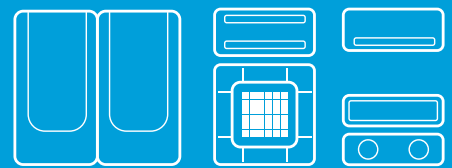


ERV

Technical Data Book

ERV for Europe (NASA, 50Hz, 60Hz)



Model : AN*JSKLKN/EU**

SAMSUNG

History

[illegible]

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1 Nomenclature

2 Specifications

3 Fan Characteristics

4 Dimensional drawing

5 Electrical wiring diagram

6 Sound pressure level

1 Nomenclature

Indoor Units

Model Names

AN

(1)

050

(2)

J

(3)

S

(4)

K

(5)

L

(6)

K

(7)

N

(8)

/**EU**

Buyer

(1) Classification

AN	VTL
----	-----

(2) Capacity

Air Volume (CMH)

(3) Year

F	2013
H	2014
J	2015

(4) Product Type

S	Set (NASA)
A	Set (no NASA)

(5) Feature1

K	FLAT(CEILING TYPE)_VTL
S	STAND(EXPOSURE TYPE)_VTL

(6) Feature2

L	COMMERCIAL/HIGH VTL
M	COMMERCIAL/STANDARD

(7) Rating Voltag

K	1Ø, 220~240V, 50/60Hz
E	1Ø, 220~240V, 50Hz
G	3Ø, 380~415V, 50Hz

(8) Mode

N	N/A
C	Cooling Only
H	Heat Pump

2 Specifications

Type				ERV	ERV	ERV
Model Name				AN026JSKLKN/EU	AN035JSKLKN/EU	AN050JSKLKN/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60
Mode			-	Temperature Exchange	Temperature Exchange	Temperature Exchange
Performance	Air Volume		CMH	260	350	500
Power Input			Turbo	W	115	175
			High	W	80	120
			Low	W	45	65
Current			Turbo	A	0.70	1.10
Fan	Air Flow Rate	Turbo	CMH	260	350	500
		High	CMH	250	350	500
		Low	CMH	180	256	360
	External Static Pressure	Turbo	Pa	100	155	165
		High	Pa	65	100	100
		Low	Pa	55	83	85
Temperature Exchange Efficiency	Cooling	Turbo	%	70.00	70.00	70.00
		High	%	70.00	70.00	70.00
		Low	%	74.00	74.00	74.00
	Heating	Turbo	%	74.00	78.00	74.00
		High	%	74.00	78.00	74.00
		Low	%	75.00	79.00	75.00
Effective Enthalpy Exchange Efficiency	Cooling	Turbo	%	50.00	50.00	50.00
		High	%	50.00	50.00	50.00
		Low	%	55.00	55.00	55.00
	Heating	Turbo	%	70.00	70.00	70.00
		High	%	70.00	70.00	70.00
		Low	%	76.00	76.00	76.00
Noise Level	Sound Pressure	Turbo	dB	31.00	32.00	35.00
		High	dB	28.00	29.00	32.00
		Low	dB	25.00	26.00	28.00
		Quiet	dB	22.00	23.00	24.00
Field Wiring	Power Source Wire		mm²	1.5~2.5	1.5~2.5	1.5~2.5
	Transmission Cable		mm²	0.75~1.5	0.75~1.5	0.75~1.5
Net Weight			kg	28.50	42.50	42.50
Gross Weight			kg	32.50	53.50	53.50
Duct Size			mm	150.00	200.00	200.00
Net Dimensions (WxHxD)			mm	600 x 350 x 660	1012 x 270 x 1000	1012 x 270 x 1000
Gross Dimensions (WxHxD)			mm	816 x420 x769	1308 x 355 x 1192	1308 x 355 x 1192

- Specifications may be subject to change without prior notice.
- These products are for residential and commercial use.
- Air Volume/ External Static Pressure, Comply with KS Heat Exhaust Ventilation System Standards(KS B6879).
- Heat Exchange/Temperature Exchange Efficiency, Comply with regulations to promote high efficiency energy devices,
[Cooling], Indoor(24°C DB/17°C WB), Outdoor(35°C DB/24°C WB)
[Heating], Indoor(22°C DB/13.9°C WB), Outdoor(2°C DB/0.44°C WB)
- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- If you are a professional looking for information on non-destructive disassembly and dismantling, please access :
http://www.samsung.com/global/ecodesign_energy

