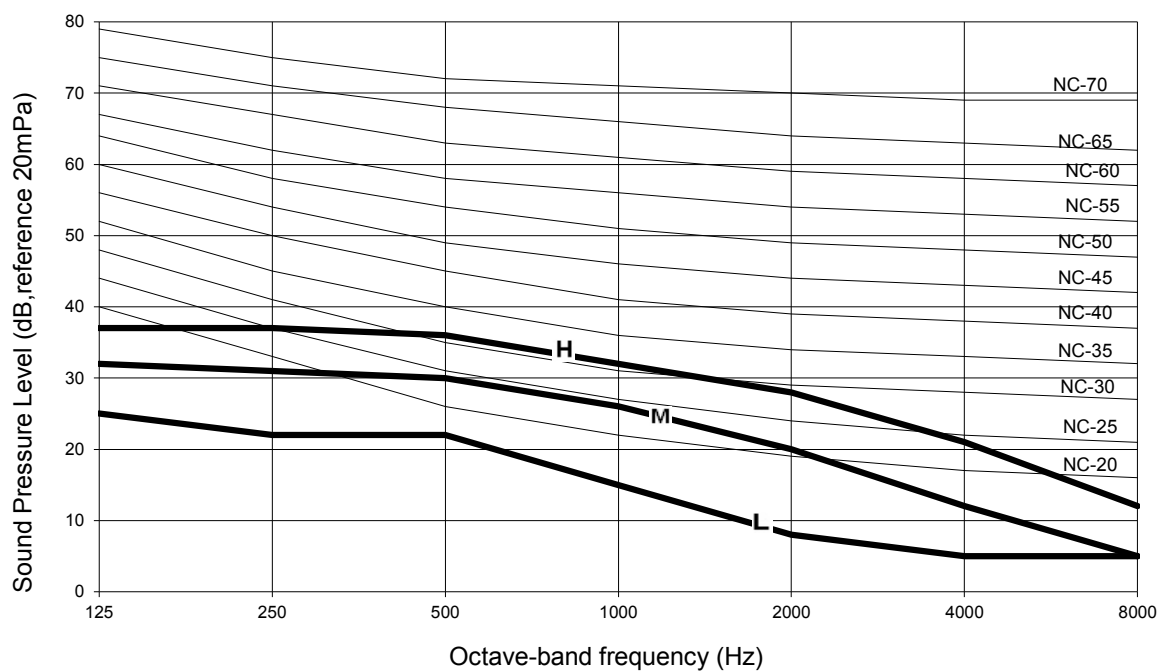


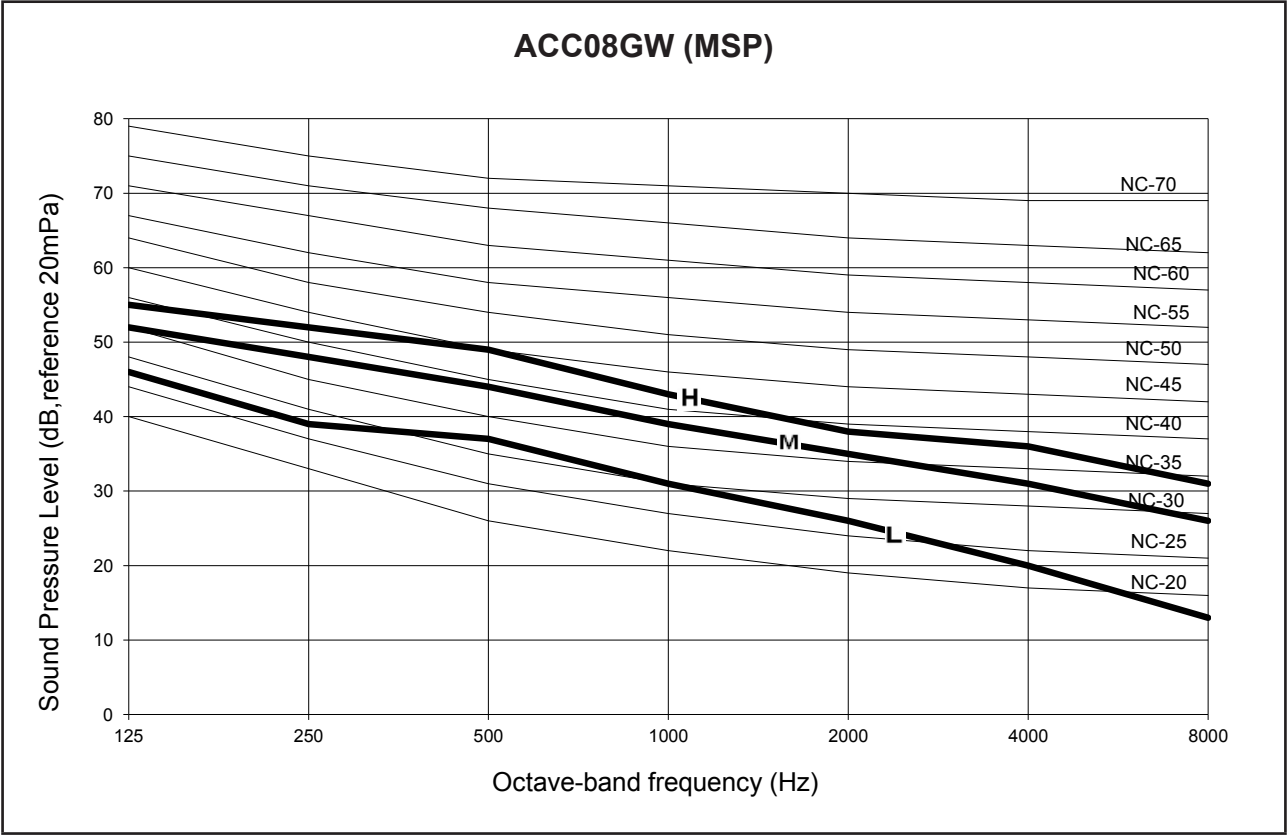
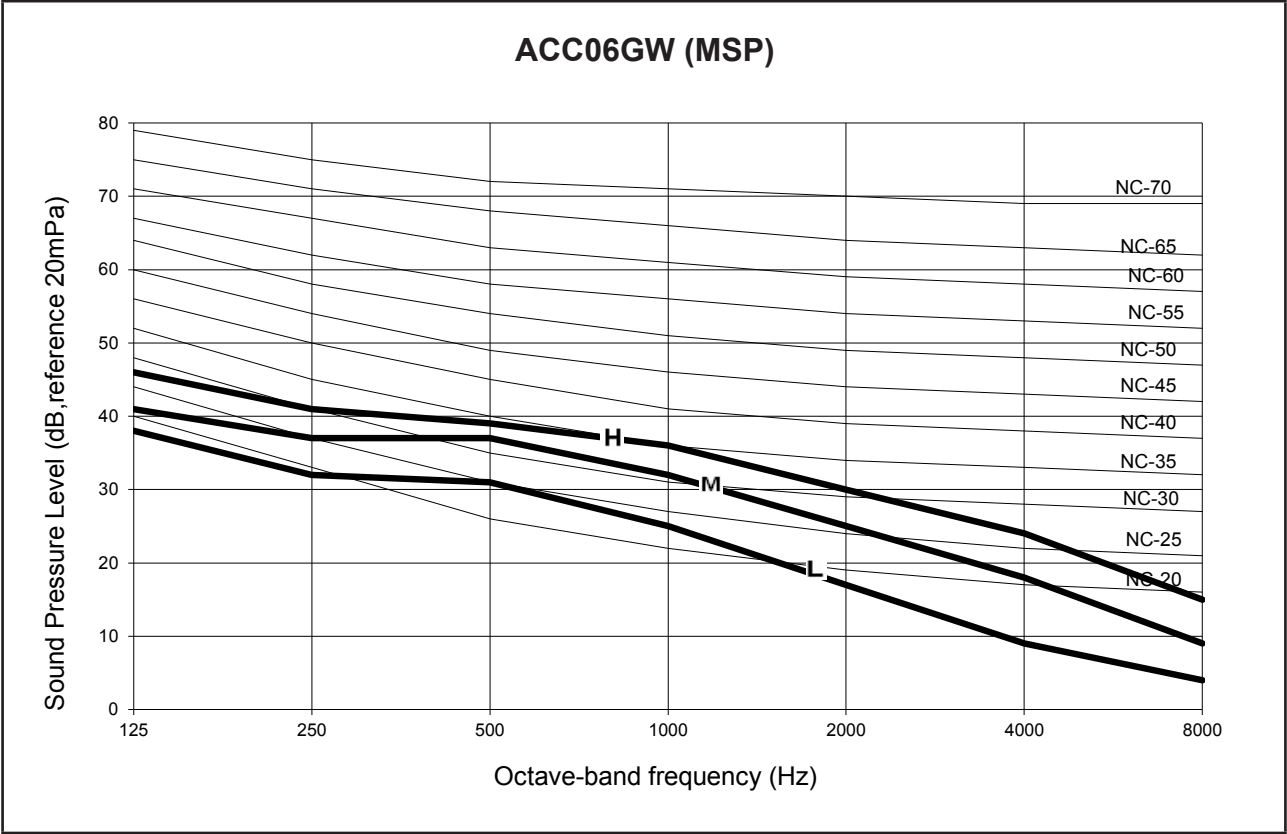


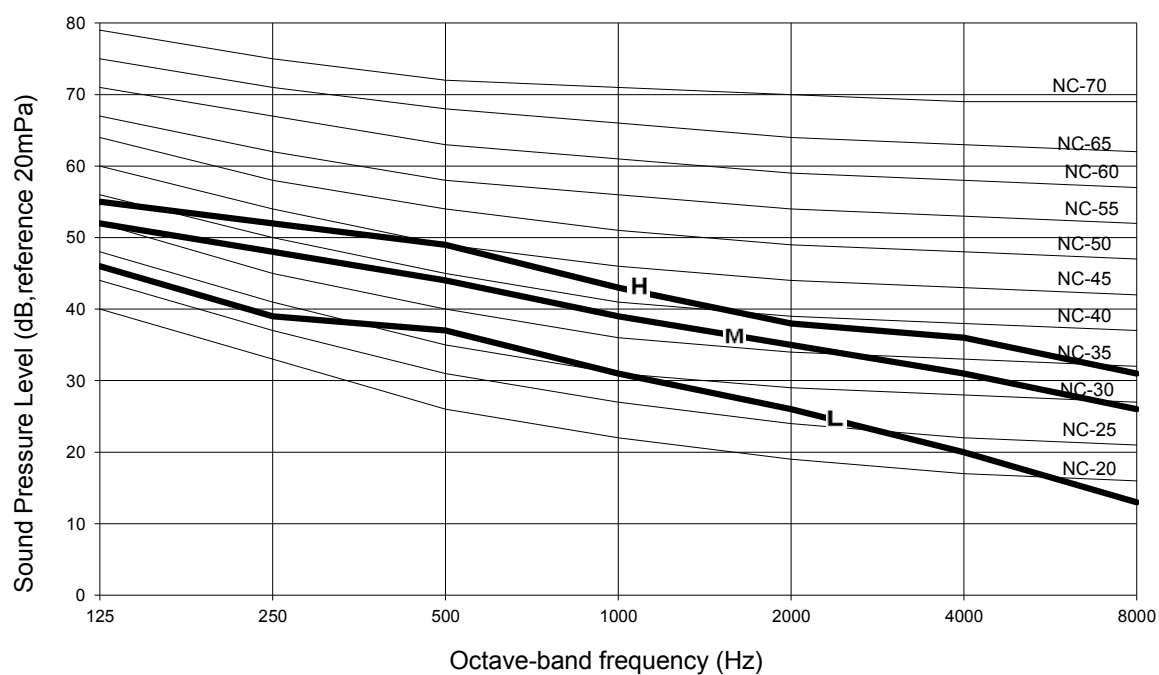
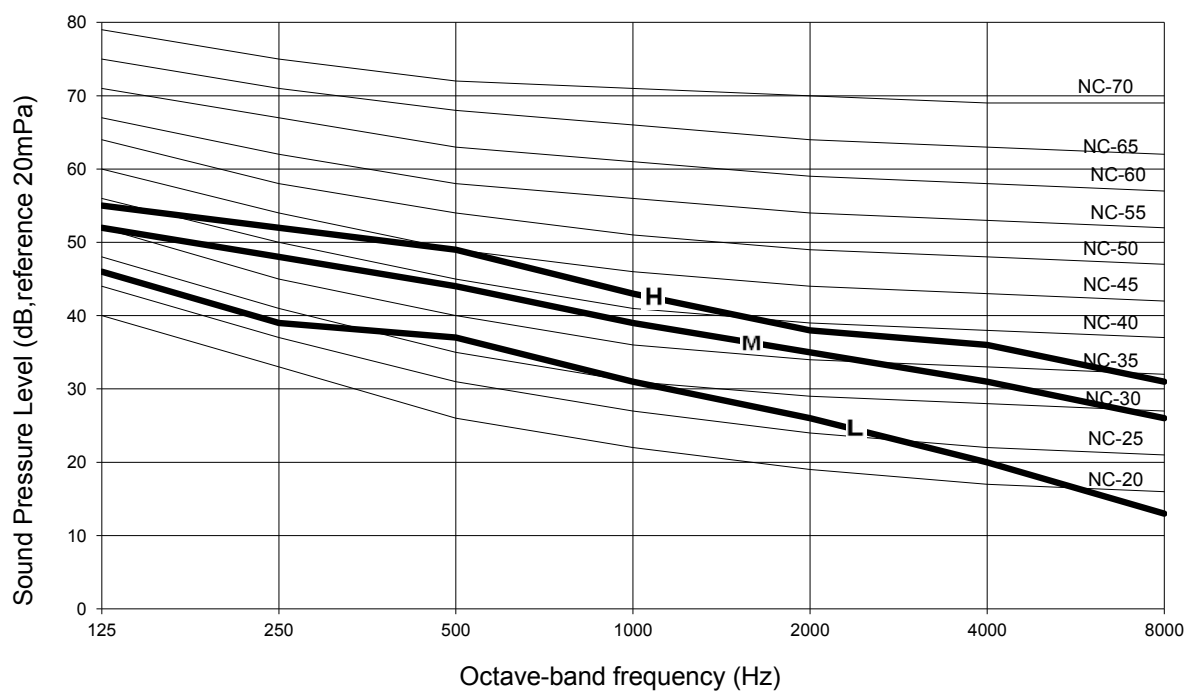


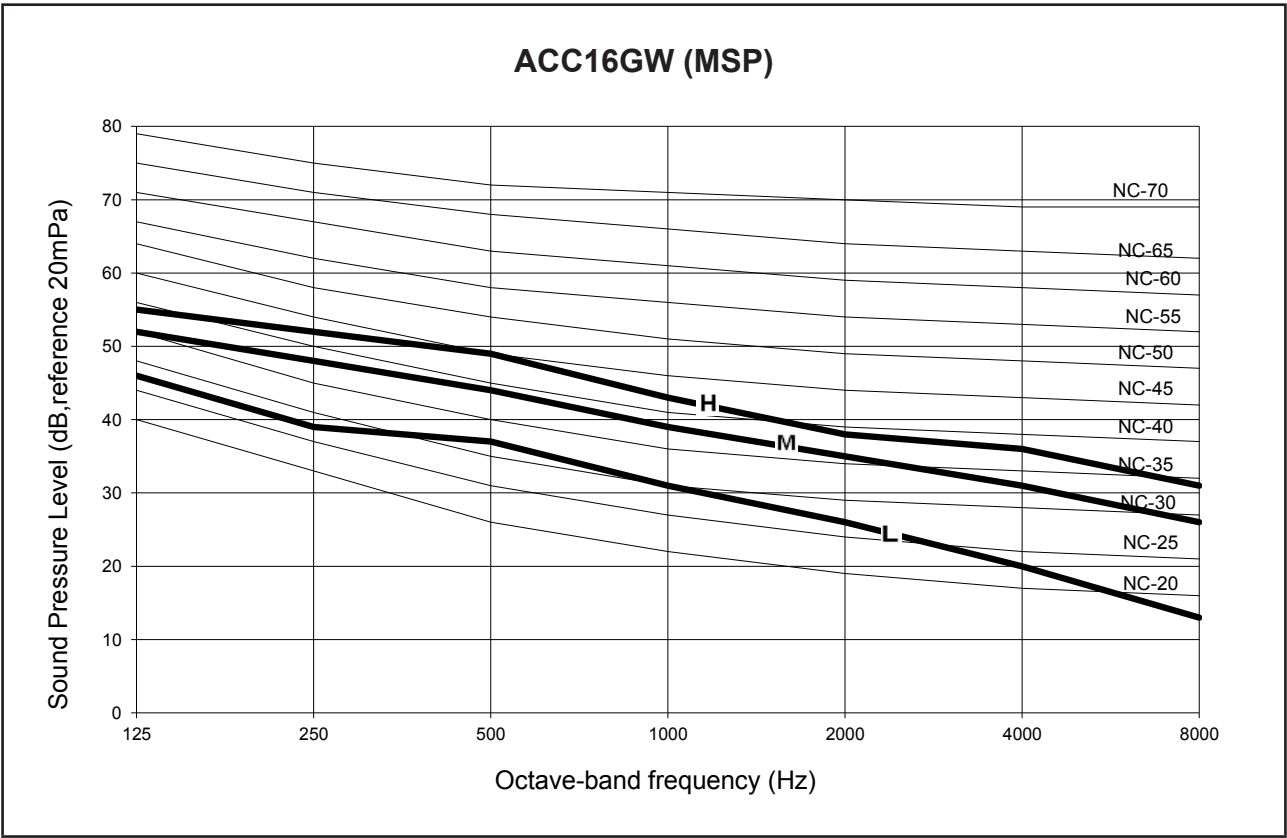
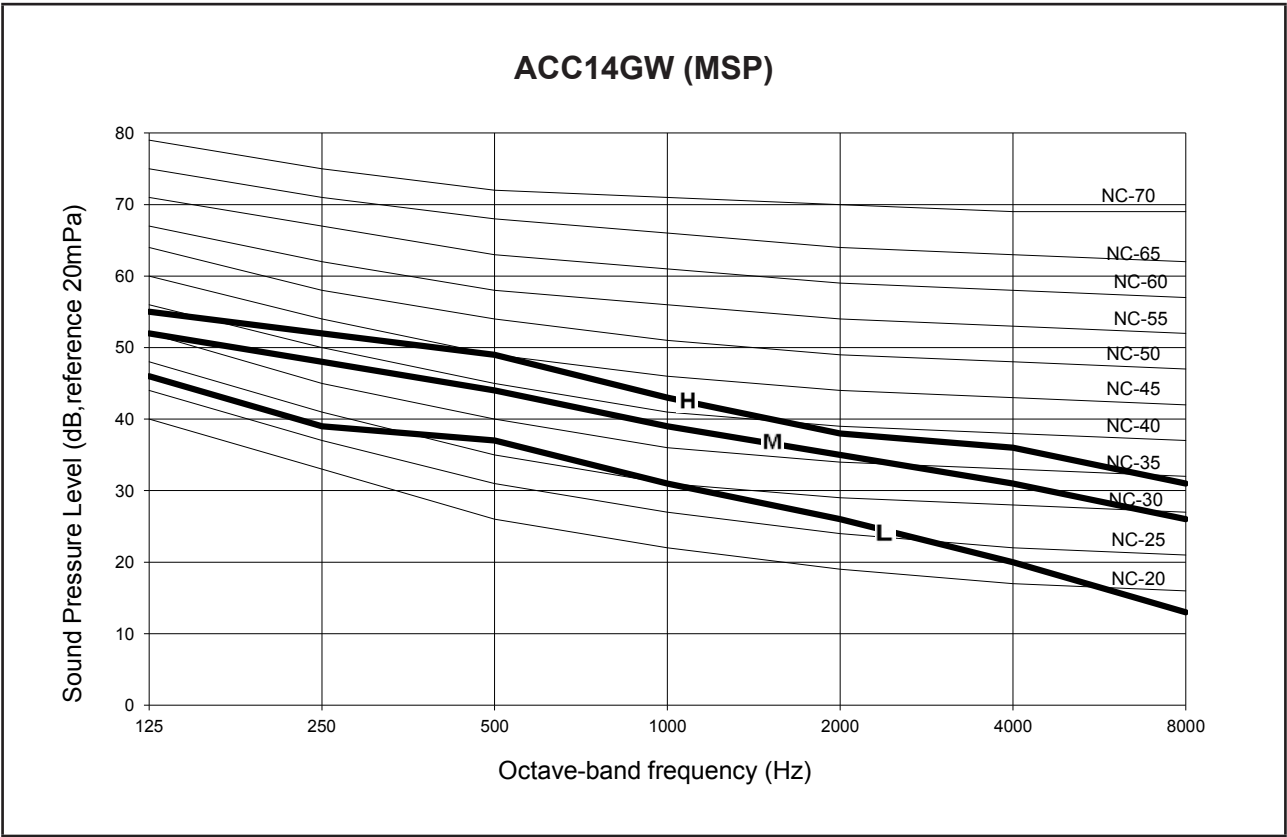
ACC06GW (LSP)**ACC08GW (LSP)**

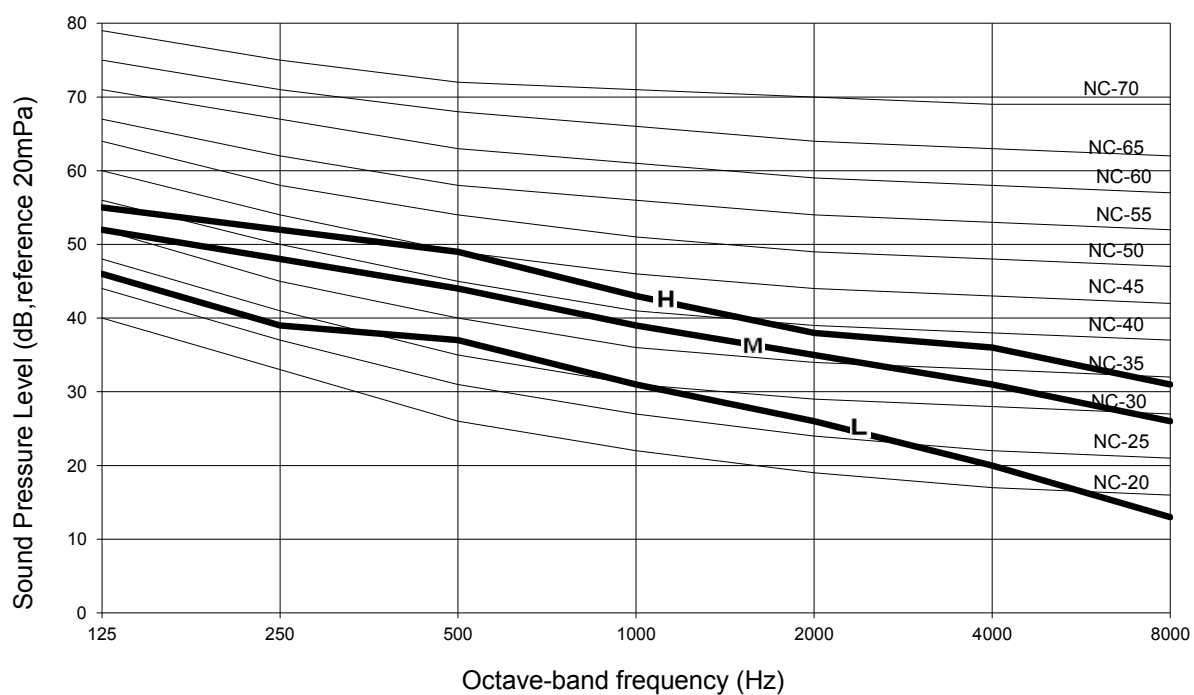
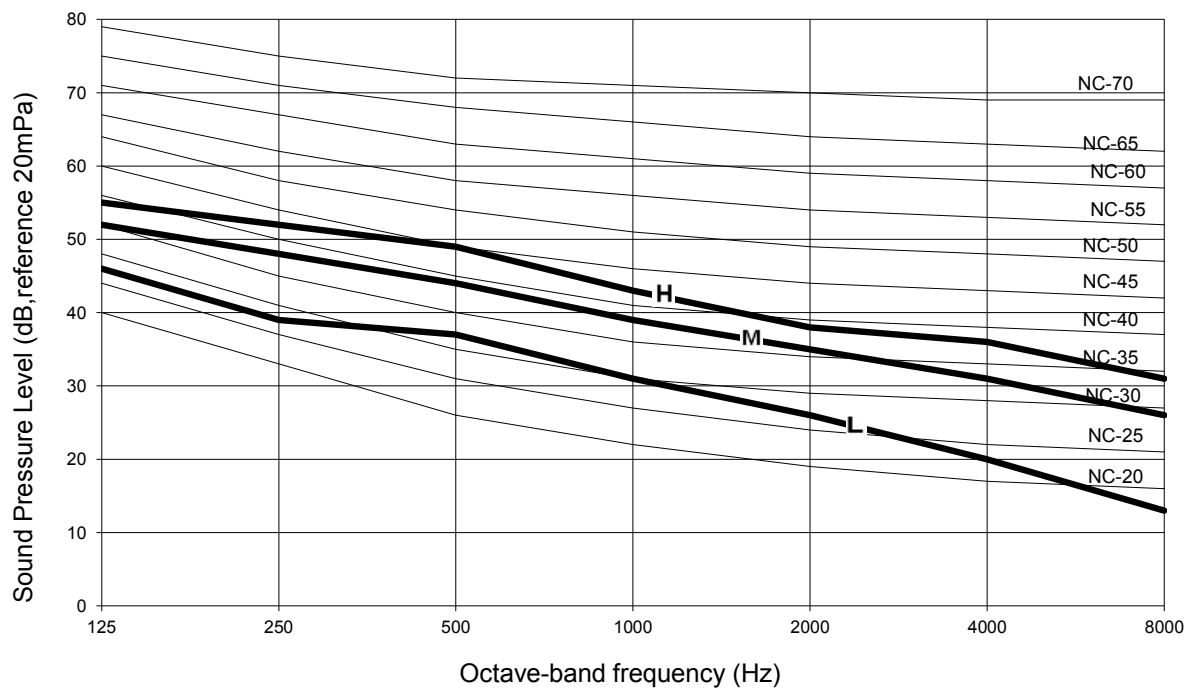


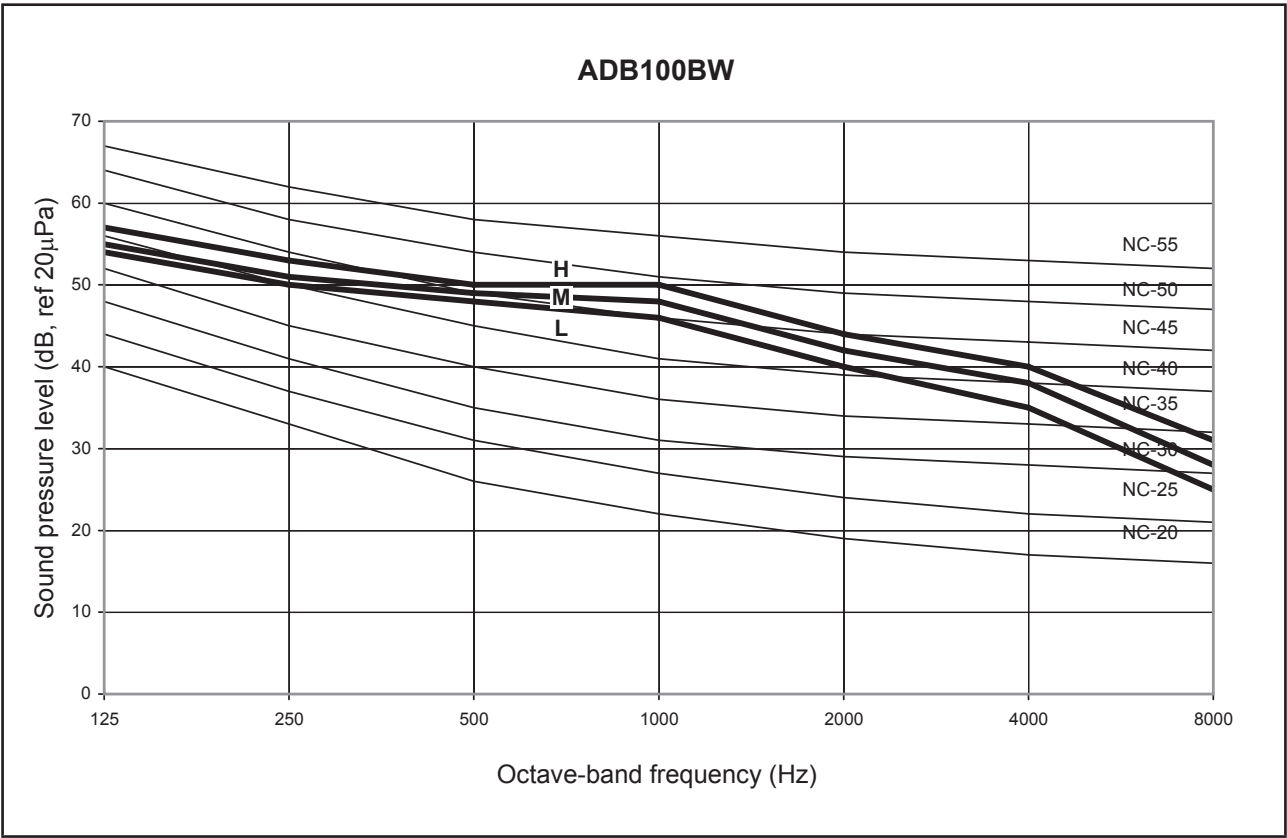
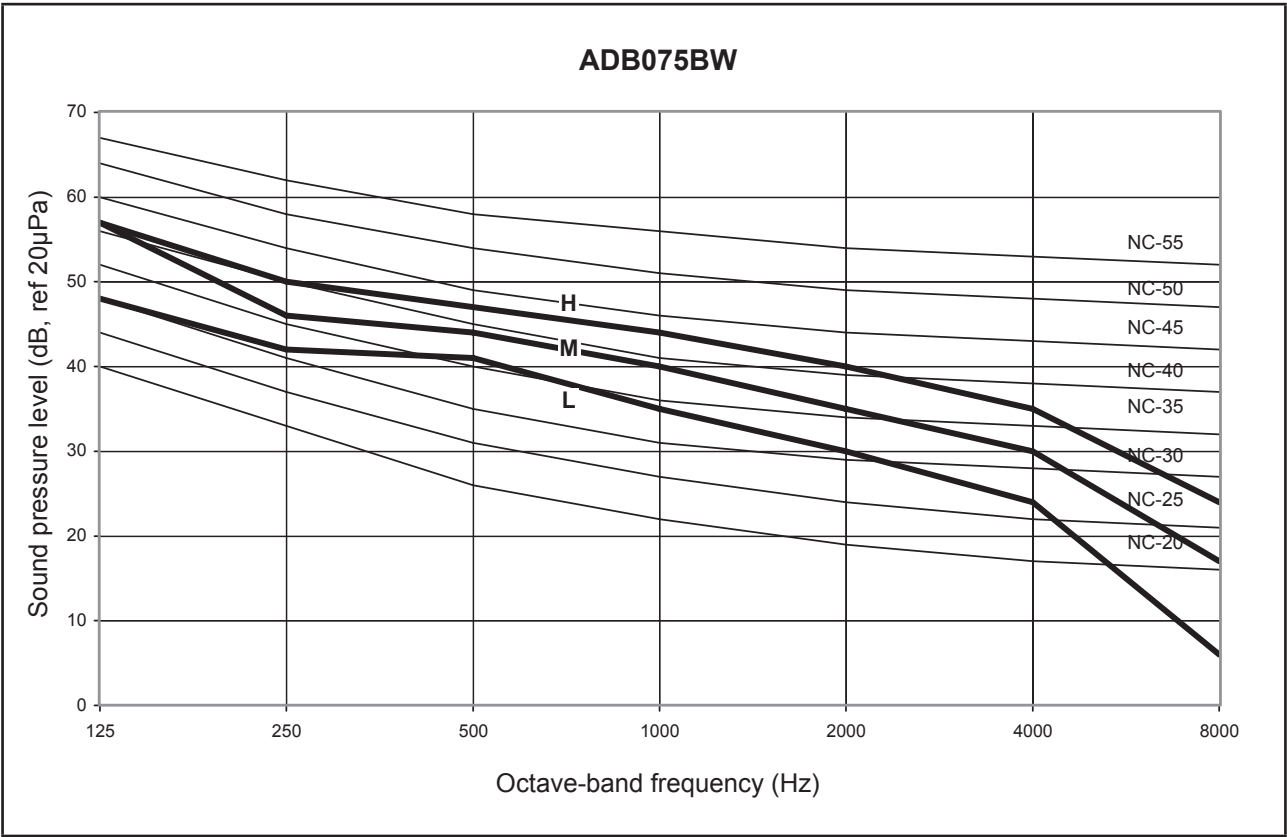
ACC03GW (MSP)**ACC04GW (MSP)**

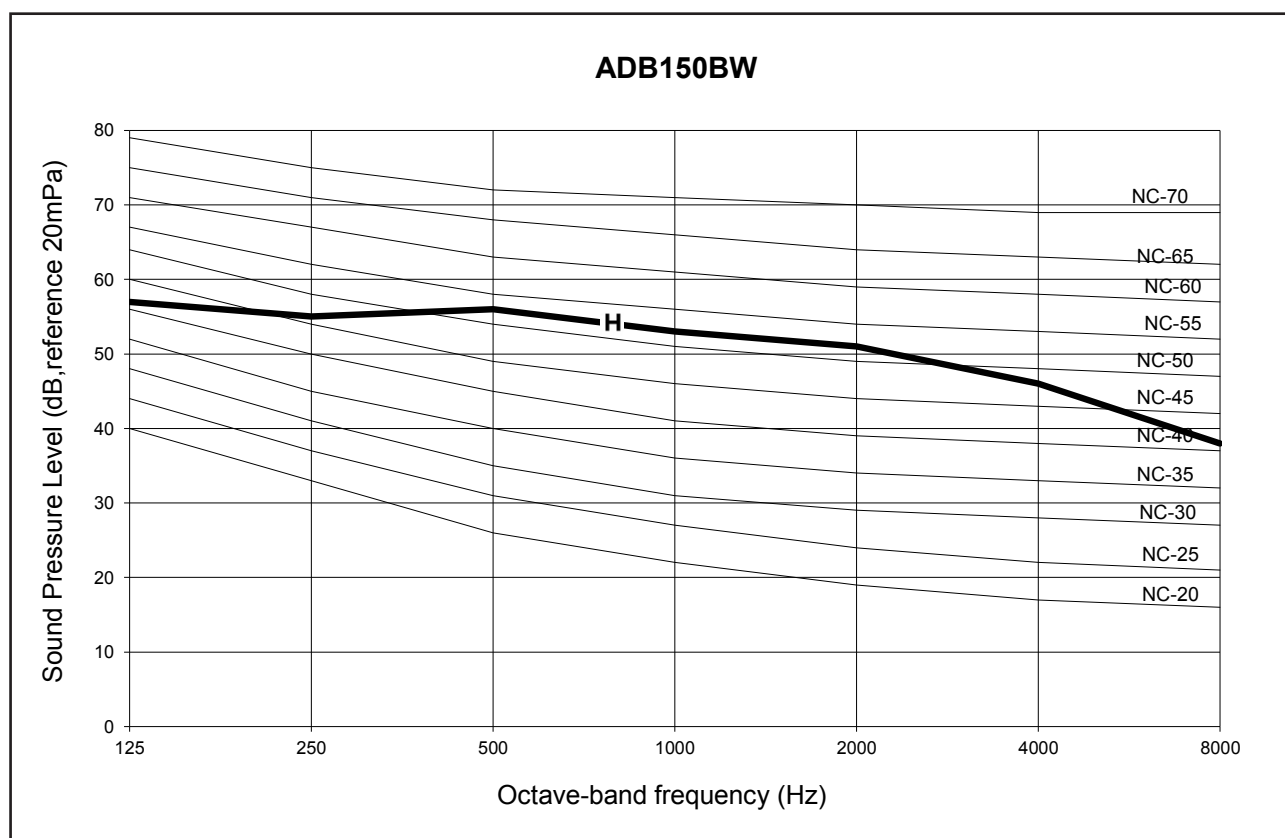
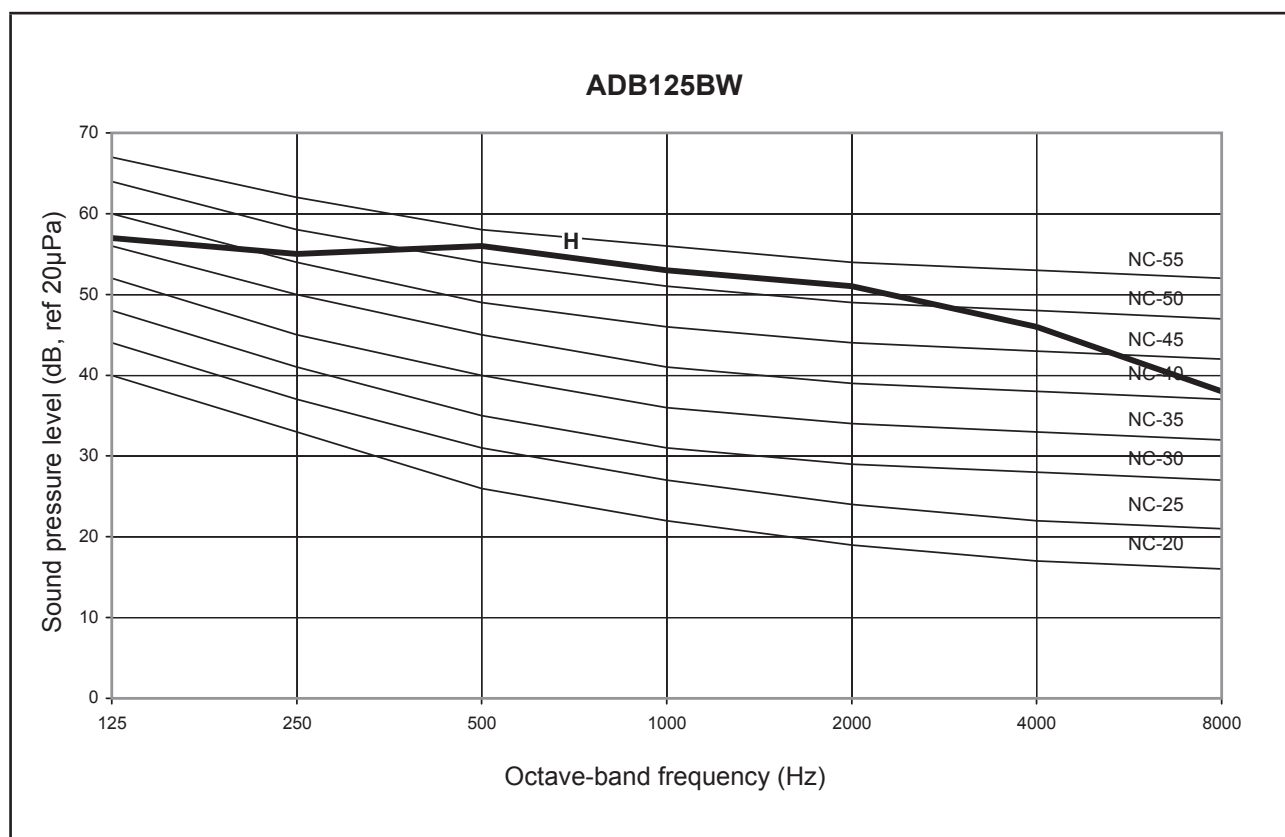


ACC10GW (MSP)**ACC12GW (MSP)**



ACC18GW (MSP)**ACC20GW (MSP)**





Selection Process

Fan Performance Chart

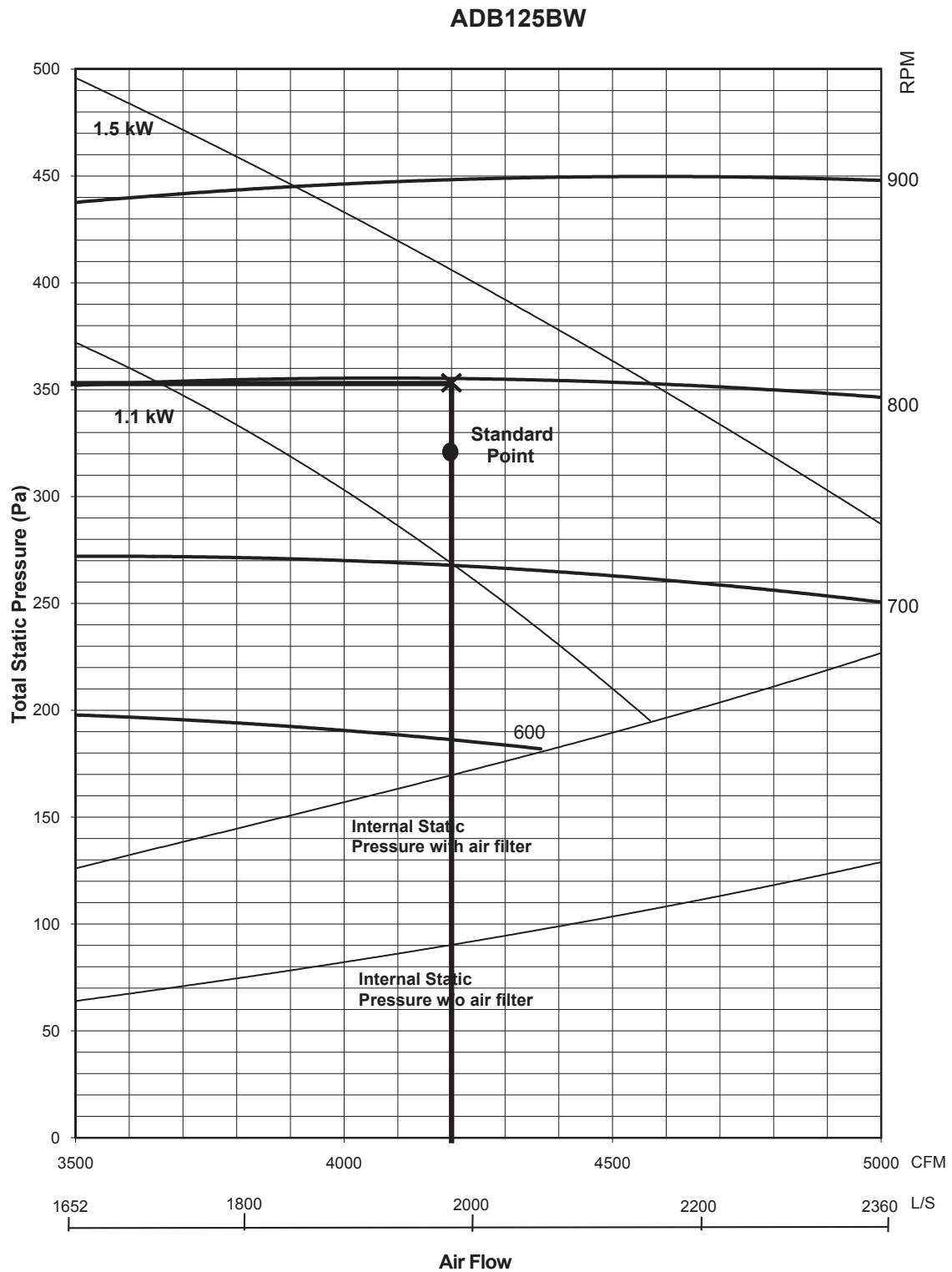
Example 1 :

The following are the design requirements for ADB125W unit:			
Model:		ADB125BW	
Supply Air Quantity	=	4200	CFM
External Static Pressure	=	180	Pa
Step 1:	<p>From the fan curve (at 4200 CFM), Standard operating system;</p> <p>Total Static Pressure = 320 Pa</p> <p>Internal Static Pressure = 171 Pa</p> <p>External Static Pressure = 149 Pa</p> <p>External Static Pressure of 149 Pa did not fulfill the design requirements.</p>		
Step 2:	<p>Therefore at 4200 CFM and 180 Pa External static pressure,</p> <p>Total Static Pressure = 171 + 180 Pa</p> <p>= 351 Pa</p>		
Step 3:	<p>From the fan curve, the design requirement calls for RPM about 800, whereas the unit can only deliver RPM about 760 under the same CFM. Therefore, it is necessary to resize the pulley sizes.</p> <p>From the table:</p> <p>Motor pulley = 80 mm</p> <p>Blower pulley = 160 mm</p> <p>Motor RPM = 1405</p> <p>In order to obtain 800 RPM, we recalculate the new blower pulley as: (while maintaining the motor pulley)</p> <p>Db = 80 x (1405/800)</p> <p>= 140.5 mm</p> <p>The nearest pulley size will be a diameter of 140mm</p> <p>Recheck, with Db = 140mm</p> <p>Blower pulley = 1405 x (80/140)</p> <p>= 803</p> <p>We thus need to change the blower pulley from 160mm to 140mm in order to obtain the higher operating static pressure.</p>		
Step 4:	<p>When the pulley is changed, the V-belt length must be rechecked. We have for horizontal air throw configuration:</p> <p>V-belt length, L = 2C + 1.57 (Db + Dm)</p> <p>= (2 x 340) + 1.57 (80 + 140)</p> <p>= 1025.4mm</p> <p>We thus can use a belt with a length of 1030mm</p> <p>where, C = distance between the centres of the two pulleys</p> <p>Db = diameter of blower pulley</p> <p>Dm = diameter of motor pulley</p>		
Step 5:	<p>From the fan curve, we can also notice that the motor power input has increased. At the new operating point, the power is approximately 1.25 kW.</p> <p>By applying a safety factor of 1.2 to account for losses, we calculate that the motor power input requirement should be = 1.25 x 1.2 = 1.5 kW</p> <p>Thus, the existing motor is still sufficient to drive the blower with the smaller 140mm pulley.</p>		
	<p>Summary:</p> <p>i) Fan motor kW = 1.5 kW</p> <p>ii) Blower pulley diameter = 140 mm</p> <p>iii) V-belt size = 1030 mm</p>		