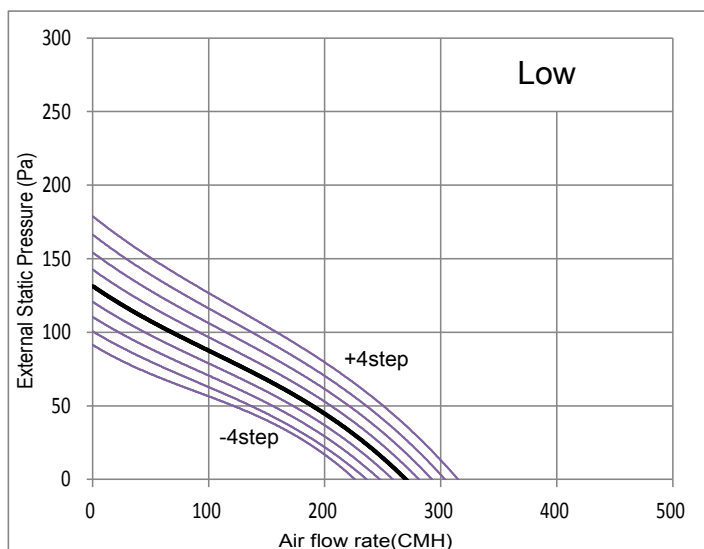
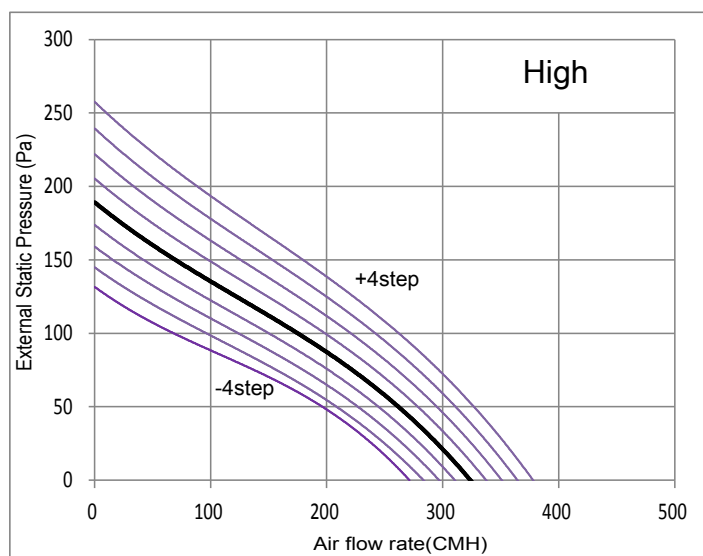
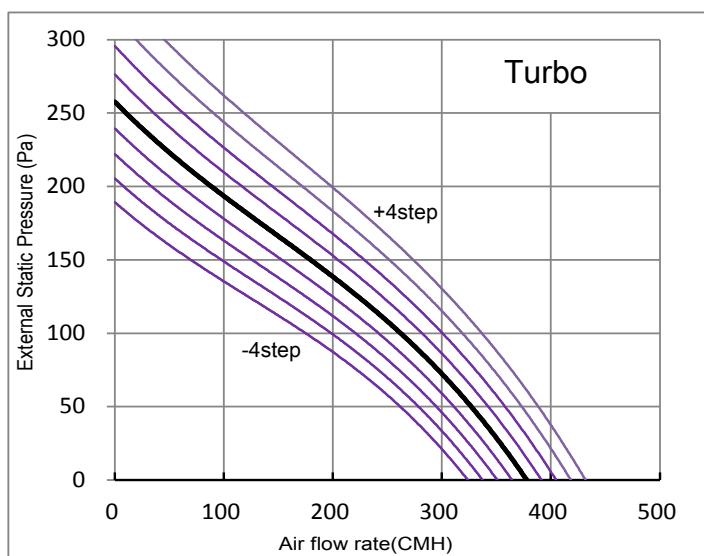
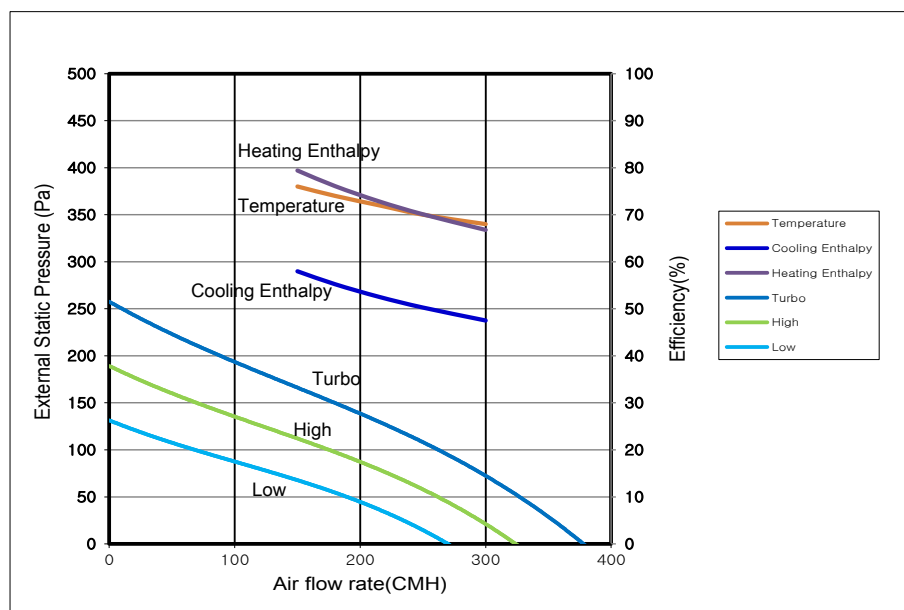
2 Specifications

Type				ERV	ERV
Model Name				AN080JSKLKN/EU	AN100JSKLKN/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50/60
Mode			-	Temperature Exchange	Temperature Exchange
Performance	Air Volume		CMH	800	1000
Power Input		Turbo	W	330	450
		High	W	230	280
		Low	W	125	155
Current		Turbo	A	2.10	2.90
Fan	Air Flow Rate	Turbo	CMH	800	1000
		High	CMH	800	1000
		Low	CMH	560	690
	External Static Pressure	Turbo	Pa	155	155
		High	Pa	90	90
		Low	Pa	80	75
Temperature Exchange Efficiency	Cooling	Turbo	%	70.00	70.00
		High	%	70.00	70.00
		Low	%	74.00	74.00
	Heating	Turbo	%	77.00	74.00
		High	%	77.00	74.00
		Low	%	78.00	75.00
Effective Enthalpy Exchange Efficiency	Cooling	Turbo	%	50.00	50.00
		High	%	50.00	50.00
		Low	%	55.00	55.00
	Heating	Turbo	%	70.00	70.00
		High	%	70.00	70.00
		Low	%	76.00	76.00
Noise Level	Sound Pressure	Turbo	dB	36.00	37.00
		High	dB	33.00	34.00
		Low	dB	29.00	30.00
		Quiet	dB	25.00	26.00
Field Wiring	Power Source Wire		mm ²	1.5~2.5	1.5~2.5
	Transmission Cable		mm ²	0.75~1.5	0.75~1.5
Net Weight			kg	67.00	67.00
Gross Weight			kg	75.50	75.50
Duct Size			mm	250.00	250.00
Net Dimensions (WxHxD)			mm	1220 x 340 x 1135	1220 x 340 x 1135
Gross Dimensions (WxHxD)			mm	1480 x 1330 x 435	1480 x 1330 x 435

- Specifications may be subject to change without prior notice.
- These products are for residential and commercial use.
- Air Volume/ External Static Pressure, Comply with KS Heat Exhaust Ventilation System Standards(KS B6879).
- Heat Exchange/Temperature Exchange Efficiency, Comply with regulations to promote high efficiency energy devices, [Cooling], Indoor(24°C DB/17°C WB), Outdoor(35°C DB/24°C WB) [Heating], Indoor(22°C DB/13.9°C WB), Outdoor(2°C DB/0.44°C WB)
- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- If you are a professional looking for information on non-destructive disassembly and dismantling, please access : http://www.samsung.com/global/ecodesign_energy

3 Fan Characteristics

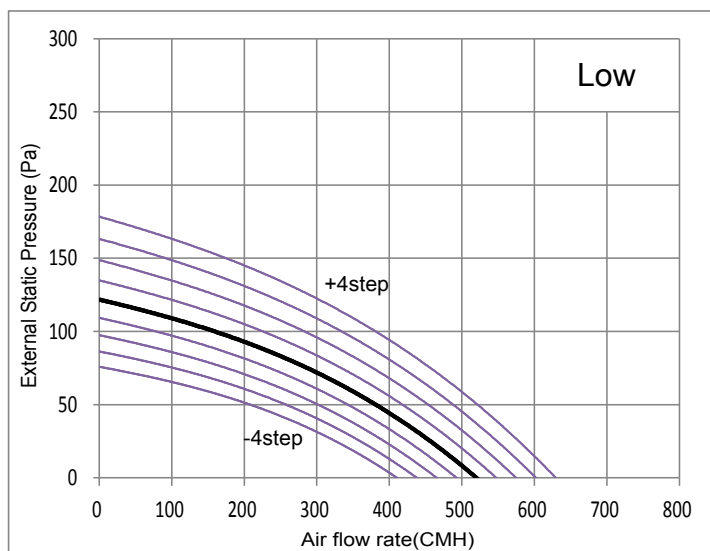
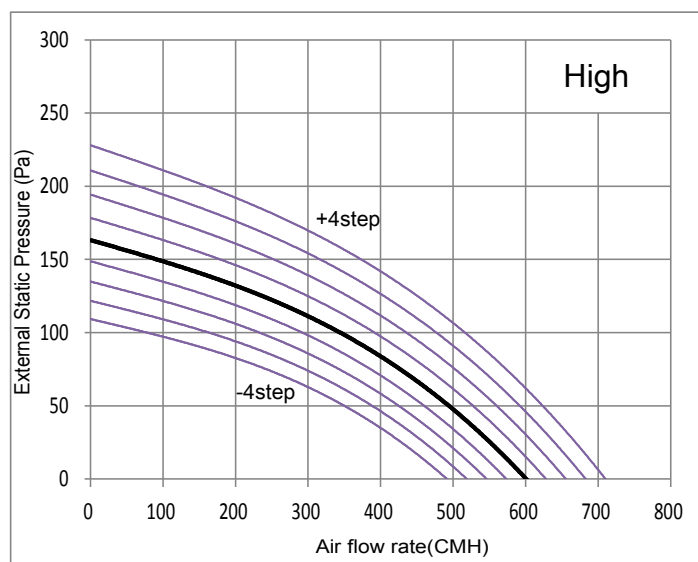
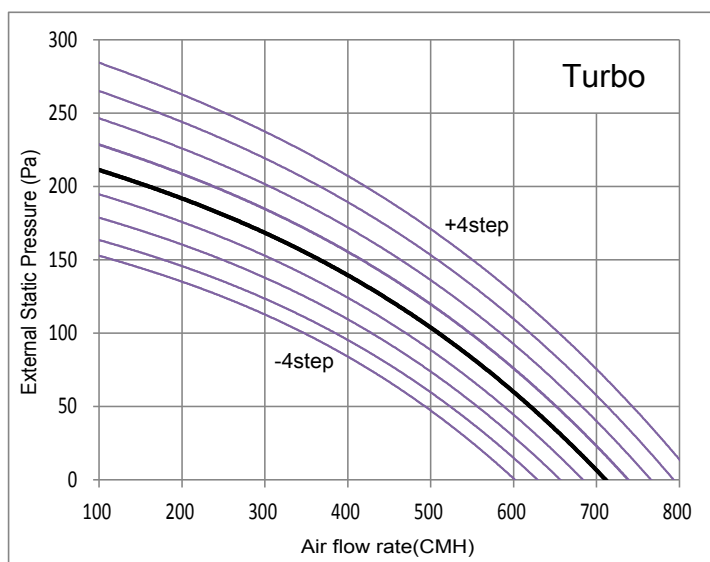
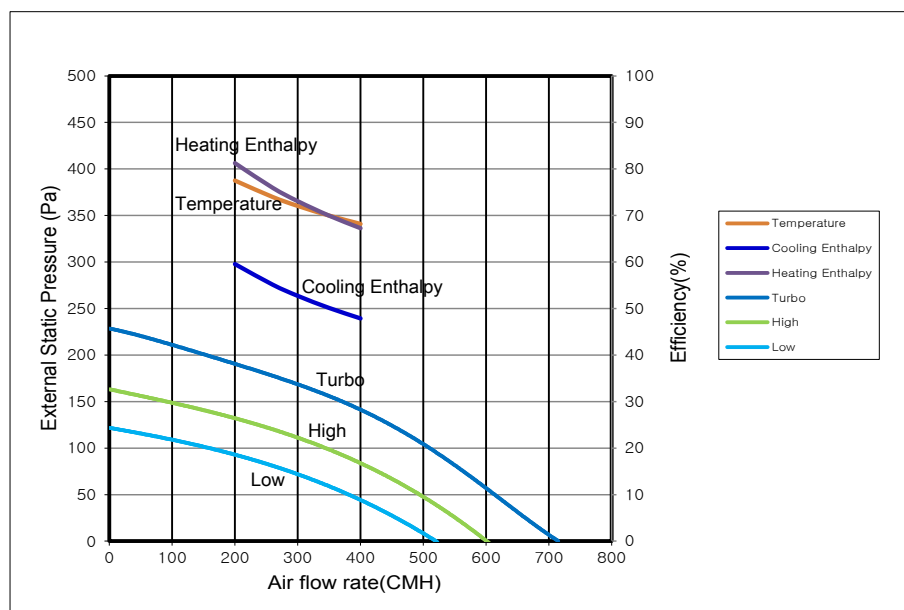
AN026JSKLKN



- * Fan RPM step can be adjusted in Service mode with wired/wireless remote controller.
- Only Turbo step can be adjusted, and High and Low air flow rate follow the adjusted turbo step.
- * Each graph shows Air flow rate and ESP with recommended fan step.