The following table summarizes the pulley data, motor size used for the FUD series, as manufactured:

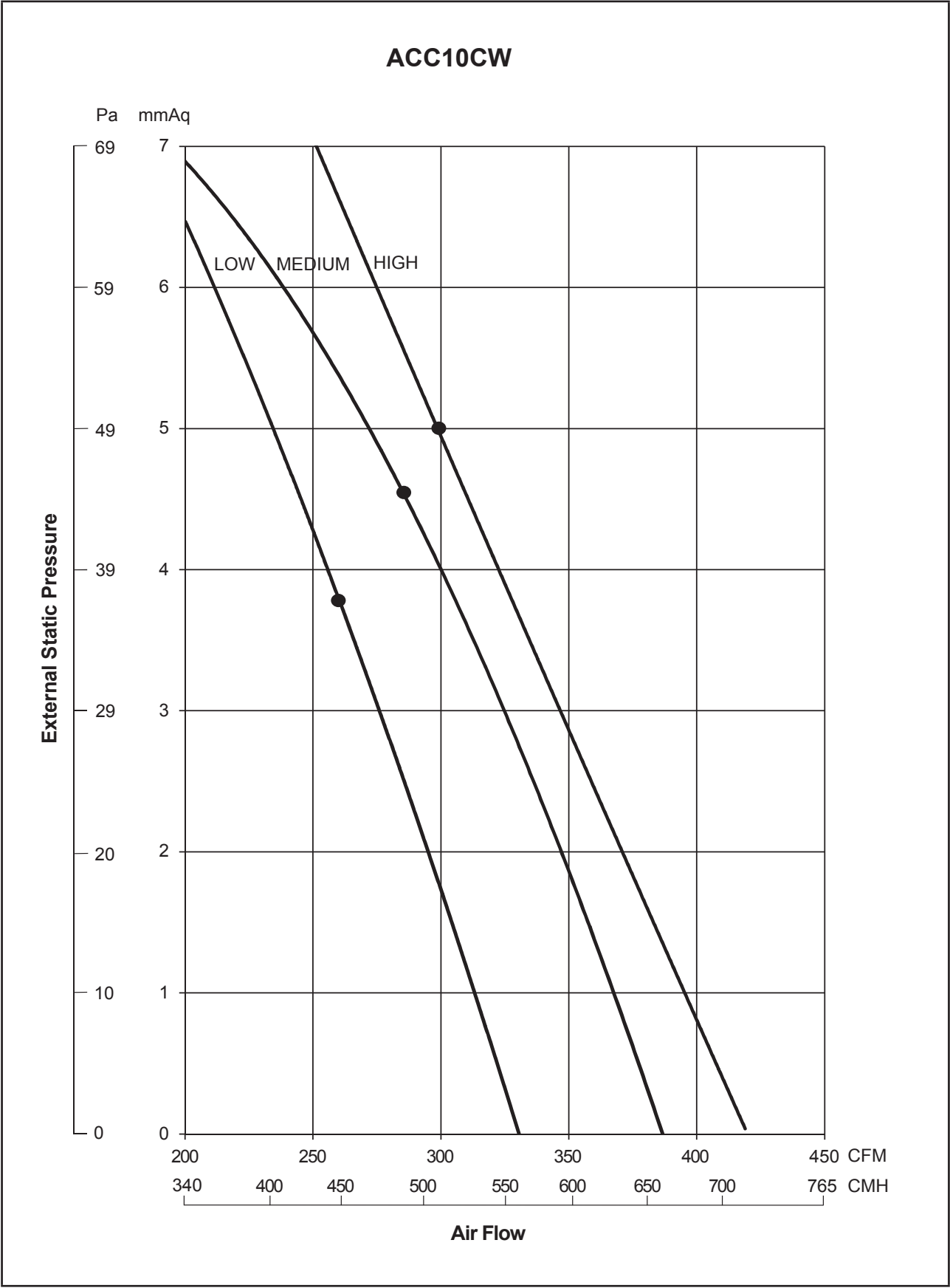
Model	Motor Size	Motor Speed	Motor Pulley Diameter	Blower Pulley Diameter	Pulley Center Distance, C		V-Belt Length	
					Horizontal	Vertical	Horizontal	Vertical
	kW	RPM			mm	mm	mm	mm
ADB125BW	1.5	1405	80	160	340	350	1060	1080
ADB150BW	1.5	1405	80	160	340	350	1060	1080

Example 1:

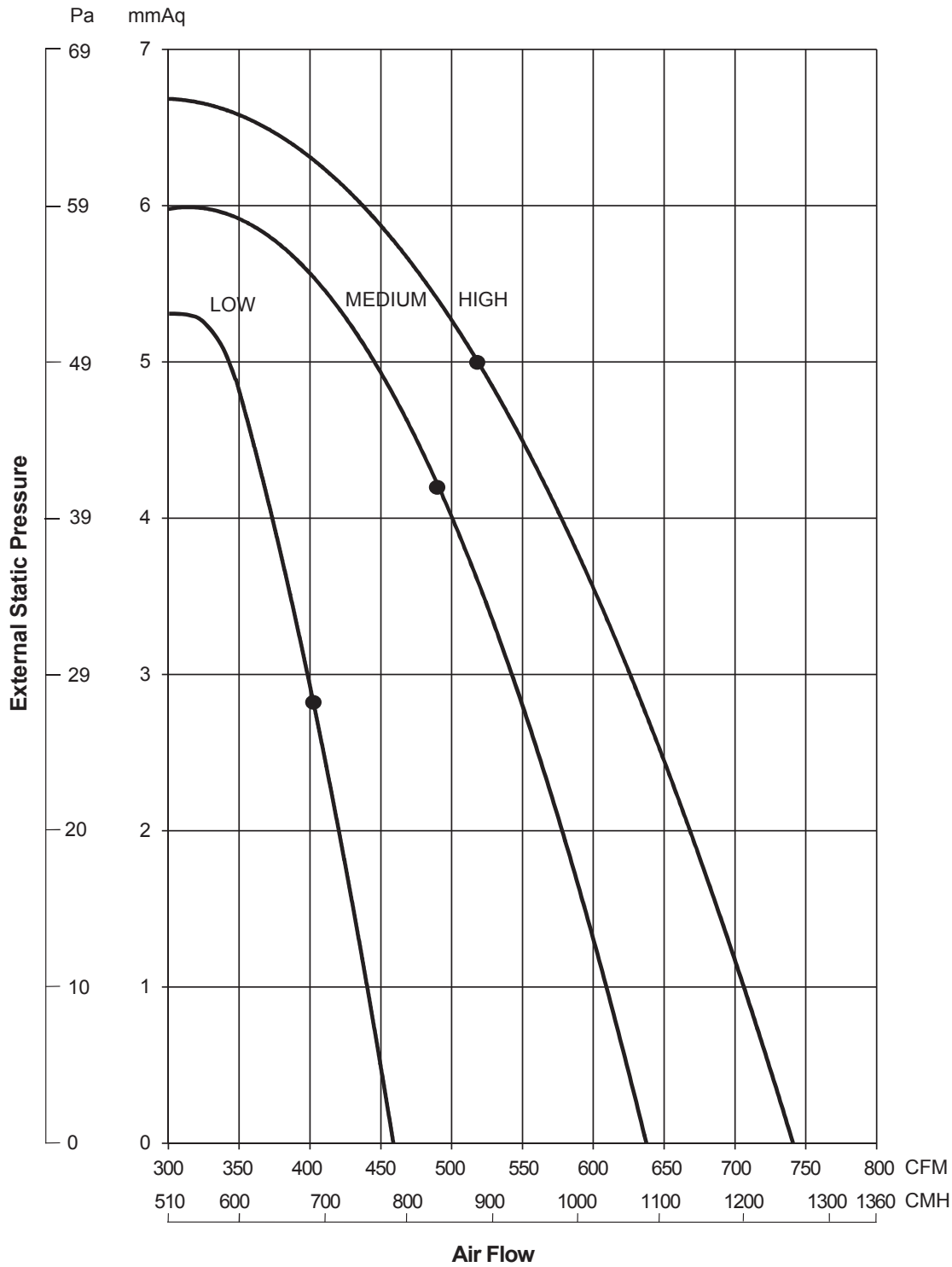


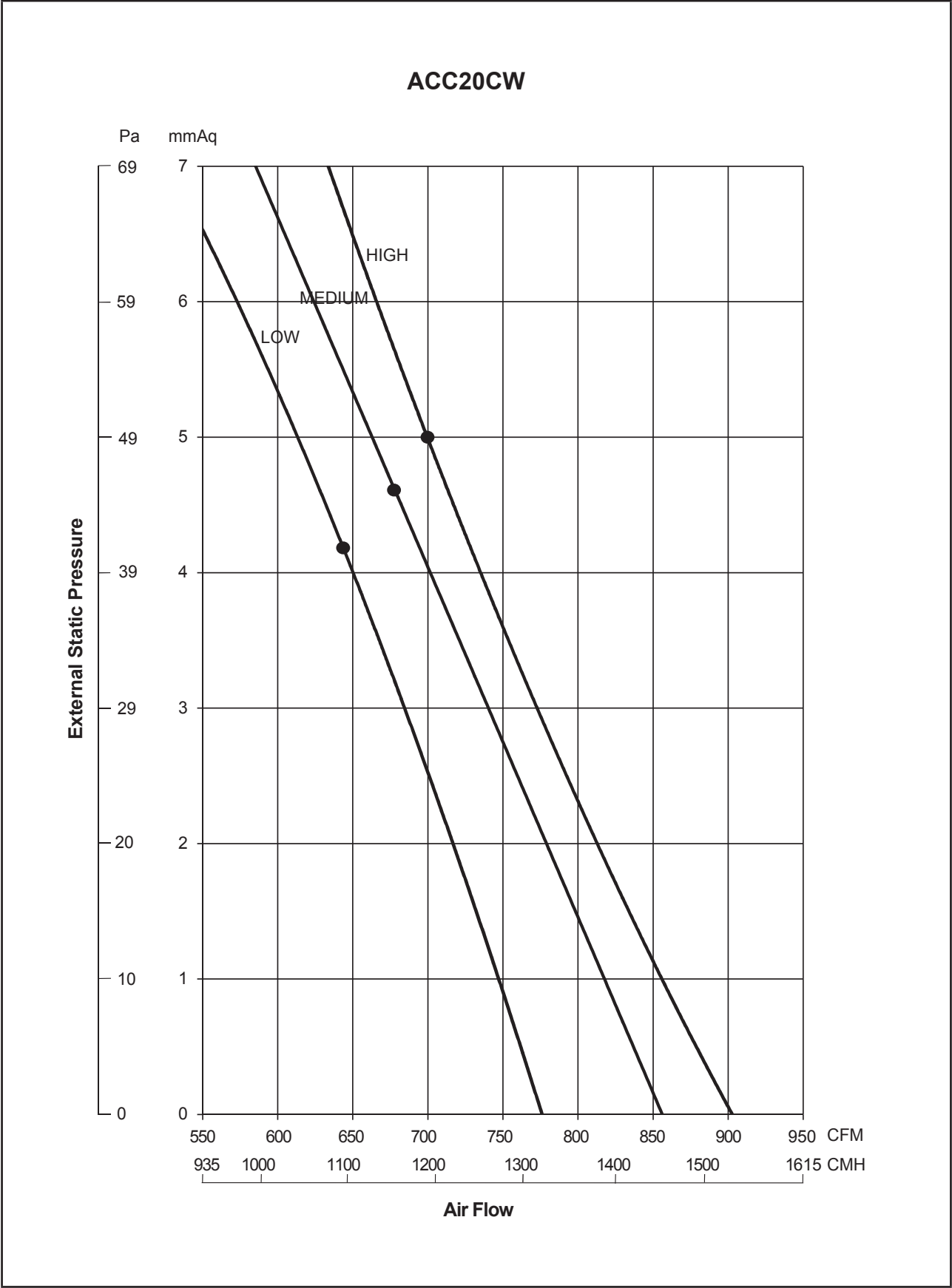
Fan Performance Chart

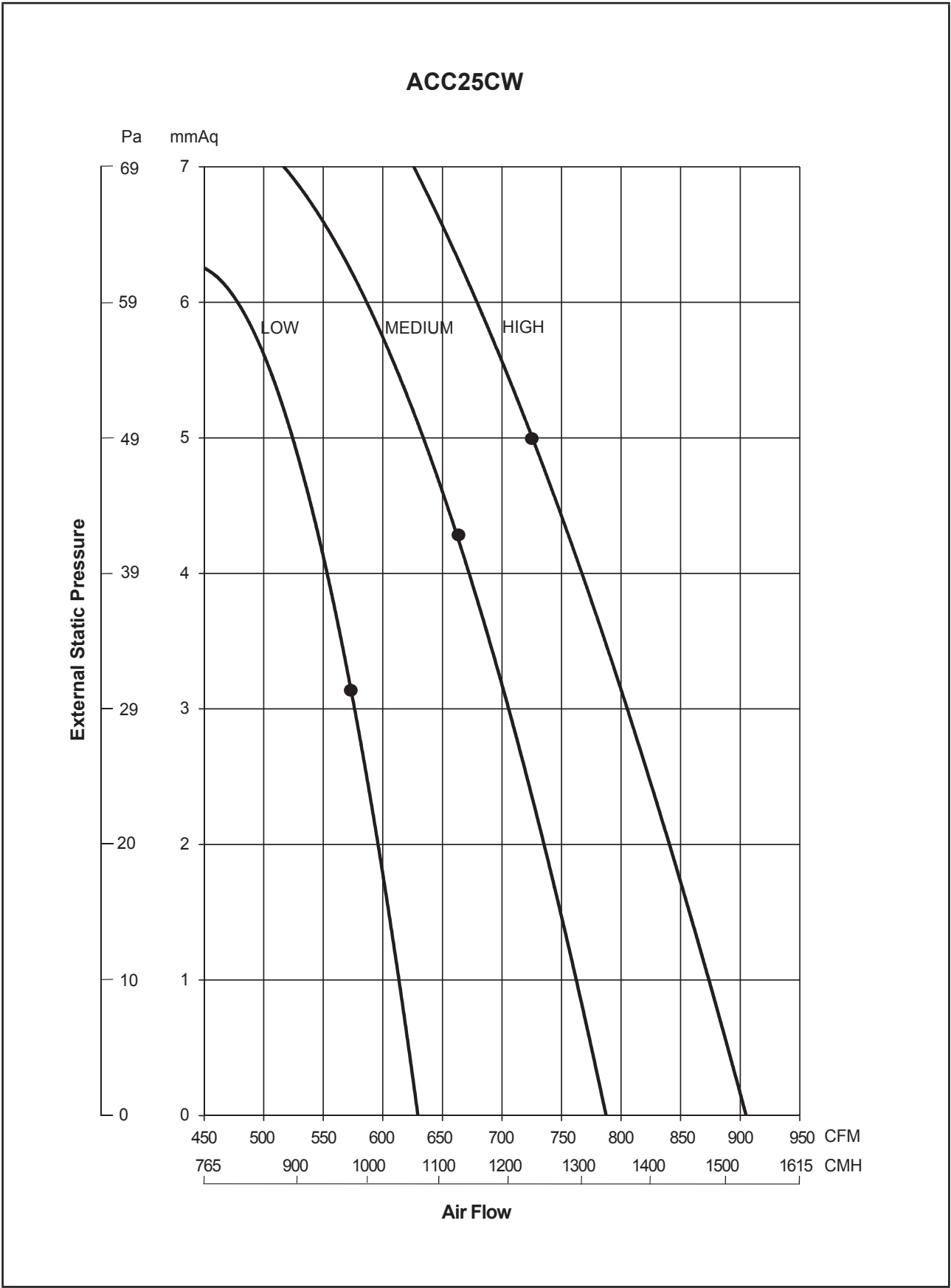
Fan Performance Curve

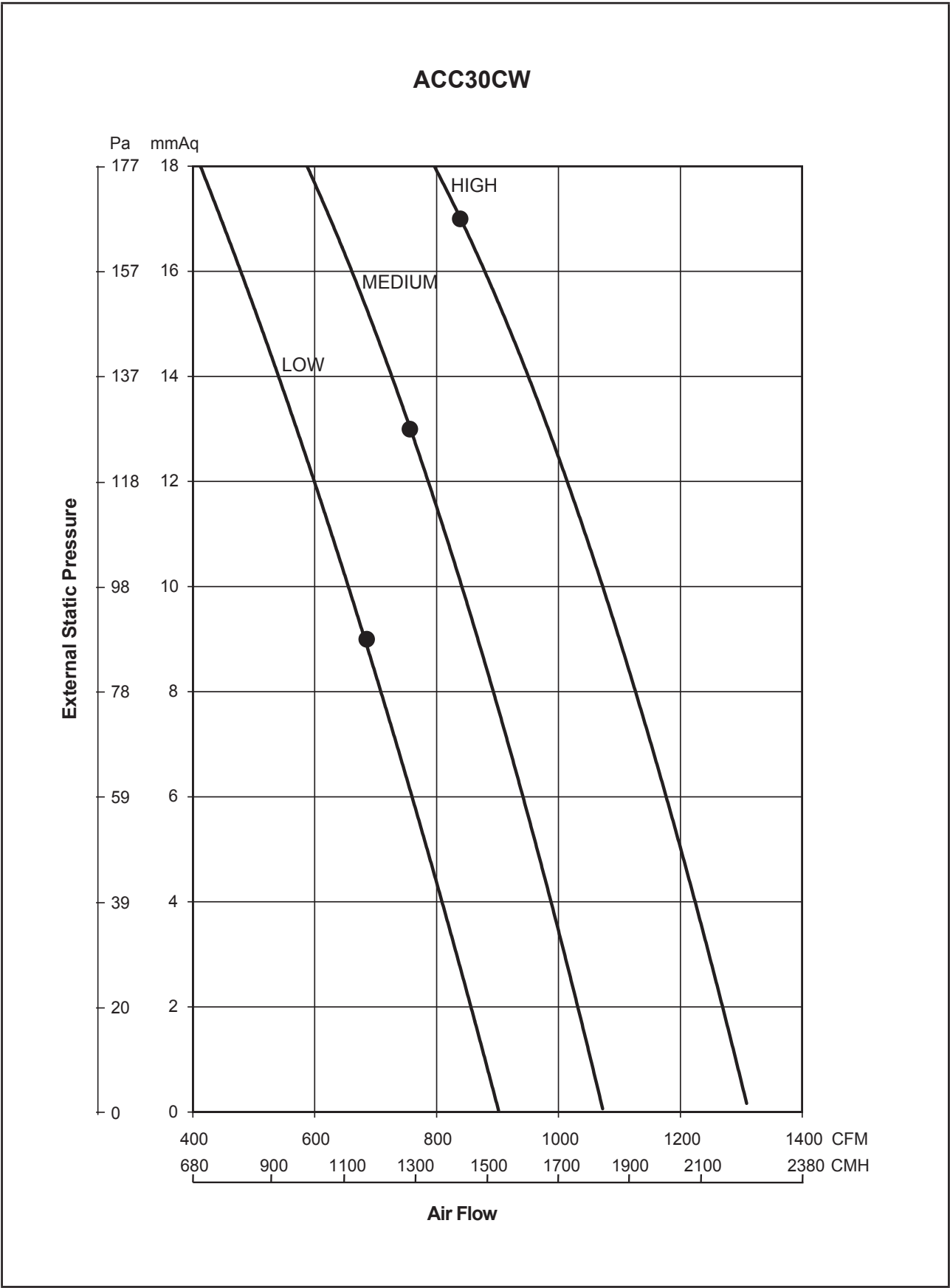


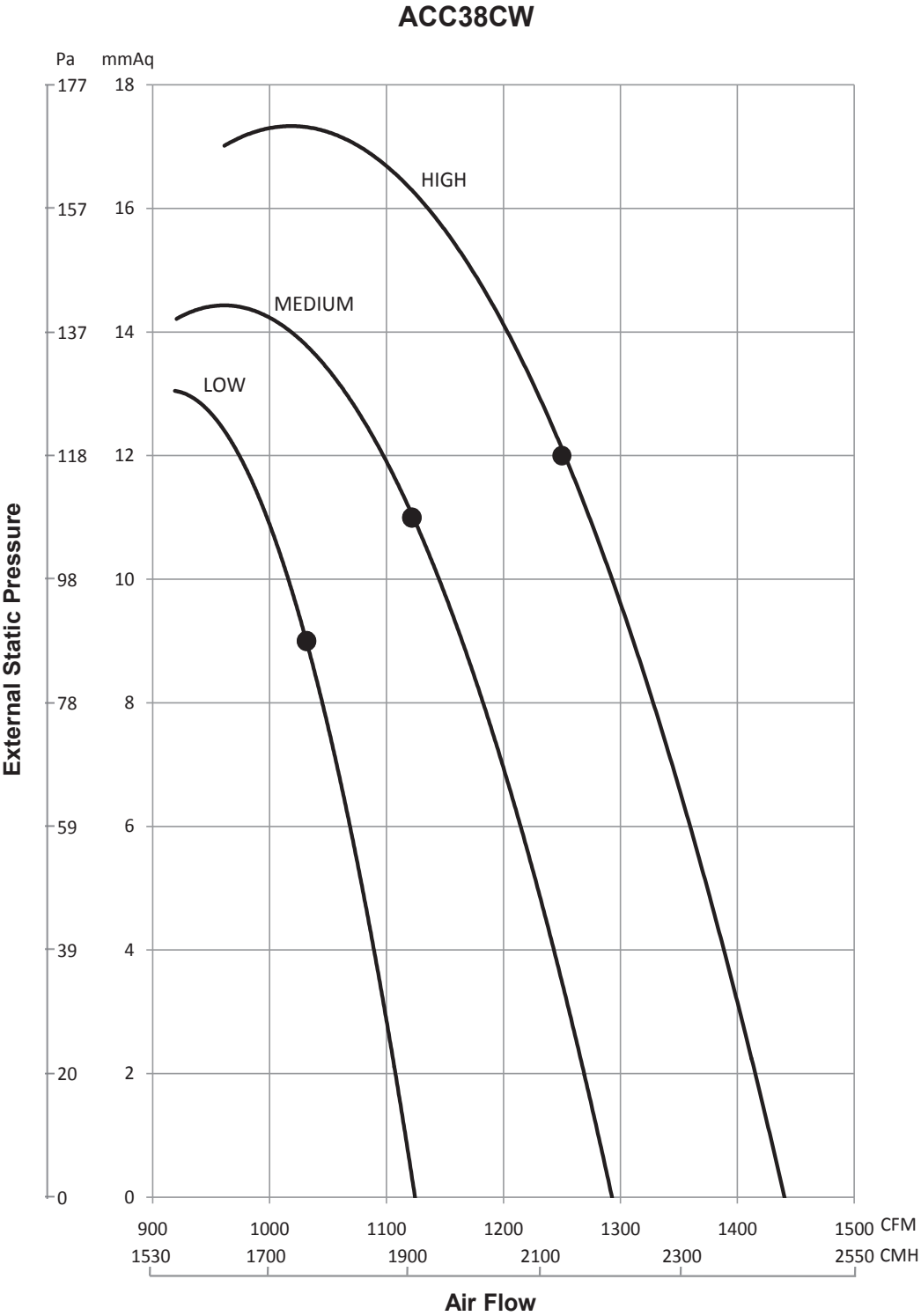
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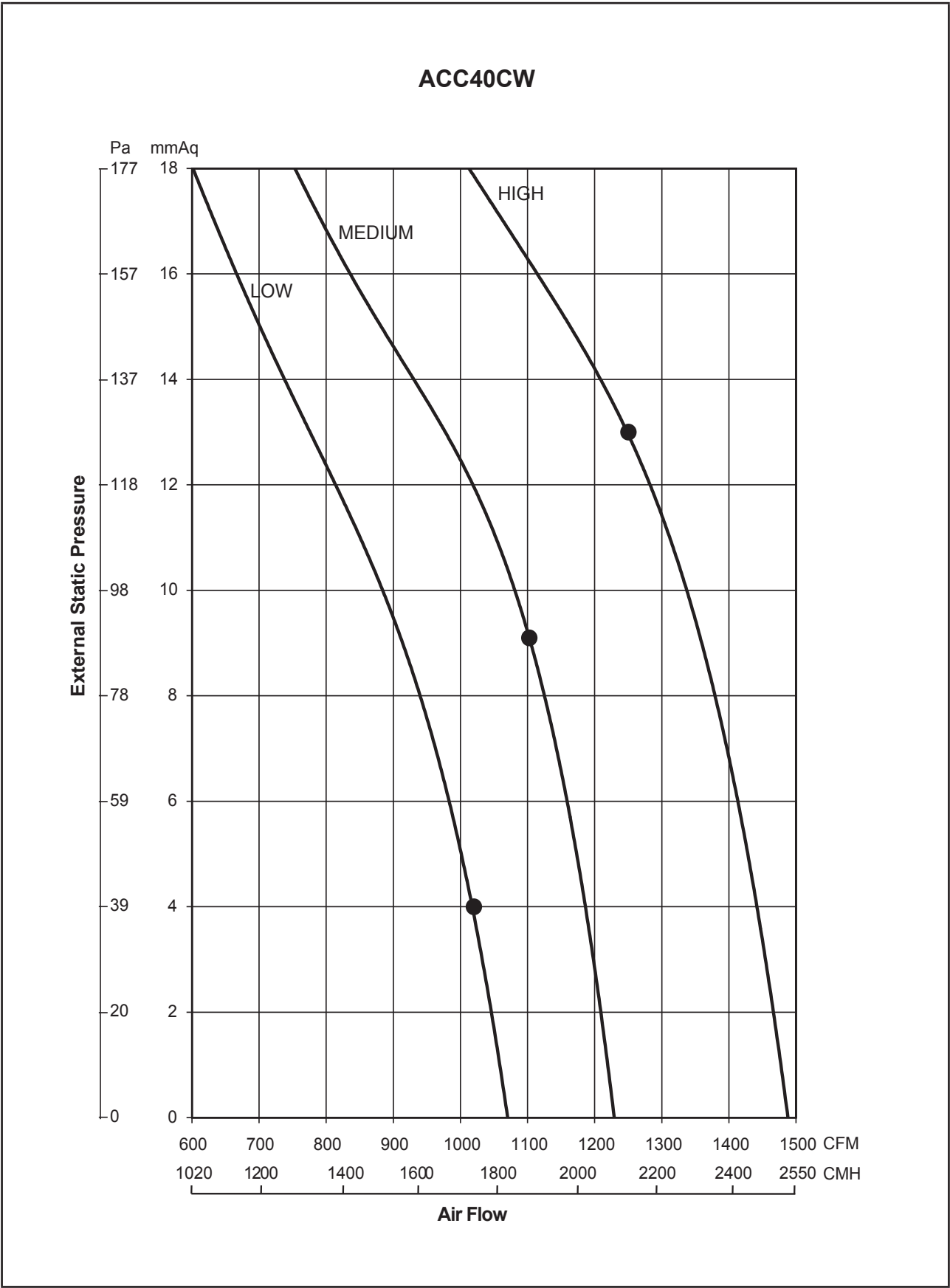


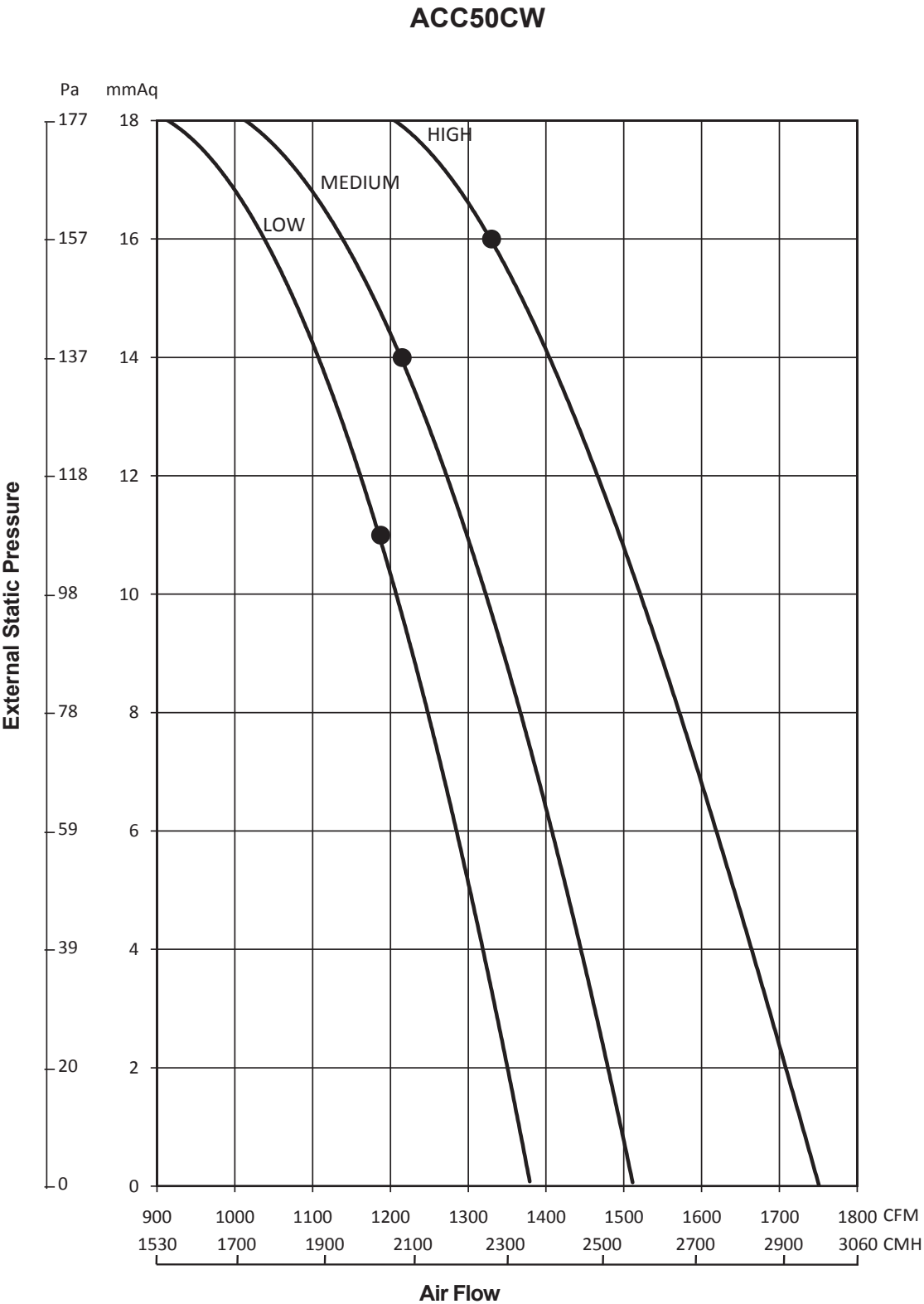


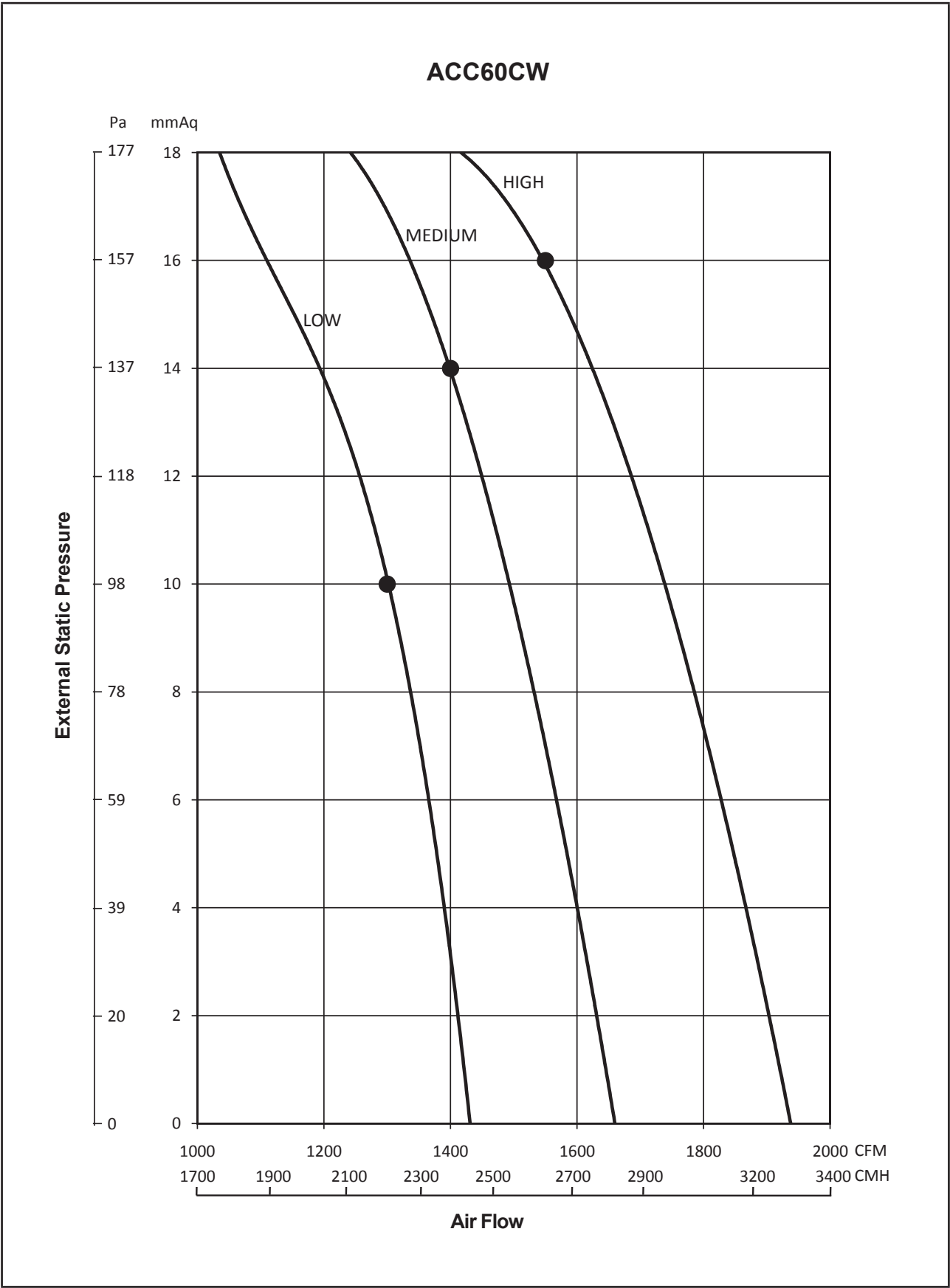


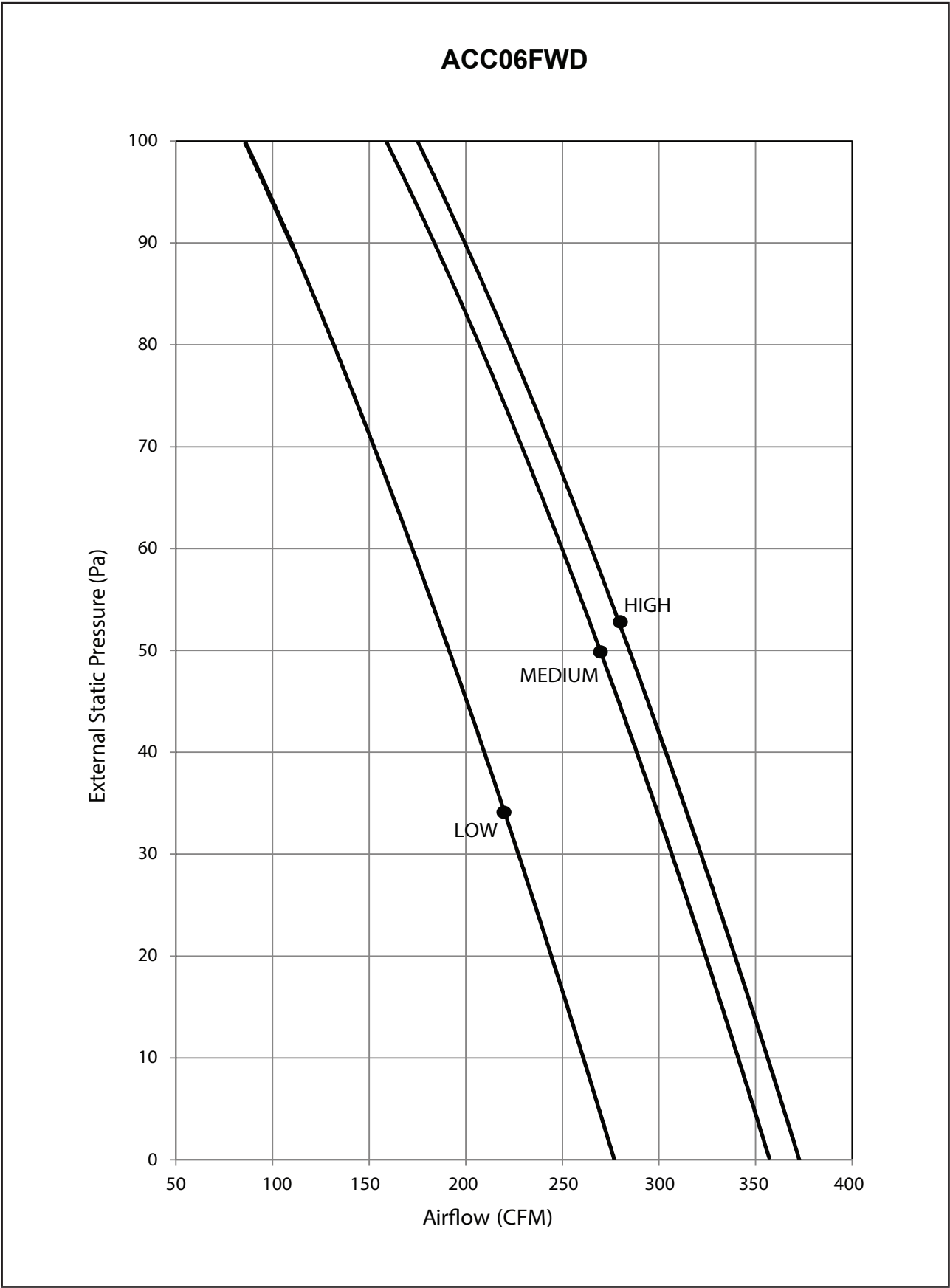


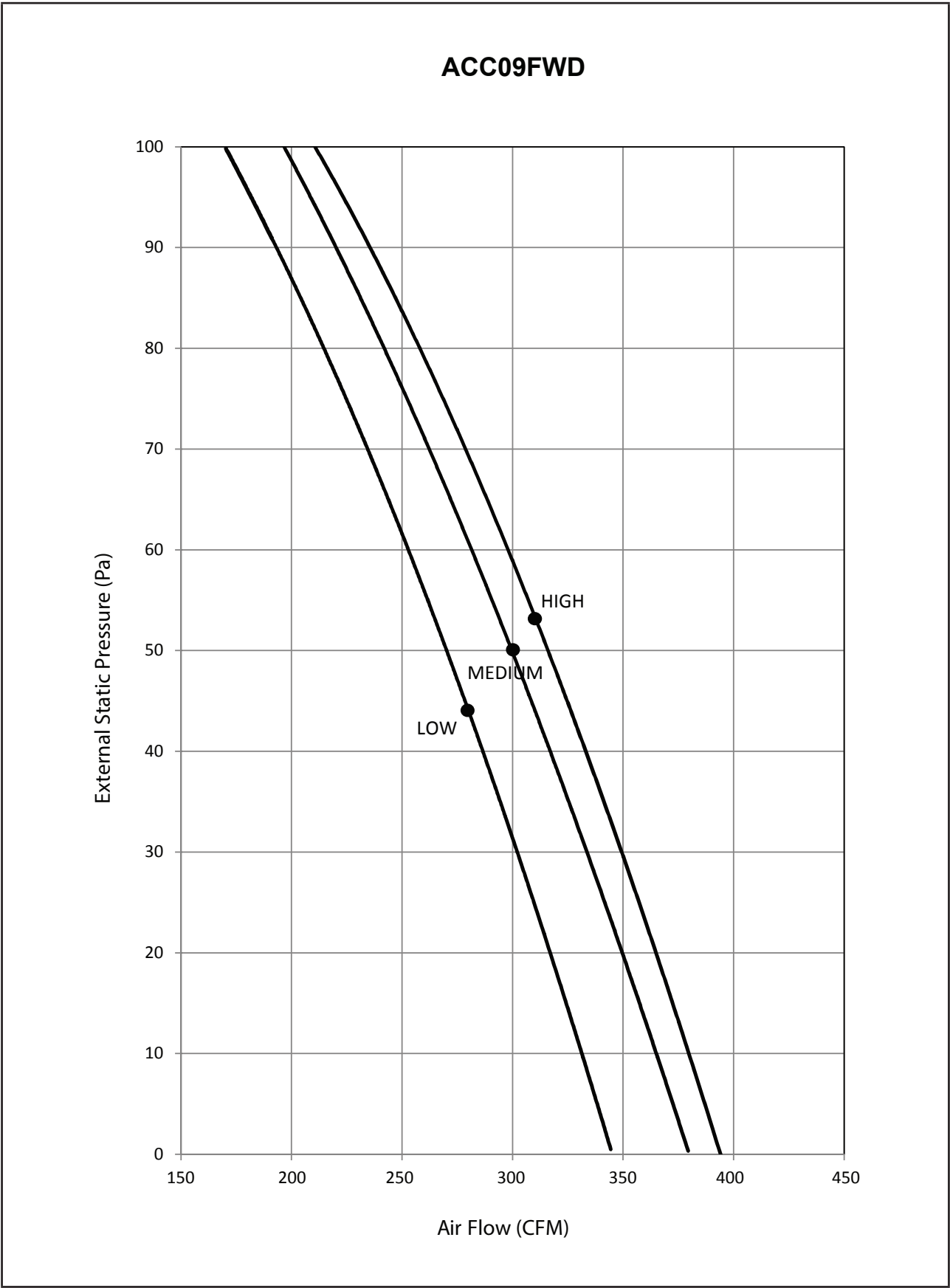


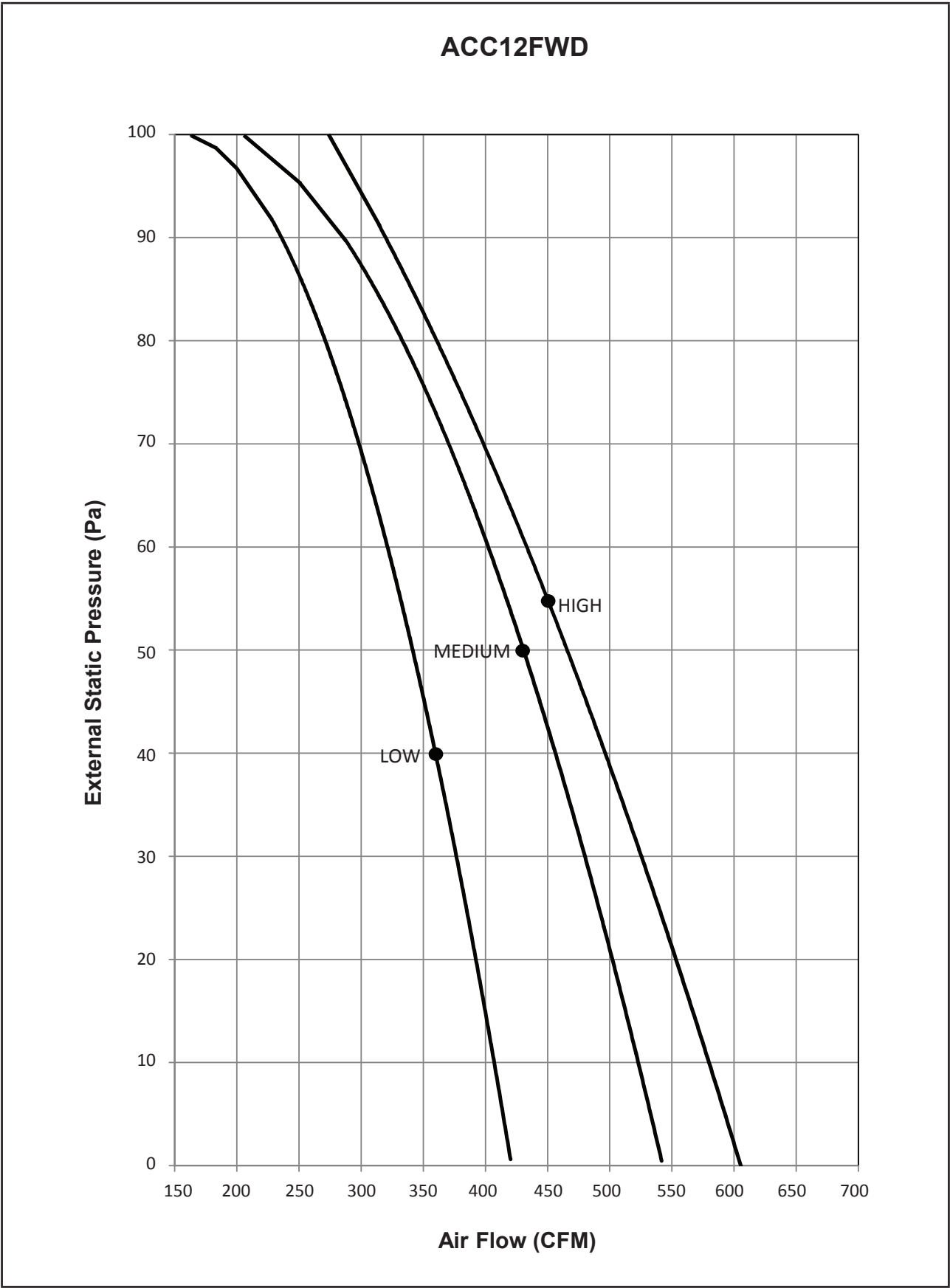


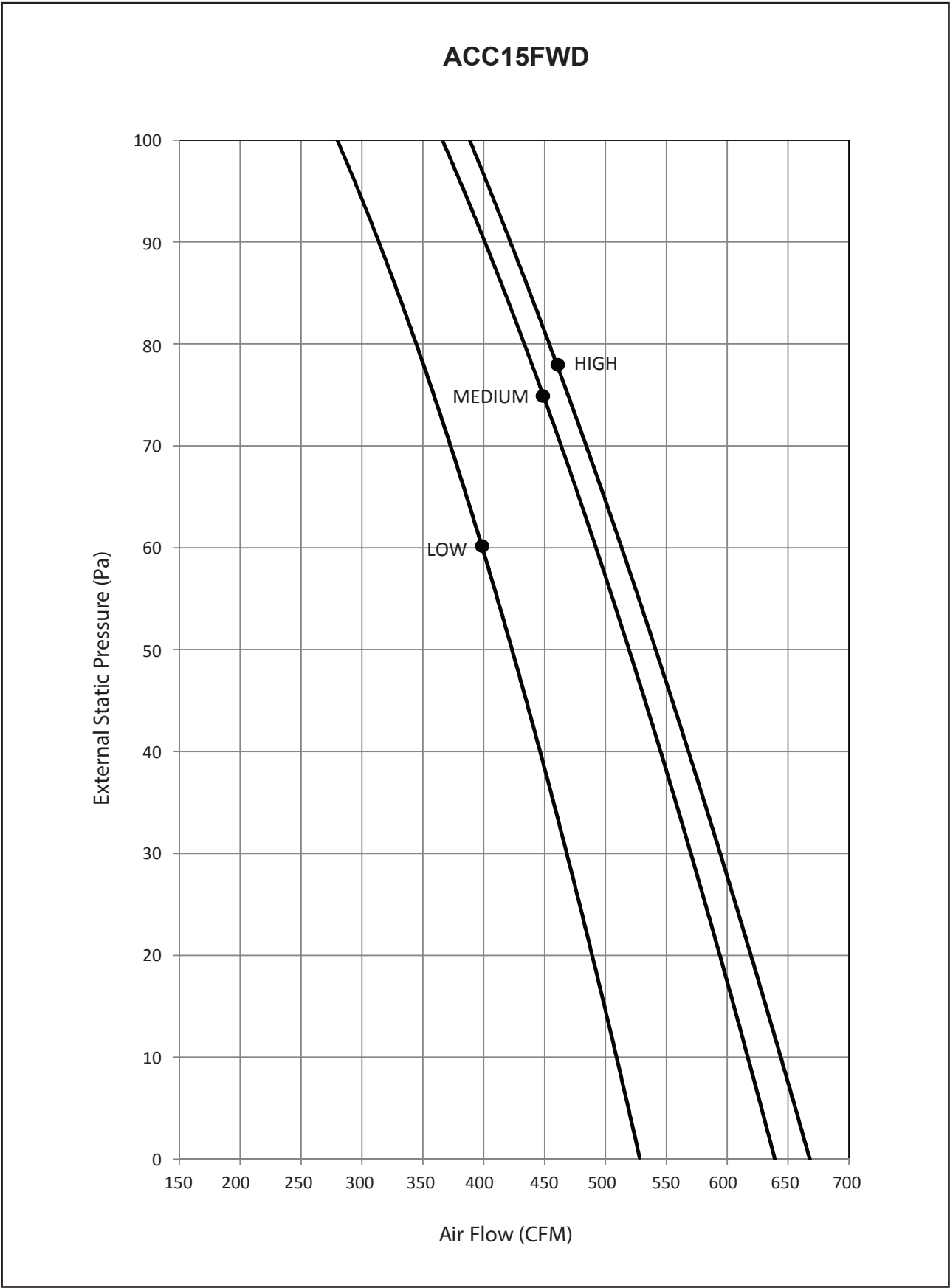


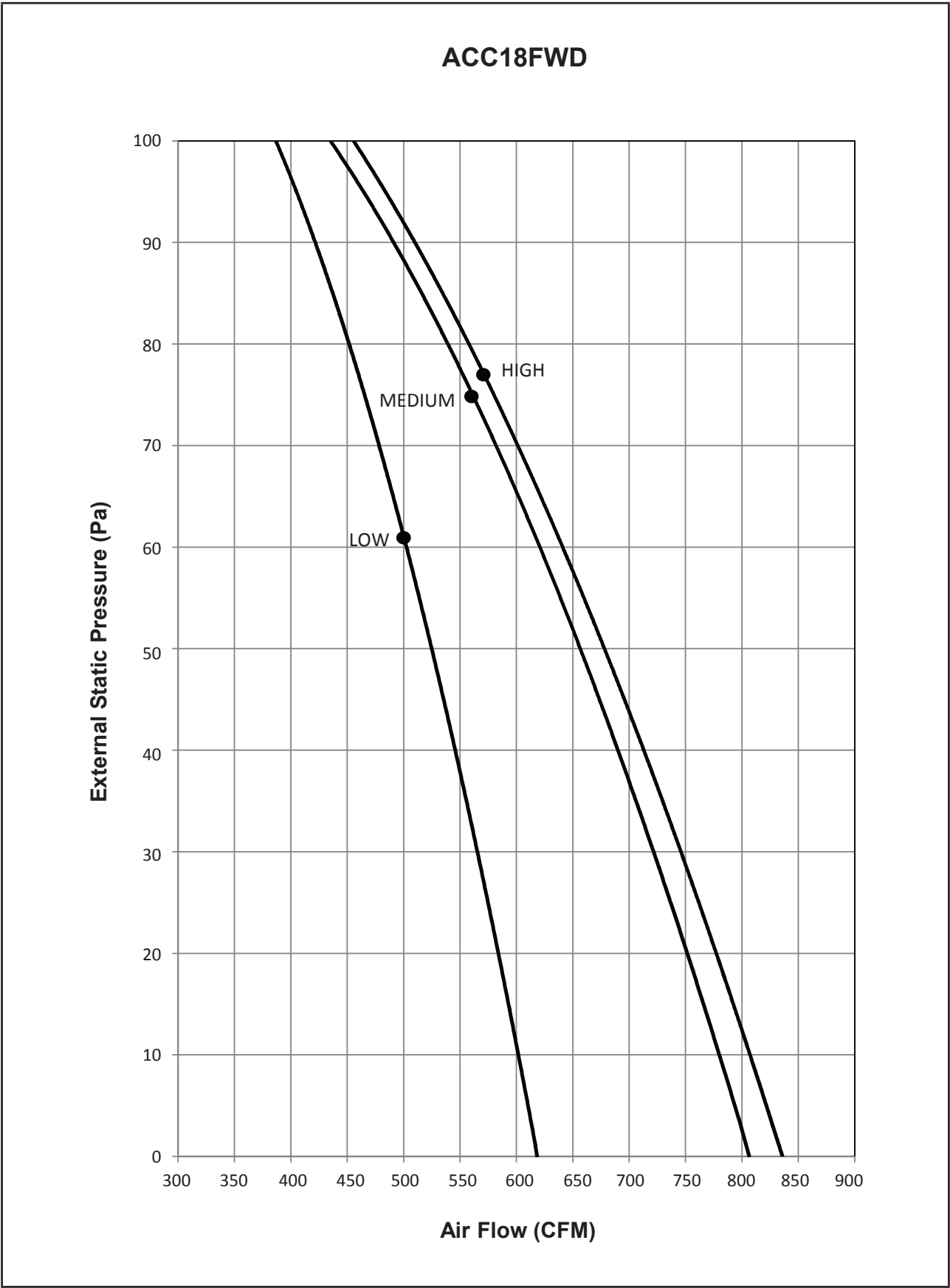


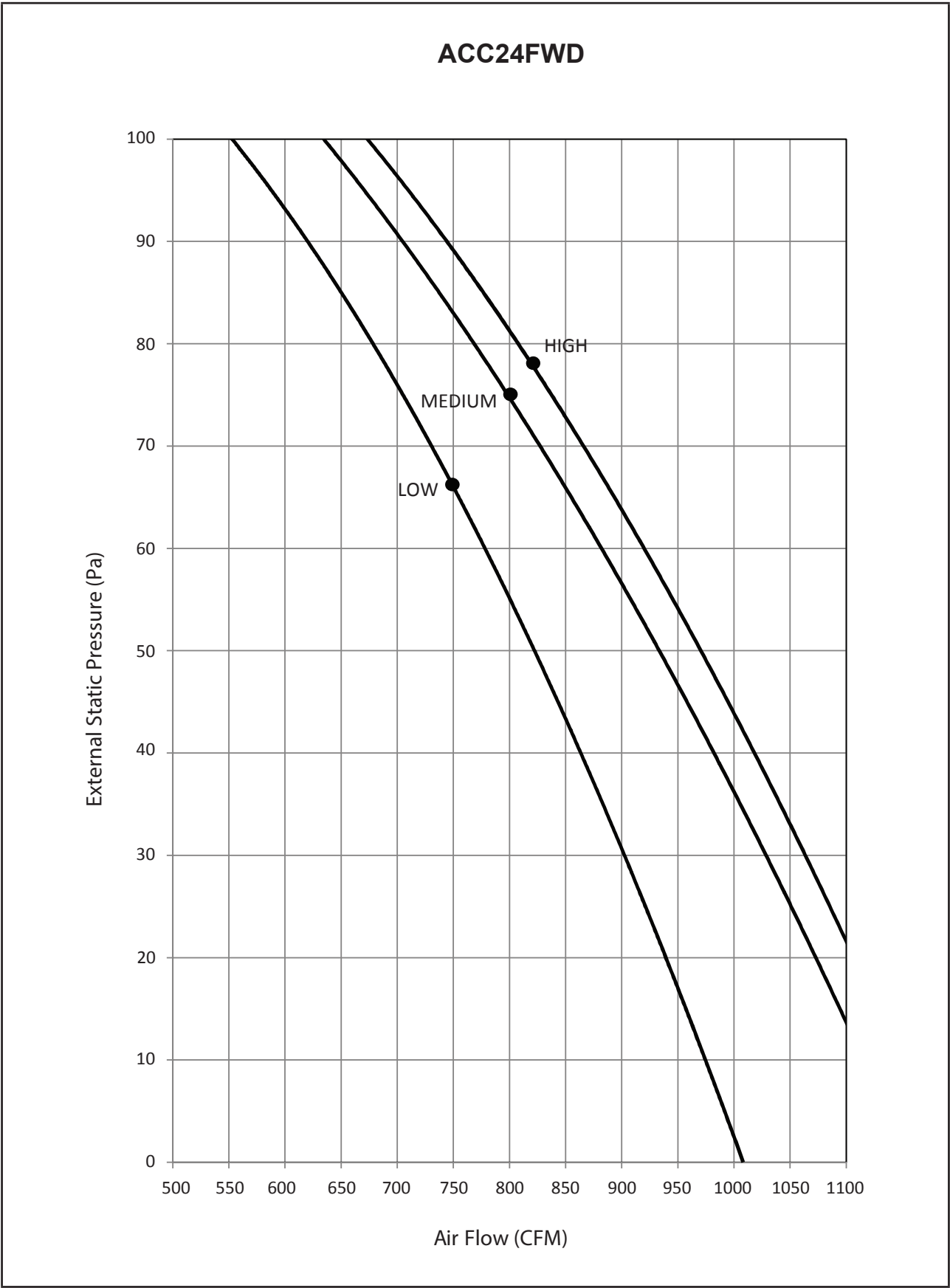


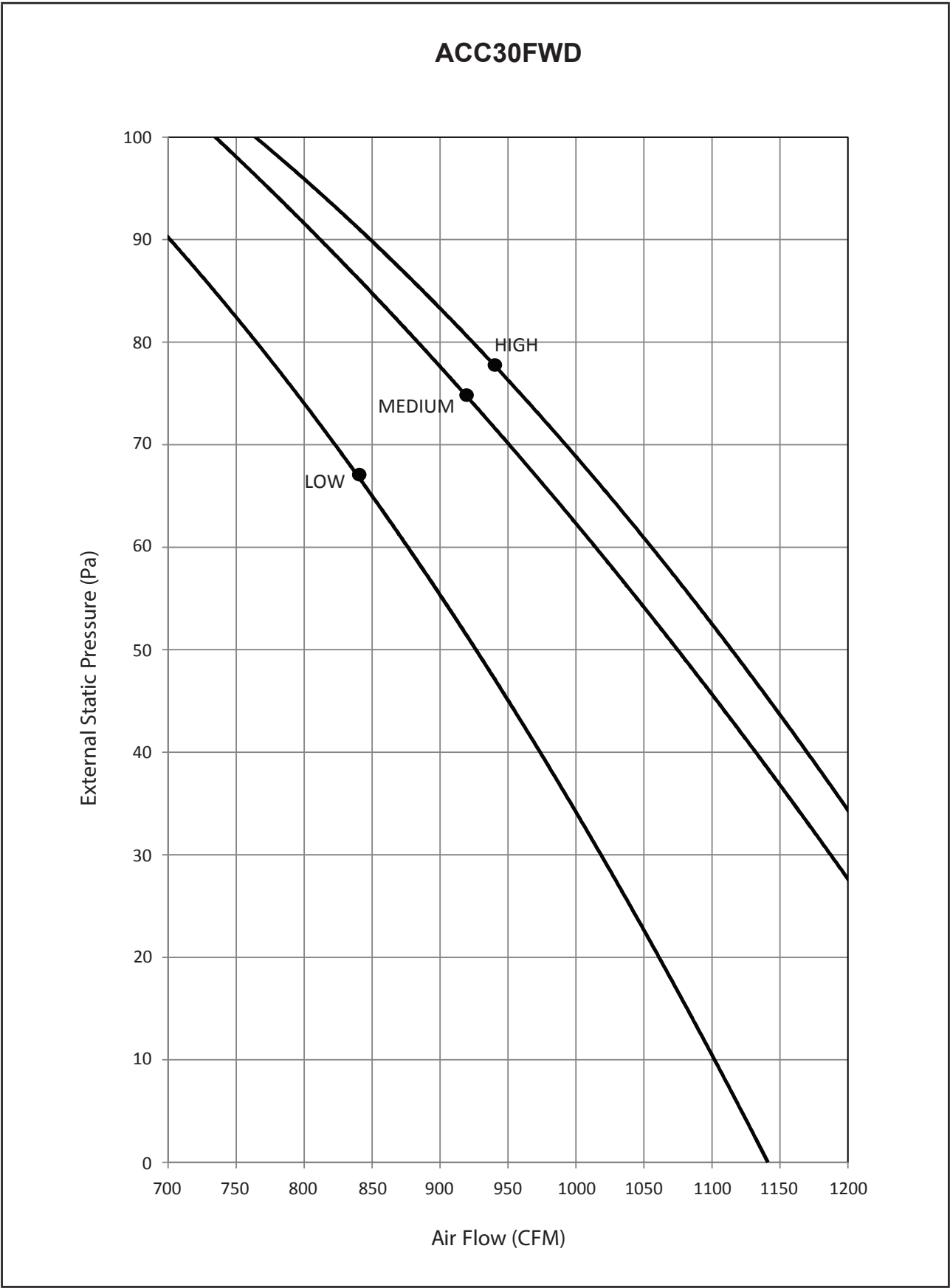


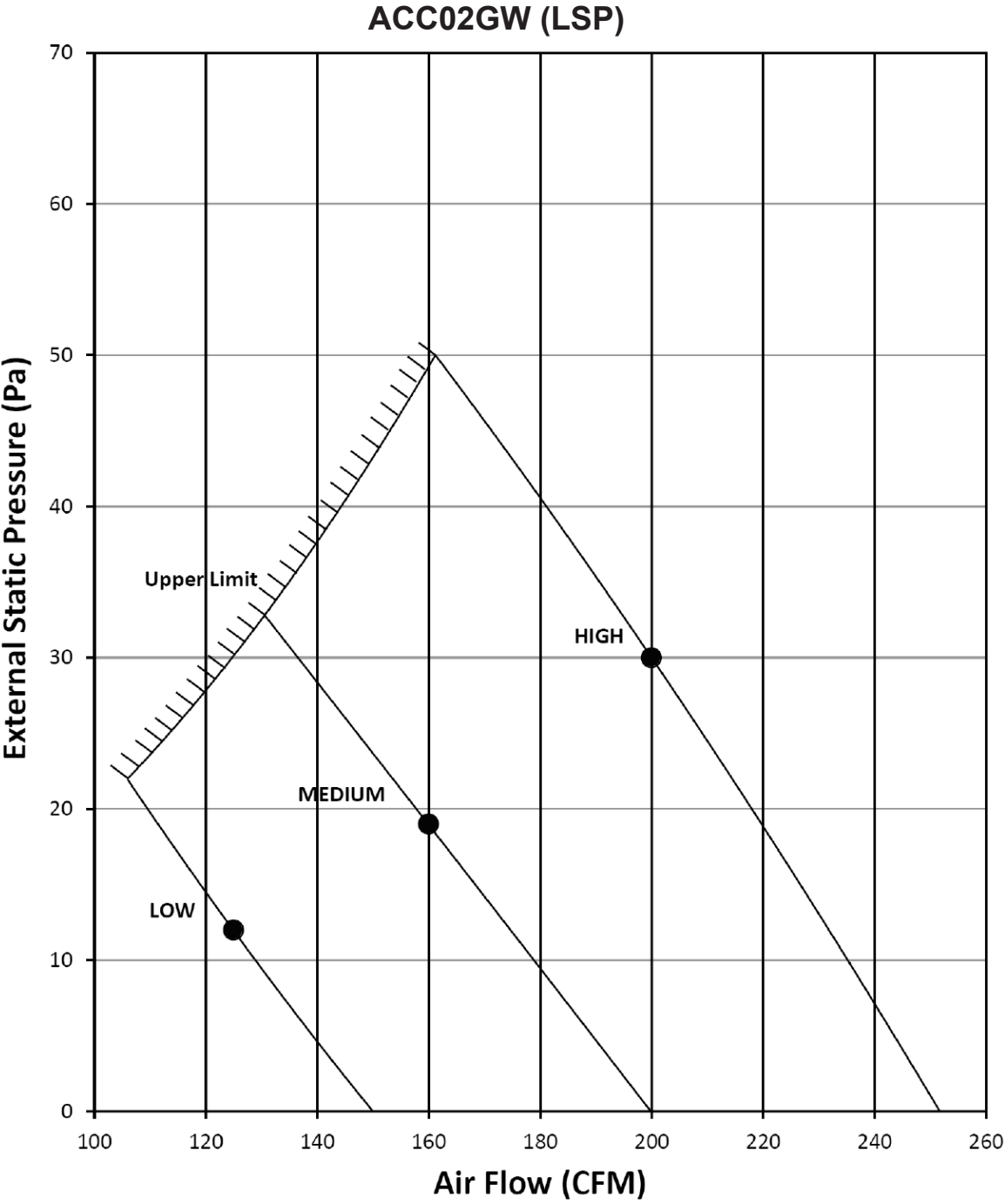


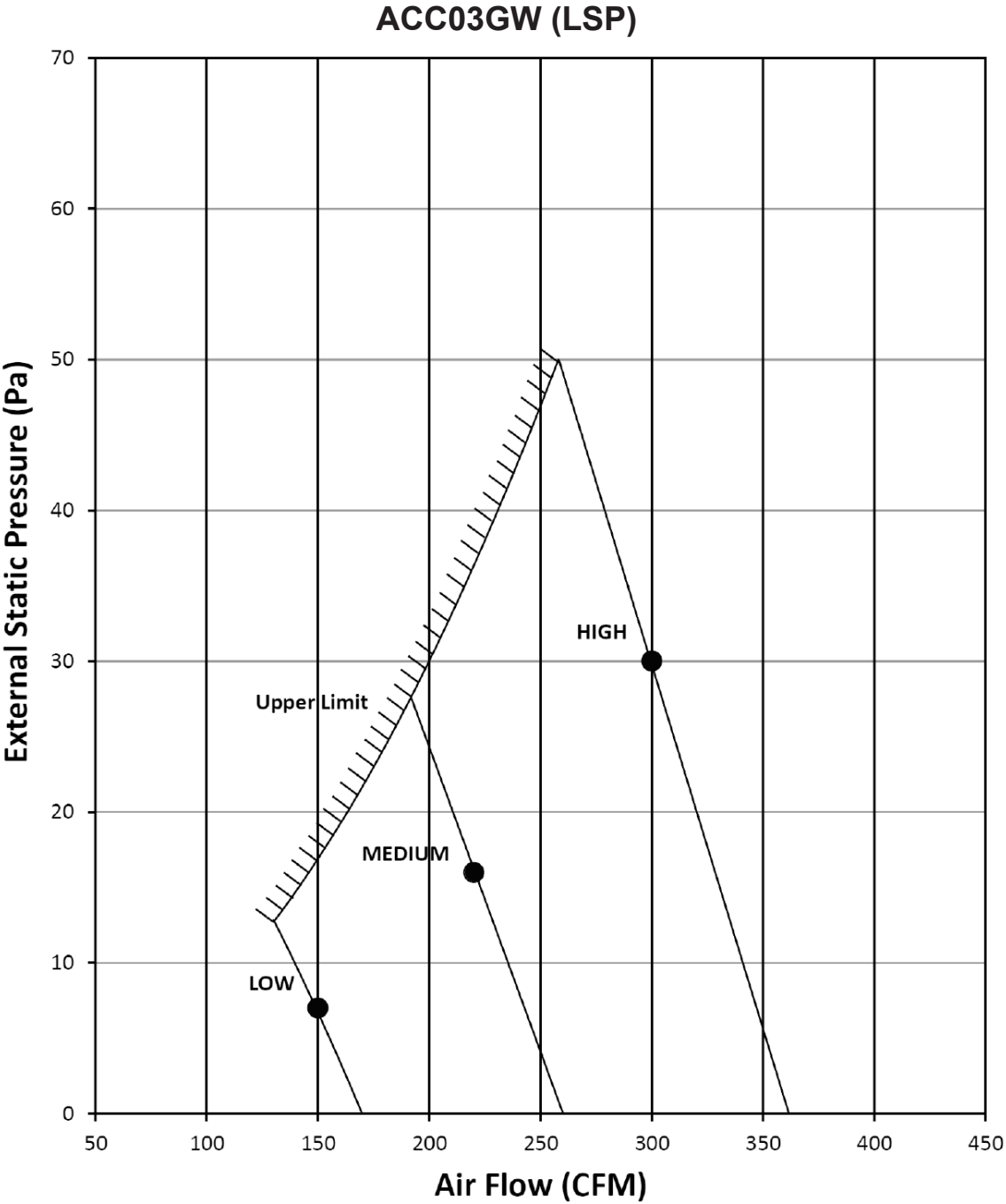


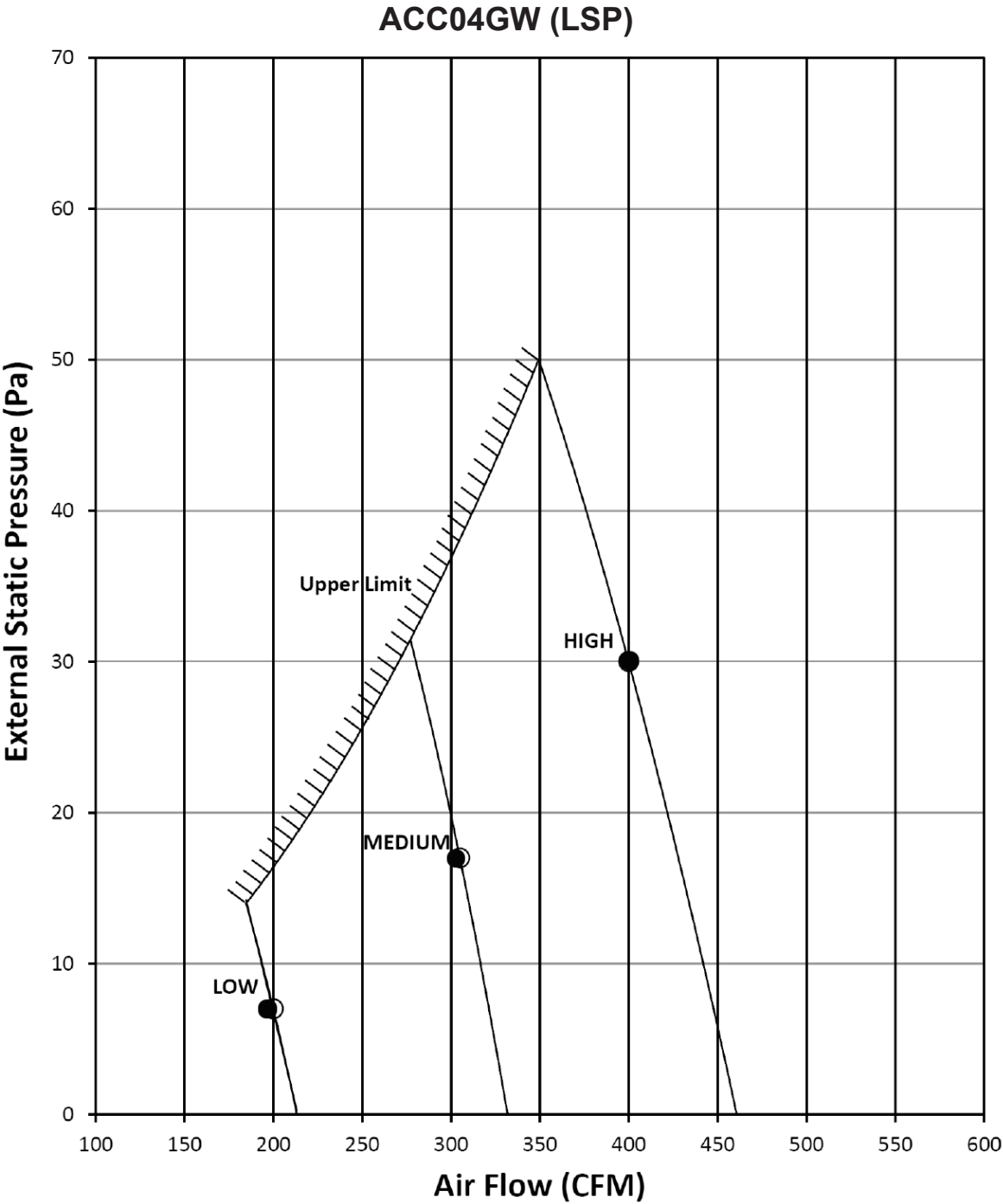


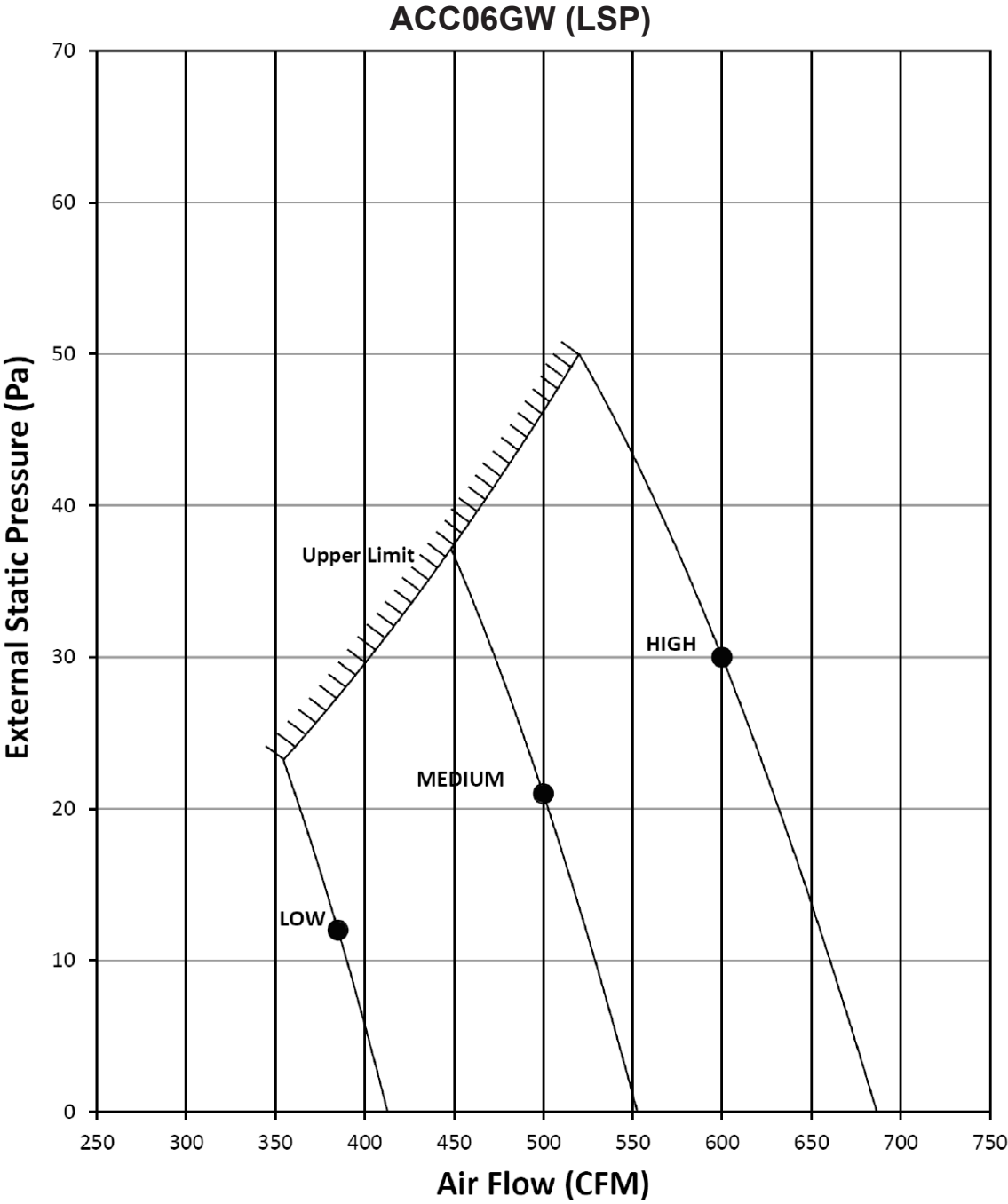


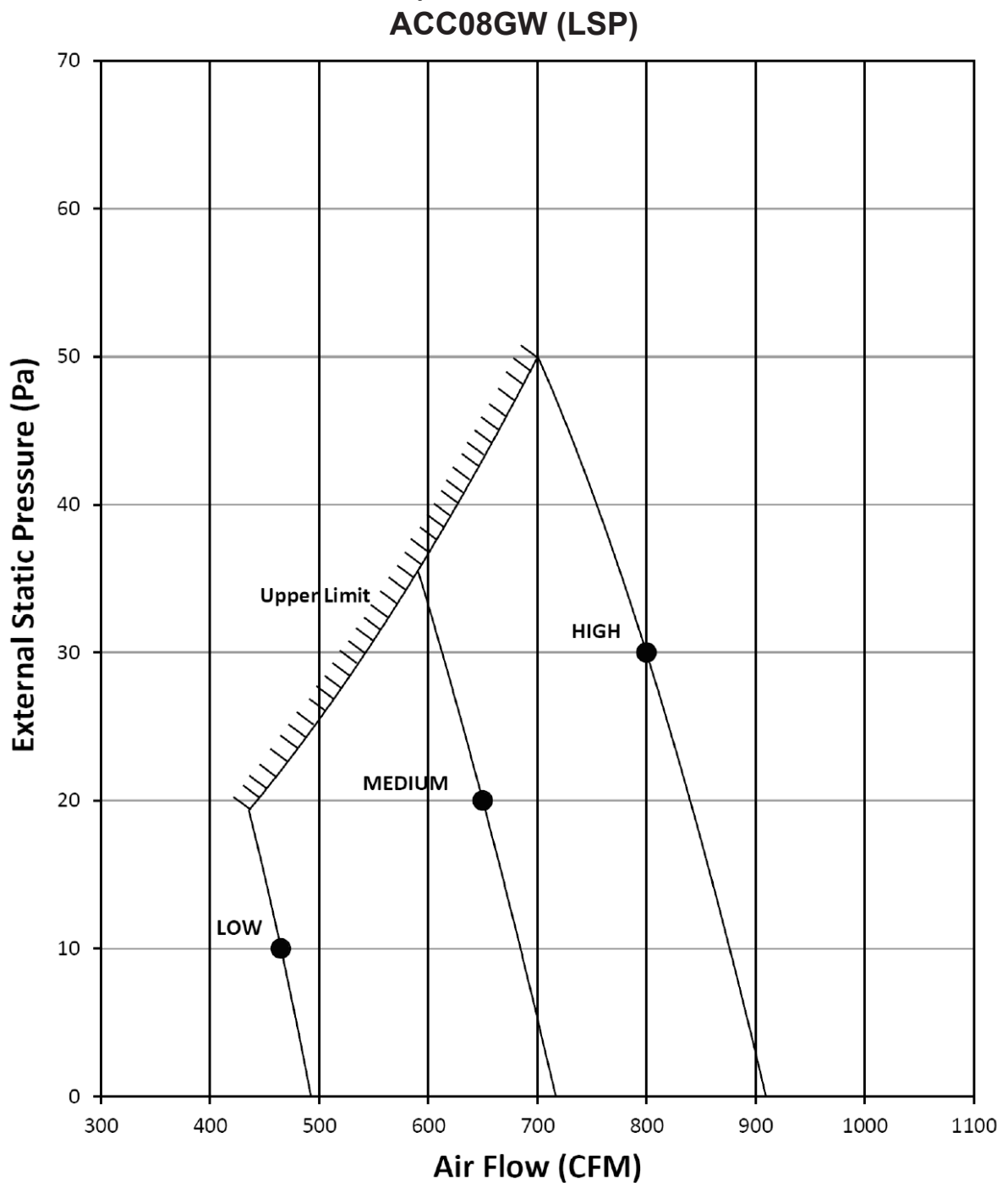


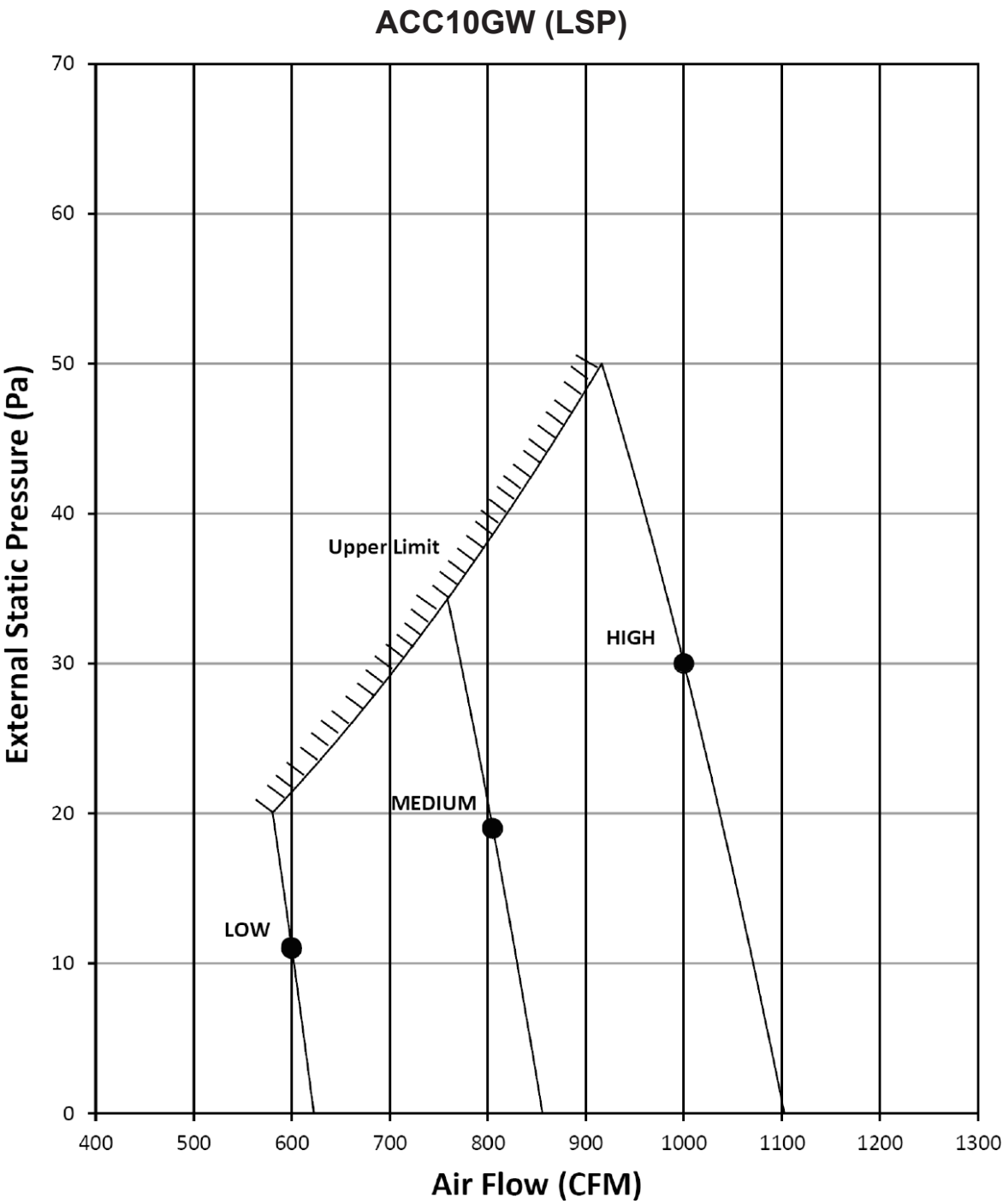


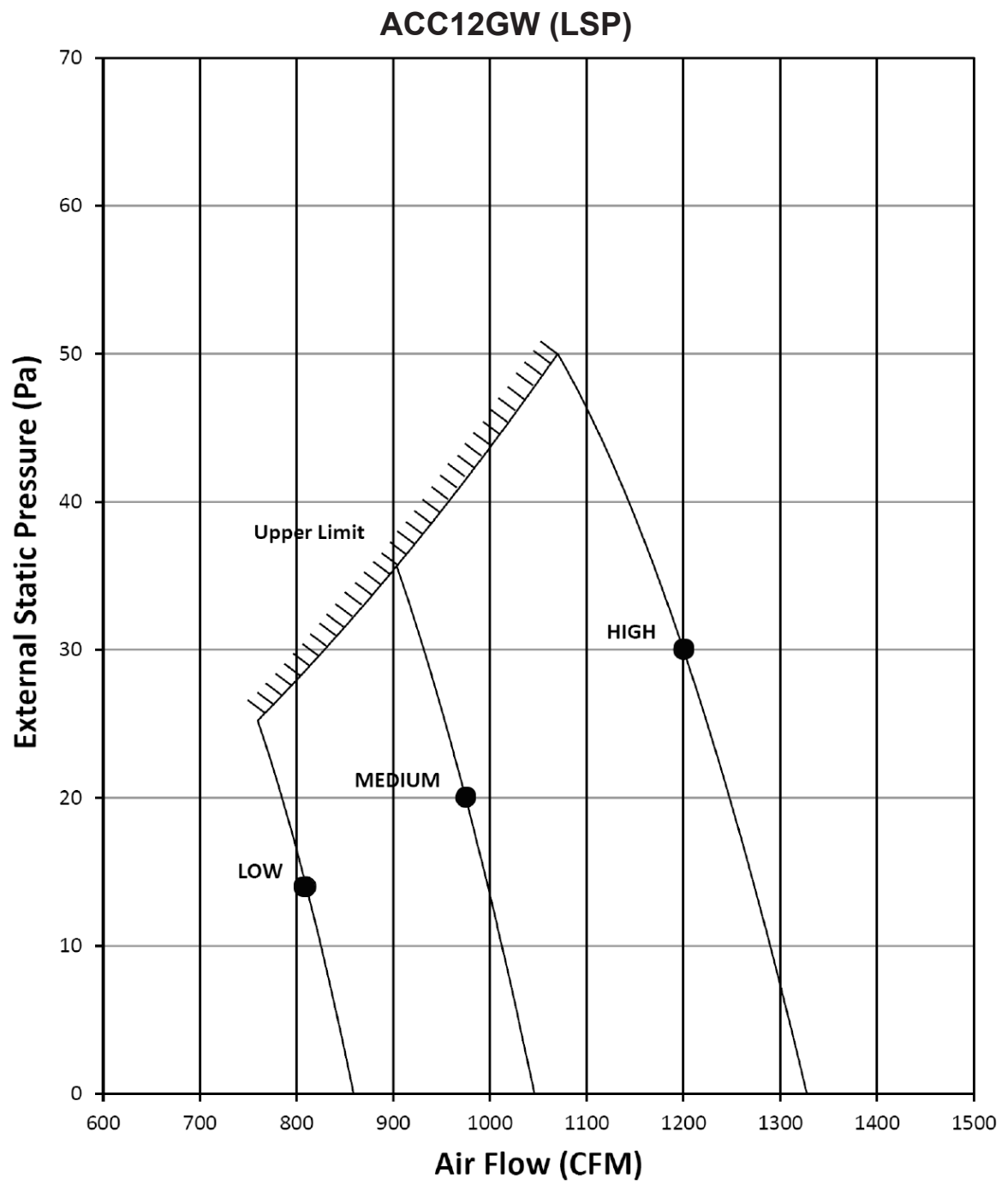


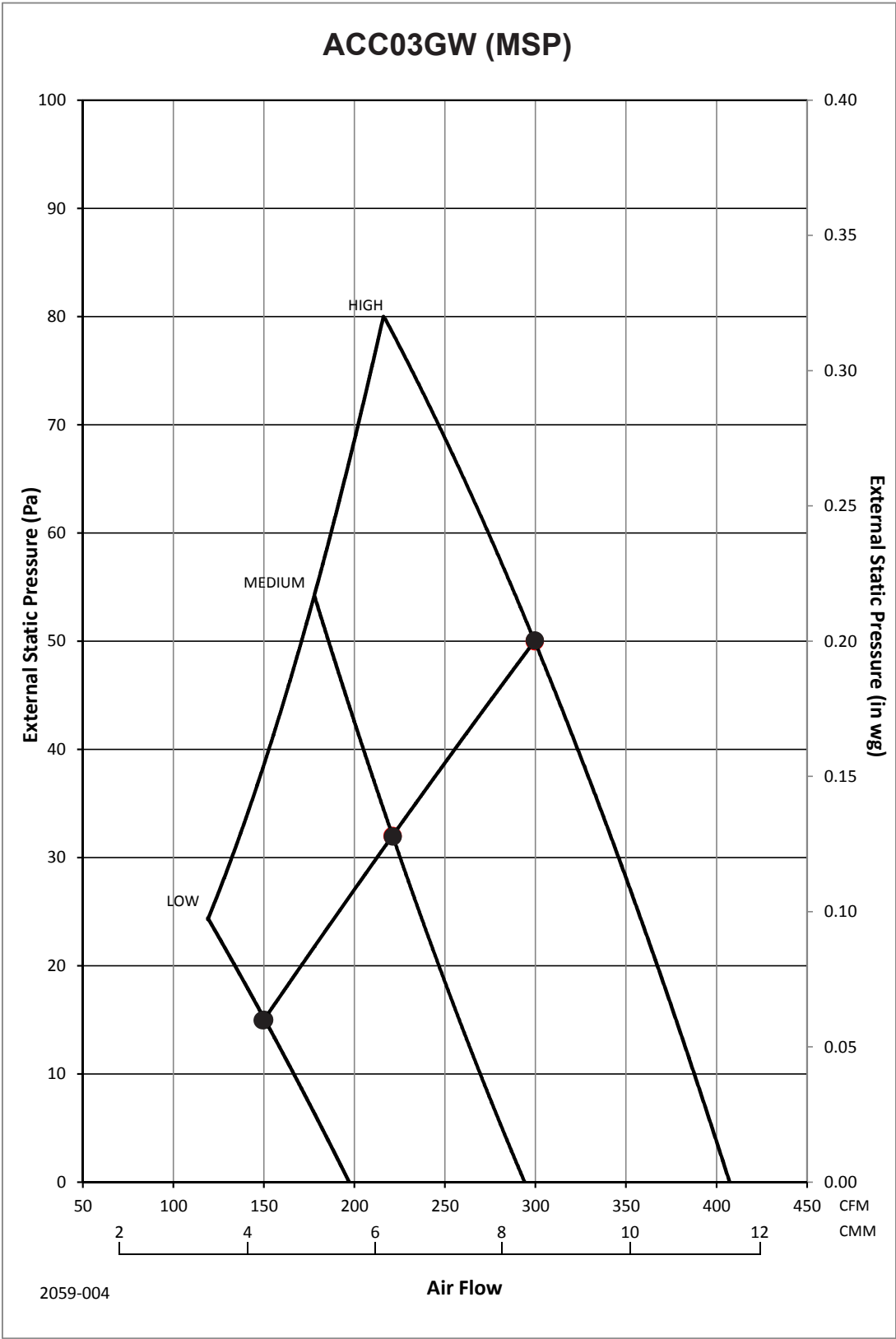


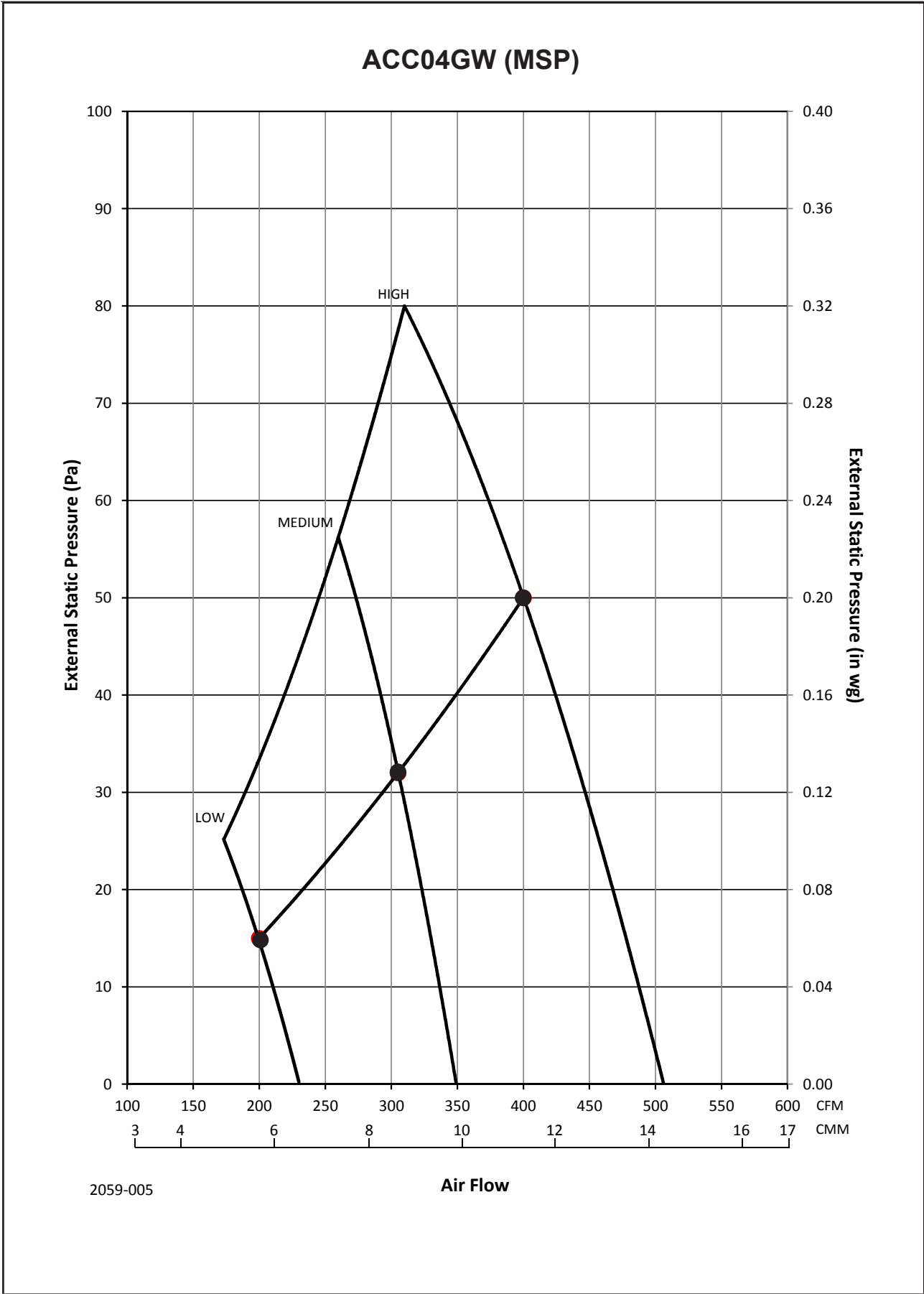


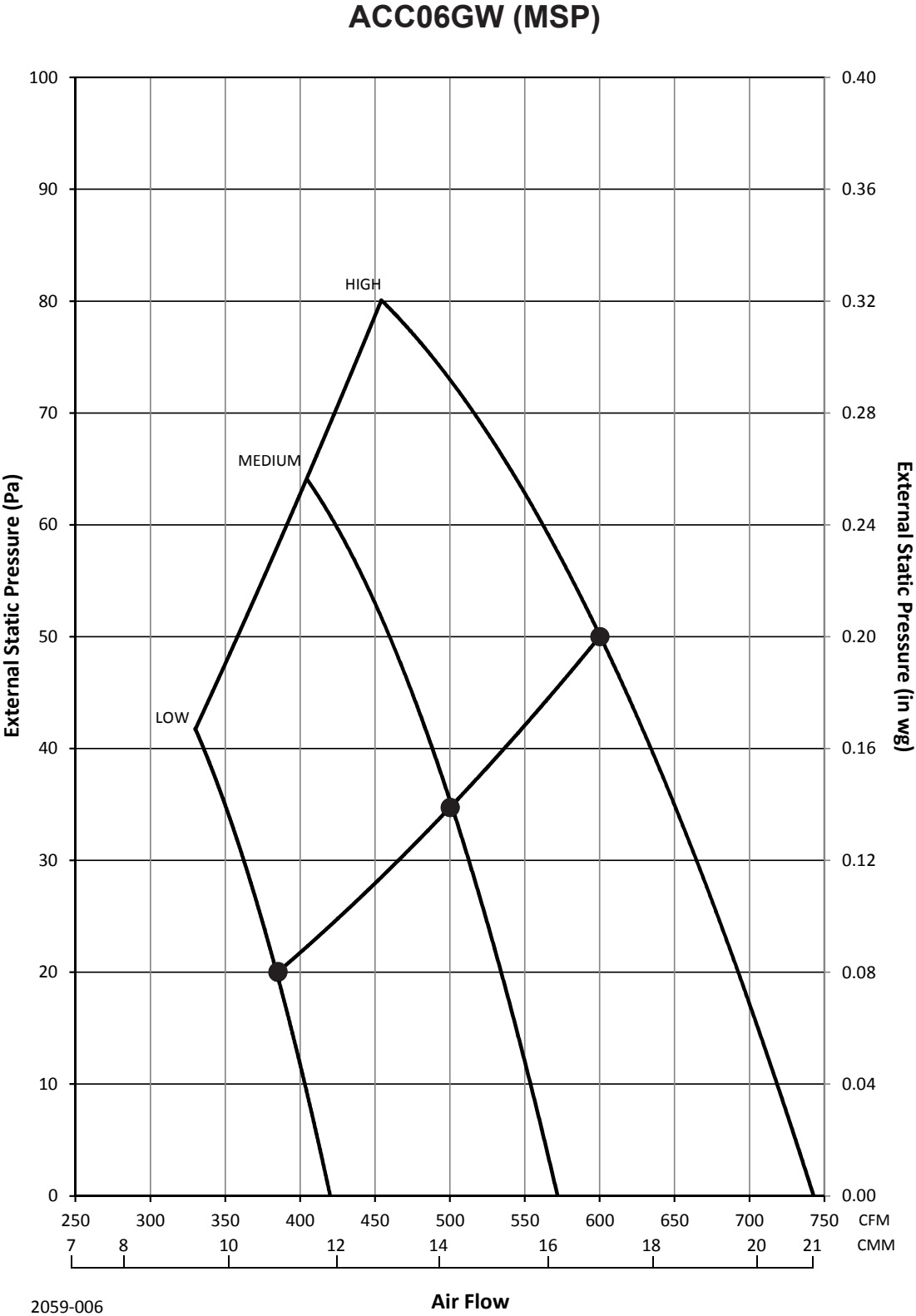