3 Fan Characteristics

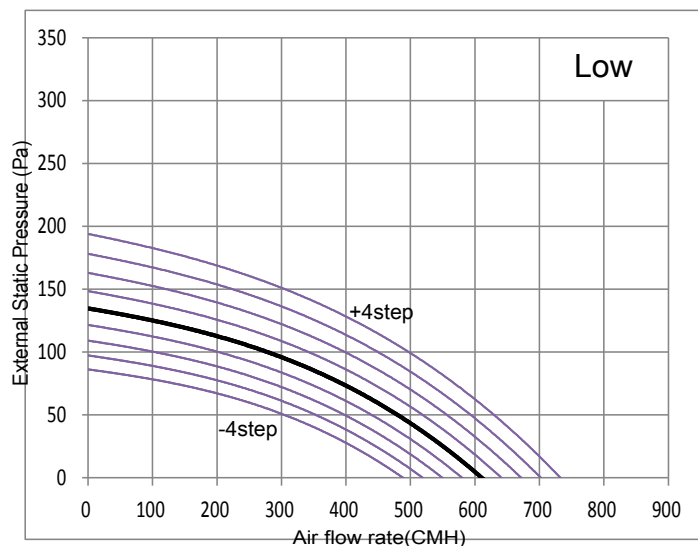
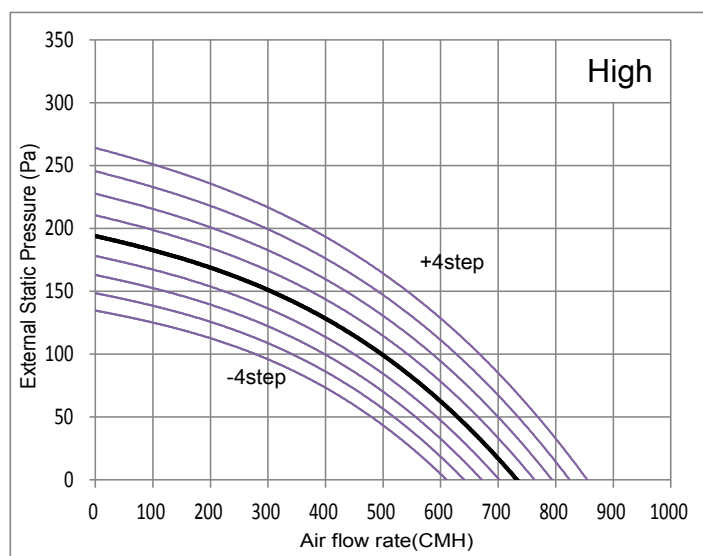
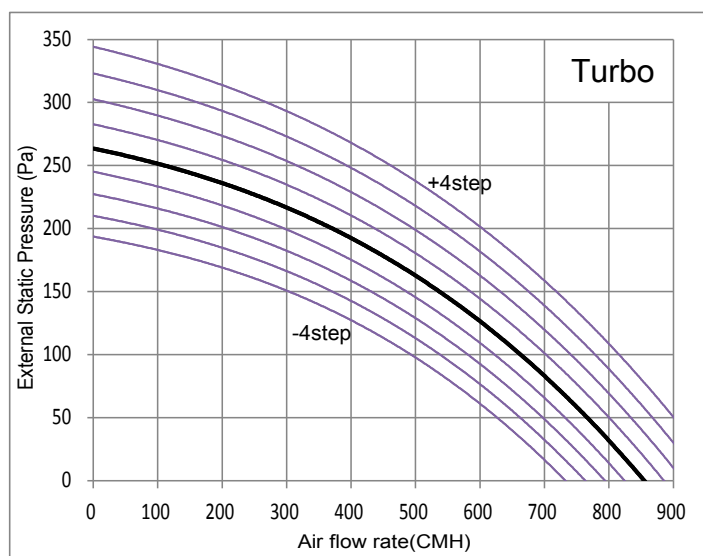
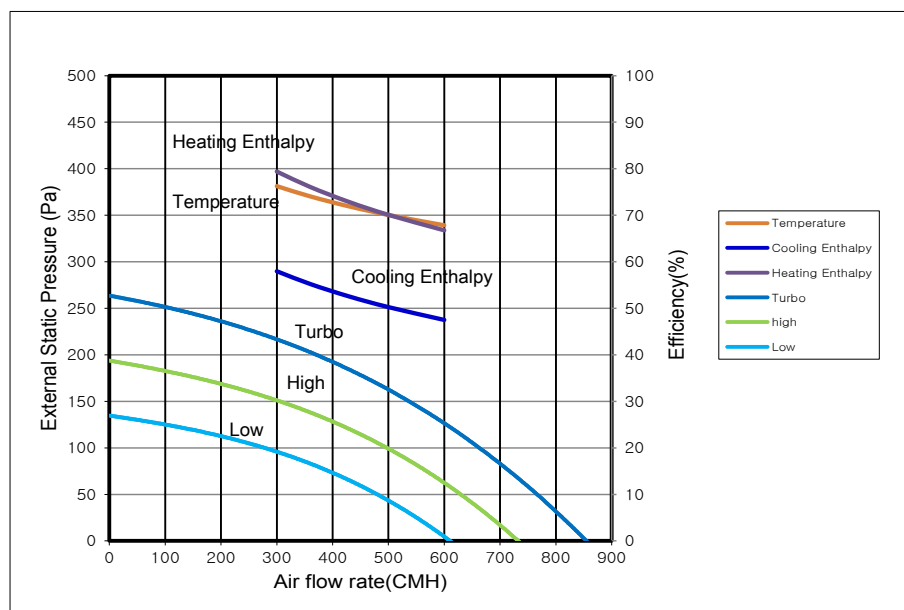
AN035JSKLKN



- * Fan RPM step can be adjusted in Service mode with wired/wireless remote controller. Only Turbo step can be adjusted, and High and Low air flow rate follow the adjusted turbo step.
- * Each graph shows Air flow rate and ESP with recommended fan step.