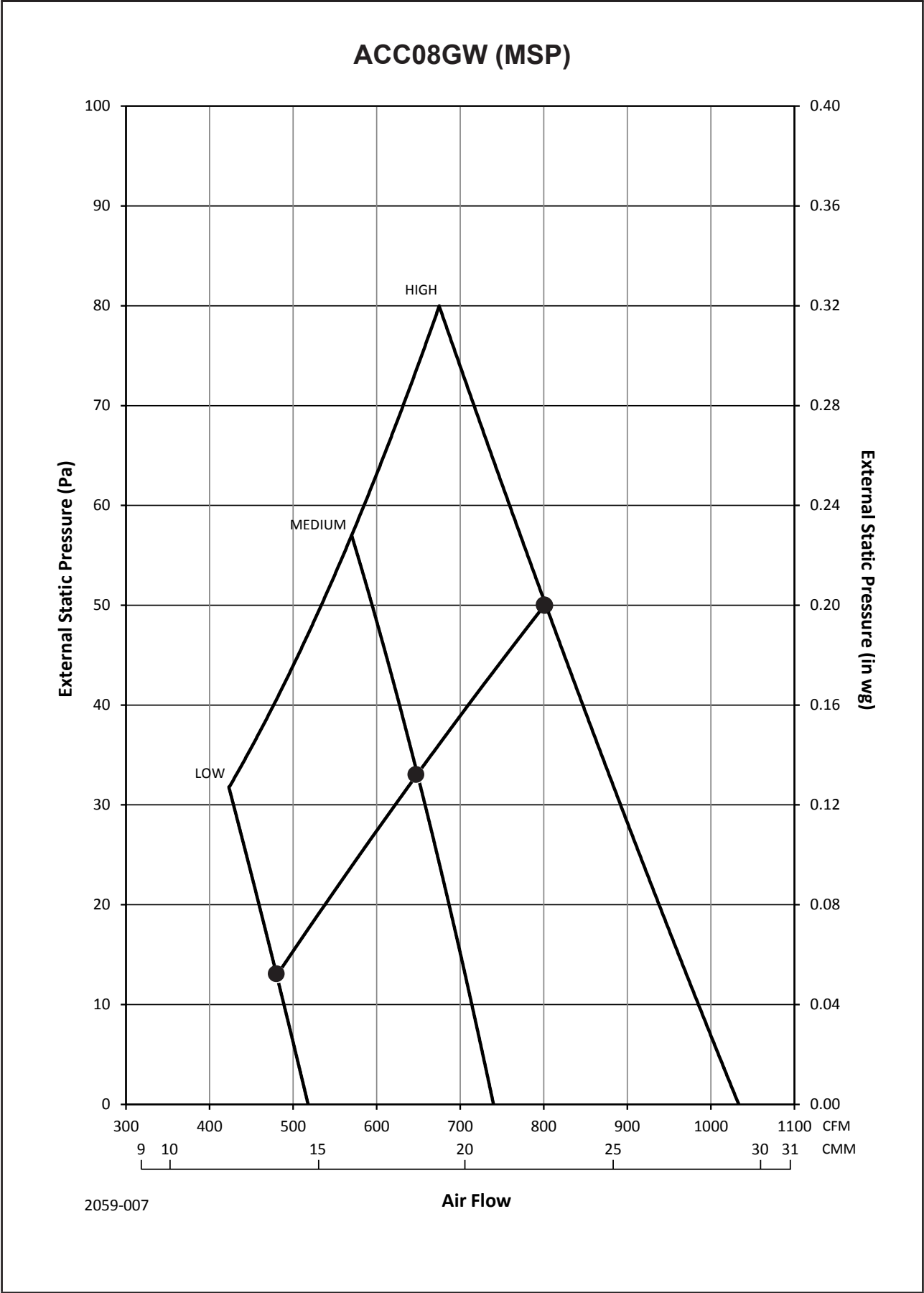




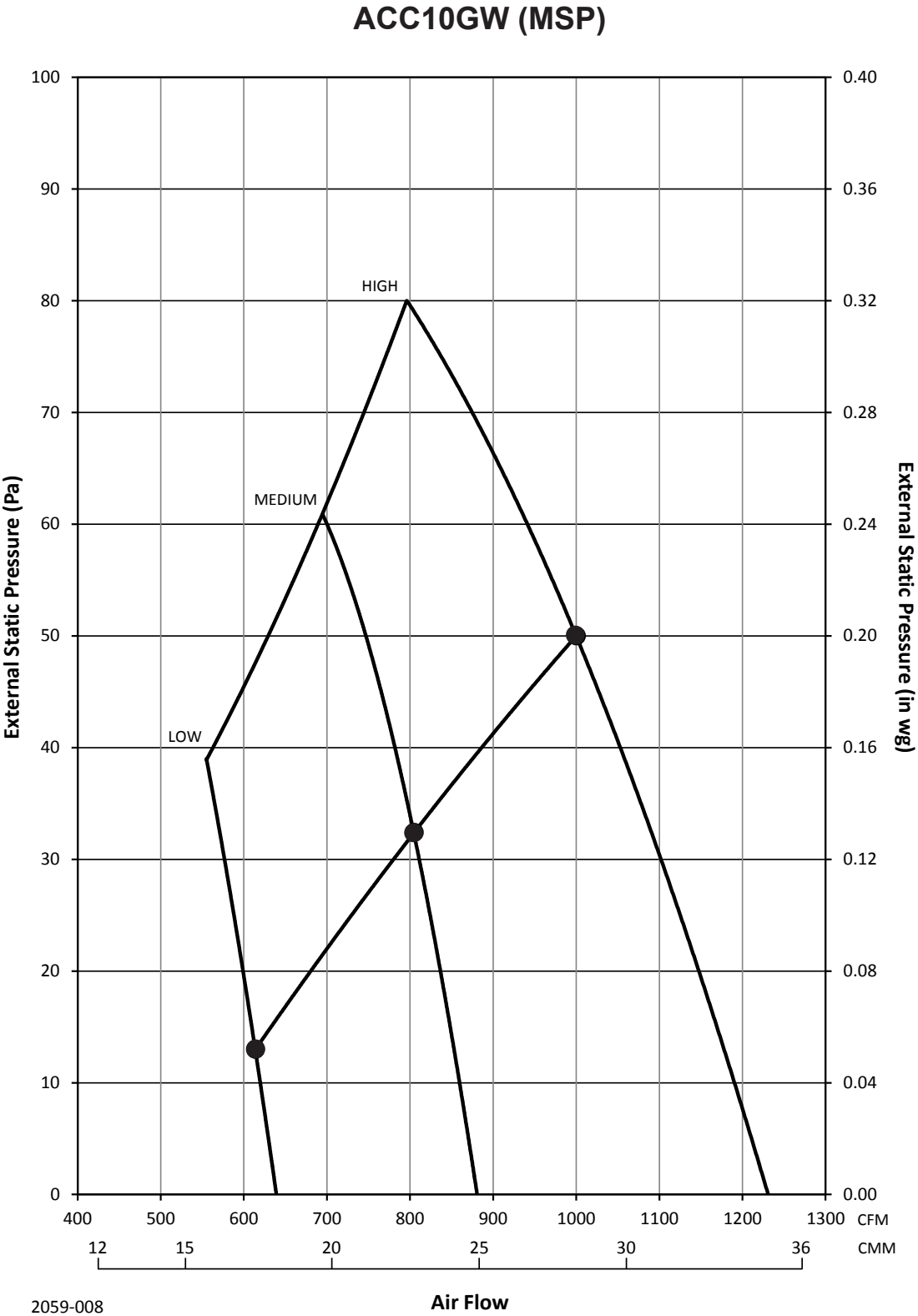




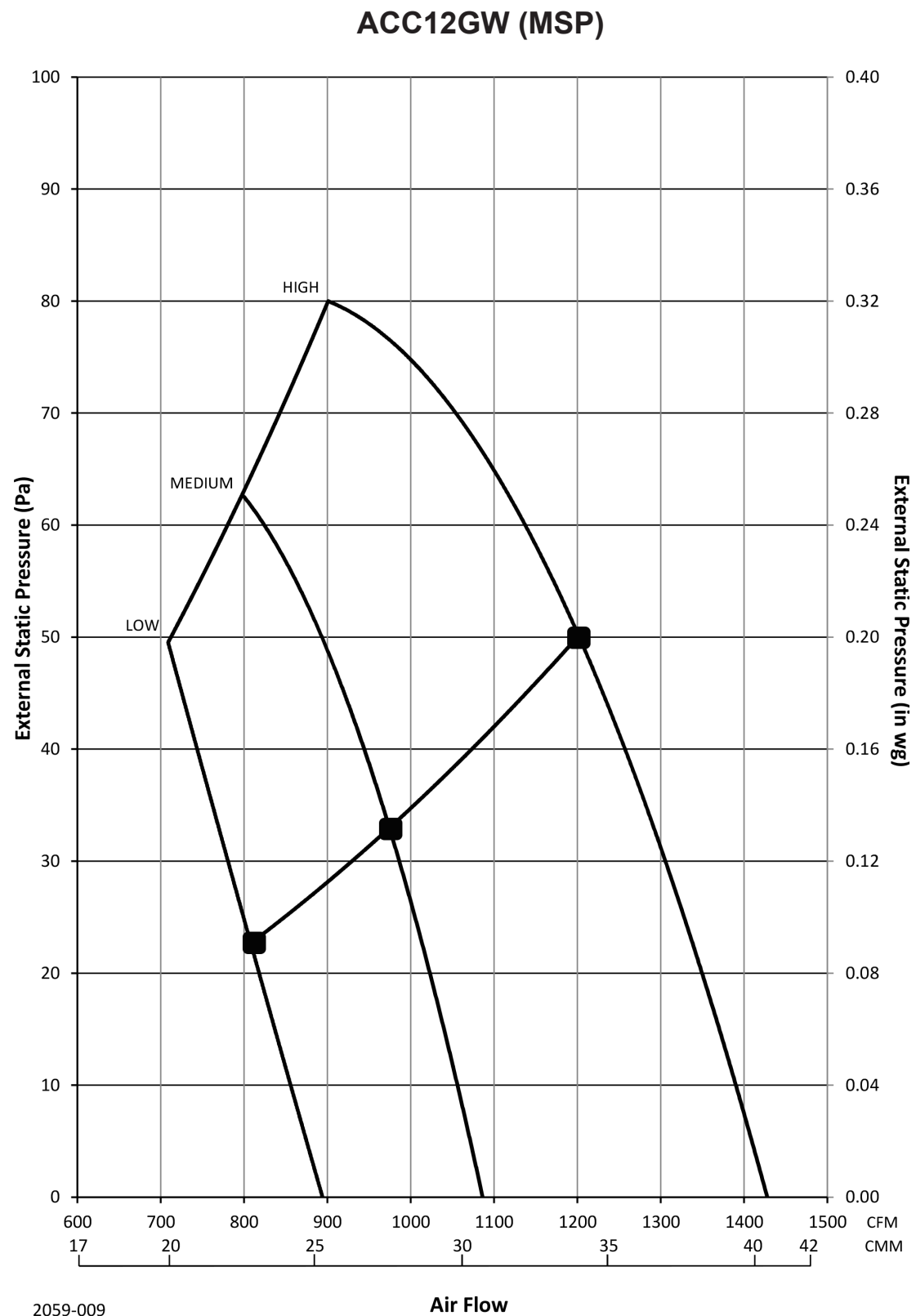
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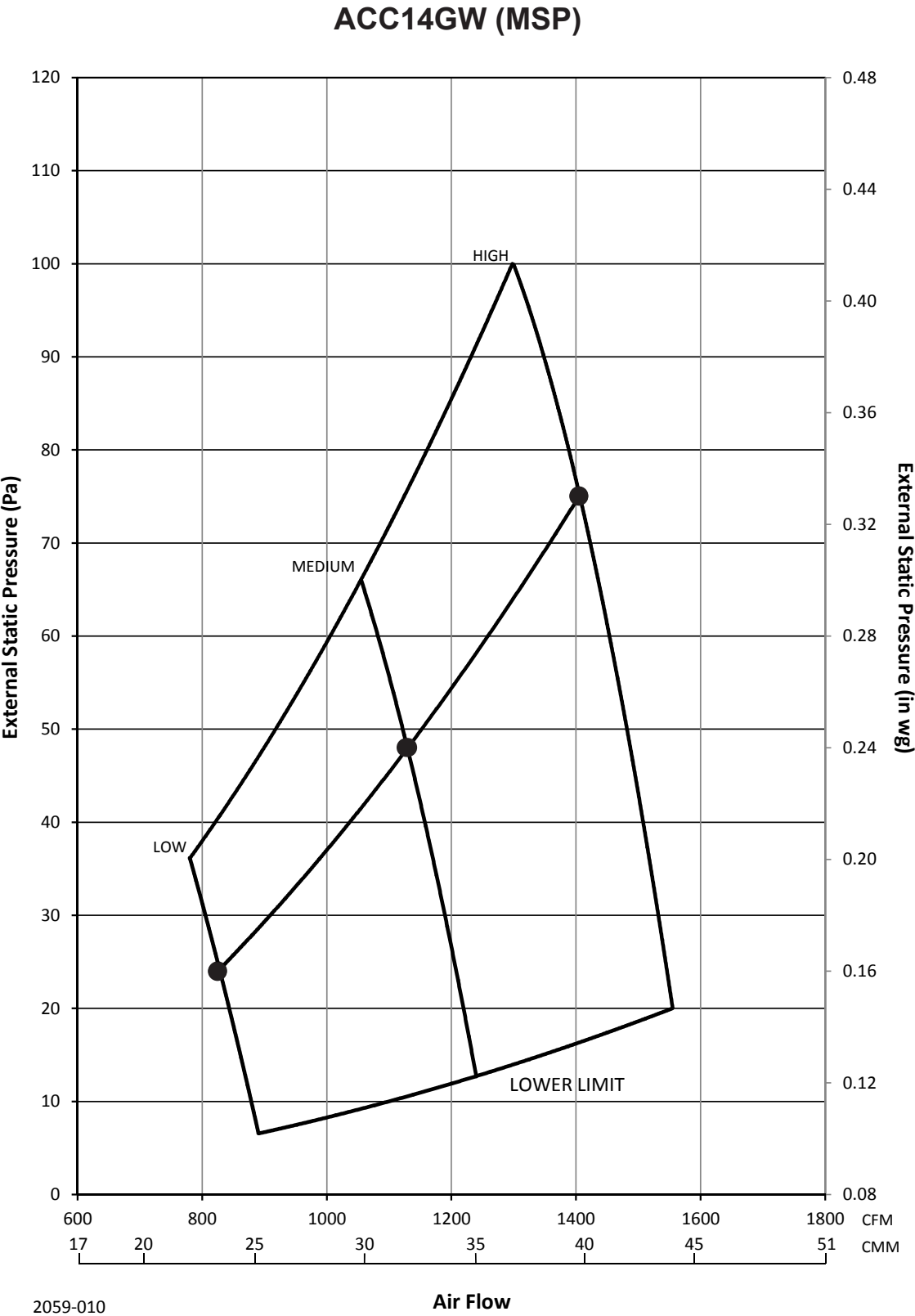
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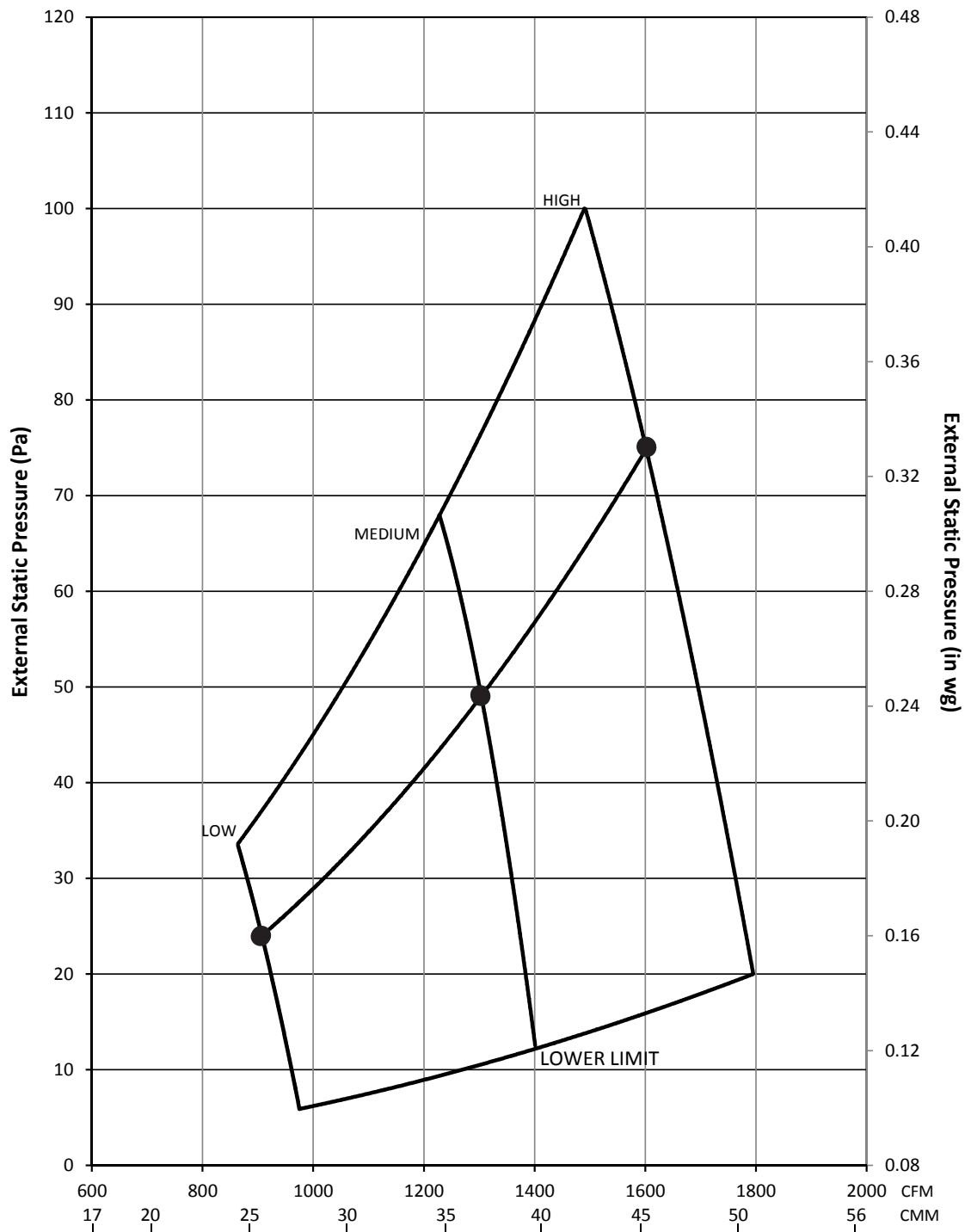


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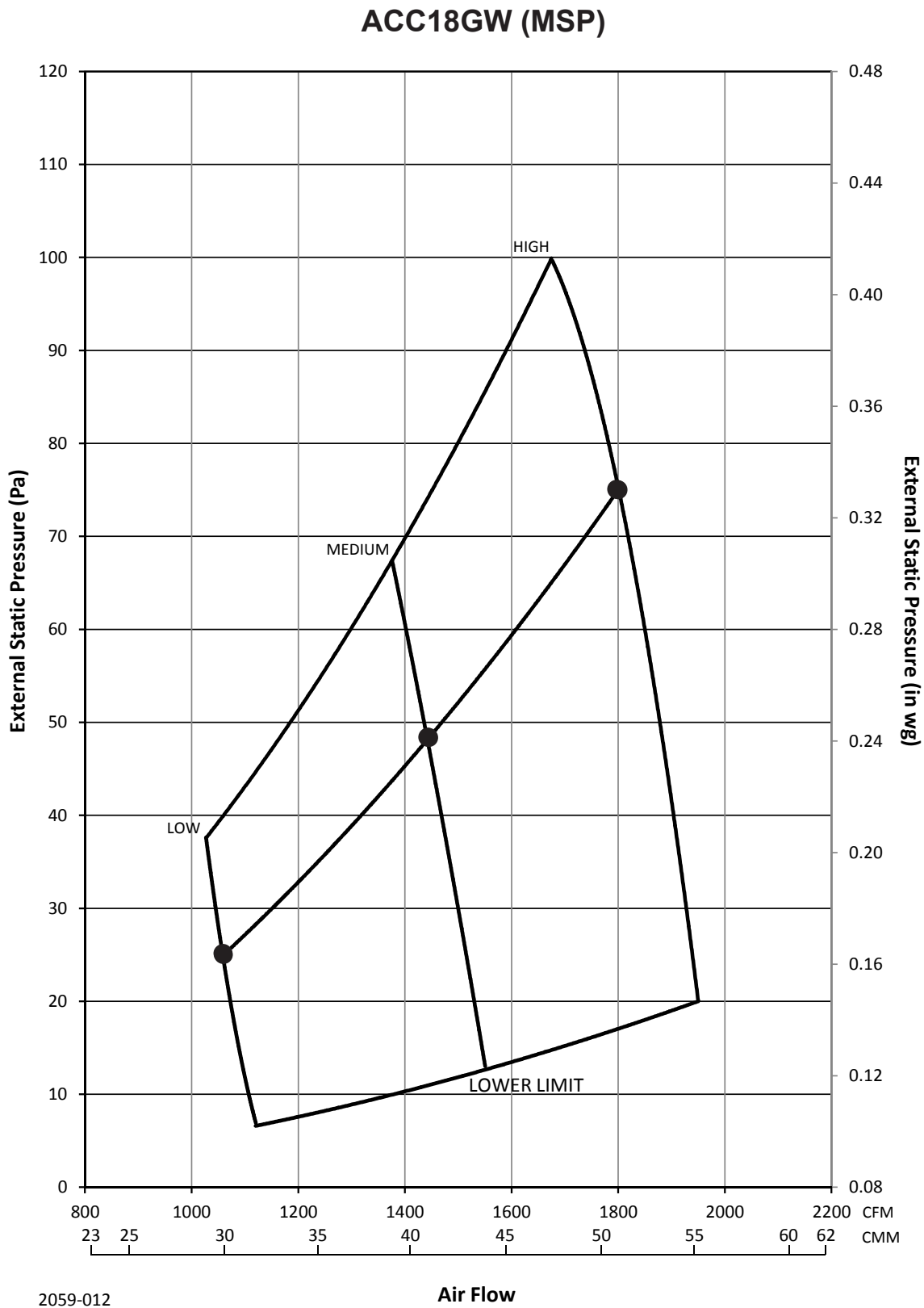
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ACC16GW (MSP)



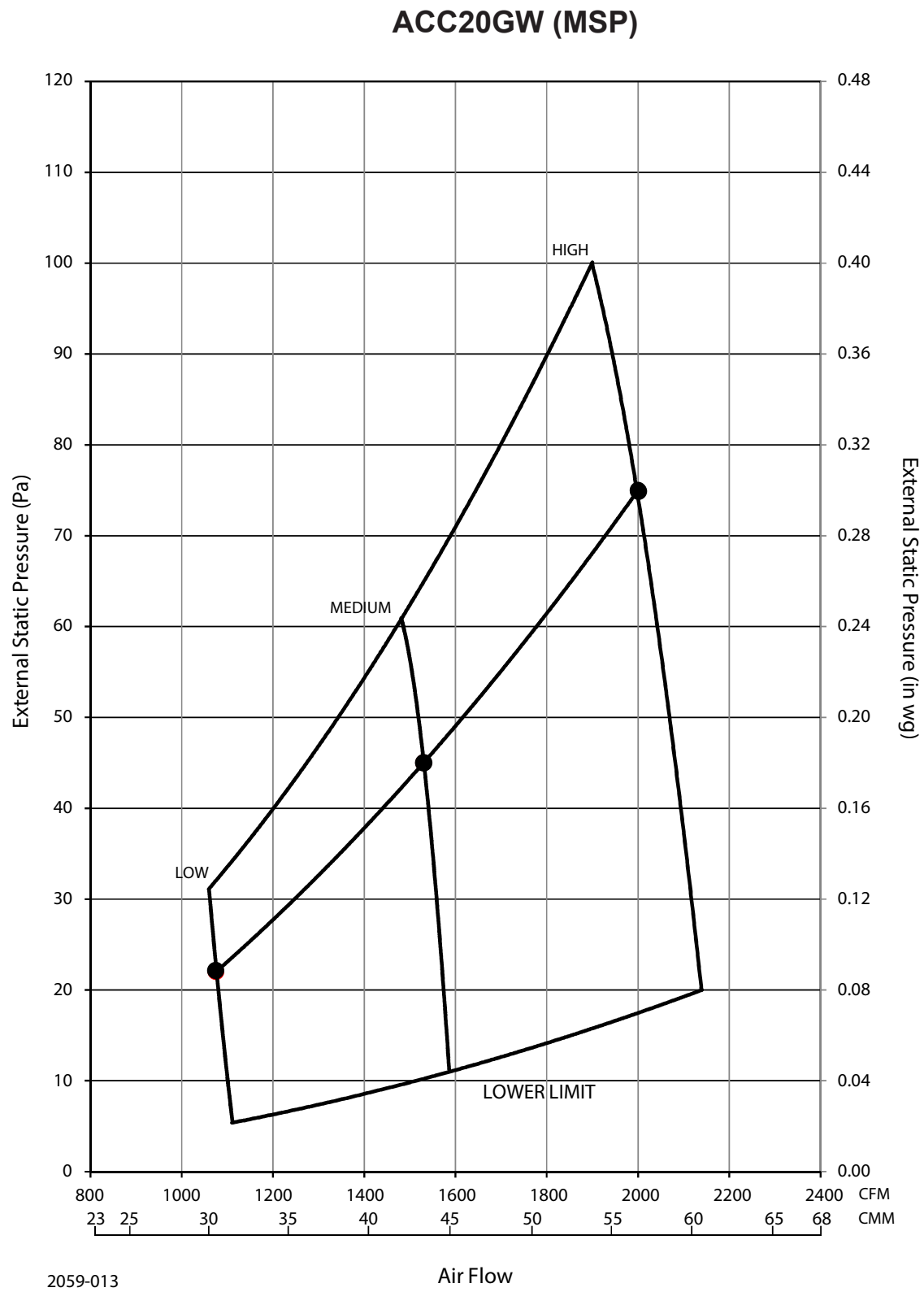
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Air Flow



2059-012

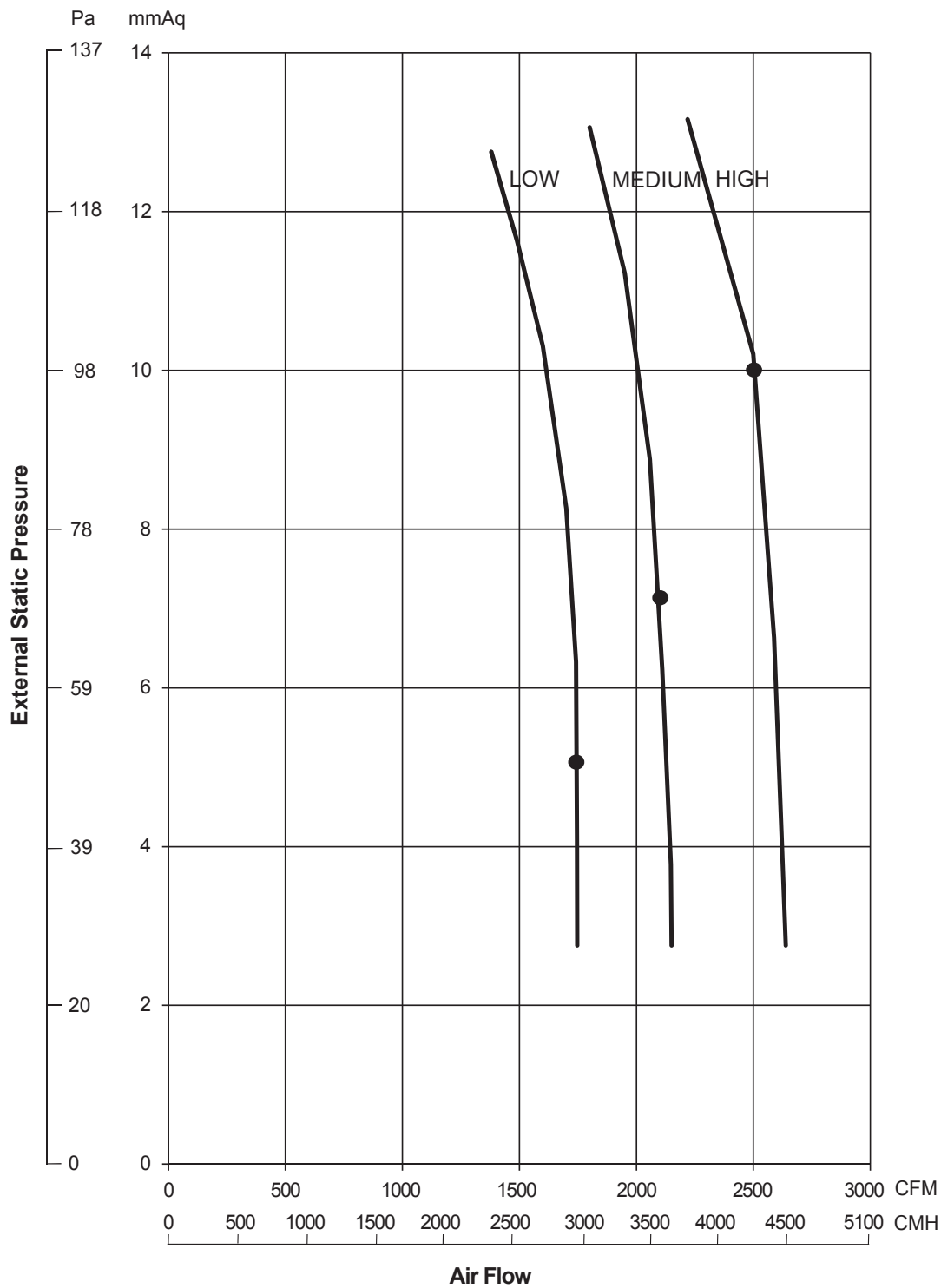
Air Flow

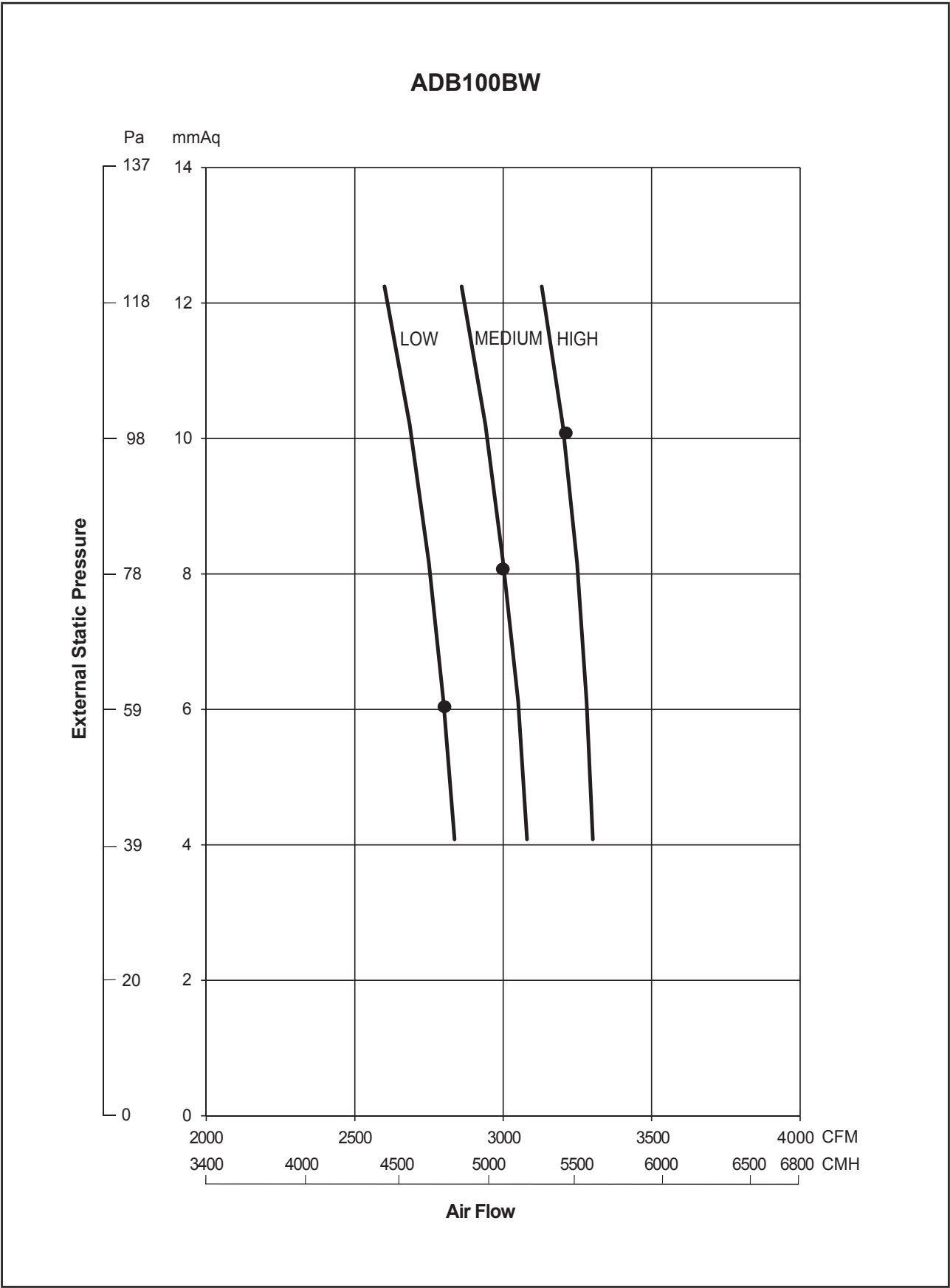


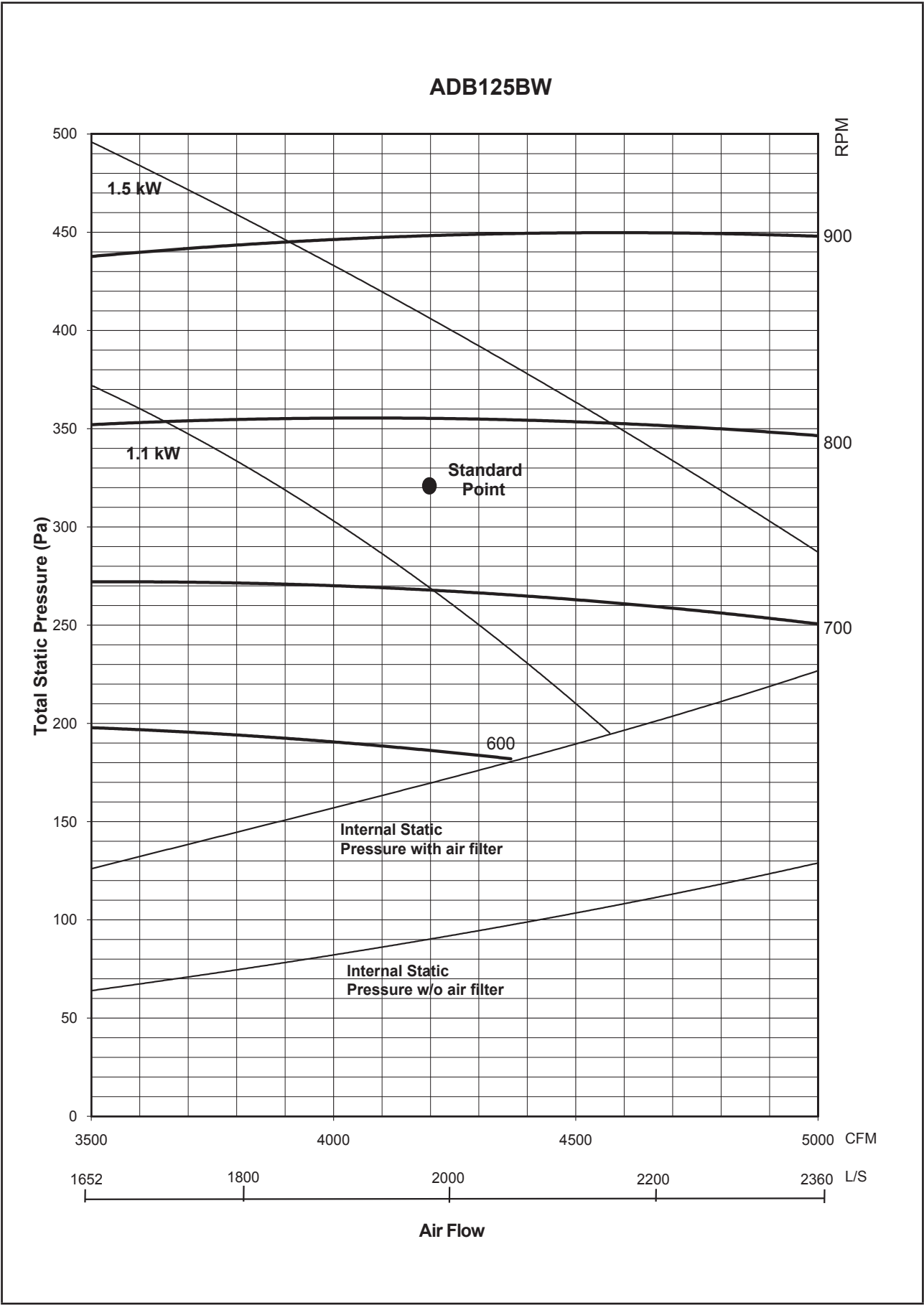
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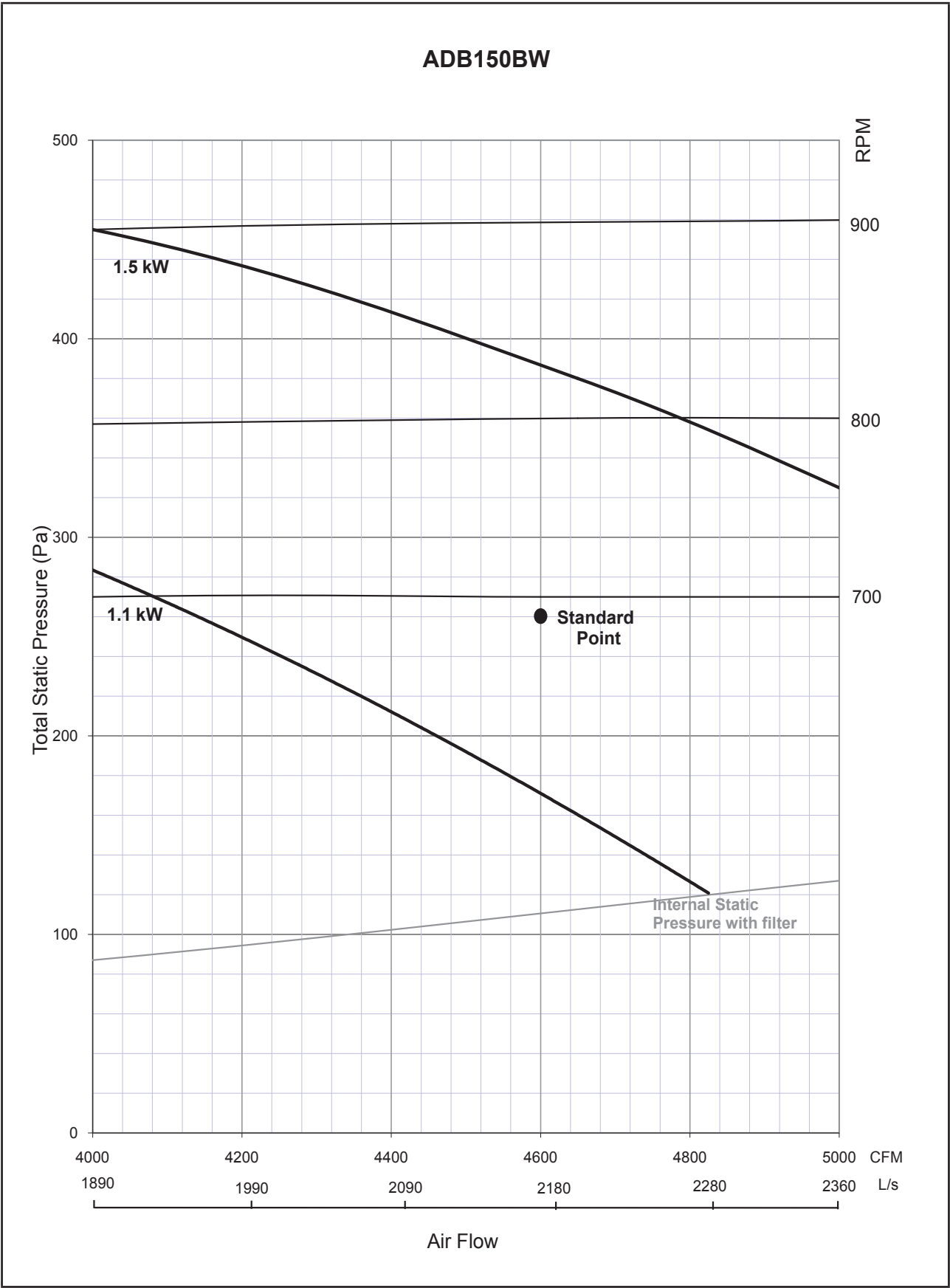
Air Flow

ADB075BW









Engineering & Physical Data

Engineering Data - Chilled Water Fan Coil Unit

MODEL				AWM07JW	AWM10JW	AWM15JW	AWM20JW	AWM25JW	
NOMINAL COOLING CAPACITY				Btu/h	8300	9200	11300	15500	18000
				W	2430	2700	3310	4540	5280
NOMINAL SENSIBLE COOLING CAPACITY				Btu/h	6300	6900	9000	11700	14000
				W	1850	2020	2640	3430	4100
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)				Btu/h	11000	12000	15000	20500	25000
				W	3220	3520	4400	6010	7330
NOMINAL TOTAL INPUT POWER				W	31	32	42	53	72
NOMINAL RUNNING CURRENT				A	0.19	0.20	0.21	0.29	0.34
POWER SOURCE				V/Ph/Hz	220-240/1/50				
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION			AUTOMATIC LOUVER (UP & DOWN)				
		HIGH			LCD WIRELESS MICRO-COMPUTER REMOTE CONTROL				
		MEDIUM							
		LOW							
		QUIET							
	AIR FLOW	CFM			260	280	370	510	620
		CFM			230	250	320	450	520
		CFM			200	220	260	390	460
		CFM			180	190	240	360	440
	NOMINAL WATER FLOW RATE			USGPM	1.85	2.03	2.51	3.43	4.01
				litres/min	7.00	7.68	9.50	13.00	15.18
	HEAD LOSS (COOLING)			kPa	34	24	31	30	36
	HEAD LOSS (HEATING) : 50°C			kPa	29	20	25	27	33
	MAX. WORKING PRESSURE			kPa	1608				
	SURFACE AIR VELOCITY			m/s	0.68	0.74	0.97	0.83	1.01
	SOUND PRESSURE LEVEL (H/M/L)			dB(A)	34 / 29 / 25 / 24	35 / 30 / 25 / 24	42 / 39 / 32 / 29	42 / 38 / 34 / 32	46 / 42 / 39 / 37
	UNIT DIMENSION		H X W X D	mm	288 x 800 x 206			310 x 1065 x 224	
	PACKING DIMENSION		H X W X D	mm	344 x 874 x 274			386 x 1136 x 314	
	UNIT WEIGHT			kg	9			14	
	CONDENSATE DRAIN SIZE			mm	19.05				
	PIPE CONNECTION			mm	12.70 BSP FEMALE THREAD ADAPTOR				
	FAN	TYPE			CROSS FLOW FAN				
		DRIVE			DIRECT				
		FAN SPEED	HIGH	RPM	1030	1050	1310	1035	1250
			MEDIUM	RPM	890	910	1150	920	1070
			LOW	RPM	760	780	955	825	970
		FAN EFFICIENCY	HIGH	%	26.70	24.20	21.00	21.60	20.90
			MEDIUM	%	25.30	22.70	22.10	21.70	22.20
			LOW	%	24.80	21.60	22.80	23.10	22.80
		TYPE			SILICON-CONTROLLED RECTIFIER (SCR)				
		INDEX OF PROTECTION (IP)			IP20			IP44	
		INSULATION GRADE			E				
RATED INPUT POWER		HIGH	W	31	32	42	53	72	
		MEDIUM	W	29	31	37	47	68	
		LOW	W	25	29	33	42	60	
RATED RUNNING CURRENT	HIGH	A	0.19	0.20	0.21	0.29	0.34		
	MEDIUM	A	0.18	0.20	0.20	0.26	0.32		
	LOW	A	0.17	0.19	0.19	0.25	0.31		
STARTING CURRENT			A	0.40	0.40	0.40	0.30	0.43	
MOTOR OUTPUT			W	18	18	18	26	30	
MOTOR EFFICIENCY	HIGH	%	27.40	29.00	44.00	36.50	48.00		
	MEDIUM	%	19.30	21.00	36.00	29.00	36.00		
	LOW	%	13.00	15.00	22.50	24.00	29.00		
COIL	POLES			4					
	TUBE	MATERIAL		COPPER					
		DIAMETER		7.00					
	FIN	MATERIAL		ALUMINIUM					
		FACE AREA		0.18	0.18	0.18	0.29	0.29	
WATER VOLUME			litre	0.52	0.58	0.58	0.95	0.95	
AIR QUALITY	FILTER	TYPE			WASHABLE SARANET FILTER				
		QUANTITY			2				
CASING			COLOUR	WHITE					

MODE	COOLING	HEATING
ENTERING AIR TEMPERATURE	27°C DB / 19°C WB	20°C DB
ENTERING WATER TEMPERATURE	7°C	50°C (2 Pipes System)
LEAVING WATER TEMPERATURE	12°C	-

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Engineering Data - Chilled Water Fan Coil Unit

MODEL				ACK10CW		ACK15CW		ACK20CW				
NOMINAL COOLING CAPACITY				Btu/h		8500		14000		15500		
				W		2490		4100		4540		
NOMINAL SENSIBLE COOLING CAPACITY				Btu/h		6500		10000		11500		
				W		1910		2930		3370		
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)				Btu/h		12000		16000		18000		
				W		3520		4690		5280		
NOMINAL TOTAL INPUT POWER				W		63		64		79		
NOMINAL RUNNING CURRENT				A		0.28		0.28		0.35		
POWER SOURCE				V/Ph/Hz		220-240/1/50						
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION			4 WAY AUTOMATIC LOUVER (UP & DOWN)							
					LCD WIRELESS MICRO-COMPUTER REMOTE CONTROL							
	AIR FLOW	HIGH		CFM	380		400		440			
		MEDIUM		CFM	290		310		330			
		LOW		CFM	230		220		280			
	NOMINAL WATER FLOW RATE			USGPM	2.03		3.43		3.57			
				litres/min	7.68		12.98		13.51			
	HEAD LOSS (COOLING)			kPa	19.3		26.9		28.8			
	HEAD LOSS (HEATING) : 50°C			kPa	16.8		23.9		26.5			
	MAX. WORKING PRESSURE			kPa	1608							
	SURFACE AIR VELOCITY			m/s	0.74		0.74		0.82			
	SOUND PRESSURE LEVEL (H/M/L)			dBA	42 / 35 / 29		45 / 38 / 30		48 / 40 / 36			
	UNIT DIMENSION - (WITH PANEL)		H X W X D	mm	250 x 570 x 570 (295 x 640 x 640)							
	PACKING DIMENSION - (PANEL)		H X W X D	mm	316 x 630 x 630 (126 x 700 x 726)							
	UNIT WEIGHT (UNIT + PANEL)			kg	15 + 3		17 + 3		17 + 3			
	CONDENSATE DRAIN SIZE			mm	19.05							
	PIPE CONNECTION			mm	19.05 BSP FEMALE THREAD ADAPTOR							
	FAN	TYPE				TURBO FAN						
			DRIVE			DIRECT						
		FAN SPEED	HIGH	RPM	725		810		900			
			MEDIUM	RPM	565		630		700			
			LOW	RPM	460		480		610			
		FAN EFFICIENCY	HIGH	%	38.30		46.90		25.90			
			MEDIUM	%	35.10		45.40		32.30			
			LOW	%	46.70		46.10		21.50			
	FAN MOTOR	TYPE			PERMANENT SPLIT CAPACITOR (INDUCTION)							
		INDEX OF PROTECTION (IP)			IP20							
		INSULATION GRADE			B							
		RATED INPUT POWER	HIGH	W	63		64		79			
			MEDIUM	W	51		58		73			
			LOW	W	46		52		69			
		RATED RUNNING CURRENT	HIGH	A	0.28		0.28		0.35			
			MEDIUM	A	0.23		0.25		0.32			
			LOW	A	0.21		0.24		0.31			
		STARTING CURRENT			A	0.32		0.30		0.47		
		MOTOR OUTPUT			W	17		23		28		
		MOTOR EFFICIENCY	HIGH	%	32.20		44.50		49.20			
			MEDIUM	%	20.50		23.60		24.00			
			LOW	%	12.30		11.20		14.80			
	COIL	POLES			6							
		TUBE	MATERIAL		COPPER							
			DIAMETER		mm							
		FIN	MATERIAL		ALUMINIUM							
			FACE AREA		m ²		0.24		0.25		0.25	
		ROW				1		2		2		
	WATER VOLUME			litre	0.43		0.83		0.83			
	AIR QUALITY	FILTER	TYPE	WASHABLE SARANET FILTER								
	CASING	QUANTITY		pc		1						
				COLOUR		WHITE						

MODE	COOLING	HEATING
ENTERING AIR TEMPERATURE	27°C DB / 19°C WB	20°C DB
ENTERING WATER TEMPERATURE	7°C	50°C (2 Pipes System)
LEAVING WATER TEMPERATURE	12°C	-

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Engineering Data - Chilled Water Fan Coil Unit

MODEL				ACK20EW	ACK25EW	ACK30EW	ACK40EW	ACK50EW	
NOMINAL COOLING CAPACITY			Btu/h	21000	25000	30000	38000	43000	
			W	6150	7330	8790	11140	12600	
NOMINAL SENSIBLE COOLING CAPACITY			Btu/h	16700	19200	22300	27400	31000	
			W	4890	5630	6540	8030	9090	
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)			Btu/h	28000	33600	38300	45500	52000	
			W	8210	9850	11230	13340	15240	
NOMINAL TOTAL INPUT POWER			W	95	126	167	186	227	
NOMINAL RUNNING CURRENT			A	0.44	0.55	0.74	0.85	1.03	
POWER SOURCE			V/Ph/Hz	220-240/1/50					
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION		4 WAY AUTOMATIC LOUVER (UP & DOWN)					
				LCD WIRELESS MICRO-COMPUTER REMOTE CONTROL					
	AIR FLOW	HIGH	CFM	750	860	890	1000	1140	
		MEDIUM	CFM	620	700	720	840	1000	
		LOW	CFM	480	540	570	680	840	
		QUIET	CFM	320	380	420	540	700	
	NOMINAL WATER FLOW RATE		USGPM	4.71	5.59	6.69	8.45	9.60	
			litres/min	17.83	21.17	25.29	31.94	36.29	
	HEAD LOSS (COOLING)		kPa	20	37	22	44	53	
	HEAD LOSS (HEATING) : 50°C		kPa	19	33	19	38	47	
	MAX. WORKING PRESSURE		kPa	1608					
	SURFACE AIR VELOCITY		m/s	0.92	1.05	1.13	1.02	1.17	
	SOUND PRESSURE LEVEL (H/M/L/Q)		dBA	42 / 38 / 32 / 23	46 / 42 / 35 / 27	48 / 43 / 38 / 30	50 / 47 / 43 / 33	52 / 49 / 45 / 39	
	UNIT DIMENSION - (WITH PANEL)		H X W X D	265 x 820 x 820 (340 x 990 x 990)			300 x 820 x 820 (375 x 990 x 990)		
	PACKING DIMENSION - (PANEL)		H X W X D	341 x 916 x 916 (125 x 1020 x 1020)			376 x 916 x 916 (125 x 1020 x 1020)		
	UNIT WEIGHT (UNIT + PANEL)		kg	26 + 4	26 + 4	28 + 4	32 + 4	32 + 4	
	CONDENSATE DRAIN SIZE		mm	19.05					
	PIPE CONNECTION		mm	19.05 BSP FEMALE THREAD ADAPTOR					
	FAN	TYPE	TURBO FAN						
			DIRECT						
		FAN SPEED	HIGH	RPM	530	600	660	710	800
			MEDIUM	RPM	450	500	550	610	710
			LOW	RPM	360	400	450	510	610
		FAN EFFICIENCY	HIGH	%	57.10	60.50	65.00	58.30	55.70
			MEDIUM	%	60.50	62.10	63.00	57.20	65.40
			LOW	%	58.20	63.30	52.70	58.40	61.60
	FAN MOTOR	TYPE		PERMANENT SPLIT CAPACITOR (INDUCTION)					
INDEX OF PROTECTION (IP)		IP20							
INSULATION GRADE		B							
RATED INPUT POWER		HIGH	W	95	126	167	186	227	
		MEDIUM	W	79	103	109	151	176	
		LOW	W	67	89	86	118	144	
RATED RUNNING CURRENT		HIGH	A	0.44	0.55	0.74	0.85	1.03	
		MEDIUM	A	0.40	0.45	0.49	0.71	0.82	
		LOW	A	0.36	0.39	0.39	0.57	0.69	
STARTING CURRENT		A	0.44	0.71	0.89	1.02	1.28		
MOTOR OUTPUT		W	30	45	65	80	110		
MOTOR EFFICIENCY		HIGH	%	35.20	37.70	30.80	40.30	48.50	
		MEDIUM	%	25.60	25.20	24.10	31.00	40.60	
		LOW	%	15.60	14.60	21.50	23.20	30.90	
POLES		8					6		
COIL	TUBE	MATERIAL		COPPER					
		DIAMETER		7.00					
	FIN	MATERIAL		ALUMINIUM					
		FACE AREA		0.39	0.39	0.37	0.46	0.46	
	ROW		2					3	3
WATER VOLUME		litre	1.36	1.34	1.97	2.35	2.35		
AIR QUALITY CASING	FILTER	TYPE		WASHABLE SARANET FILTER					
		QUANTITY		1					
			COLOUR	WHITE					

MODE	COOLING	HEATING
ENTERING AIR TEMPERATURE	27°C DB / 19°C WB	20°C DB
ENTERING WATER TEMPERATURE	7°C	50°C (2 Pipes System)
LEAVING WATER TEMPERATURE	12°C	-

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Engineering Data - Chilled Water Fan Coil Unit

MODEL				ACM15EW	ACM20EW	ACM25EW	ACM30EW	ACM40EW	ACM50EW	
NOMINAL COOLING CAPACITY		Btu/h		15500	20300	21000	25000	34000	47000	
		W		4540	5950	6150	7330	9960	13770	
NOMINAL SENSIBLE COOLING CAPACITY		Btu/h		12700	15400	16150	19250	25500	32900	
		W		3720	4510	4730	5640	7470	9640	
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)		Btu/h		19500	25000	28000	35000	47000	59000	
		W		5720	7330	8210	10260	13770	17290	
NOMINAL TOTAL INPUT POWER		W		86	135	160	148	197	225	
NOMINAL RUNNING CURRENT		A		0.38	0.67	0.79	0.65	0.87	0.99	
POWER SOURCE		V/Ph/Hz		220-240/1/50						
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION		AUTOMATIC LOUVER (UP & DOWN)						
				LCD WIRELESS MICRO-COMPUTER REMOTE CONTROL						
	AIR FLOW	HIGH	CFM	520	580	640	840	1120	1230	
		MEDIUM	CFM	460	530	560	750	980	1090	
		LOW	CFM	406	490	460	660	860	990	
	NOMINAL WATER FLOW RATE	USGPM		3.43	4.49	4.67	5.77	7.71	10.17	
		litres/min		12.98	17.00	17.68	21.85	29.19	38.53	
	HEAD LOSS (COOLING)		kPa		27	48	57	36	50	67
	HEAD LOSS (HEATING) : 50°C		kPa		24	42	50	32	45	58
	MAX. WORKING PRESSURE		kPa		1608					
	SURFACE AIR VELOCITY		m/s		0.91	1.02	1.12	1.50	1.63	1.50
	SOUND PRESSURE LEVEL (H/M/L)		dBA		45 / 38 / 36	48 / 43 / 39	49 / 46 / 41	48/47/44	52/47/46	52/50/49
	UNIT DIMENSION		H X W X D	mm	212 x 1090 x 630			259 x 1320 x 635	259 x 1538 x 635	259 x 1786 x 635
	PACKING DIMENSION		H X W X D	mm	297 x 1197 x 740			348 x 1393 x 734	348 x 1612 x 734	348 x 1860 x 734
	UNIT WEIGHT		kg		27			41	46	53
	CONDENSATE DRAIN SIZE		mm		19.05					
	PIPE CONNECTION		mm		12.70 BSP FEMALE THREAD ADAPTOR			19.05 BSP FEMALE THREAD ADAPTOR		
	FAN	TYPE			PERMANENT SPLIT CAPACITOR (INDUCTION)					
					IP20					
		DRIVE		B						
		FAN SPEED	HIGH	RPM	1220	1300	1400	1235	1300	1310
			MEDIUM	RPM	990	1100	1200	1120	1170	1170
			LOW	RPM	890	930	1000	1010	1090	1050
		FAN EFFICIENCY	HIGH	%	30.2	27.6	14.9	46.0	45.2	39.1
			MEDIUM	%	34.9	26.7	15.8	47.1	46.5	42.6
	LOW		%	34.7	27.1	20	50.0	46.4	42.9	
	FAN MOTOR	TYPE		PERMANENT SPLIT CAPACITOR (INDUCTION)						
		INDEX OF PROTECTION (IP)		IP20						
		INSULATION GRADE		B						
		RATED INPUT POWER	HIGH	W	86	135	160	148	197	225
			MEDIUM	W	58	97	113	138	169	190
			LOW	W	51	83	91	126	153	173
		RATED RUNNING CURRENT	HIGH	A	0.38	0.67	0.79	0.65	0.87	0.99
			MEDIUM	A	0.26	0.45	0.52	0.61	0.74	0.84
			LOW	A	0.23	0.39	0.44	0.55	0.67	0.76
		STARTING CURRENT		A	1.10	1.20	1.30	1.15	1.54	1.88
		MOTOR OUTPUT		W	50	65	70	92	118	149
		MOTOR EFFICIENCY	HIGH	%	51.0	49.4	54.9	53.5	57.7	56.2
	MEDIUM		%	36.5	37.5	42.0	40.2	47.4	43.3	
	LOW		%	30.2	26.2	29.4	29.7	40.7	33.5	
	COIL	POLES		4						
		TUBE	MATERIAL		COPPER					
			DIAMETER		7.00					
		FIN	MATERIAL		ALUMINIUM					
			FACE AREA		0.27		0.26	0.32	0.38	
		ROW				3			4	
	WATER VOLUME		litre	1.41		1.23	1.48	2.37		
	AIR QUALITY CASING	FILTER	TYPE		WASHABLE SARANET FILTER					
QUANTITY			pc	2		3	3	4		
		COLOUR		LIGHT GREY						

MODE	COOLING	HEATING
ENTERING AIR TEMPERATURE	27°C DB / 19°C WB	20°C DB
ENTERING WATER TEMPERATURE	7°C	50°C (2 Pipes System)
LEAVING WATER TEMPERATURE	12°C	-

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Engineering Data - Chilled Water Fan Coil Unit

MODEL				ACC10CW	ACC15CW	ACC20CW	ACC25CW		
NOMINAL COOLING CAPACITY				Btu/h	9900	11600	18000	22500	
				W	2900	3400	5280	6590	
NOMINAL SENSIBLE COOLING CAPACITY				Btu/h	7000	8120	12600	15750	
				W	2050	2380	3690	4620	
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)				Btu/h	11500	15000	23000	29000	
				W	3370	4400	6740	8500	
NOMINAL TOTAL INPUT POWER				W	89	140	168	182	
NOMINAL RUNNING CURRENT				A	0.40	0.65	0.77	0.86	
POWER SOURCE				V/Ph/Hz	220-240/1/50				
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION			DUCTED				
					WIRED REMOTE CONTROL				
	AIR FLOW	HIGH	CFM	300	510	700	730		
		MEDIUM	CFM	285	490	675	660		
		LOW	CFM	260	400	640	580		
	EXTERNAL STATIC PRESSURE			Pa	49 / 44 / 36	49 / 42 / 28	49 / 45 / 41	49 / 43 / 30	
	NOMINAL WATER FLOW RATE			USGPM	2.20	2.60	4.05	5.06	
				litres/min	8.33	9.84	15.33	19.15	
	HEAD LOSS (COOLING)			kPa	10.5	24.0	20.1	32.4	
	HEAD LOSS (HEATING) : 50°C			kPa	8.8	20.3	17.0	27.6	
	MAX. WORKING PRESSURE			kPa	1608				
	SURFACE AIR VELOCITY			m/s	1.23	1.68	1.88	1.70	
	SOUND PRESSURE LEVEL (H/M/L)			dBA	36 / 35 / 33	40 / 38 / 33	42 / 41 / 40	41 / 40 / 36	
	UNIT DIMENSION		H X W X D	mm	267 x 702 x 351	267 x 842 x 351	267 x 1002 x 351	267 x 1137 x 351	
	PACKING DIMENSION		H X W X D	mm	376 x 951 x 541	376 x 1091 x 541	376 x 1251 x 541	376 x 1386 x 541	
	UNIT WEIGHT			kg	18	22	24	26	
	CONDENSATE DRAIN SIZE			mm	19.05				
	PIPE CONNECTION			mm	19.05 BSP FEMALE THREAD ADAPTOR				
	FAN	TYPE	DRIVE			BLOWER			
						DIRECT			
		FAN SPEED	HIGH	RPM	1282	1385	1369	1348	
			MEDIUM	RPM	1221	1279	1331	1270	
			LOW	RPM	1117	1078	1263	1072	
		FAN EFFICIENCY	HIGH	%	38.70	42.90	39.70	36.20	
			MEDIUM	%	40.70	51.90	47.50	38.10	
			LOW	%	43.00	50.30	48.90	39.10	
	FAN MOTOR	TYPE			PERMANENT SPLIT CAPACITOR (INDUCTION)				
		INDEX OF PROTECTION (IP)			IP20				
		INSULATION GRADE			B				
		RATED INPUT POWER	HIGH	W	89	140	168	182	
			MEDIUM	W	86	128	165	175	
			LOW	W	78	127	163	163	
		RATED RUNNING CURRENT	HIGH	A	0.40	0.65	0.77	0.86	
			MEDIUM	A	0.39	0.59	0.76	0.83	
			LOW	A	0.35	0.59	0.75	0.77	
		STARTING CURRENT			A	0.73	1.66	1.22	1.86
		MOTOR OUTPUT			W	38	72	80	90
		MOTOR EFFICIENCY	HIGH	%	47.90	49.70	56.40	57.50	
			MEDIUM	%	42.40	39.60	50.90	48.40	
			LOW	%	33.50	24.80	44.10	30.40	
	POLES			4					
	COIL	TUBE	MATERIAL		COPPER				
			DIAMETER		9.52				
		FIN	MATERIAL		ALUMINIUM				
			FACE AREA		0.11	0.14	0.18	0.20	
			ROW		3				
WATER VOLUME			litre	0.90	1.20	1.40	1.60		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER					
		QUANTITY		1					
CASING			COLOUR	WITHOUT PAINT					

MODE	COOLING	HEATING
ENTERING AIR TEMPERATURE	27°C DB / 19°C WB	20°C DB
ENTERING WATER TEMPERATURE	7°C	50°C (2 Pipes System)
LEAVING WATER TEMPERATURE	12°C	-

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Engineering Data - Chilled Water Fan Coil Unit

MODEL				ACC30CW	ACC38CW	ACC40CW	ACC50CW	ACC60CW		
NOMINAL COOLING CAPACITY				Btu/h	24800	38000	37000	44700	51800	
				W	7270	11140	10840	13100	15180	
NOMINAL SENSIBLE COOLING CAPACITY				Btu/h	19700	29800	29300	35100	40900	
				W	5770	8730	8590	10290	11990	
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)				Btu/h	32800	49200	48000	54900	65300	
				W	9610	14420	14070	16090	19140	
NOMINAL TOTAL INPUT POWER				W	345	504	442	427	531	
NOMINAL RUNNING CURRENT				A	1.50	2.28	1.93	1.86	2.32	
POWER SOURCE				V/Ph/Hz	220-240/1/50					
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION			DUCTED					
		WIRED REMOTE CONTROL								
	AIR FLOW	HIGH	CFM	830	1250	1240	1340	1550		
		MEDIUM	CFM	760	1130	1100	1220	1400		
		LOW	CFM	710	1040	1020	1190	1300		
	EXTERNAL STATIC PRESSURE			Pa	167 / 128 / 88	118 / 108 / 88	128 / 88 / 39	157 / 137 / 108	157 / 137 / 98	
	NOMINAL WATER FLOW RATE			USGPM	5.55	8.59	8.28	10.04	11.62	
				litres/min	21.01	32.51	31.34	38.00	43.98	
	HEAD LOSS (COOLING)			kPa	14.0	39.0	23.0	38.0	51.0	
	HEAD LOSS (HEATING) : 50°C			kPa	11.0	37.0	19.0	33.0	48.0	
	MAX. WORKING PRESSURE			kPa	1608					
	SURFACE AIR VELOCITY			m/s	1.41	1.75	1.83	1.54	1.52	
	SOUND PRESSURE LEVEL (H/M/L)			dBA	46 / 42 / 38	51 / 48 / 45	49 / 45 / 41	52 / 50 / 47	53 / 50 / 47	
	UNIT DIMENSION		H X W X D	mm	384 x 917 x 462	316 x 1225 x 559	384 x 1003 x 462	384 x 1287 x 462	384 x 1487 x 462	
	PACKING DIMENSION		H X W X D	mm	415 x 1126 x 631	355 x 1461 x 727	415 x 1245 x 631	415 x 1497 x 631	415 x 1701 x 631	
	UNIT WEIGHT			kg	42	47	44	50	56	
	CONDENSATE DRAIN SIZE			mm	19.05					
	PIPE CONNECTION			mm	19.05 BSP FEMALE THREAD ADAPTOR					
	FAN	TYPE				BLOWER				
						DIRECT				
		FAN SPEED	HIGH	RPM	1230	1381	1260	1284	1303	
			MEDIUM	RPM	1093	1268	1097	1203	1215	
			LOW	RPM	937	1169	913	1108	1067	
		FAN EFFICIENCY	HIGH	%	37.20	46.00	42.20	43.70	41.70	
			MEDIUM	%	39.50	49.10	42.90	47.30	43.30	
			LOW	%	41.60	44.50	44.30	48.70	43.40	
		FAN MOTOR	TYPE			PERMANENT SPLIT CAPACITOR (INDUCTION)				
			INDEX OF PROTECTION (IP)			IP20	IP21	IP22	IP20	IP20
	INSULATION GRADE			B						
	RATED INPUT POWER		HIGH	W	345	504	442	427	531	
MEDIUM			W	304	380	384	388	466		
LOW			W	270	338	342	373	413		
RATED RUNNING CURRENT	HIGH		A	1.50	2.28	1.93	1.86	2.32		
	MEDIUM		A	1.34	1.72	1.69	1.69	2.02		
	LOW		A	1.21	1.53	1.54	1.63	1.81		
STARTING CURRENT			A	2.43	2.77	3.18	3.50	4.90		
MOTOR OUTPUT			W	310	470	355	373	500		
MOTOR EFFICIENCY	HIGH		%	60.80	63.10	63.80	63.00	68.00		
	MEDIUM		%	47.40	60.80	47.50	58.60	59.60		
	LOW		%	34.80	53.00	32.30	49.40	46.10		
COIL	POLES			4						
	TUBE	MATERIAL		COPPER						
		DIAMETER		9.52						
	FIN	MATERIAL		ALUMINIUM						
		FACE AREA		m²	0.28	0.34	0.32	0.41	0.48	
WATER VOLUME			litre	3	3	3	3	3		
AIR QUALITY	FILTER	TYPE			WASHABLE SARANET FILTER					
		QUANTITY			2					
CASING			COLOUR	WITHOUT PAINT						

MODE	COOLING	HEATING
ENTERING AIR TEMPERATURE	27°C DB / 19°C WB	20°C DB
ENTERING WATER TEMPERATURE	7°C	50°C (2 Pipes System)
LEAVING WATER TEMPERATURE	12°C	-

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Engineering Data - Chilled Water Fan Coil Unit

MODEL				ACC06FWD		ACC09FWD		ACC12FWD		ACC15FWD			
NOMINAL COOLING CAPACITY				Btu/h	6600	8700		12100		14000			
				W	1930	2550		3550		4100			
NOMINAL SENSIBLE COOLING CAPACITY				Btu/h	5400	6300		9500		9600			
				W	1580	1850		2780		2810			
NOMINAL TOTAL INPUT POWER				W	92	108		131		151			
NOMINAL RUNNING CURRENT				A	0.42	0.50		0.58		0.66			
POWER SOURCE				V/Ph/Hz	220-240/1/50								
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION			DUCTED								
					WITHOUT CONTROLLER								
	AIR FLOW	HIGH	CFM	280	310		450		460				
		MEDIUM	CFM	270	300		430		450				
		LOW	CFM	220	280		360		400				
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa	53 / 50 / 34		53 / 50 / 44		55 / 50 / 40		78 / 75 / 60		
	NOMINAL WATER FLOW RATE			USGPM	0.84		1.06		1.50		1.72		
				litres/min	3.17		4.00		5.67		6.50		
	HEAD LOSS (COOLING)			kPa	24.9		20.8		17.2		31.2		
	MAX. WORKING PRESSURE			kPa	1608								
	SURFACE AIR VELOCITY			m/s	1.20		1.33		1.25		1.28		
	SOUND PRESSURE LEVEL (H/M/L)			dBA	40 / 39 / 36		40 / 39 / 37		41 / 40 / 37		42 / 41 / 39		
	UNIT DIMENSION		H X W X D	mm	247 x 552 x 619				247 x 552 x 870				
	PACKING DIMENSION		H X W X D	mm	320 x 630 x 737				320 x 630 x 987				
	UNIT WEIGHT			kg	16		17		23		24		
	CONDENSATE DRAIN SIZE			mm	19.05								
	PIPE CONNECTION			mm	19.05 BSPT FEMALE TREAD ADAPTOR								
	FAN	TYPE			CENTRIFUGAL								
		DRIVE			DIRECT								
		QUANTITY			1		1		2		2		
		FAN SPEED	HIGH	RPM	1265		1379		1290		1389		
			MEDIUM	RPM	1232		1356		1245		1369		
			LOW	RPM	1107		1290		1115		1290		
		FAN EFFICIENCY	HIGH	%	40.4		37.5		40.0		36.4		
			MEDIUM	%	40.8		39.4		41.1		38.6		
			LOW	%	41.9		42.8		40.1		42.9		
	FAN MOTOR	TYPE			PERMANENT SPLIT CAPACITOR (INDUCTION)								
		INDEX OF PROTECTION (IP)			IP20								
		INSULATION GRADE			B								
		QUANTITY			1		1		1		1		
		RATED INPUT POWER	HIGH	W	92		108		131		151		
			MEDIUM	W	86		100		124		131		
			LOW	W	68		84		105		102		
		RATED RUNNING CURRENT	HIGH	A	0.42		0.50		0.58		0.66		
			MEDIUM	A	0.38		0.44		0.54		0.58		
			LOW	A	0.30		0.37		0.46		0.49		
		STARTING CURRENT			A	0.68		1.08		1.08		1.41	
		MOTOR OUTPUT			W	36		71		71		100	
		MOTOR EFFICIENCY	HIGH	%	37.0		45.9		53.3		53.6		
			MEDIUM	%	35.1		44.0		48.1		52.0		
			LOW	%	28.2		40.0		34.4		46.0		
	POLES			4		4		4		4			
	COIL	TUBE	MATERIAL		COPPER								
			DIAMETER	mm	7								
		FIN	MATERIAL		ALUMINIUM								
			FACE AREA	m²	0.11		0.11		0.17		0.17		
ROW			3		4		3		4				
WATER VOLUME			litre	0.38		0.63		0.72		0.96			
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER									
QUANTITY		pc	2										
CASING			COLOUR	WITHOUT PAINT									

MODE	COOLING
ENTERING AIR TEMPERATURE	24°C DB / 18°C WB
ENTERING WATER TEMPERATURE	5.5°C
LEAVING WATER TEMPERATURE	14.5°C

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Engineering Data - Chilled Water Fan Coil Unit

MODEL				ACC18FWD		ACC24FWD		ACC30FWD				
NOMINAL COOLING CAPACITY				Btu/h	17000		24500		28500			
				W	4980		7180		8350			
NOMINAL SENSIBLE COOLING CAPACITY				Btu/h	11800		17000		20200			
				W	3460		4980		5920			
NOMINAL TOTAL INPUT POWER				W	192		265		321			
NOMINAL RUNNING CURRENT				A	0.95		1.28		1.57			
POWER SOURCE				V/Ph/Hz	220-240/1/50							
INDOOR UNIT	CONTROL		AIR DISCHARGE OPERATION		DUCTED							
					WITHOUT CONTROLLER							
	AIR FLOW		HIGH	CFM	570		820		940			
			MEDIUM	CFM	560		800		920			
			LOW	CFM	500		750		840			
	EXTERNAL STATIC PRESSURE (H/M/L)				Pa	77 / 75 / 61		78 / 75 / 66		78 / 75 / 67		
	NOMINAL WATER FLOW RATE (COOLING)				USGPM	2.11		3.04		3.52		
					litres/min	8.00		11.50		13.33		
	HEAD LOSS (COOLING)				kPa	18.7		25.0		19.4		
	MAX. WORKING PRESSURE				kPa	1608						
	SURFACE AIR VELOCITY				m/s	1.24		1.29		1.22		
	SOUND PRESSURE LEVEL (H/M/L)				dBA	45 / 44 / 41		47 / 46 / 45		48 / 47 / 45		
	UNIT DIMENSION			H X W X D	mm	247 x 552 x 1060		247 x 552 x 1390		247 x 552 x 1600		
	PACKING DIMENSION			H X W X D	mm	320 x 630 x 1177		320 x 630 x 1507		320 x 630 x 1717		
	UNIT WEIGHT				kg	28		38		45		
	CONDENSATE DRAIN SIZE				mm	19.05						
	PIPE CONNECTION				mm	19.05 BSPT FEMALE TREAD ADAPTOR						
	FAN		TYPE		CENTRIFUGAL							
			DRIVE		DIRECT							
			QUANTITY		2		3		4			
			FAN SPEED		HIGH	RPM	1415		1430/1403		1422	
					MEDIUM	RPM	1395		1415/1388		1402	
					LOW	RPM	1283		1336/1337		1322	
			FAN EFFICIENCY		HIGH	%	33.7		40.9		31.0	
					MEDIUM	%	38.1		45.9		32.3	
					LOW	%	36.9		45.7		38.4	
	FAN MOTOR		TYPE		PERMANENT SPLIT CAPACITOR (INDUCTION)							
			INDEX OF PROTECTION (IP)		IP20							
			INSULATION GRADE		B							
			QUANTITY		1		2		2			
			RATED INPUT POWER		HIGH	W	192		265		321	
					MEDIUM	W	178		242		297	
					LOW	W	149		201		253	
			RATED RUNNING CURRENT		HIGH	A	0.95		1.28		1.57	
					MEDIUM	A	0.79		1.06		1.31	
					LOW	A	0.65		0.88		1.11	
			STARTING CURRENT		A	2.65		2.65/1.08		2.65		
			MOTOR OUTPUT		W	150		150/71		150		
			MOTOR EFFICIENCY		HIGH	%	58.5		54.6/40.1		60.2	
					MEDIUM	%	53.6		48.6/39.4		56.7	
					LOW	%	41.4		43.9/38.1		44.9	
	POLES		4		4		4					
	COIL		TUBE		MATERIAL		COPPER					
					DIAMETER		mm		7			
			FIN		MATERIAL		ALUMINIUM					
					FACE AREA		m²		0.22		0.30	
			ROW		4		4		4			
	WATER VOLUME		litre		1.22		1.67		1.95			
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER								
		QUANTITY		pc		2		3		3		
CASING				COLOUR		2		3		WITHOUT PAINT		

MODE	COOLING
ENTERING AIR TEMPERATURE	24°C DB / 18°C WB
ENTERING WATER TEMPERATURE	5.5°C
LEAVING WATER TEMPERATURE	14.5°C

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Engineering Data - Chilled Water Fan Coil Unit

Low Static Pressure (LSP)

MODEL				ACC02GW	ACC03GW	ACC04GW	ACC06GW		
NOMINAL COOLING CAPACITY			Btu/h	6000	9000	12000	18000		
			W	1.76	2.64	3.52	5.28		
NOMINAL SENSIBLE COOLING CAPACITY			Btu/h	5000	7000	9700	14400		
			W	1.47	2.05	2.84	4.22		
NOMINAL TOTAL INPUT POWER			W	53	61	81	116		
NOMINAL RUNNING CURRENT			A	0.23	0.27	0.36	0.50		
POWER SOURCE			V/Ph/Hz	220-240/1/50					
REFRIGERANT TYPE				WATER					
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION		DUCTED					
				WITHOUT CONTROLLER					
	AIR FLOW	HIGH	CFM	200	300	400	600		
		MEDIUM	CFM	160	220	305	500		
		LOW	CFM	130	150	200	385		
	EXTERNAL STATIC PRESSURE		Pa	30/19/12	30/16/7	30/18/7	30/21/13		
	NOMINAL WATER FLOW RATE		USGPM	1.32	2.00	2.66	3.99		
			litres/min	5.00	7.57	10.09	15.13		
	HEAD LOSS (COOLING)		kPa	7	20	25	34		
	MAX. WORKING PRESSURE		kPa	1608					
	SURFACE AIR VELOCITY		m/s	1.26	1.17	1.56	1.99		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	31/26/20	32/25/20	35/29/21	38/35/30		
	UNIT DIMENSION - (WITH PANEL)		H X W X D	mm	251X630X461	251X774X461	251X774X461	251X874X461	
	PACKING DIMENSION - (PANEL)		H X W X D	mm	595X836X284	595x984x284	595x984x284	595x1084x284	
	UNIT WEIGHT (UNIT + PANEL)			kg	11.00	14.50	15.00	17.50	
	CONDENSATE DRAIN SIZE			mm	19.05				
	PIPE CONNECTION			mm	19.05 BSPT FEMALE THREAD ADAPTOR				
	FAN	TYPE			BLOWER				
			DRIVE		DIRECT				
		FAN SPEED	HIGH	RPM	985	970	1070	1300	
			MEDIUM	RPM	800	740	870	1120	
			LOW	RPM	655	540	610	940	
		FAN EFFICIENCY	HIGH	%	34.2	34.8	32.5	33.4	
			MEDIUM	%	36.7	36.1	34.6	34.1	
			LOW	%	40.4	39.6	39.0	35.5	
		FAN MOTOR	TYPE		PERMANENT SPLIT CAPACITOR (INDUCTION)				
			INDEX OF PROTECTION (IP)		IP20				
INSULATION GRADE			B						
RATED INPUT POWER	HIGH		W	53	61	81	116		
	MEDIUM		W	30	39	57	91		
	LOW		W	19	21	30	67		
RATED RUNNING CURRENT	HIGH		A	0.23	0.27	0.36	0.50		
	MEDIUM		A	0.13	0.17	0.25	0.39		
	LOW		A	0.08	0.09	0.13	0.29		
STARTING CURRENT			A	0.27	0.37	0.47	0.97		
MOTOR OUTPUT			W	15	21	32	70		
MOTOR EFFICIENCY	HIGH		%	28.20	28.60	38.70	54.80		
	MEDIUM		%	24.40	19.00	27.20	40.70		
	LOW	%	19.00	11.90	15.80	29.10			
COIL	POLES		4						
	TUBE	MATERIAL		COPPER					
		DIAMETER		7.00					
	FIN	MATERIAL		ALUMINIUM					
		FACE AREA		0.08					
	ROW		3						
WATER VOLUME		litre	0.28	0.45	0.45	0.62			
AIR QUALITY	FILTER	TYPE		OPTION (WASHABLE SARANET FILTER OR ALUMINIUM MESH FILTER)					
CASING		QUANTITY		2					
			pc	WITHOUT PAINT					
			COLOUR						