3 Fan Characteristics

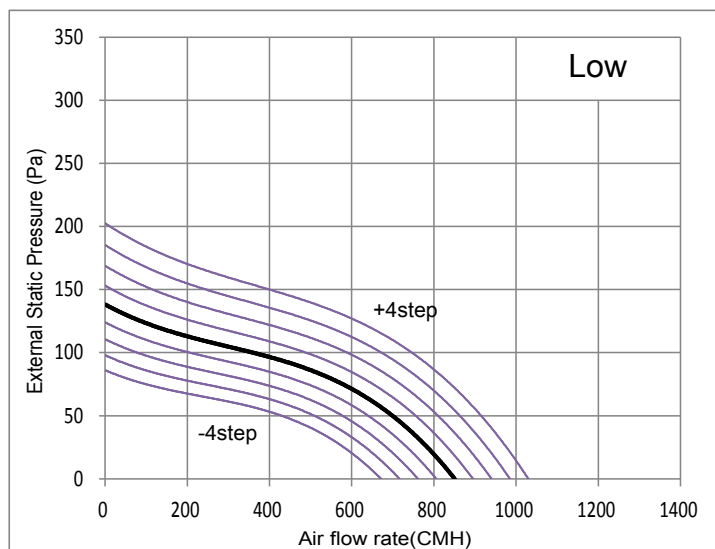
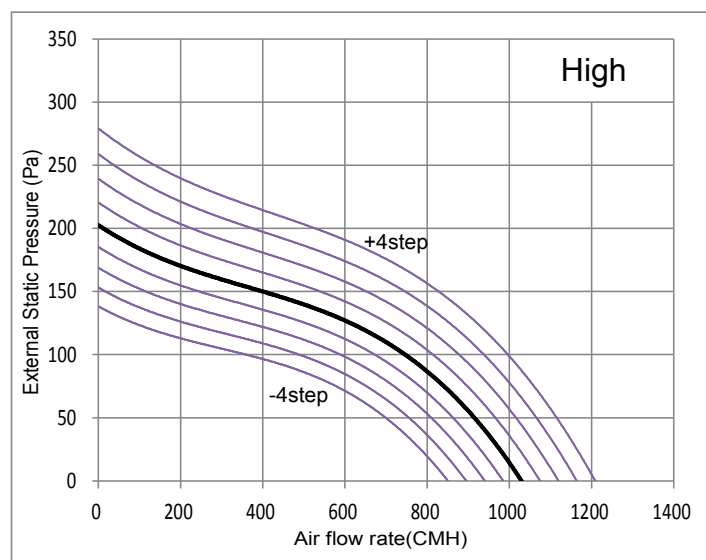
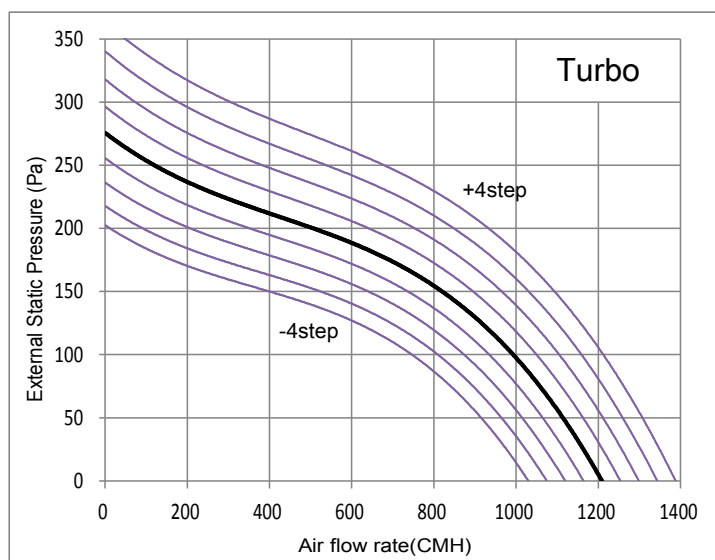
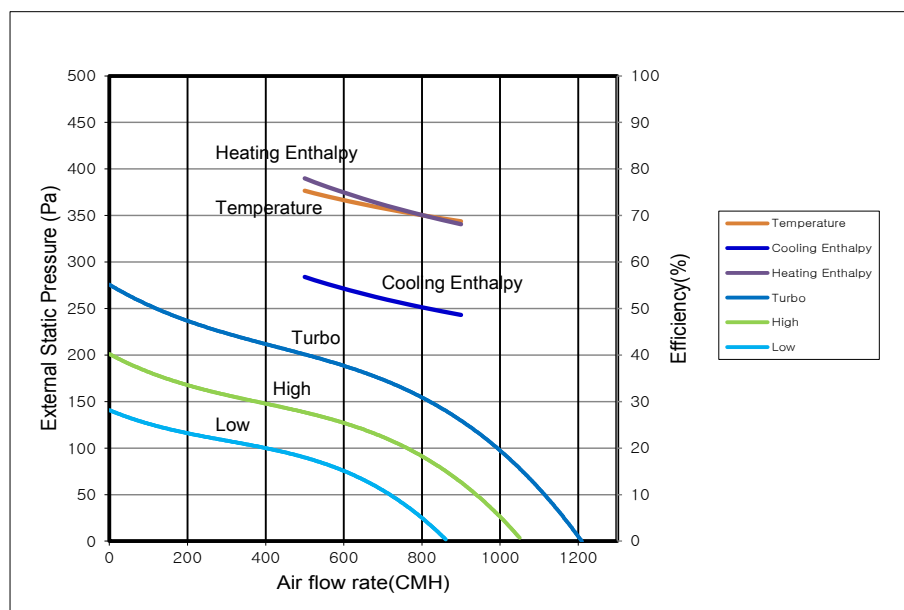
AN050JSKLKN



- * Fan RPM step can be adjusted in Service mode with wired/wireless remote controller.
- Only Turbo step can be adjusted, and High and Low air flow rate follow the adjusted turbo step.
- * Each graph shows Air flow rate and ESP with recommended fan step.