MODE	COOLING	HEATING
ENTERING AIR TEMPERATURE	27°C DB / 19°C WB	20°C DB
ENTERING WATER TEMPERATURE	7°C	50°C (2 Pipes System)
LEAVING WATER TEMPERATURE	12°C	-

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Engineering Data - Chilled Water Fan Coil Unit

Low Static Pressure (LSP)

MODEL				ACC08GW	ACC10GW	ACC12GW	
NOMINAL COOLING CAPACITY			Btu/h	24000	30000	36000	
			W	7.03	8.79	10.55	
NOMINAL SENSIBLE COOLING CAPACITY			Btu/h	19100	23400	27900	
			W	5.60	6.86	8.18	
NOMINAL TOTAL INPUT POWER			W	159	202	241	
NOMINAL RUNNING CURRENT			A	0.72	0.90	1.05	
POWER SOURCE			V/Ph/Hz	220-240/1/50			
REFRIGERANT TYPE				WATER			
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION		DUCTED			
				WITHOUT CONTROLLER			
	AIR FLOW	HIGH	CFM	800	1000	1200	
		MEDIUM	CFM	650	805	975	
		LOW	CFM	465	600	810	
	EXTERNAL STATIC PRESSURE		Pa	30/19/10	30/18/11	30/20/13	
	NOMINAL WATER FLOW RATE		USGPM	5.33	6.66	7.99	
			litres/min	20.18	25.22	30.26	
	HEAD LOSS (COOLING)		kPa	38	42	38	
	MAX. WORKING PRESSURE		kPa	1608			
	SURFACE AIR VELOCITY		m/s	1.69	2.11	2.05	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39/34/26	41/37/31	42/39/35	
	UNIT DIMENSION - (WITH PANEL)		H X W X D	251x1264x461	251x1264x461	251x1514x461	
	PACKING DIMENSION - (PANEL)		H X W X D	595x1437x284	595x1473x284	595x1724x284	
	UNIT WEIGHT (UNIT + PANEL)		kg	26	26	30	
	CONDENSATE DRAIN SIZE		mm	19.05			
	PIPE CONNECTION		mm	19.05 BSPT FEMALE THREAD ADAPTOR			
	FAN	TYPE		BLOWER			
		DRIVE		DIRECT			
		FAN SPEED	HIGH	RPM	1140	1275	1220
			MEDIUM	RPM	950	1035	1010
			LOW	RPM	710	805	835
		FAN EFFICIENCY	HIGH	%	52.90	43.90	37.70
			MEDIUM	%	53.60	51.20	33.90
			LOW	%	57.60	57.30	46.70
	FAN MOTOR	TYPE		PERMANENT SPLIT CAPACITOR (INDUCTION)			
		INDEX OF PROTECTION (IP)		IP20			
		INSULATION GRADE		B			
RATED INPUT POWER		HIGH	W	159	202	241	
		MEDIUM	W	126	161	187	
		LOW	W	81	115	148	
RATED RUNNING CURRENT		HIGH	A	0.72	0.90	1.05	
		MEDIUM	A	0.54	0.70	0.82	
		LOW	A	0.35	0.50	0.65	
STARTING CURRENT		A	0.93	1.31	1.51		
MOTOR OUTPUT		W	74	109	122		
MOTOR EFFICIENCY		HIGH	%	44.00	54.20	51.90	
		MEDIUM	%	32.70	34.80	35.90	
		LOW	%	20.80	21.40	25.20	
COIL	POLES		4				
	TUBE	MATERIAL		COPPER			
		DIAMETER		7.00			
	FIN	MATERIAL		ALUMINIUM			
		FACE AREA		0.14	0.22	0.22	
	ROW		3				
WATER VOLUME		litre	0.62	0.90	1.04		
AIR QUALITY	FILTER	TYPE	OPTION (WASHABLE SARANET FILTER OR ALUMINIUM MESH FILTER)				
CASING	QUANTITY		pc	2			
	COLOUR		WITHOUT PAINT				

MODE	COOLING	HEATING
ENTERING AIR TEMPERATURE	27°C DB / 19°C WB	20°C DB
ENTERING WATER TEMPERATURE	7°C	50°C (2 Pipes System)
LEAVING WATER TEMPERATURE	12°C	-

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Engineering Data - Chilled Water Fan Coil Unit (MSP)

Medium Static Pressure (MSP)

MODEL				ACC03GW	ACC04GW	ACC06GW	ACC08GW	ACC10GW	
NOMINAL COOLING CAPACITY			Btu/h	9000	12000	18000	24000	30000	
			W	2640	3520	5280	7030	8790	
NOMINAL SENSIBLE COOLING CAPACITY			Btu/h	7000	9700	14400	19100	23400	
			W	2050	2840	4220	5600	6860	
NOMINAL TOTAL INPUT POWER			W	61	87	130	184	235	
NOMINAL RUNNING CURRENT			A	0.27	0.38	0.58	0.81	1.03	
POWER SOURCE			V/Ph/Hz	220-240/1/50					
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION		DUCTED					
				WITHOUT CONTROLLER					
	AIR FLOW	HIGH	CFM	300	400	600	800	1000	
		MEDIUM	CFM	220	305	500	650	805	
		LOW	CFM	150	200	385	465	600	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa	50/32/15	50/32/15	50/35/20	50/33/17	50/33/18	
	NOMINAL WATER FLOW RATE (COOLING)		USGPM	2.00	2.66	3.99	5.33	6.66	
			litres/min	7.57	10.09	15.13	20.18	25.22	
	HEAD LOSS (COOLING)		kPa	20	25	34	38	42	
	MAX. WORKING PRESSURE		kPa	1608					
	SURFACE AIR VELOCITY		m/s	1.17	1.56	1.99	1.69	2.11	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	35/29/20	37/31/22	41/37/31	43/37/30	44/40/33	
	UNIT DIMENSION		H X W X D	mm	251X774X461	251X774X461	251X874X461	251X1264X461	251X1264X461
	PACKING DIMENSION		H X W X D	mm	595X984X284	595X984X284	595X1084X284	595X1473X284	595X1473X284
	UNIT WEIGHT		kg	14.50	15.00	17.50	26.00	26.00	
	CONDENSATE DRAIN SIZE		mm	19.05					
	PIPE CONNECTION		mm	19.05 BSPT FEMALE TREAD ADAPTOR					
	FAN	TYPE		BLOWER					
		DRIVE		DIRECT					
		QUANTITY		2	2	2	3	3	
		FAN SPEED	HIGH	RPM	1115	1235	1350	1310	1405
			MEDIUM	RPM	900	990	1170	1080	1190
			LOW	RPM	645	715	935	830	930
		FAN EFFICIENCY	HIGH	%	35.90	36.30	33.50	39.00	36.00
			MEDIUM	%	37.00	36.00	33.90	39.90	38.60
			LOW	%	38.70	37.00	35.40	40.40	39.60
		FAN MOTOR	TYPE		PERMANENT SPLIT CAPACITOR (INDUCTION)				
	INDEX OF PROTECTION (IP)		IP20						
	INSULATION GRADE		B						
	QUANTITY		1	1	1	2	2		
	RATED INPUT POWER		HIGH	W	61	87	130	184	235
			MEDIUM	W	43	66	106	143	176
			LOW	W	26	42	80	104	137
	RATED RUNNING CURRENT		HIGH	A	0.27	0.38	0.58	0.81	1.03
			MEDIUM	A	0.19	0.29	0.47	0.63	0.77
			LOW	A	0.12	0.19	0.35	0.46	0.60
	STARTING CURRENT		A	0.34	0.53	0.91	1.27	2.09	
	MOTOR OUTPUT		W	27	43	80	104	140	
	MOTOR EFFICIENCY		HIGH	%	43.00	50.30	58.80	53.30	58.30
			MEDIUM	%	28.60	32.10	46.40	36.40	43.50
			LOW	%	15.80	17.00	30.50	21.80	25.60
	COIL	POLES		4					
		TUBE	MATERIAL	COPPER					
			DIAMETER	mm	7.00				
		FIN	MATERIAL	ALUMINIUM					
			FACE AREA	m²	0.12	0.12	0.14	0.22	0.22
	WATER VOLUME		litre	0.45	0.45	0.62	0.90	1.04	
	AIR QUALITY	FILTER	TYPE	OPTION (WASHABLE SARANET FILTER OR ALUMINIUM MESH FILTER)					
	QUANTITY		pc	2	2	2	3	3	
	CASING		COLOUR	WITHOUT PAINT					

MODE	COOLING
ENTERING AIR TEMPERATURE	27°C DB / 19°C WB
ENTERING WATER TEMPERATURE	7°C
LEAVING WATER TEMPERATURE	12°C

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Engineering Data - Chilled Water Fan Coil Unit

Medium Static Pressure (MSP)

MODEL				ACC12GW	ACC14GW	ACC16GW	ACC18GW	ACC20GW	
NOMINAL COOLING CAPACITY			Btu/h	36000	42000	48000	54000	60000	
			W	10550	12310	14070	15830	17580	
NOMINAL SENSIBLE COOLING CAPACITY			Btu/h	27900	33900	38200	43900	50000	
			W	8180	9940	11200	12870	14650	
NOMINAL TOTAL INPUT POWER			W	246	450	558	624	659	
NOMINAL RUNNING CURRENT			A	1.10	1.96	2.43	2.72	2.87	
POWER SOURCE			V/Ph/Hz	220-240/1/50					
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION		DUCTED					
				WITHOUT CONTROLLER					
	AIR FLOW	HIGH	CFM	1200	1400	1600	1800	2000	
		MEDIUM	CFM	975	1130	1300	1445	1530	
		LOW	CFM	810	825	905	1060	1075	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa	50/33/23	75/48/24	75/48/24	75/48/25	75/45/22	
	NOMINAL WATER FLOW RATE (COOLING)		USGPM	7.99	9.32	10.65	11.98	13.31	
			litres/min	30.26	35.31	40.35	45.40	50.44	
	HEAD LOSS (COOLING)		kPa	38	31	27	33	32	
	MAX. WORKING PRESSURE		kPa	1608					
	SURFACE AIR VELOCITY		m/s	2.05	2.43	2.41	2.71	2.65	
	SOUND PRESSURE LEVEL (H/M/L)		dB(A)	44/40/37	47/43/35	48/44/37	49/45/39	50/46/38	
	UNIT DIMENSION		H X W X D	mm	251X1514X461	363X1116X660	363X1254X660	363X1254X660	363X1394X660
	PACKING DIMENSION		H X W X D	mm	595X1724X284	760X1331X395	760X1469X395	760X1469X395	760X1609X395
	UNIT WEIGHT		kg	30	34	37	38	41	
	CONDENSATE DRAIN SIZE		mm	19.05					
	PIPE CONNECTION		mm	19.05 BSPT FEMALE TREAD ADAPTOR	25.4 BSPT FEMALE TREAD ADAPTOR				
	FAN	TYPE	BLOWER						
		DRIVE	DIRECT						
		QUANTITY		4	2	2	2	2	
		FAN SPEED	HIGH	RPM	1320	1065	1115	1210	1220
MEDIUM			RPM	1050	875	920	1000	1070	
LOW			RPM	965	675	690	740	875	
FAN EFFICIENCY		HIGH	%	32.90	37.60	31.70	33.60	32.40	
		MEDIUM	%	30.10	38.60	35.00	34.50	40.30	
		LOW	%	33.40	42.70	41.00	36.90	46.40	
FAN MOTOR		TYPE	PERMANENT SPLIT CAPACITOR (INDUCTION)						
	INDEX OF PROTECTION (IP)		IP20						
	INSULATION GRADE		B						
	QUANTITY		2	1	1	1	1		
	RATED INPUT POWER	HIGH	W	246	450	558	624	659	
		MEDIUM	W	200	307	385	459	497	
		LOW	W	158	173	214	295	313	
	RATED RUNNING CURRENT	HIGH	A	1.10	1.96	2.43	2.72	2.87	
		MEDIUM	A	0.88	1.34	1.68	2.00	2.17	
		LOW	A	0.70	0.76	0.95	1.31	1.40	
	STARTING CURRENT		A	1.62	2.75	3.81	4.38	4.35	
	MOTOR OUTPUT		W	146	248	342	418	446	
	MOTOR EFFICIENCY	HIGH	%	58.80	53.20	53.30	62.10	59.80	
		MEDIUM	%	38.90	41.60	40.70	44.90	50.70	
		LOW	%	33.10	29.70	26.70	27.70	37.20	
COIL	POLES		4						
	TUBE	MATERIAL	COPPER						
		DIAMETER	mm	7.00	9.52				
	FIN	MATERIAL	ALUMINIUM						
		FACE AREA	m²	0.28	0.22	0.26	0.26	0.29	
WATER VOLUME		litre	1.29	2.00	2.32	2.32	2.63		
AIR QUALITY	FILTER	TYPE	OPTION (WASHABLE SARANET FILTER OR ALUMINIUM MESH FILTER)						
		QUANTITY	4	2	3	3	3		
CASING		COLOUR	WITHOUT PAINT						

MODE	COOLING
ENTERING AIR TEMPERATURE	27°C DB/ 19°C WB
ENTERING WATER TEMPERATURE	7°C
LEAVING WATER TEMPERATURE	12°C

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Engineering Data - Chilled Water Fan Coil Unit

MODEL				ADB075BW		ADB100BW		ADB125BW		ADB150BW				
NOMINAL COOLING CAPACITY				Btu/h	75600		95000		125000		150000			
				W	22160		27840		36640		43960			
NOMINAL SENSIBLE COOLING CAPACITY				Btu/h	53700		69400		90000		106500			
				W	15740		20340		26380		31210			
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)				Btu/h	78000		97500		138000		170000			
				W	22860		28580		40450		49820			
NOMINAL TOTAL INPUT POWER				W	760		1800		1620		1910			
NOMINAL RUNNING CURRENT				A	3.49		7.84		3.33		4.03			
POWER SOURCE				V/Ph/Hz	220-240/1/50				380-415/3/50					
INDOOR UNIT	CONTROL		AIR DISCHARGE OPERATION		DUCTED									
	AIR FLOW		HIGH		CFM	2500		3200		4200		4600		
			MEDIUM		CFM	2100		3000		N/A		N/A		
			LOW		CFM	1750		2800		N/A		N/A		
	EXTERNAL STATIC PRESSURE				Pa	100 / 72 / 50		100 / 80 / 60		149*		149*		
	NOMINAL WATER FLOW RATE				USGPM	16.90		21.10		27.70		33.30		
					litres/min	64.00		80.00		105.00		126.00		
	HEAD LOSS (COOLING)				kPa	34.5		42.0		48.8		53.3		
	HEAD LOSS (HEATING) : 50°C				kPa	32.9		27.4		31.5		63.2		
	MAX. WORKING PRESSURE				kPa	1608								
	SURFACE AIR VELOCITY				m/s	2.18		2.79		1.97		2.16		
	SOUND PRESSURE LEVEL				dBA	50 / 46 / 42		54 / 52 / 50		58		58		
	UNIT DIMENSION			H X W X D	mm	572 x 1402 x 605				885 x 1540 x 850				
	PACKING DIMENSION			H X W X D	mm	762 x 1605 x 880				1154 x 1787 x 1188				
	UNIT WEIGHT				kg	92		102		176		189		
	CONDENSATE DRAIN SIZE				mm	19.05								
	PIPE CONNECTION				mm	31.75 BSPT FEMALE THREAD ADAPTOR								
	FAN		TYPE		BLOWER									
			DRIVE		DIRECT				BELT					
			FAN SPEED		HIGH	RPM	835		950		707		707	
					MEDIUM	RPM	720		885		N/A		N/A	
					LOW	RPM	620		805		N/A		N/A	
			FAN EFFICIENCY		HIGH	%	43.30		31.60		41.30		27.10	
					MEDIUM	%	43.20		35.00		N/A		N/A	
	LOW	%			45.40		38.20		N/A		N/A			
	FAN MOTOR		TYPE		PERMANENT SPLIT CAPACITOR (INDUCTION)				THREE PHASE INDUCTION					
			INDEX OF PROTECTION (IP)				IP22							
			INSULATION GRADE				B							
			RATED INPUT POWER		HIGH	W	760		1800		1620		1910	
					MEDIUM	W	611		1620		N/A		N/A	
					LOW	W	478		1320		N/A		N/A	
			RATED RUNNING CURRENT		HIGH	A	3.49		7.84		3.33		4.03	
MEDIUM					A	2.86		7.06		N/A		N/A		
LOW					A	2.32		5.82		N/A		N/A		
STARTING CURRENT				A	5.20		10.30		3.48		4.21			
MOTOR OUTPUT				W	375		500		1500		1500			
MOTOR EFFICIENCY			HIGH	%	58.30		41.00		77.20		79.70			
			MEDIUM	%	42.50		36.60		N/A		N/A			
		LOW	%	31.30		31.30		N/A		N/A				
POLES				6		4		4		4				
COIL		TUBE		MATERIAL		COPPER								
				DIAMETER		mm		9.52						
		FIN		MATERIAL		ALUMINIUM								
				FACE AREA		m²		0.54		0.54		1.01		1.01
ROW				3		4		3		4				
WATER VOLUME				litre		4.53		6.27		8.14		11.63		
AIR QUALITY		FILTER		TYPE		WASHABLE SARANET FILTER				VILEDON R29				
				QUANTITY		pc		2		3				
CASING				COLOUR		IVORY WHITE								

* The external static pressure for FUD30/40B above is inclusive of R29 filters whereby R29 filters contribute a pressure drop of 81Pa.

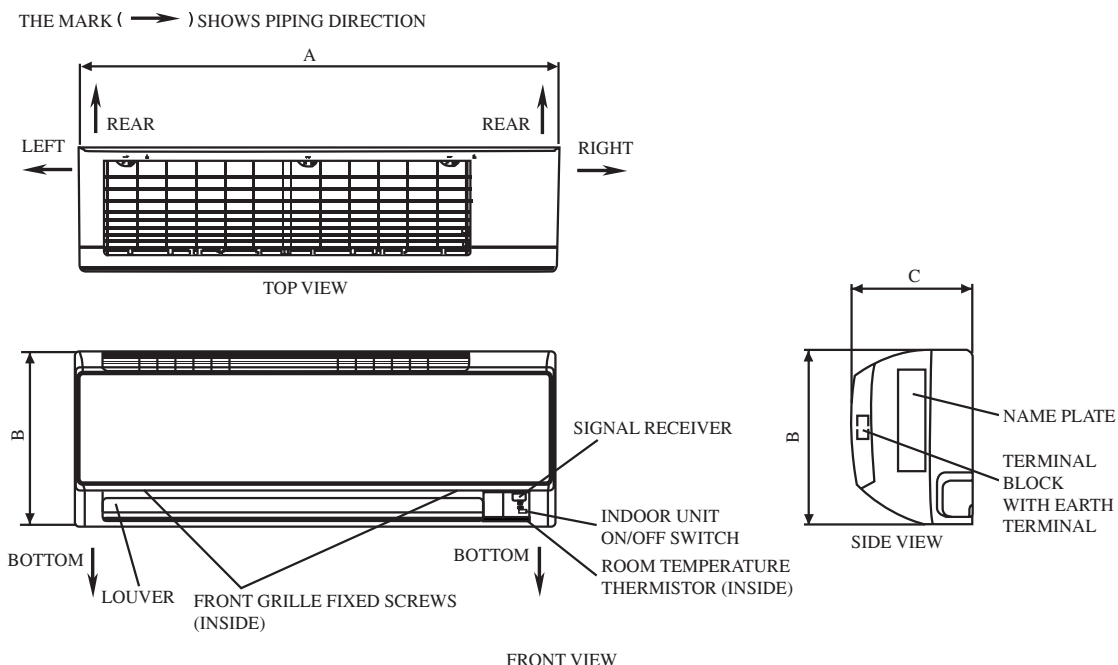
MODE	COOLING	HEATING
ENTERING AIR TEMPERATURE	27°C DB / 19°C WB	20°C DB
ENTERING WATER TEMPERATURE	7°C	50°C (2 Pipes System)
LEAVING WATER TEMPERATURE	12°C	-

ALL SPECIFICATIONS ARE SUBJECT TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

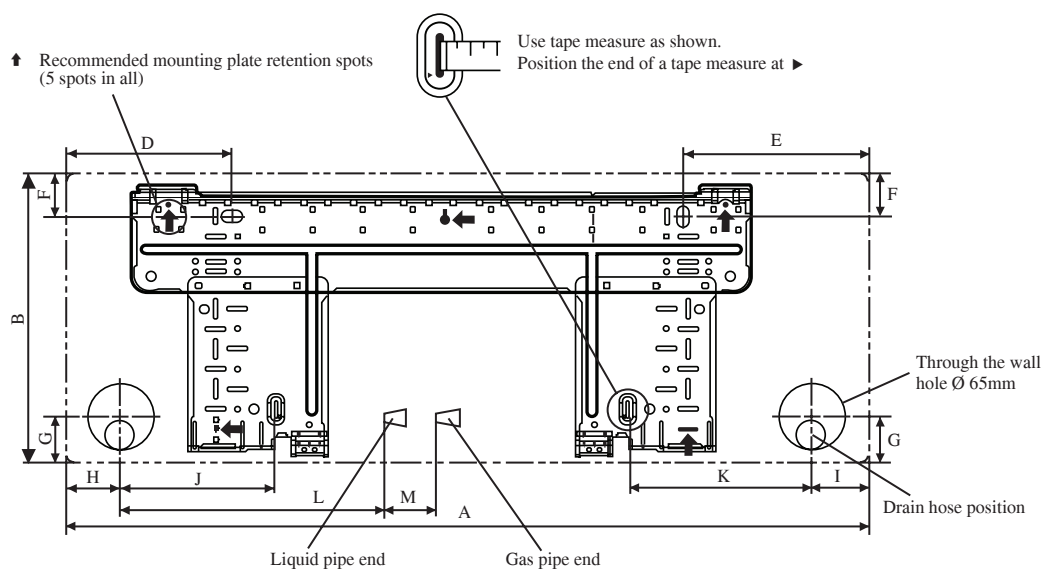
Outlines & Dimensions

Indoor Unit

Model: AWM07/10/15/20/25W



NOTE: PLEASE BASED ON ACTUAL INSTALLATION PLATE DESIGN IN THE UNIT FOR INSTALLATION PLATE FWW02/03/04L DIMENSION REFERENCE AT PAGE 1&2.

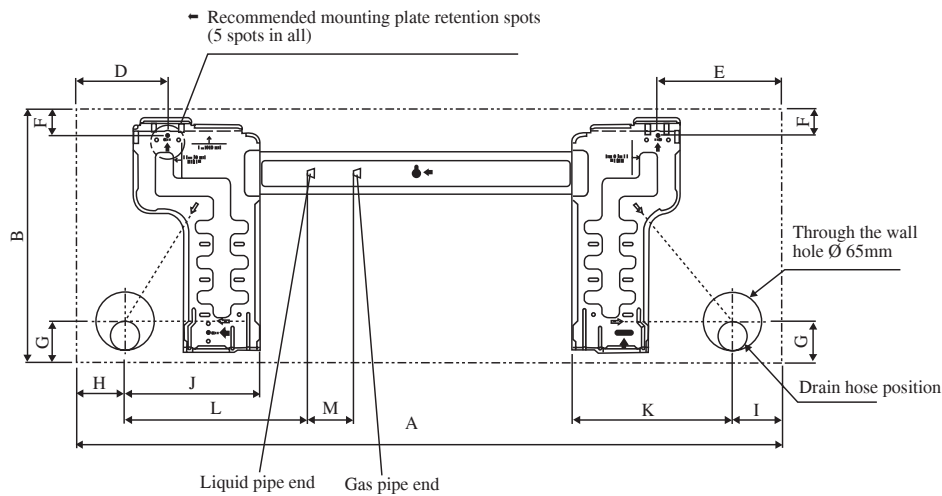


INSTALLATION PLATE FWW02/03/04L

Dimension Model	A	B	C	D	E	F	G	H	I	J	K	L	M
07/10/15	800	288	206	166	184	42	46	55	56	154	182	263	52

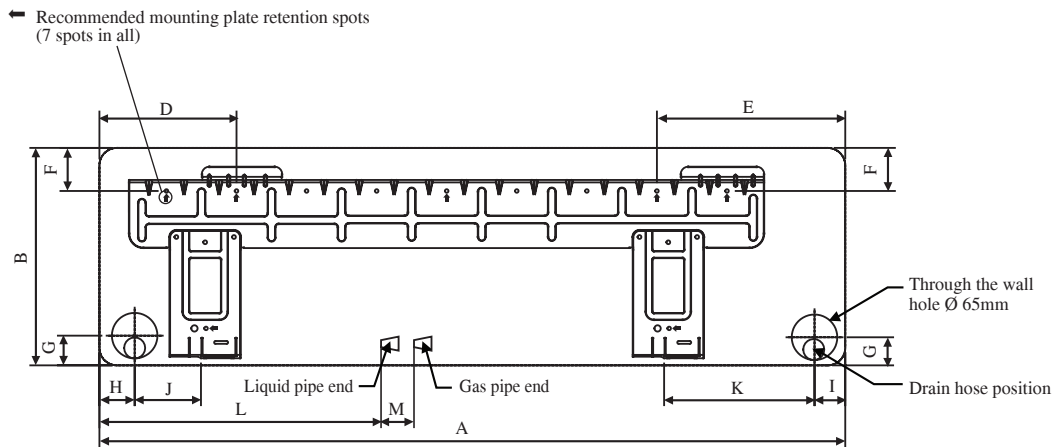
Note: Dimension in mm

Model: AWM07/10/15/20/25W



ALTERNATIVE INSTALLATION PLATE FWW02/03/04L

Dimension Model	A	B	C	D	E	F	G	H	I	J	K	L	M
07/10/15	800	288	206	104	141	30	46	55	56	153	181	207	52

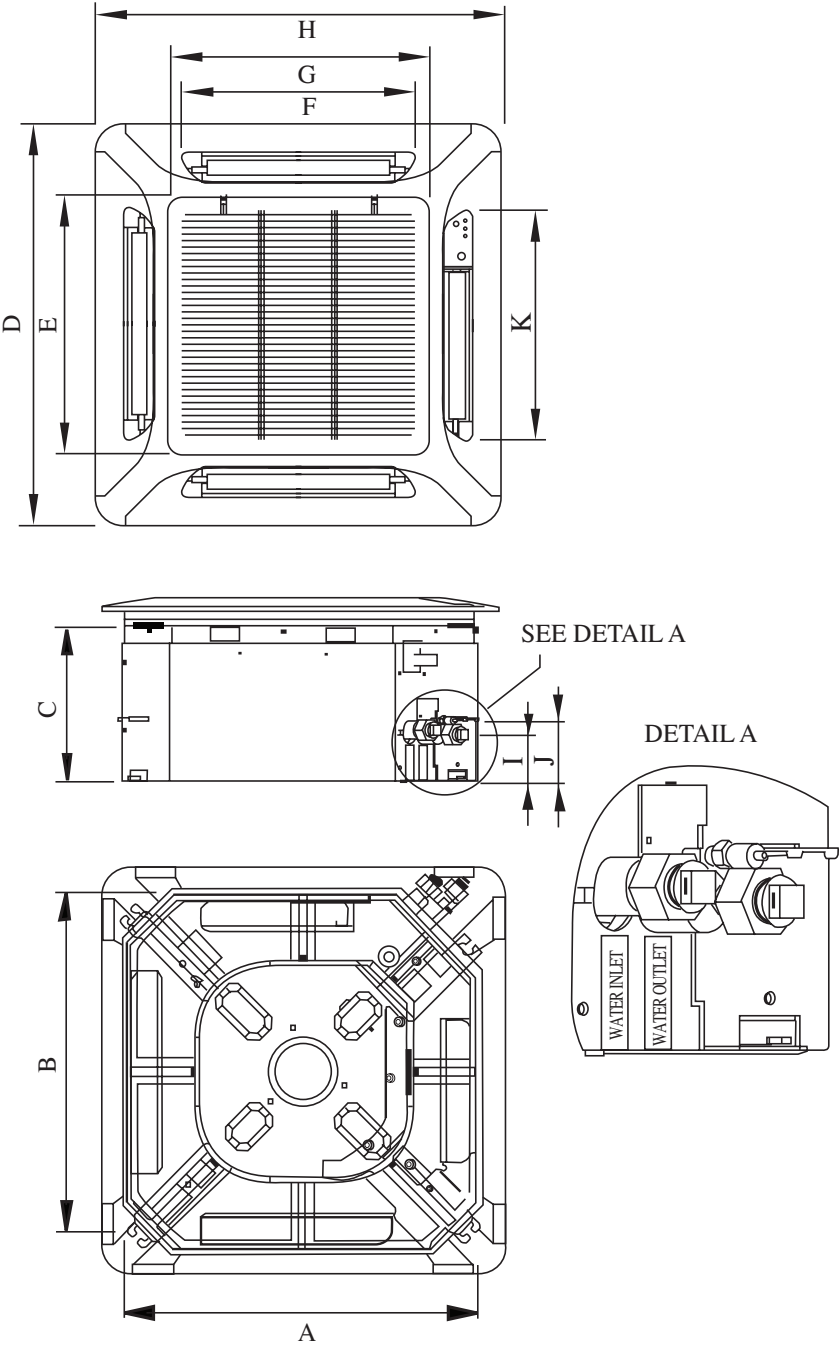


INSTALLATION PLATE FWW05/06L

Dimension Model	A	B	C	D	E	F	G	H	I	J	K	L	M
20/25	1065	310	224	190	173	61	40	45	48	91	219	580	45

Note: Dimension in mm

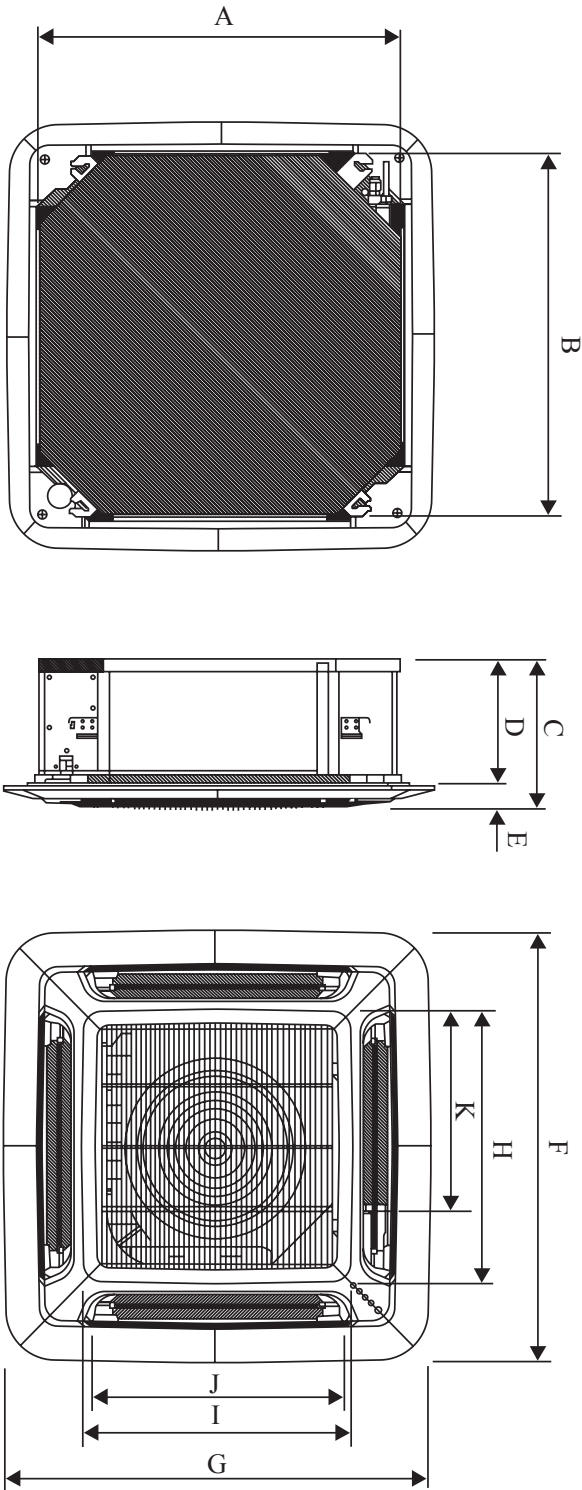
Model: ACK10/15/20CW



Dimension Model	A	B	C	D	E	F	G	H	I	J	K
10/15/20	570	570	250	640	408	364	408	640	75	98	364

Note: Dimension in mm

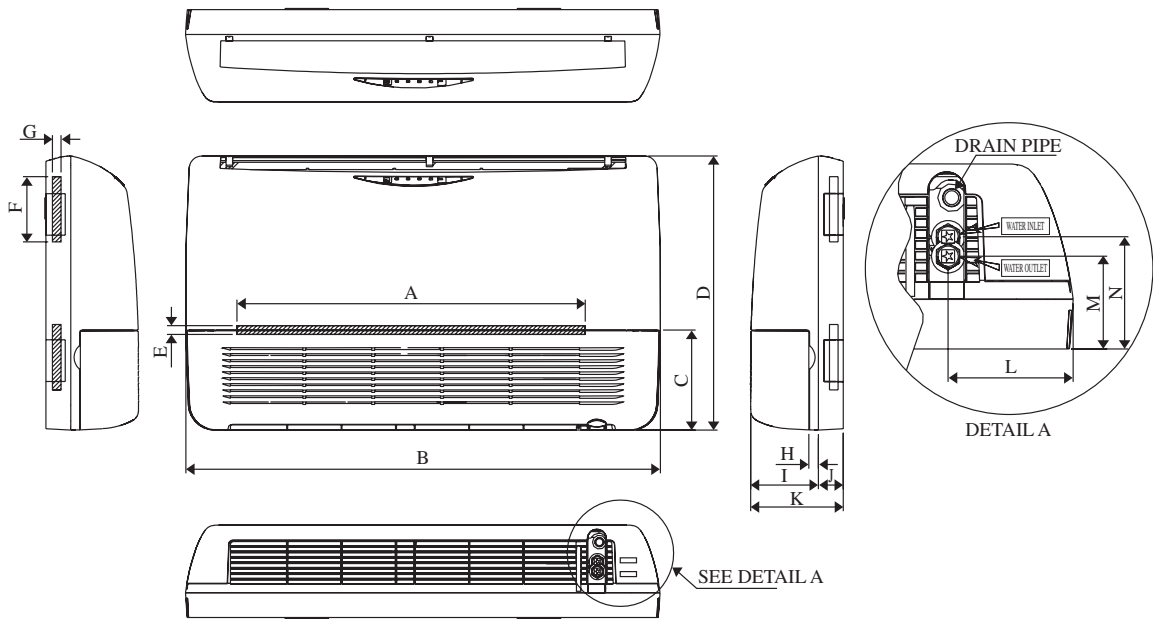
Model: ACK20/25/30/40/50EW



Dimension Model	A	B	C	D	E	F	G	H	I	J	K
20/25/30	820	820	340	300	40	990	990	627	627	607	430
40/50	820	820	375	335	40	990	990	627	627	607	430

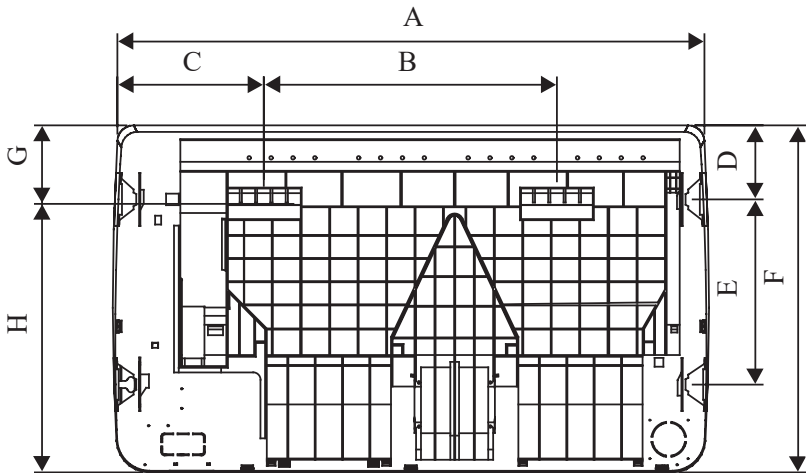
Note: Dimension in mm

Model: ACM15/20/25EW



Dimension Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
15/20/25	800	1090	230	630	20	150	20	21	156	57	213	144	107	129

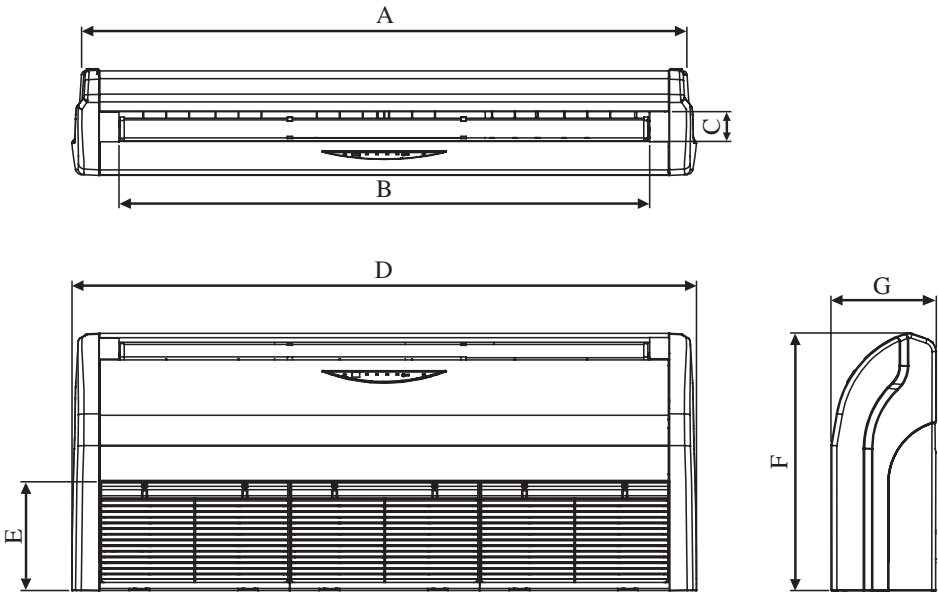
Mounting Bracket



Dimension \ Model	A	B	C	D	E	F	G	H
15/20/25	1073	534	268	135	336	630	145	485

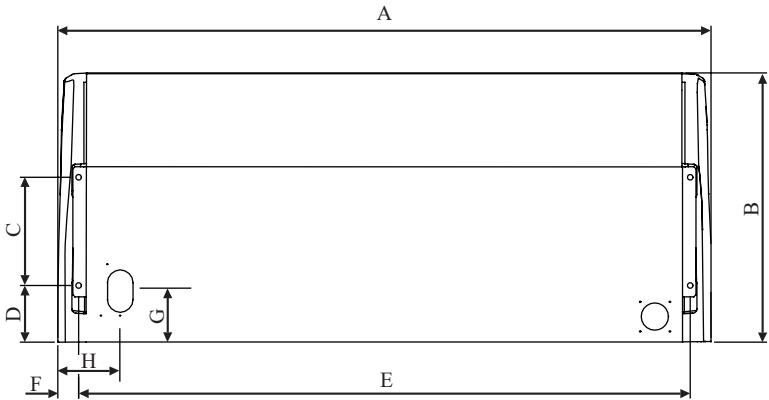
Note: Dimension in mm

Model: ACM30/40/50EW



Dimension Model	A	B	C	D	E	F	G
30	1272	1088	74	1320	268	635	259
40	1490	1308	74	1538	268	635	259
50	1738	1556	74	1786	268	635	259

Mounting Bracket

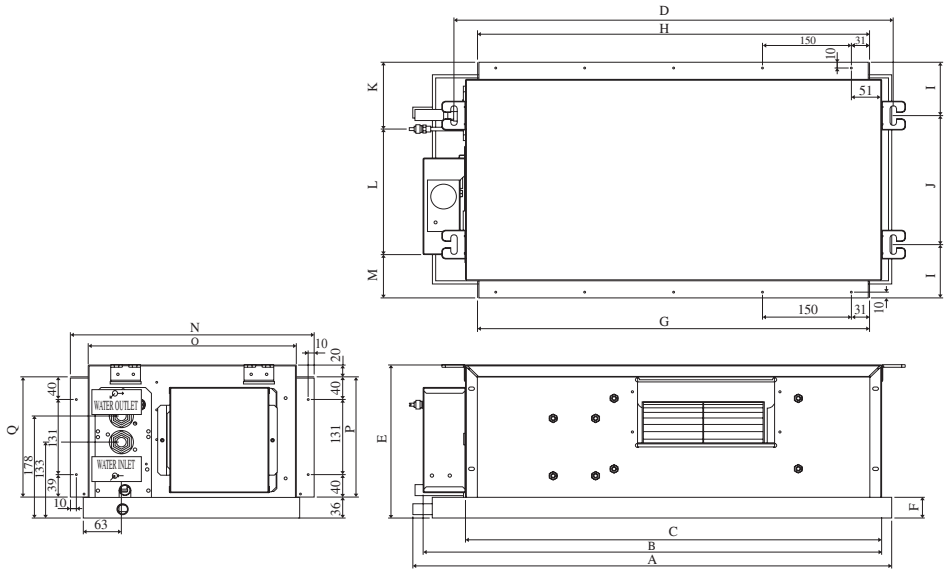


Dimension Model	A	B	C	D	E	F	G	H
30	1320	635	255	134	1222	49	148	120
40	1538	635	255	134	1440	49	148	120
50	1786	635	255	134	1688	49	148	120

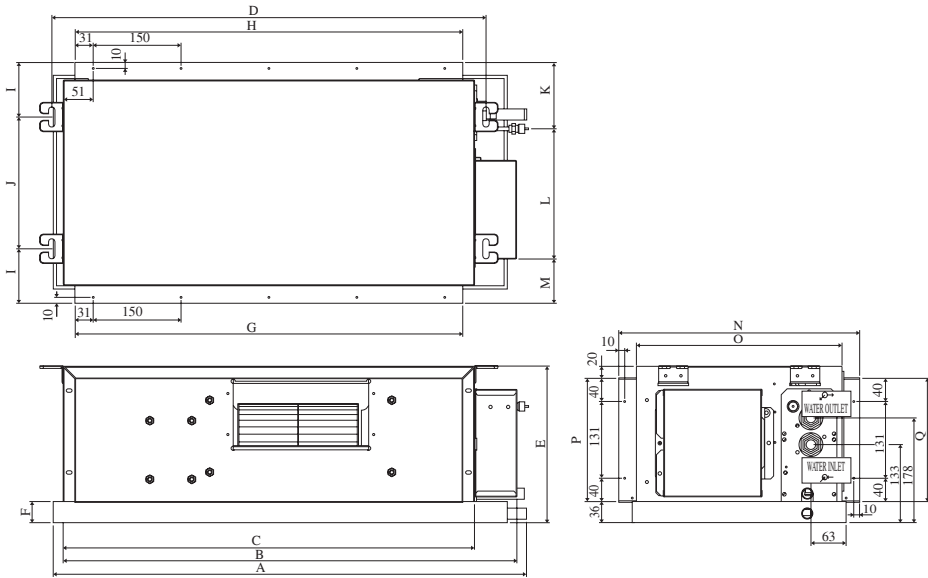
Note: Dimension in mm

Model: ACC10CW

LEFT PIPING



RIGHT PIPING

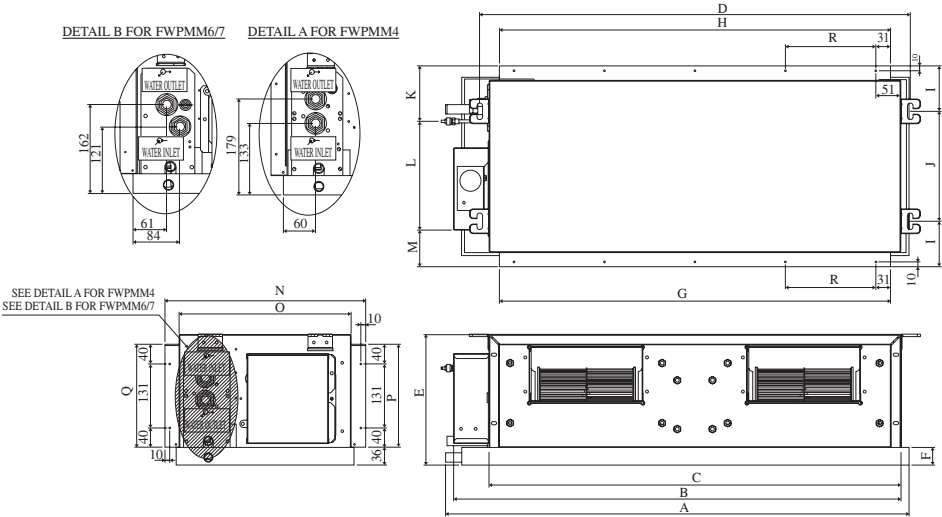


Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Model 10	808	774	702	741	267	36	662	662	93	225	115	218	76	411	351	211	211

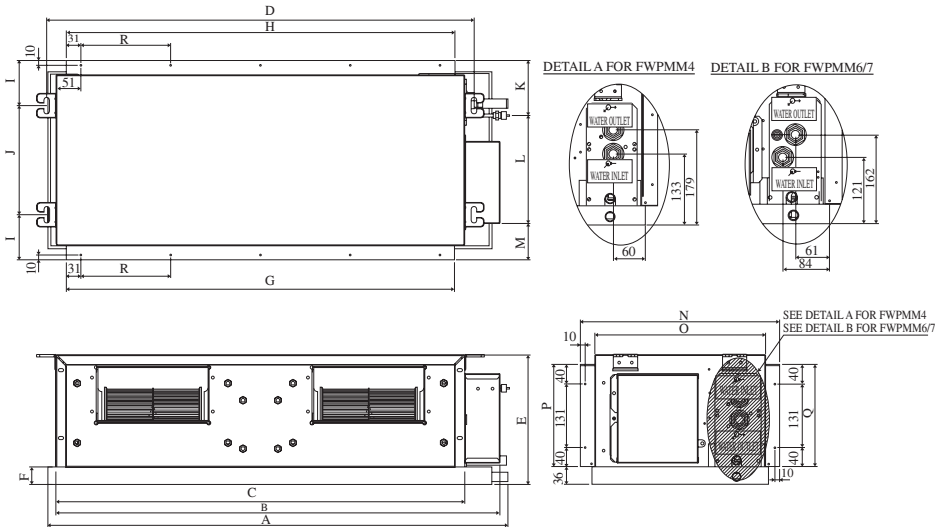
Note: Dimension in mm

Model: ACC15/20/25CW

LEFT PIPING



RIGHT PIPING

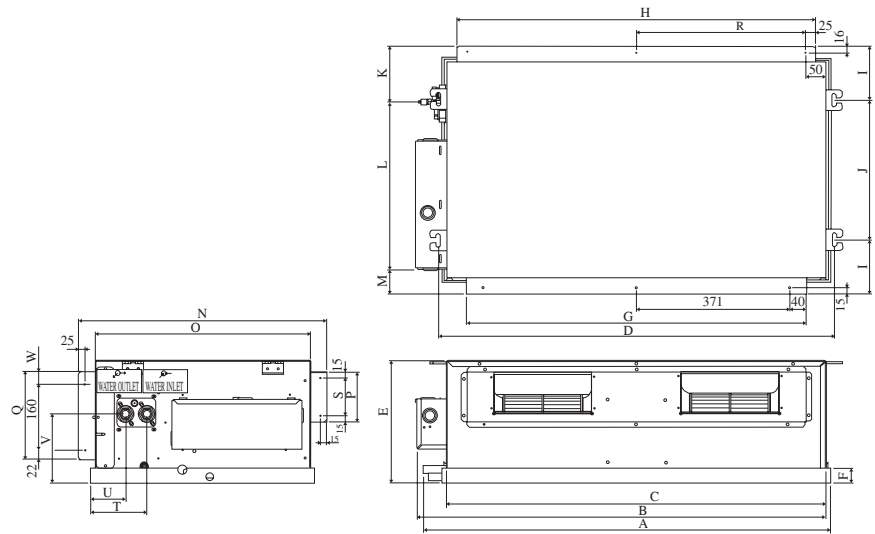


Dimension Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
15	939	914	842	881	267	36	802	802	93	225	114	222	76	412	351	211	211	185
20	1108	1075	1002	1041	267	36	962	962	93	225	64	272	76	412	351	211	211	179
25	1243	1209	1137	1176	267	36	1097	1097	93	225	64	272	76	412	351	211	211	206

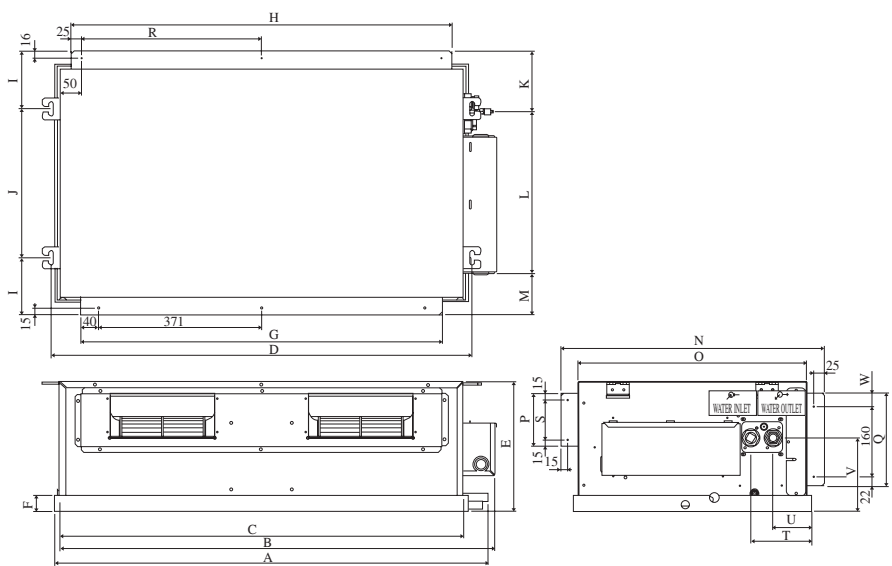
Note: Dimension in mm

Model: ACC30CW

LEFT PIPING



RIGHT PIPING



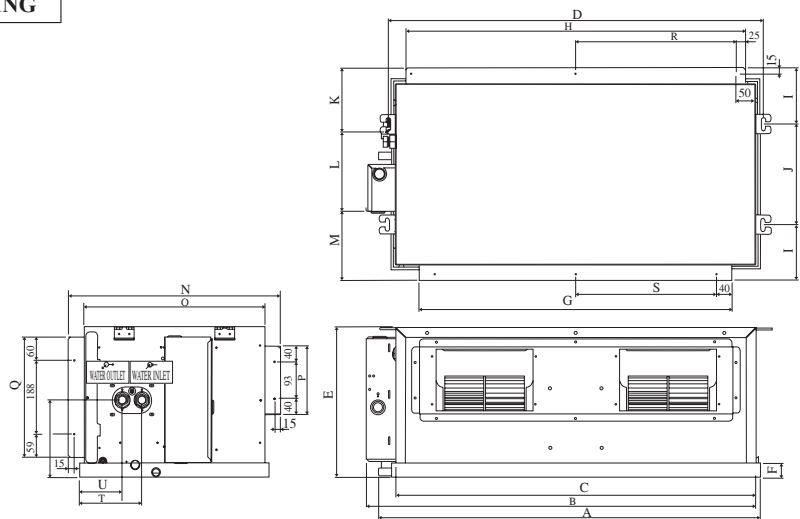
Dimension	A	B	C	D	E	F	G	H	I	J	K	L
Model 30	1292	1297	1225	1264	316	36	824	1174	119	401	147	394

Dimension	M	N	O	P	Q	R	S	T	U	V	W
Model 30	97	638	559	186	233	563	156	148	97	149	51

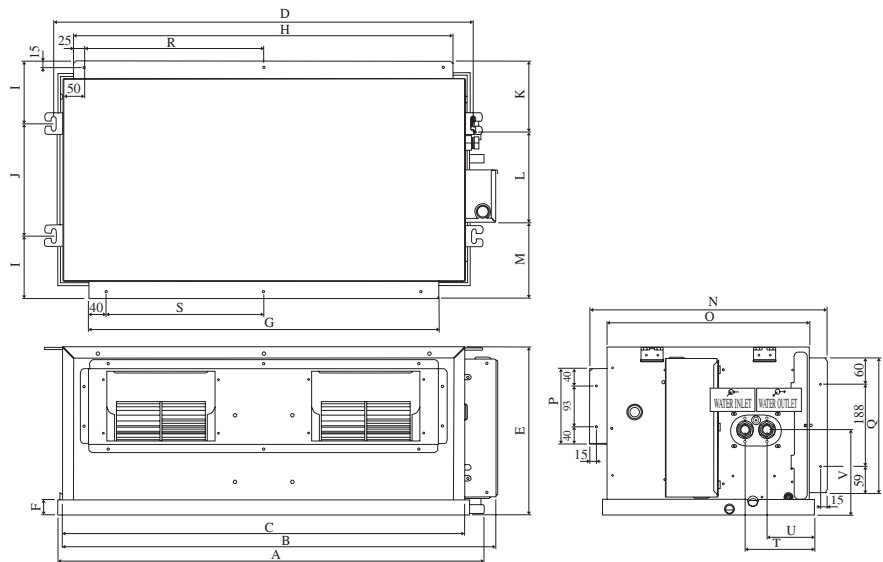
Note: Dimension in mm

Model: ACC38/40/50/60CW

LEFT PIPING



RIGHT PIPING



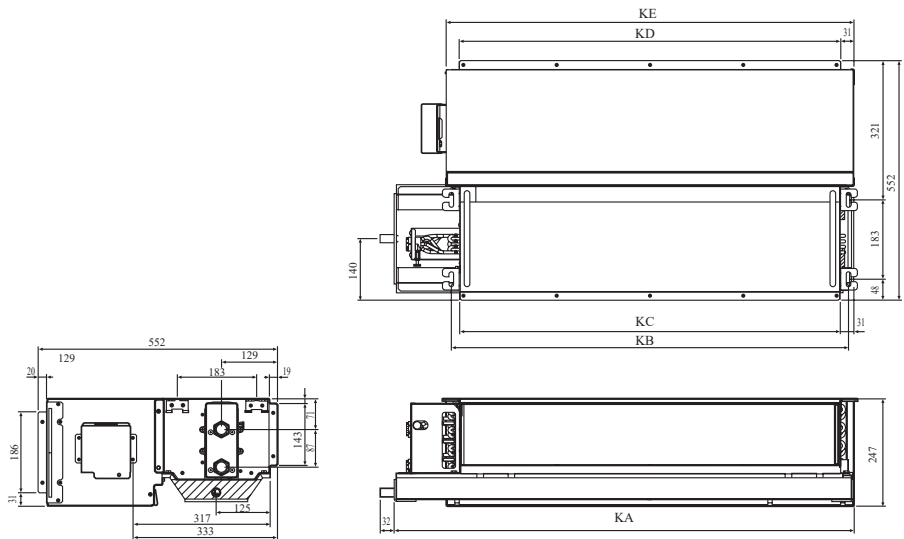
Model	Dimension										
	A	B	C	D	E	F	G	H	I	J	K
38	972	988	917	956	384	36	798	866	143	256	162
40	1088	1105	1033	1072	384	36	798	982	143	256	162
50	1342	1358	1287	1326	384	36	798	1236	143	256	159
60	1542	1558	1487	1526	384	36	798	1436	143	256	159

Model	Dimension									
	M	N	O	P	Q	R	S	T	U	V
38	173	541	462	173	307	409	359	159	109	196
40	173	541	462	173	307	467	359	159	109	196
50	173	541	462	173	307	594	359	156	106	196
60	183	541	462	173	307	694	359	154	104	196

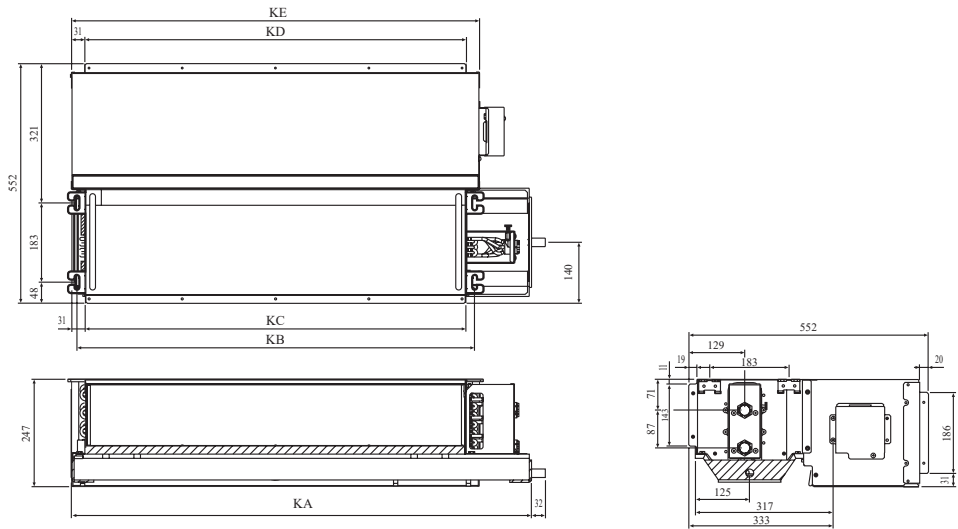
Note: Dimension in mm

Model: ACC06/09/12/15/18/24/30FWD

LEFT PIPING



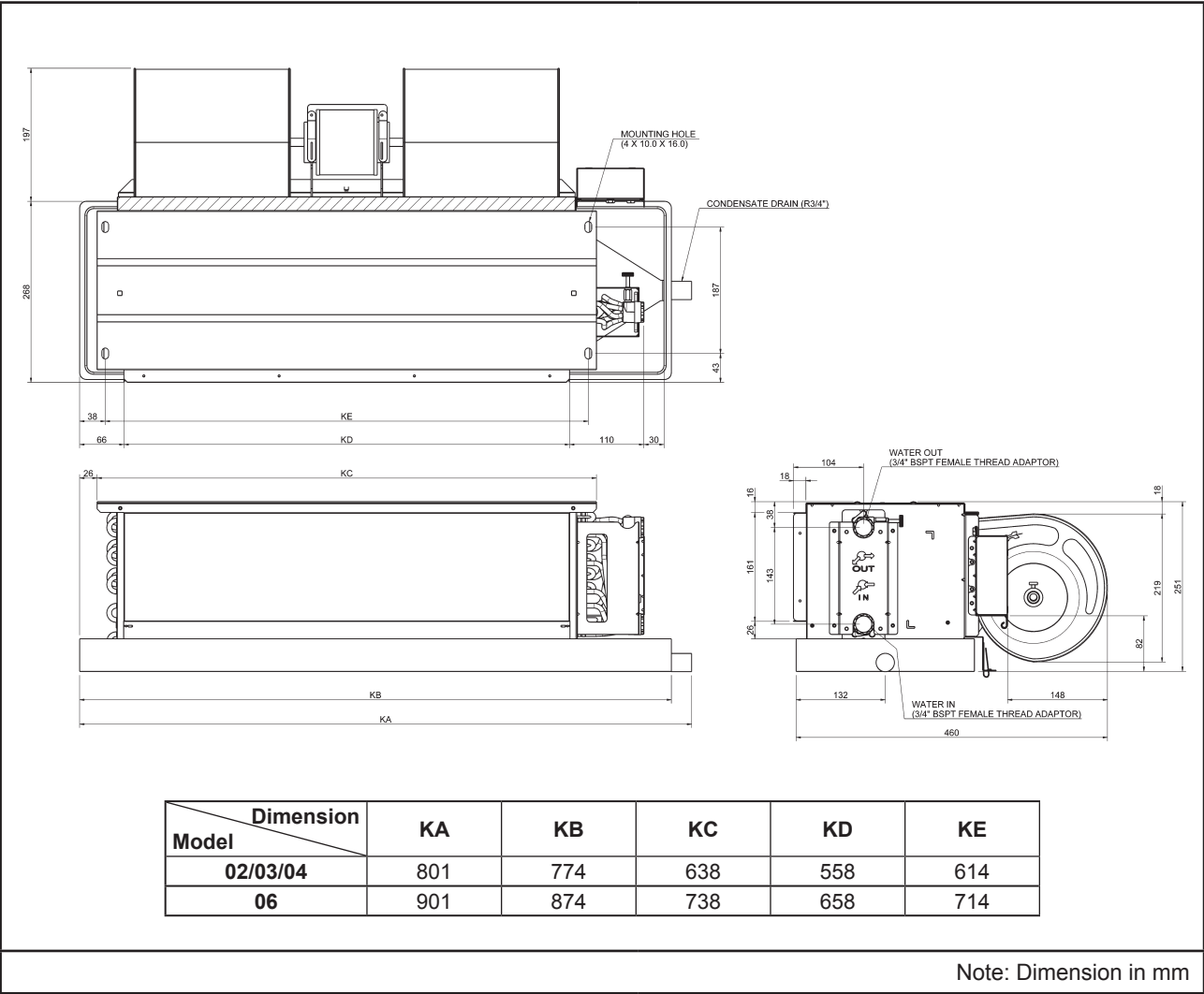
RIGHT PIPING



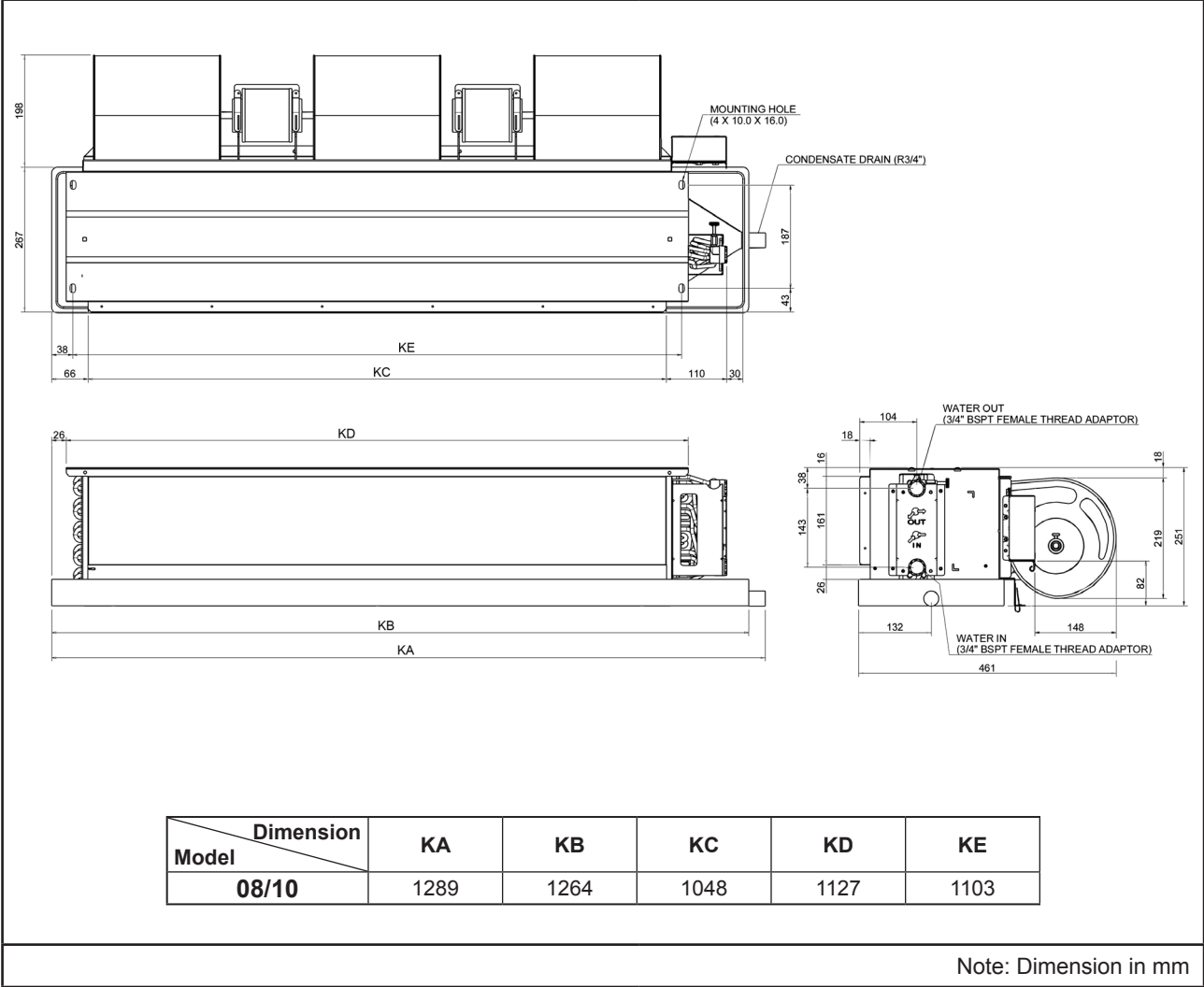
Model \ Dimension	KA	KB	KC	KD	KE
06/09	619	477	437	440	501
12/15	870	726	687	690	751
18	1060	916	877	880	941
24	1390	1246	1207	1210	1271
30	1600	1456	1417	1420	1481

Note: Dimension in mm

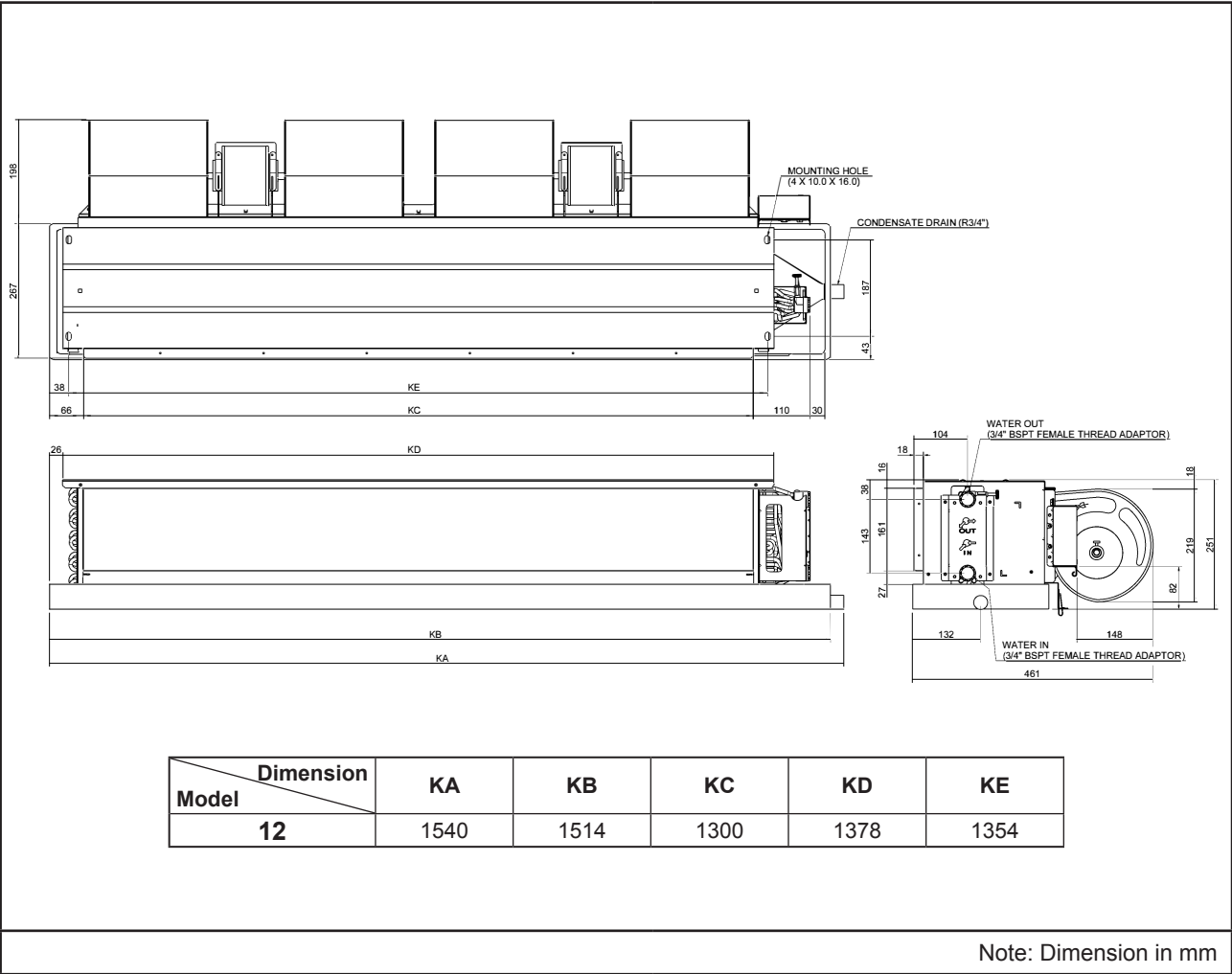
Model: ACC02/03/04/06GW (MSP , LSP)



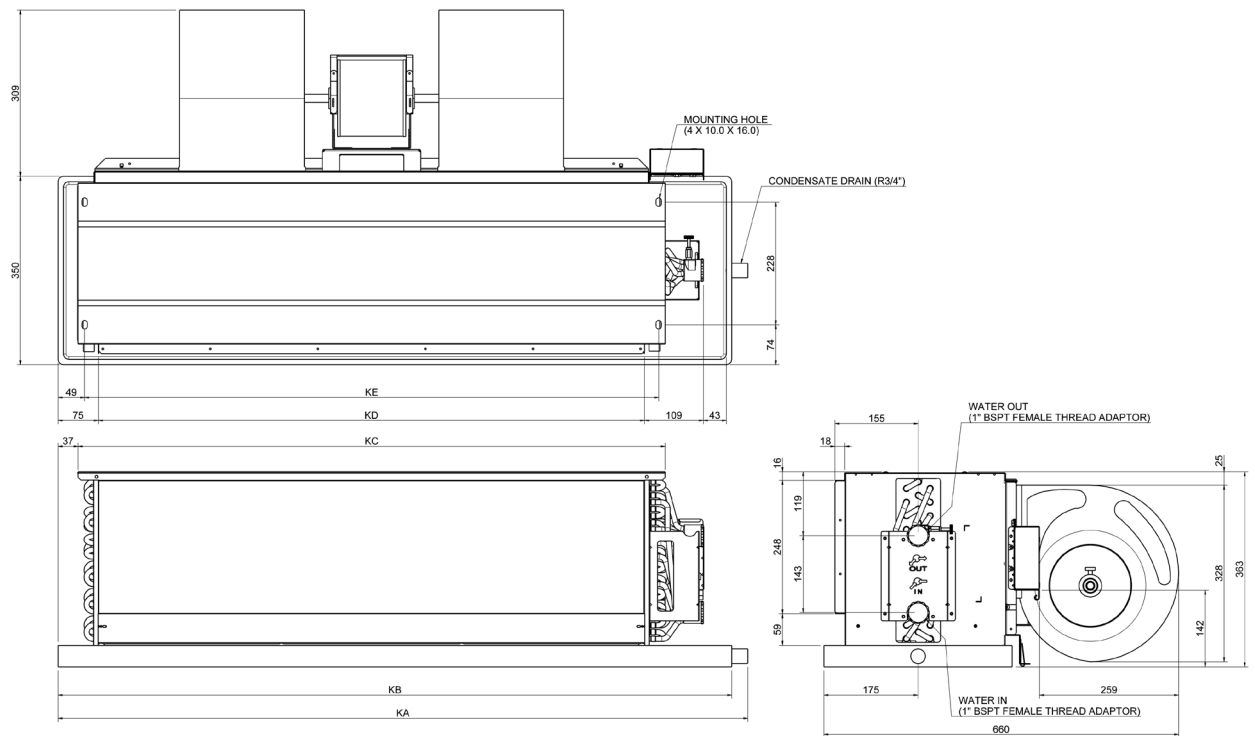
Model: ACC08/10GW (MSP , LSP)



Model: ACC12GW



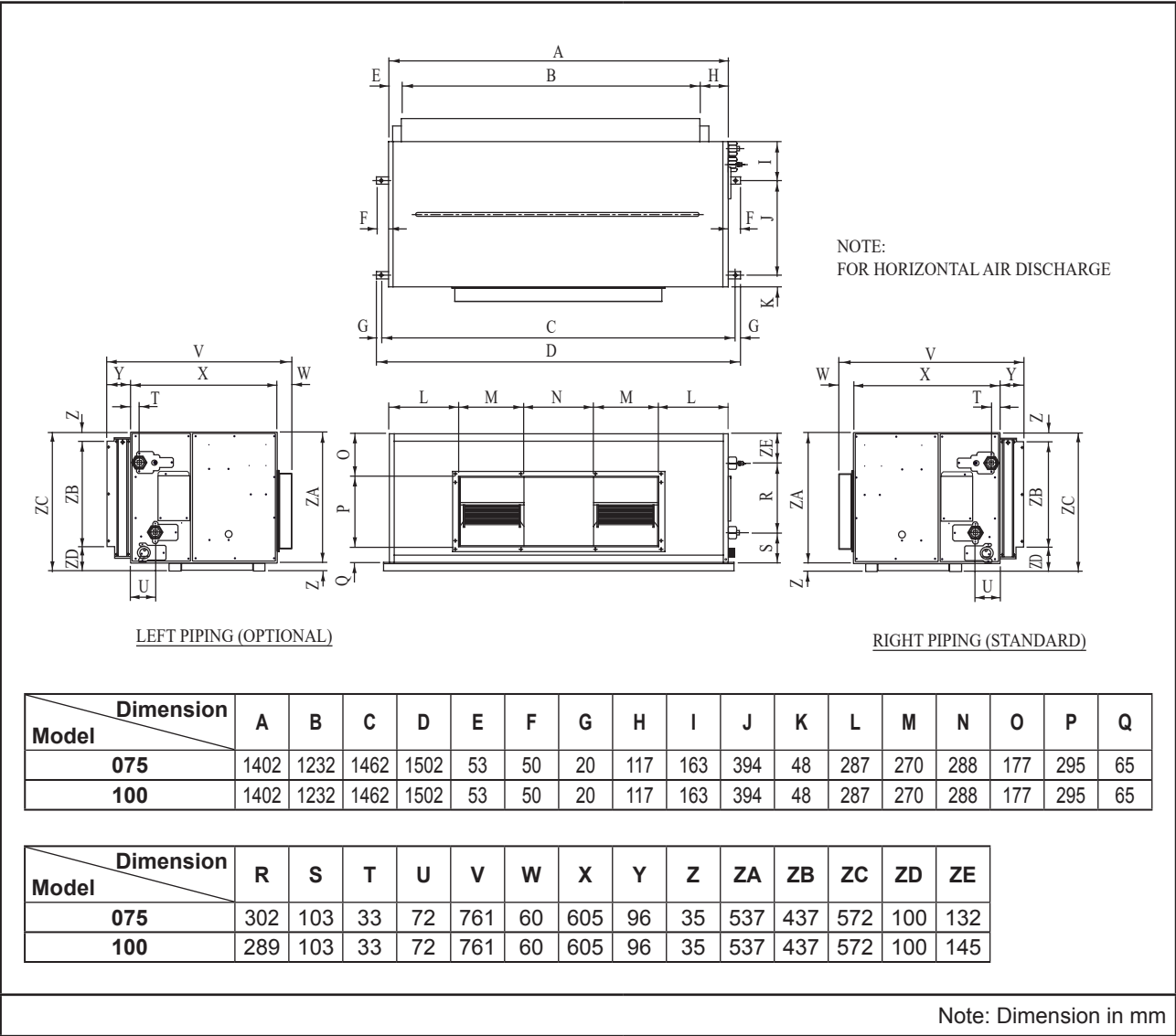
Model: ACC14/16/18/20GW



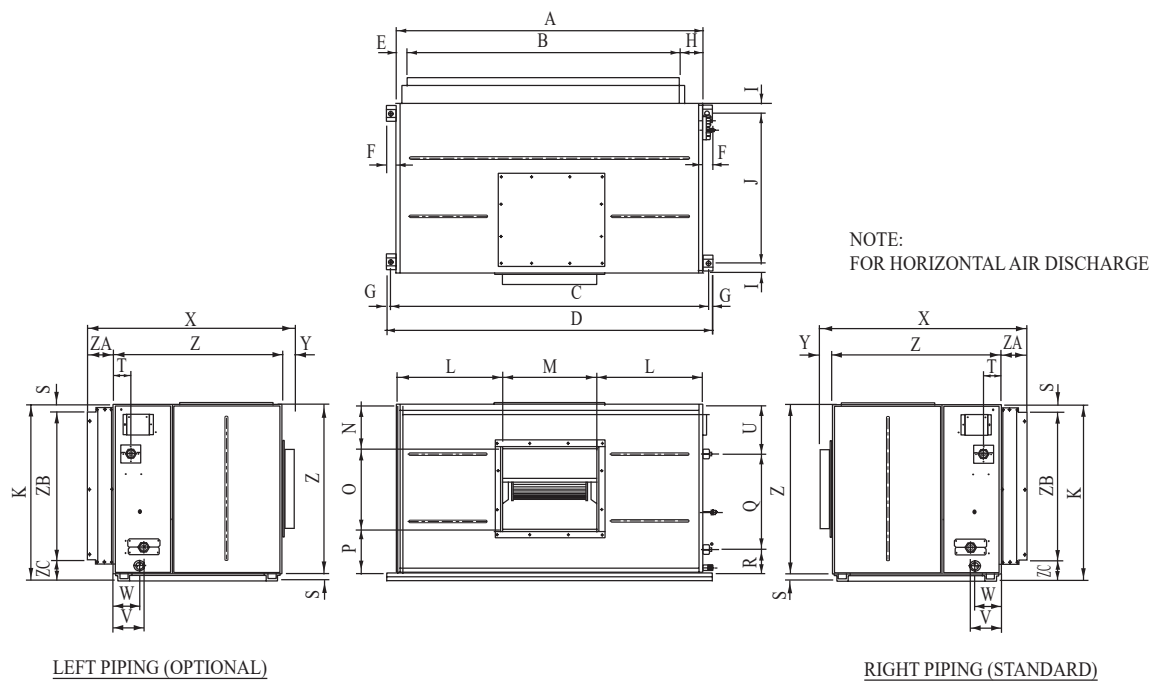
Model \ Dimension	KA	KB	KC	KD	KE
14	1142	1116	953	877	929
16/18	1280	1254	1091	1015	1067
20	1420	1394	1231	1155	1207

Note: Dimension in mm

Model: ADB075/10BW



Model: ADB125/150BW (Horizontal Air Discharge)

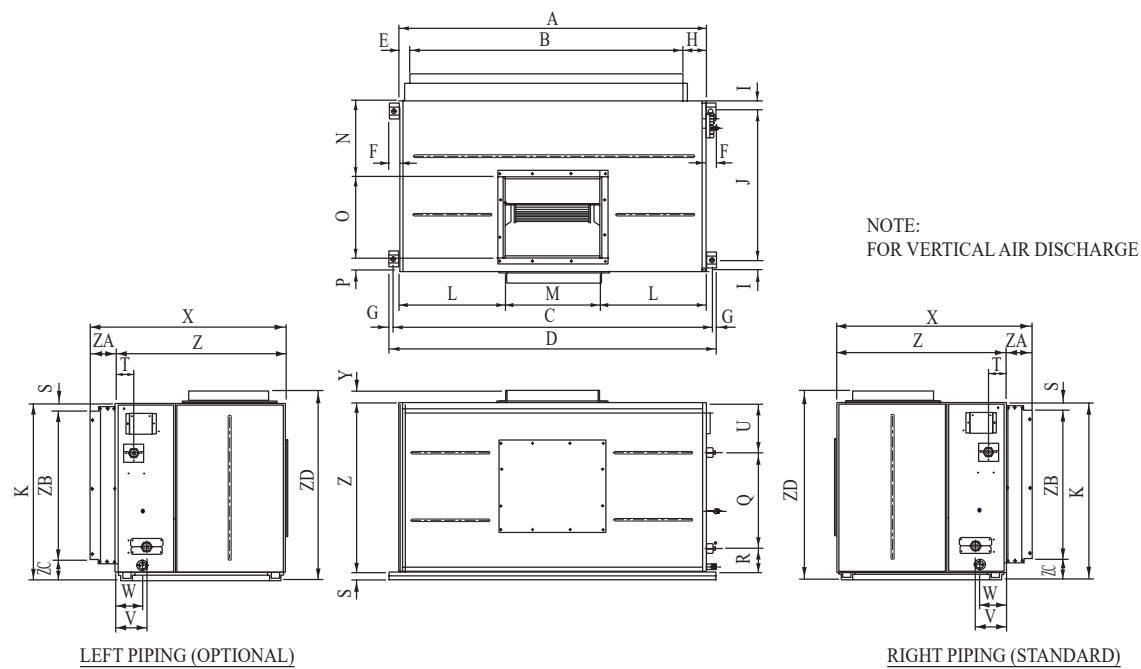


Dimension Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
125	1540	1370	1600	1640	53	50	20	117	48	754	885	533	474	220	408	222	468
150	1540	1370	1600	1640	53	50	20	117	48	754	885	533	474	220	408	222	468

Dimension Model	R	S	T	U	V	W	X	Y	Z	ZA	ZB	ZC
125	120	35	88	262	155	132	1040	60	850	130	747	103
150	120	35	88	262	155	132	1040	60	850	130	747	103

Note: Dimension in mm

Model: ADB125/150BW (Vertical Air Discharge)



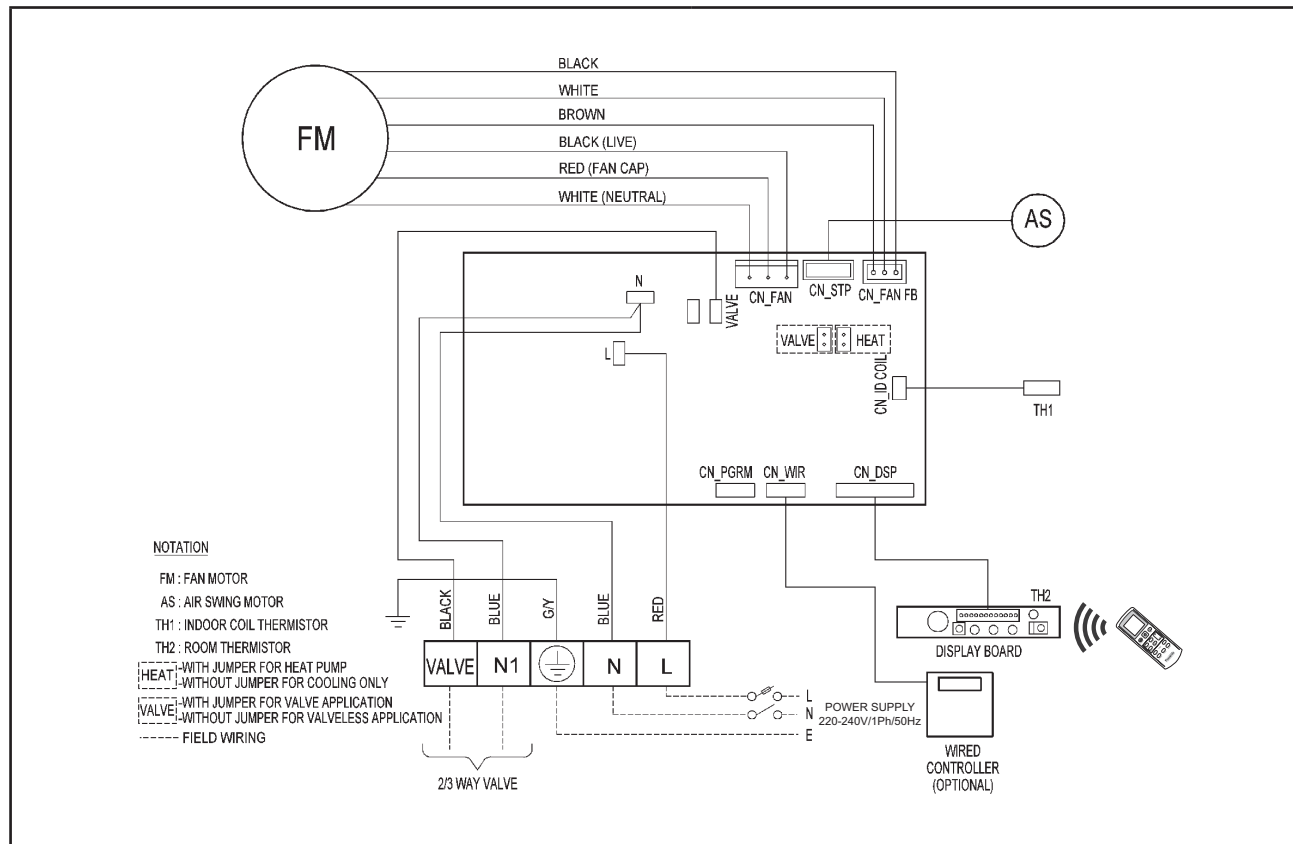
Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Model																	
125	1540	1370	1600	1640	53	50	20	117	48	754	885	533	474	382	408	60	468
150	1540	1370	1600	1640	53	50	20	117	48	754	885	533	474	382	408	60	468

Dimension	R	S	T	U	V	W	X	Y	Z	ZA	ZB	ZC	ZD
Model													
125	120	35	88	262	155	132	980	60	850	130	747	103	945
150	120	35	88	262	155	132	980	60	850	130	747	103	945