3 Fan Characteristics

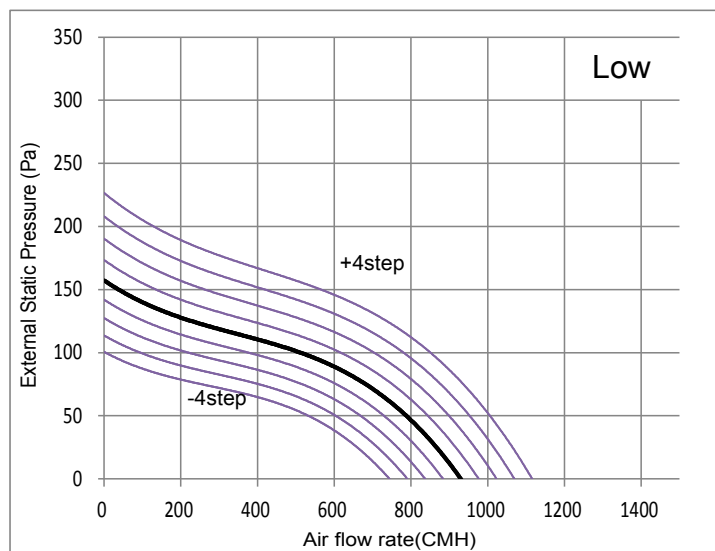
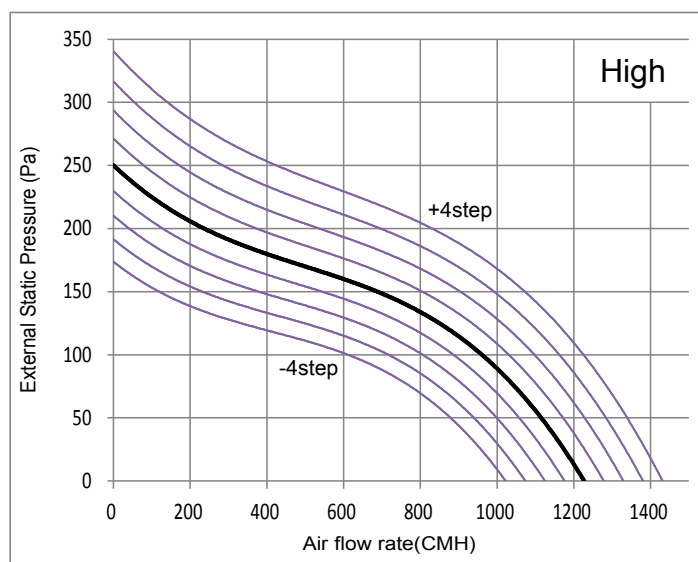
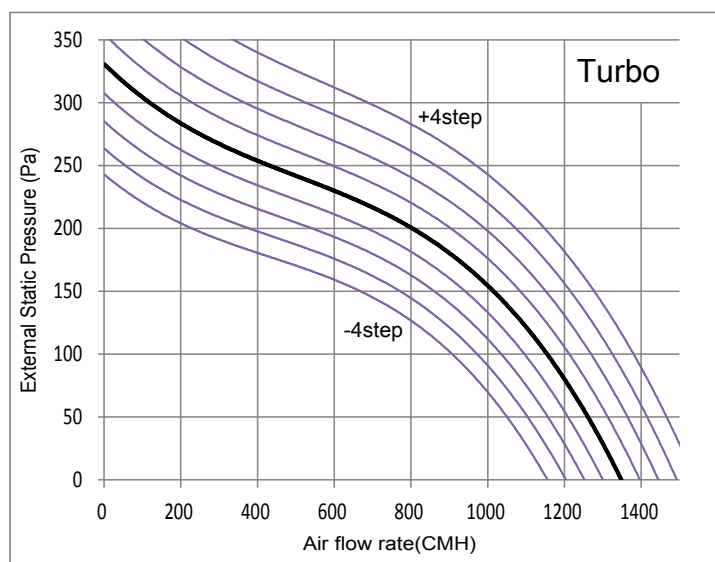
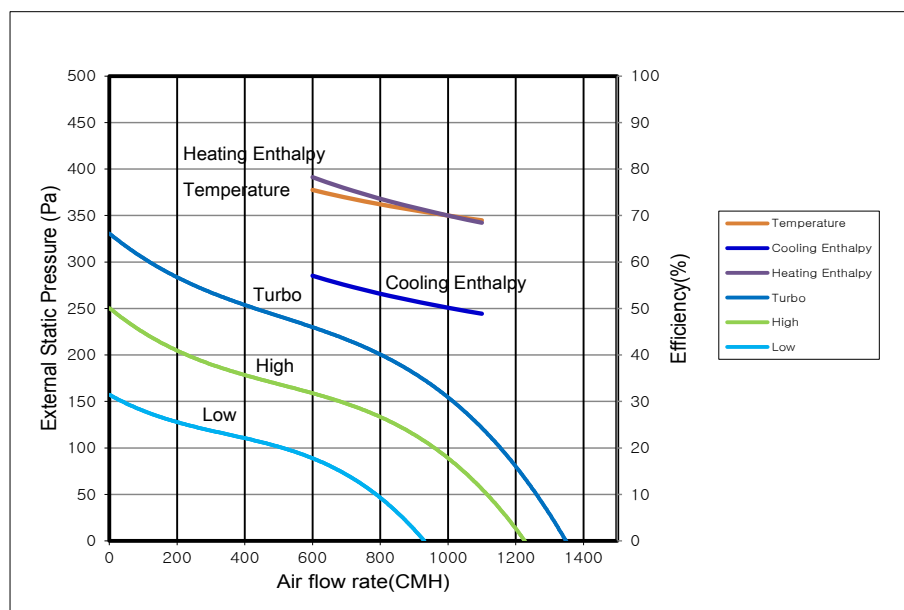
AN080JSKLKN



- * Fan RPM step can be adjusted in Service mode with wired/wireless remote controller.
- Only Turbo step can be adjusted, and High and Low air flow rate follow the adjusted turbo step.
- * Each graph shows Air flow rate and ESP with recommended fan step.

3 Fan Characteristics

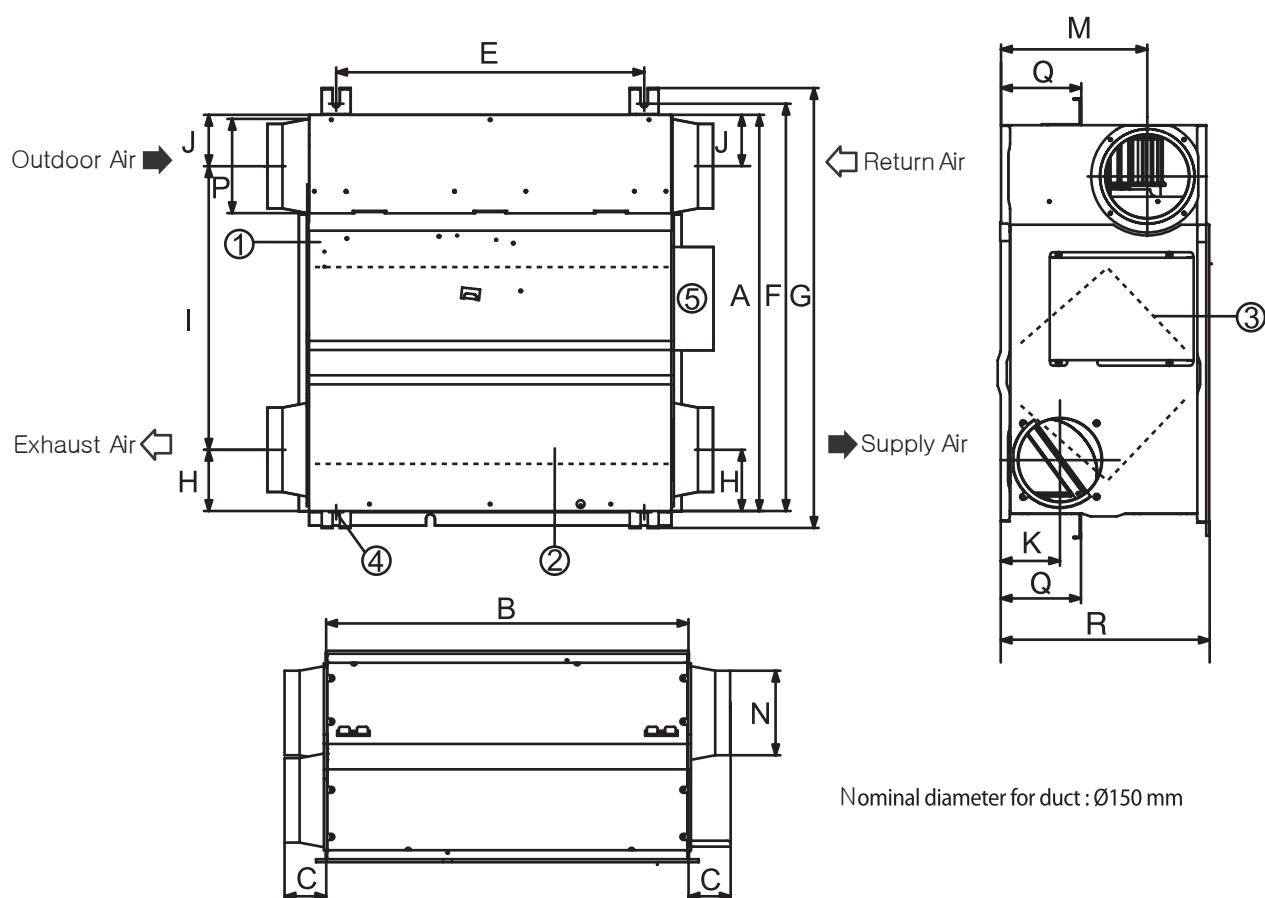
AN100JSKLKN



- * Fan RPM step can be adjusted in Service mode with wired/wireless remote controller.
- Only Turbo step can be adjusted, and High and Low air flow rate follow the adjusted turbo step.
- * Each graph shows Air flow rate and ESP with recommended fan step.

4 Dimensional drawing

ERV



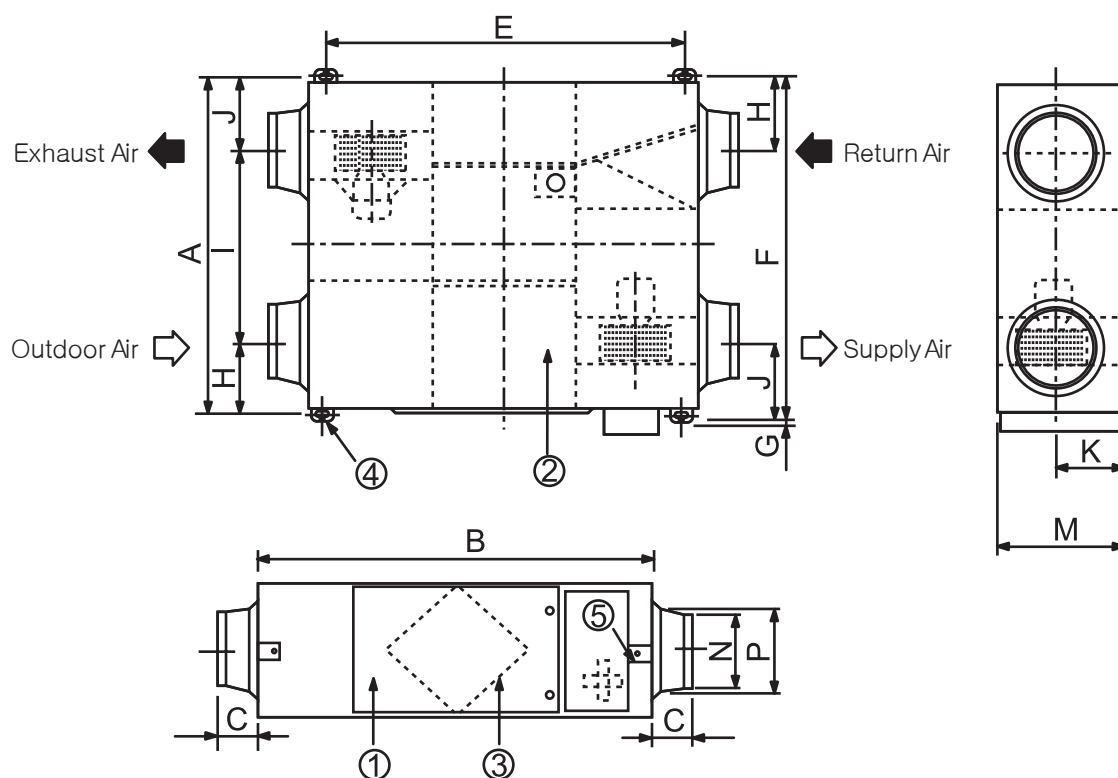
No.	Name	Quantity
①	Maintenance cover	1
②	Heat exchange element	1
③	Dust filter	2
④	Hanger	4
⑤	Electrical component box	1

Unit: mm

Model	A	B	C	E	F	G	H	I	J	K	M	N	P	Q	R
026	600	660	70	510	675	729	102	470	85	98	242	ø 140	ø 156	133	350

4 Dimensional drawing

ERV



Model	Nominal diameter for duct
035/050	Ø200
080/100	Ø250

No.	Name	Quantity
①	Maintenance cover	1
②	Heat exchange element	2
③	Dust filter	4
④	Hanger	4
⑤	Electrical component box	1