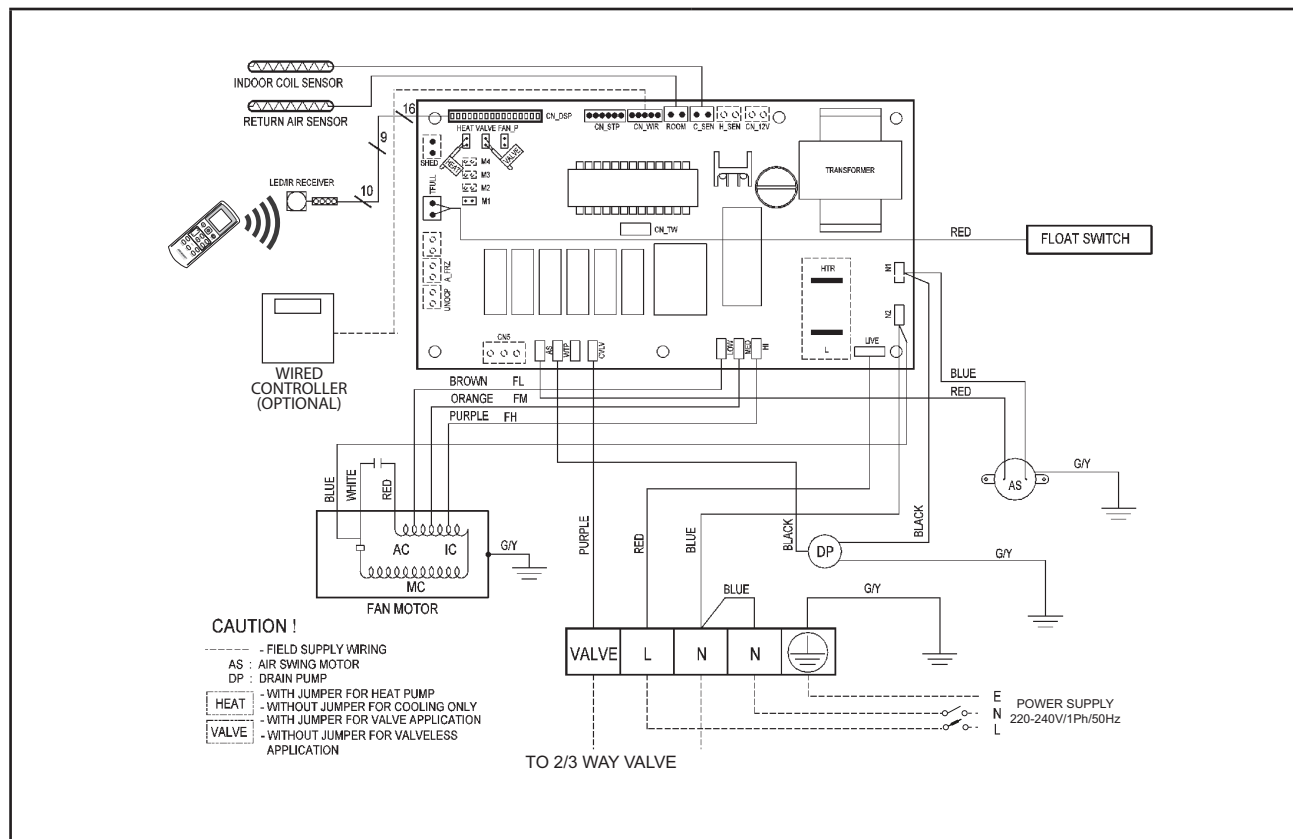
Note: Dimension in mm

Wiring Diagrams

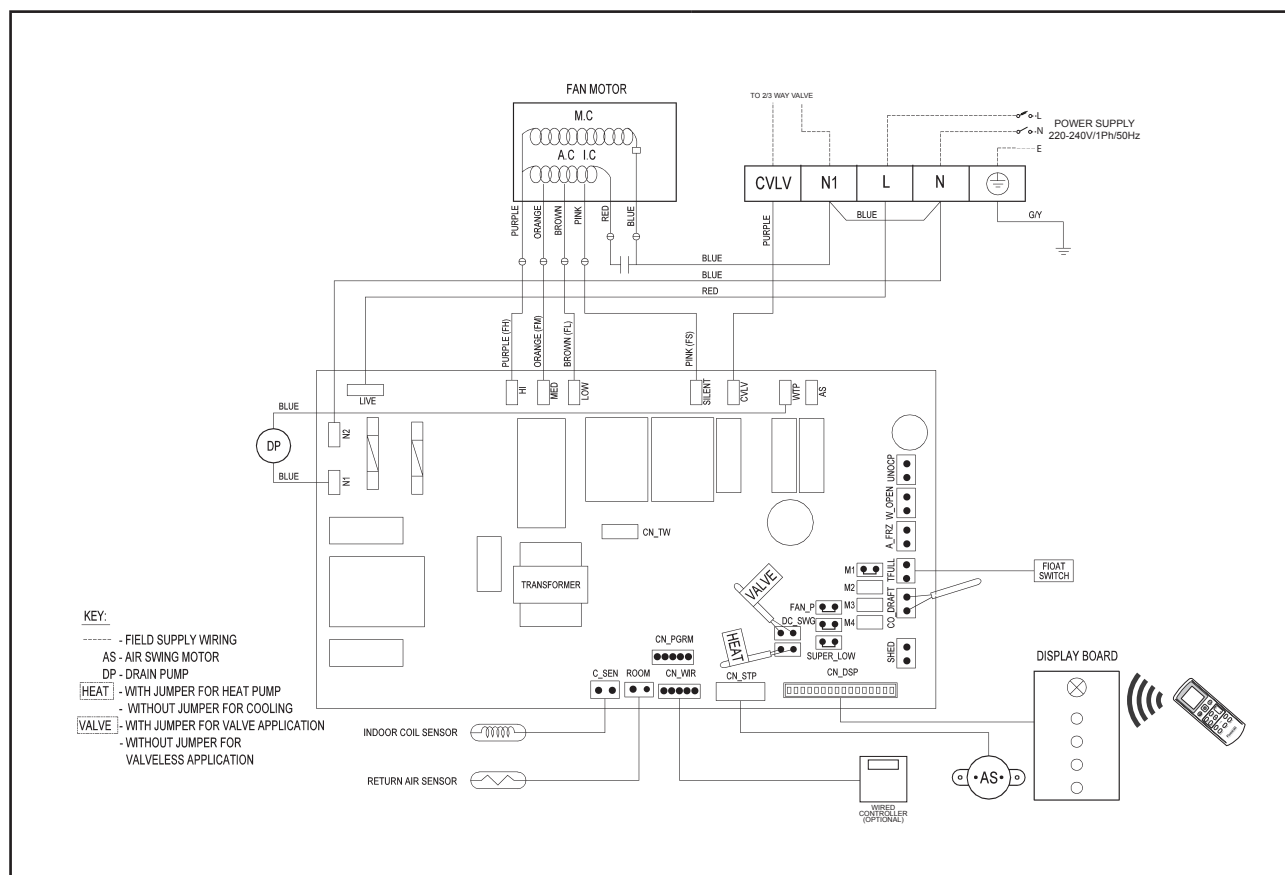
Model: AWM07/10/15/20/25JW



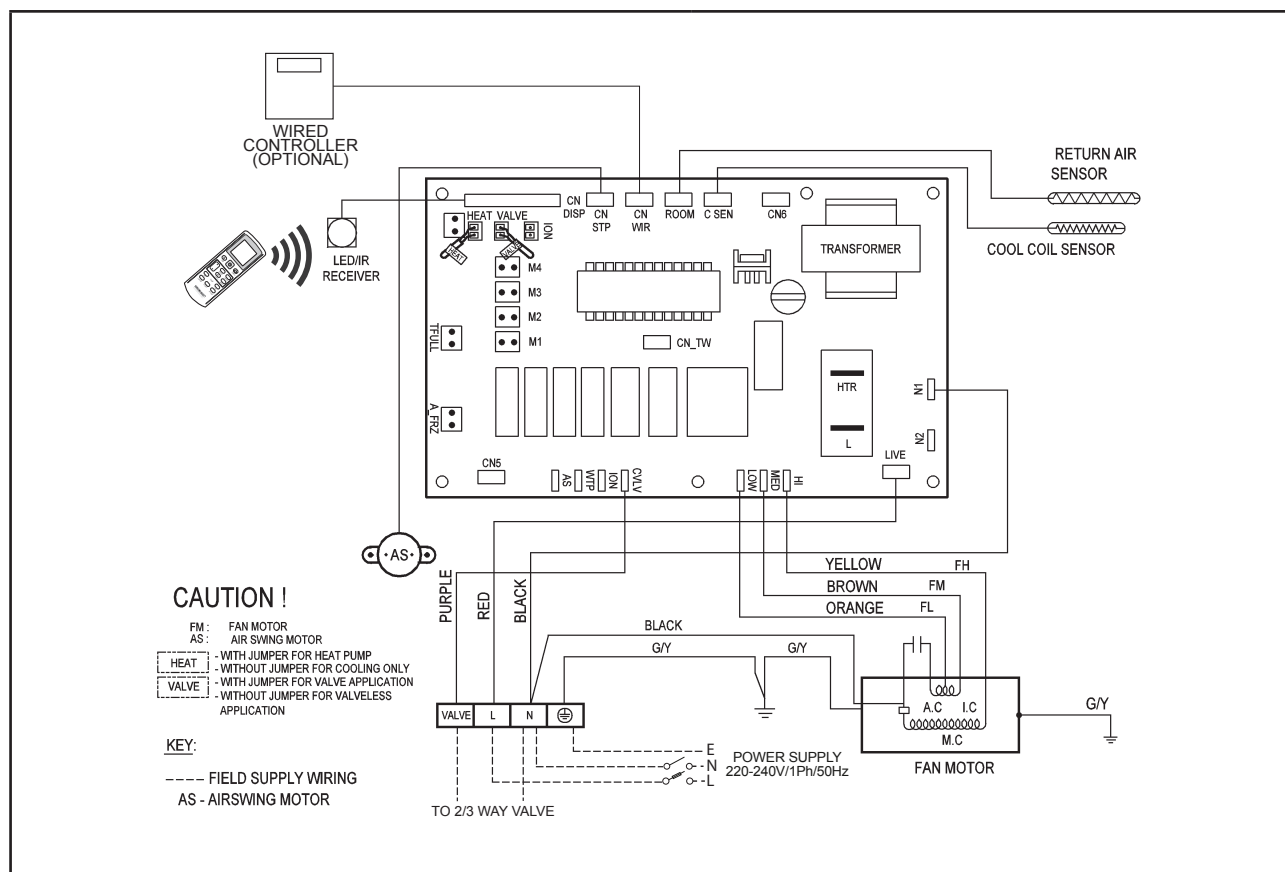
Model: ACK10/15/20CW



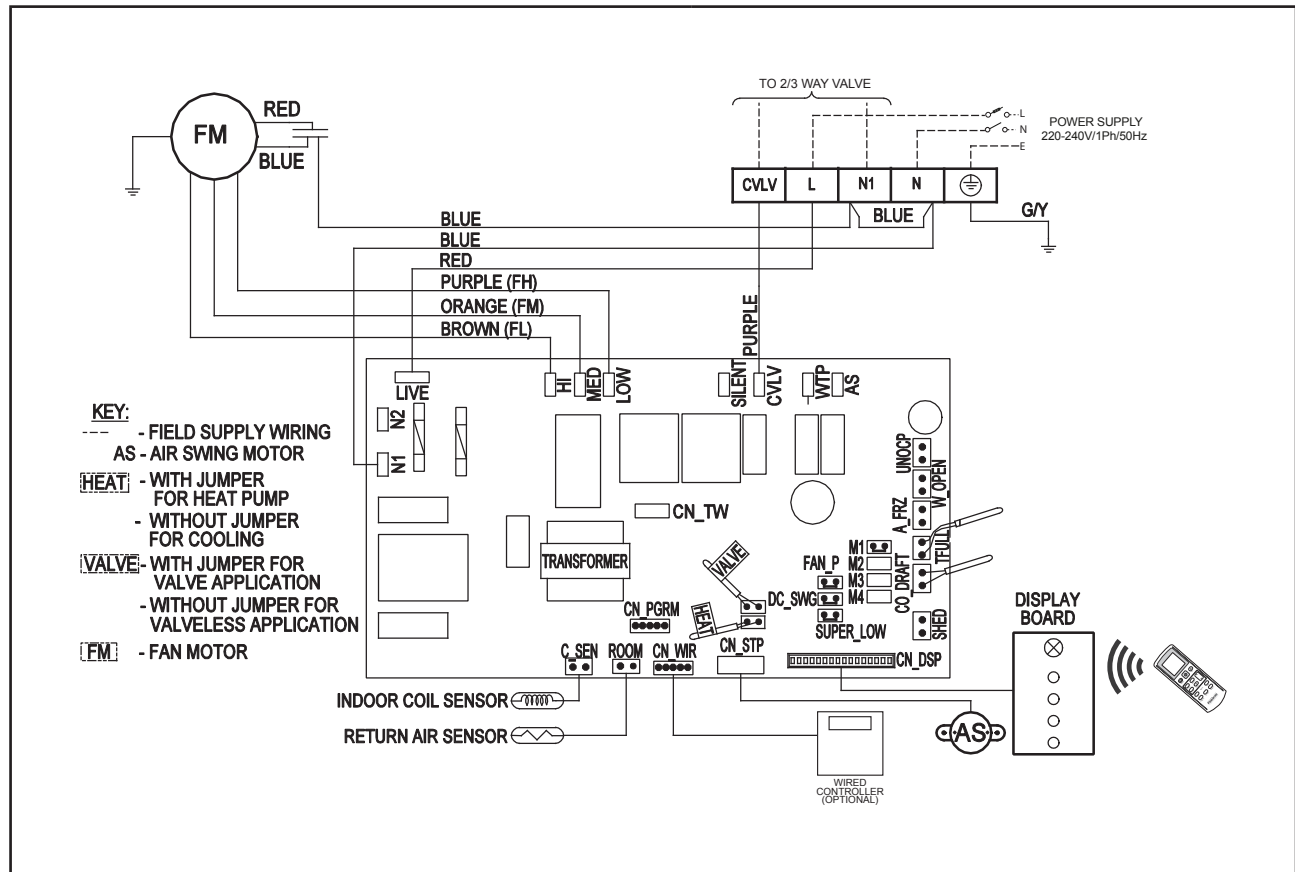
Model: ACK20/25/30/40/50EW



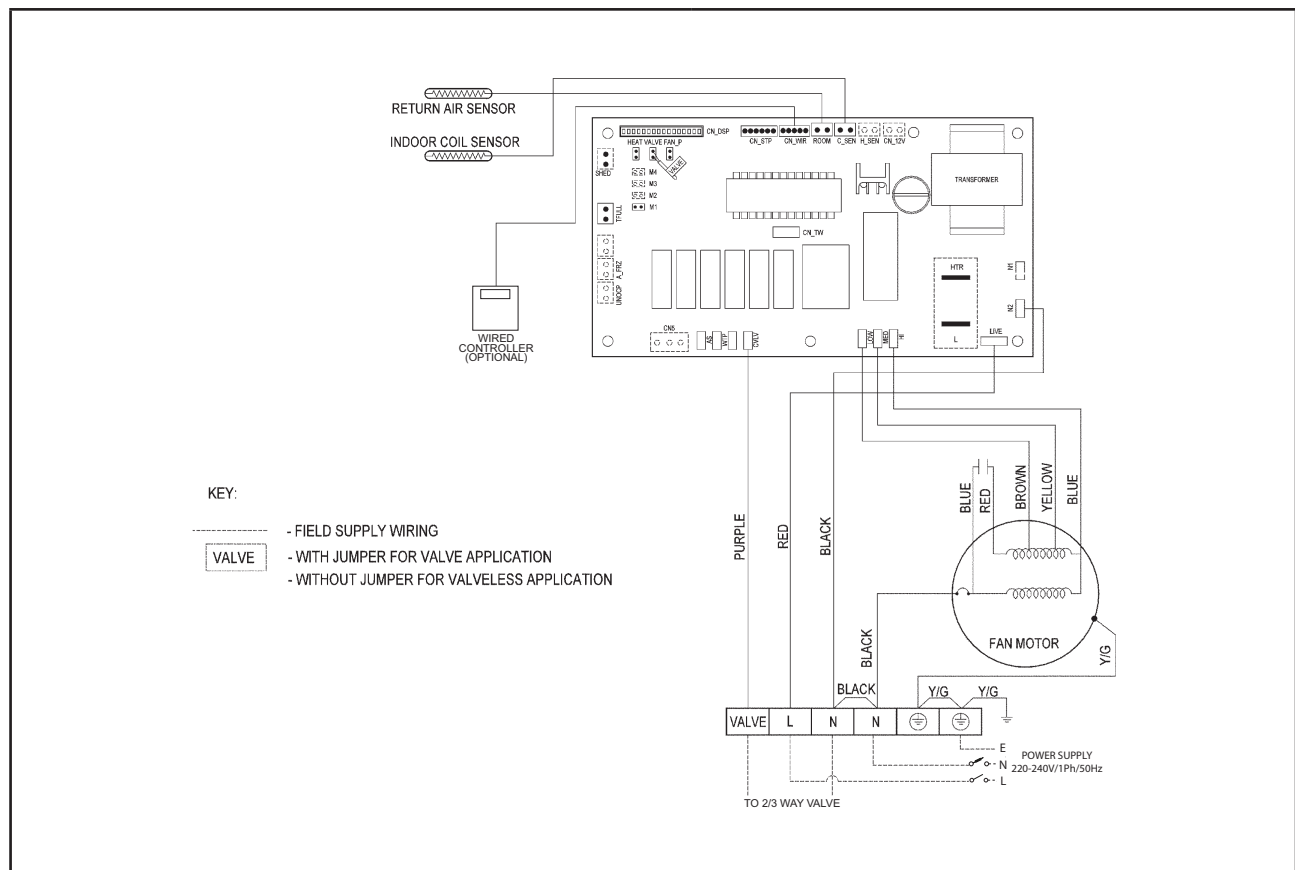
Model: ACM15/20/25EW



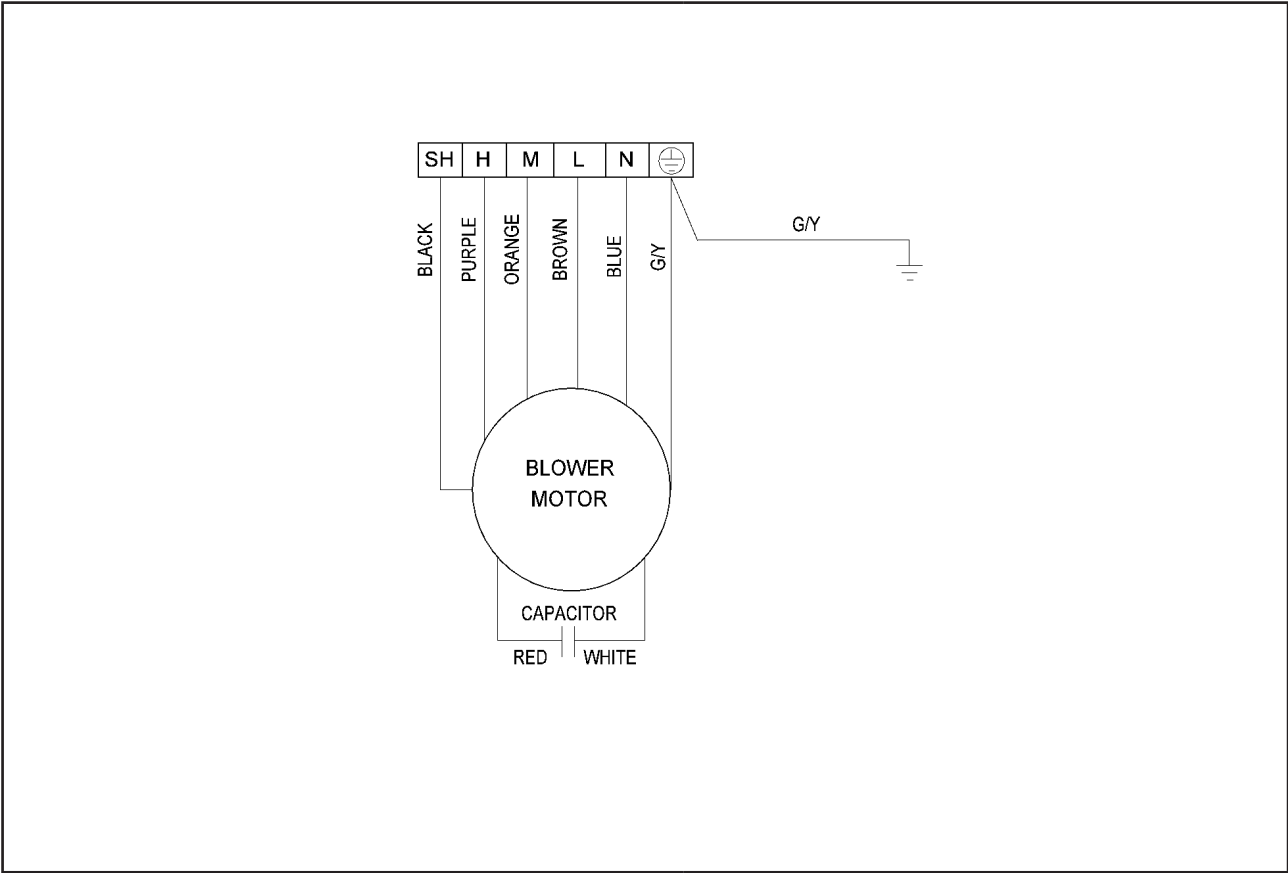
Model: ACM30/40/50EW



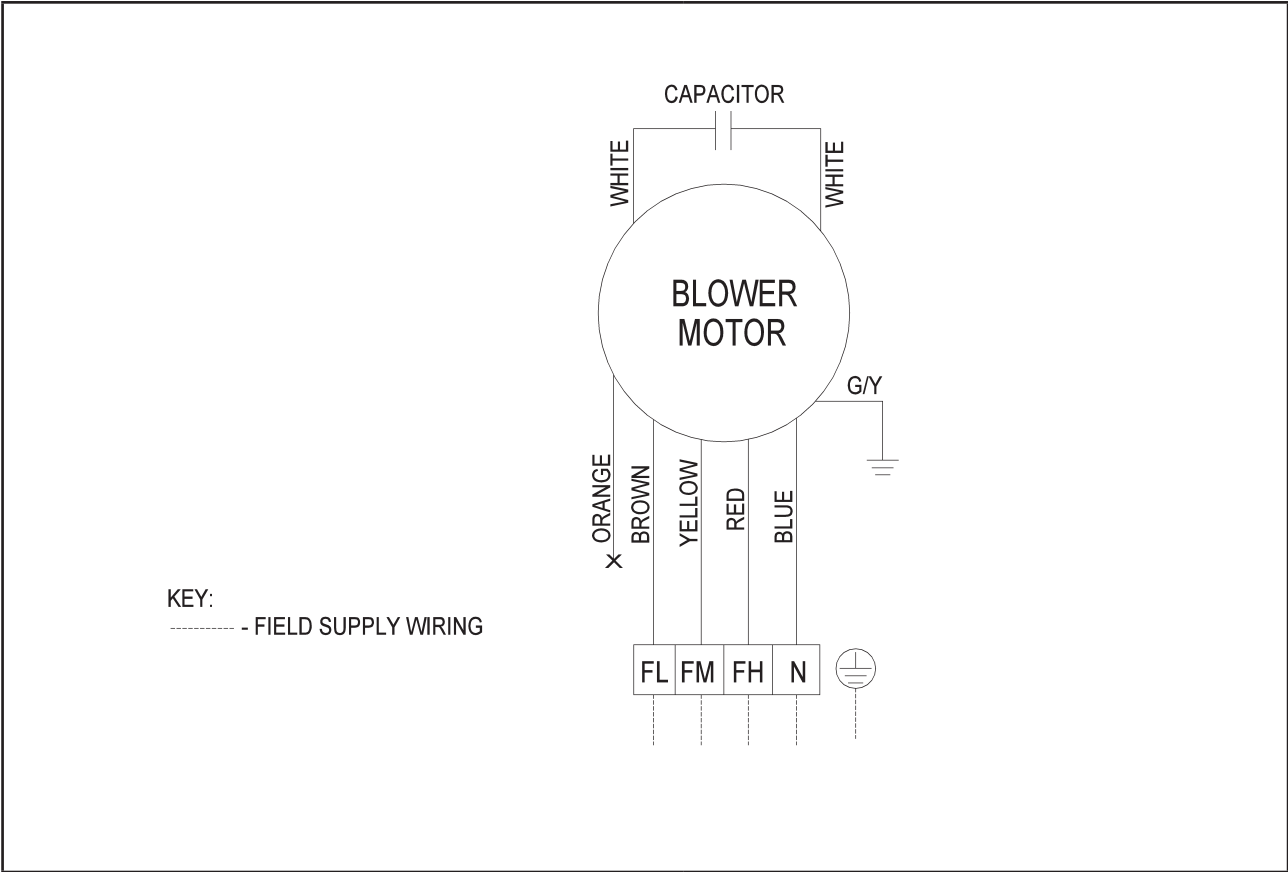
Model: ACC10/15/20/25CW (With Controller)



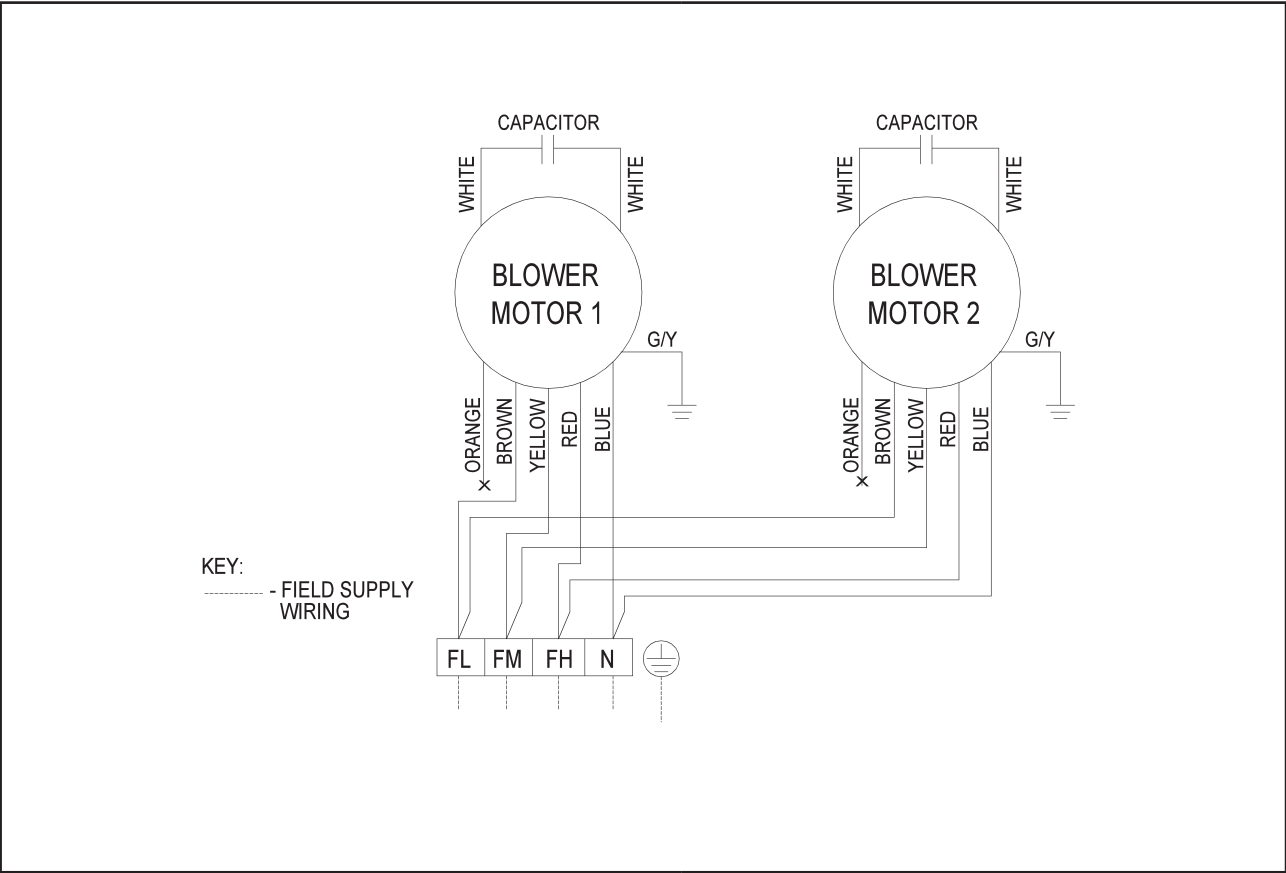
Model: ACC30/38/40/50/60CW (Without Controller)



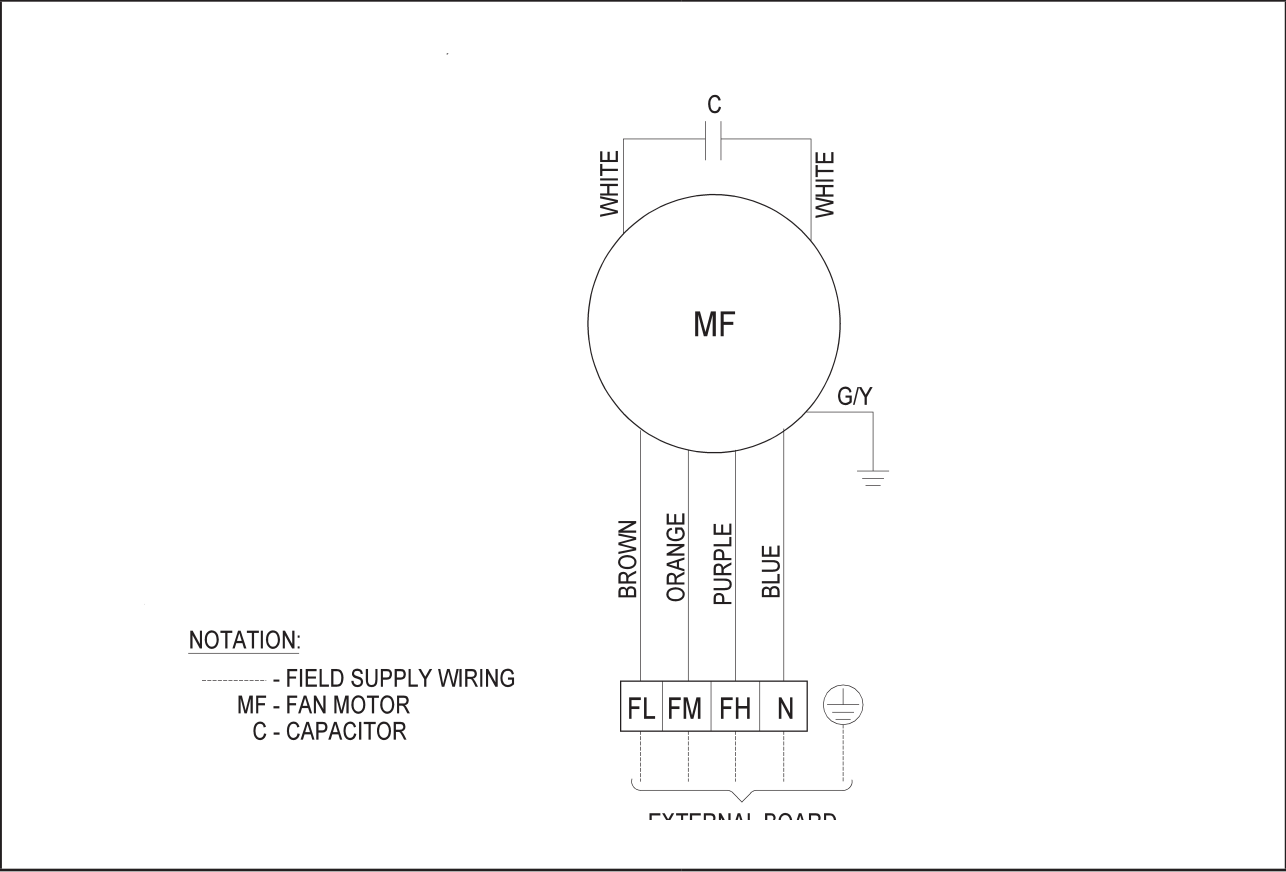
Model: ACC02/03/04/05/06FWD



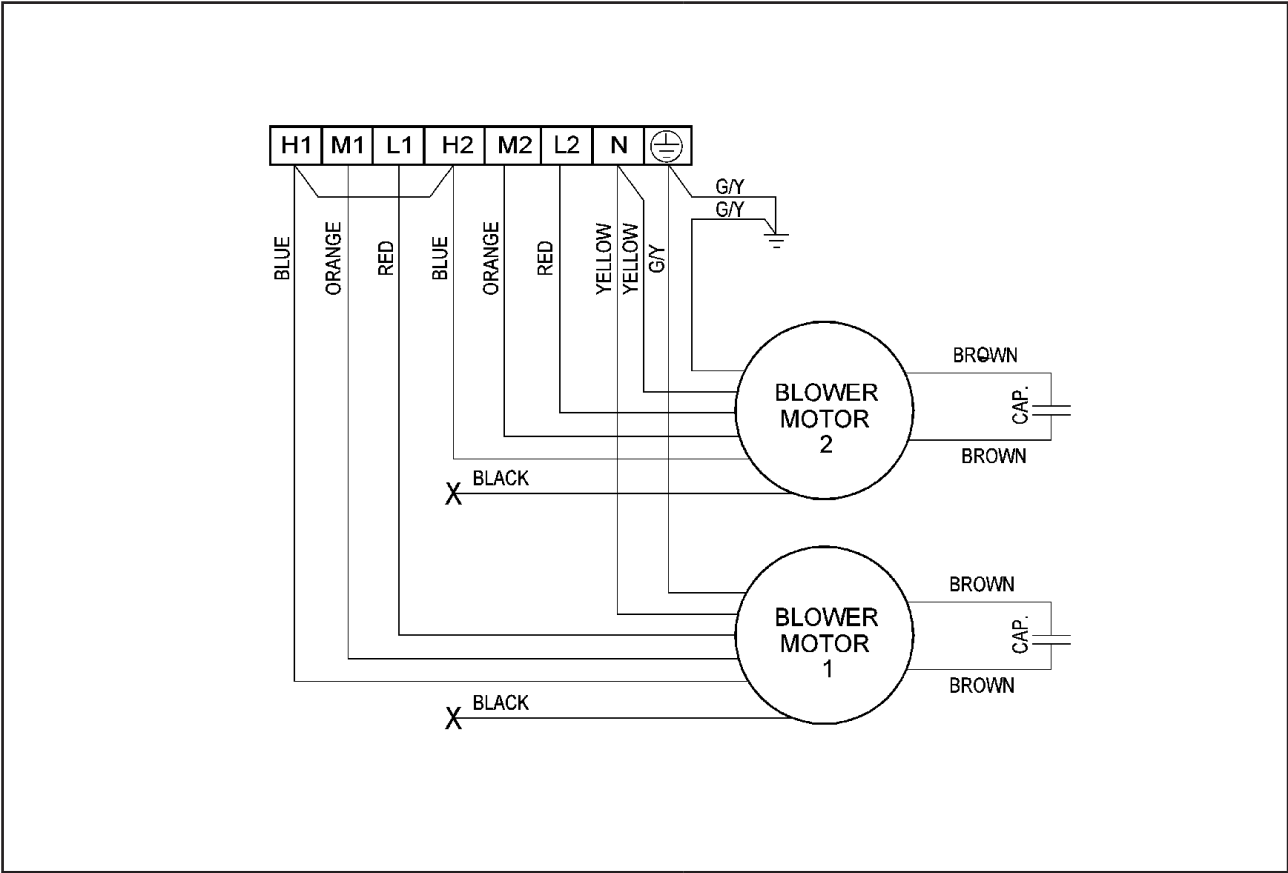
Model: ACC08/10FWD



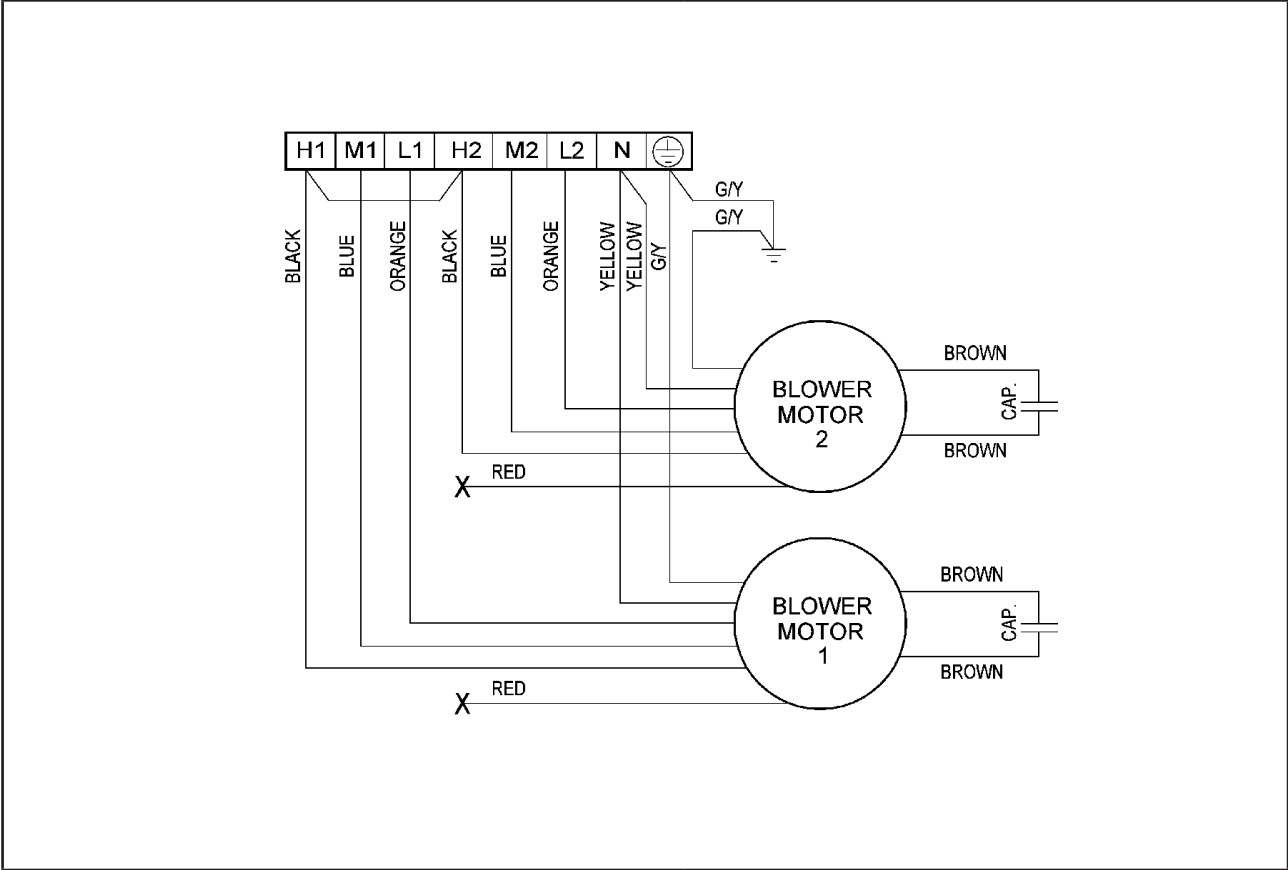
Model: ACC02/03/04/06/14/16/18/20GW (MSP , LSP)



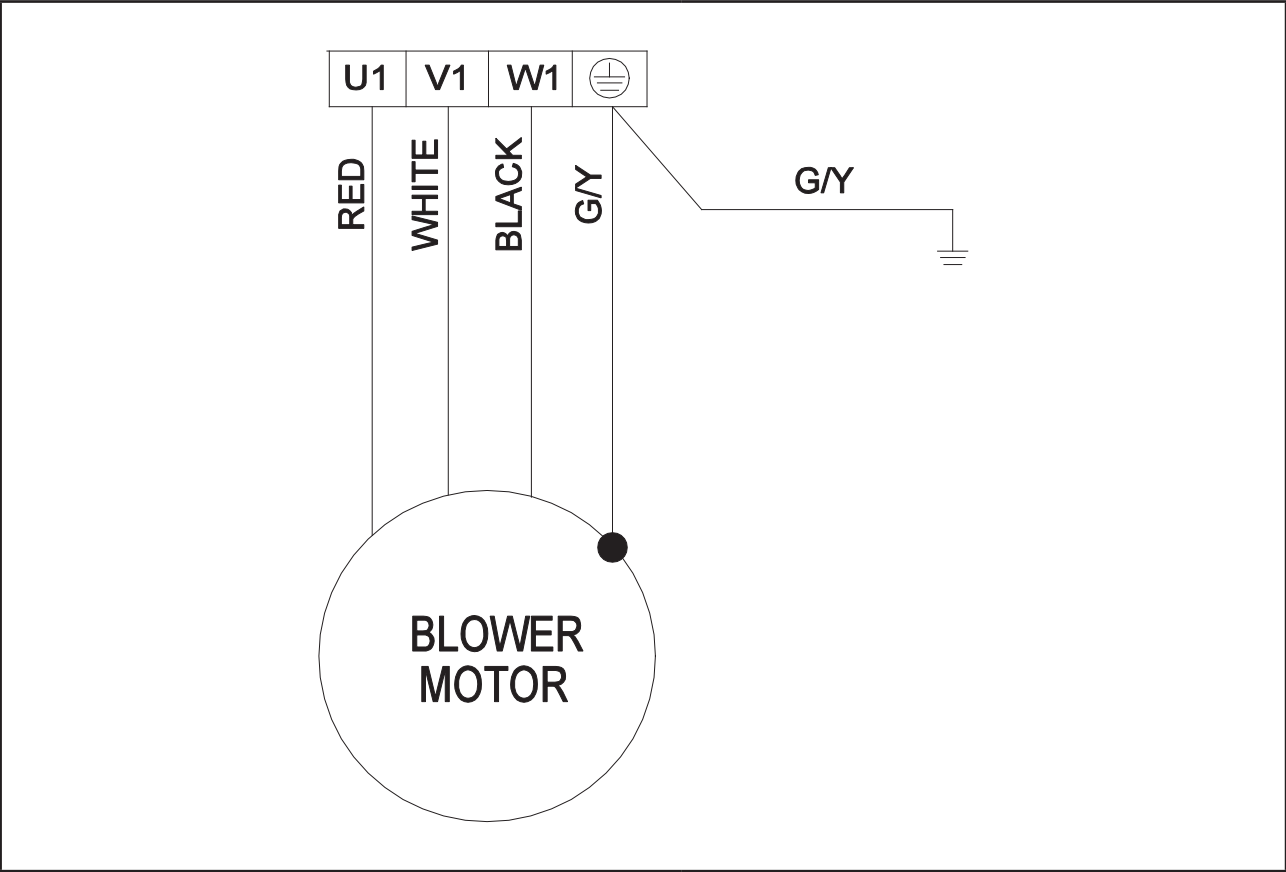
Model: ADB075BW



Model: ADB100BW



Model: ADB125/150BW



Service & Maintenance



Caution

Moving machinery and electrical power hazards. May cause severe personal injury or death. Disconnect from main power supply before servicing equipment.

The unit is designed to give long life operation with minimum maintenance required. However, it should be regularly checked and the following items should be given due attention.

Components	Maintenance Procedures	Recommended Schedule
Air Filter (Indoor Unit)	<ol style="list-style-type: none"> 1. Remove any dust adhering to the filter by using a vacuum cleaner or wash in lukewarm water (below 40°C) with a neutral cleaning detergent. 2. Rinse the filter well and dry before placing it back onto the unit. 3. Note: Never use gasoline, volatile substances or chemicals to clean the filter. 	<p>At least once every 4 weeks.</p> <p>More frequently if necessary.</p>
Indoor Unit	<ol style="list-style-type: none"> 1. Clean any dirt or dust on the grille or panel by wiping it with a soft cloth soaked in lukewarm water (below 40°C) and a neutral detergent solution. 2. Note: Never use gasoline, volatile substances or chemicals to clean the indoor unit. 	<p>At least once every 4 weeks.</p> <p>More frequently if necessary.</p>
Condense Drain Pan & Pipe	<ol style="list-style-type: none"> 1. Check the cleanliness and clean it if necessary. 	Every 3 months.
Indoor Fan	Check if there is any abnormal noise.	When necessary.
Indoor Coil	<ol style="list-style-type: none"> 1. Check and remove the dirt between the fins. 2. Check and remove any obstacles which hinder air flowing into and out of the indoor unit. 	Every month.
Power Supply	<ol style="list-style-type: none"> 1. Check the voltage and current of the indoor unit. 2. Check the electrical wiring for any faulty contacts caused by loose connections, foreign matters, etc. Tighten the wires onto the terminal block if necessary. 	Every 2 months.
Fan Motor Oil	All motors are pre-lubricated and sealed at factory.	No maintenance required.
























Caution

Do not charge **OXYGEN, ACETYLENE OR OTHER FLAMMABLE** and poisonous gases into the unit when performing a leakage test or an air tight test. These gases could cause severe explosion and damage if expose to high temperature and pressure.

Troubleshooting

Model	Board
AWM07/10/15/20/25JW	50WJW
ACK10/15/20CW	W2
ACK20/25/30/40/50EW	W3
ACM15/20/25/30/40/50EW	W2
ACC10/15/25/30/38/40/50/60CW	W2
ACC02/03/04/06/14/16/18/20GW	No Controller

Self Diagnostic Table - 50WJW Board

	 COOL/HEAT (GREEN/RED)		Normal Operation/Fault Indication	Action	Error Code
	 Green		Cool mode	-	-
	 Red		Heat mode	-	-
			Timer on	-	-
			Sleep mode on	-	-
			Fan mode on	-	-
			Dry mode on	-	-
	 1 time		Room air sensor contact Loose/Short	Call your dealer	Blink E1
	 2 times		Indoor coil sensor open/short	Call your dealer	Blink E2
		 3 times	Pipe water temperature poor	-	Blink E4
		 1 time	Pipe water temperature bad	-	Blink E5
		 6 times	Hardware error (tact switch pin short)	Call your dealer	Blink E8
	 4 times		No feedback from indoor fan	Call your dealer	Blink E9

 ON

 ON or OFF

 Blinking

Self Diagnostic Table – W2 Board

Fault Indication	COOL LED	Error Code	Action
Room sensor error (short/open)	Blink 1 time	E1	Check room sensor connection/change room air sensor
Pipe water sensor error (short/open)	Blink 2 times	E2	Check pipe water sensor connection/change pipe water sensor
Water pump error*	Blink 6 times	E6	Clear the clogging at drain pipe. If pump is not working, change the pump
Pipe water temperature fault	Blink 5 times	E5	Check chiller condition (not working or just started)

*Applicable to FWF model only.

Self Diagnostic Table – W3 Board

	Event	Power LED	Timer LED	Error Code
1.	Room Sensor Open or Short	Blink 1 time	-	Blink E1
2.	Pipe Water sensor Open or Short	Blink 2 times	-	Blink E2
3.	Pipe Water Temperature poor	Blink 3 times	-	Blink E4
4.	Pipe Water Temperature bad/fault	-	Blink 1 time	Blink E5
5.	Water Pump Fault**	-	Blink 2 times	Blink E6
6.	Hardware Error (tact switch pin Short/M3 or M4 Mode with valveless section)	-	Blink 6 times	Blink E8
7.	Window Open activated*	Blink 6 times	-	-
8.	Antifreeze mode activated*	Blink 7 times	-	-
9.	Load Shedding activated*	Blink 8 times	-	-

*Only applicable for 4-pipes system.

**Applicable to FWK model only.

Self Diagnostic Table – W3DC Board

	Event	Power LED	Timer LED	Error Code
1.	Room Sensor Open or Short	Blink 1 time	-	Blink E1
2.	Pipe Water sensor Open or Short	Blink 2 times	-	Blink E2
3.	Pipe Water Temperature poor	Blink 3 times	-	Blink E4
4.	Pipe Water Temperature bad/fault	-	Blink 1 time	Blink E5
5.	Water Pump Fault	-	Blink 2 times	Blink E6
6.	Window Open activated*	Blink Cool 6 times	-	-
7.	Antifreeze mode activated*	Blink Cool 7 times	-	-
8.	Load Shedding activated*	Blink Cool 8 times	-	-
9.	Hardware Error	-	Blink 6 times	Blink E8
10.	No feedback from indoor fan	Blink Cool 4 times		Blink E9

*Only applicable for 4-pipes system.