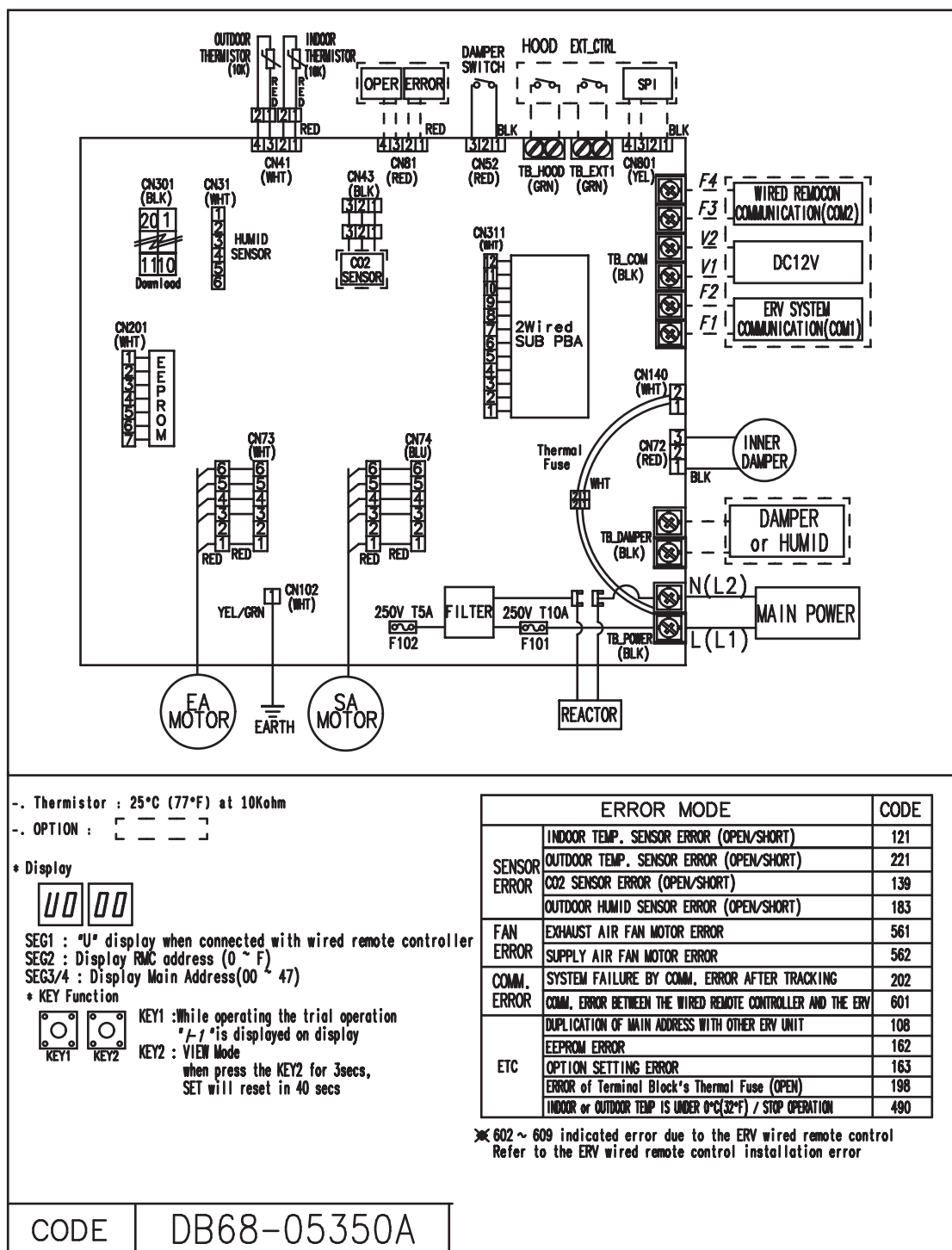
Unit: mm

Model	A	B	C	E	F	G	H	I	J	K	M	N	P
035/050	1000	1012	99	940	1036	26	130	617	253	135	270	Ø 194	Ø 241.5
080/100	1135	1220	84	1110	1183	25	184	613	253.75	170	340	Ø 244	Ø 270

5 Electrical wiring diagram

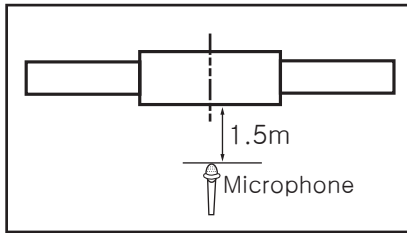
ERV

AN026JSKLKN/EU, AN035JSKLKN/EU, AN050JSKLKN/EU, AN080JSKLKN/EU, AN100JSKLKN/EU



6 Sound pressure level

ERV



Unit: dB(A)

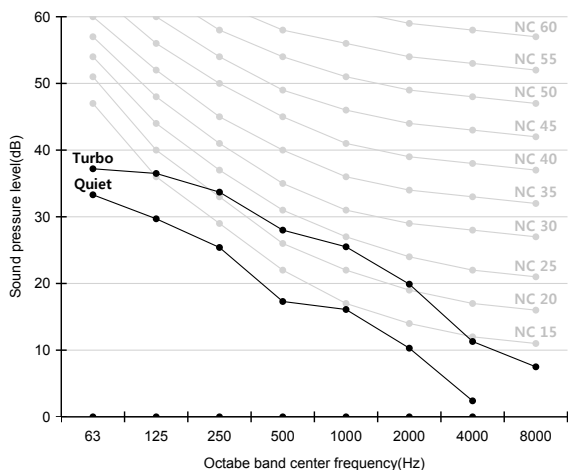
Model	Turbo	Quiet
AN026JSKLKN	31.0	22.0
AN035JSKLKN	32.0	23.0
AN050JSKLKN	35.0	24.0
AN080JSKLKN	36.0	25.0

Note

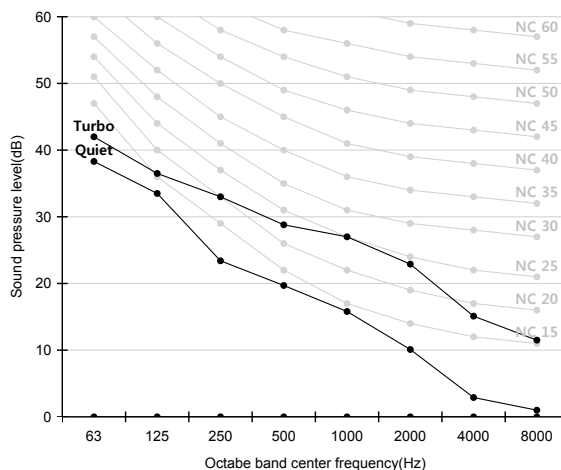
These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the
Operation sound level may differ depending on operation and ambient conditions.

NC curve

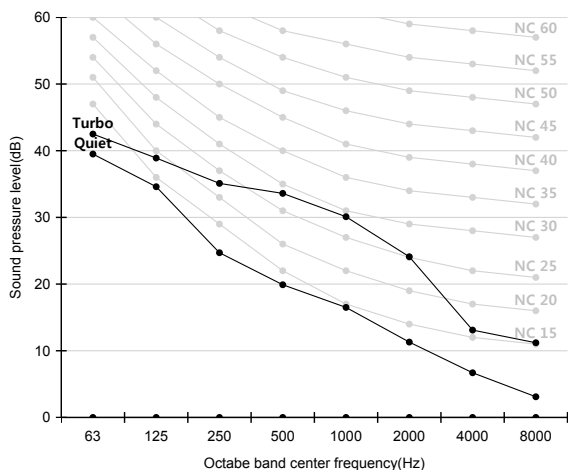
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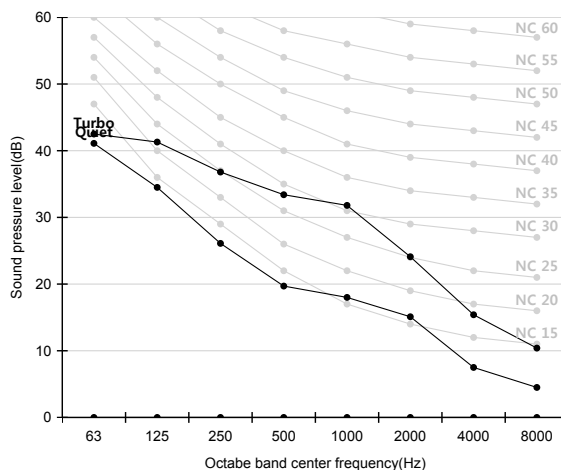
2) AN035JSKLKN



3) AN050JSKLKN

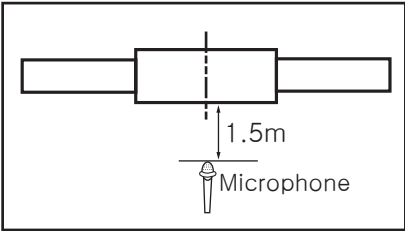


4) AN080JSKLKN



6 Sound pressure level

ERV



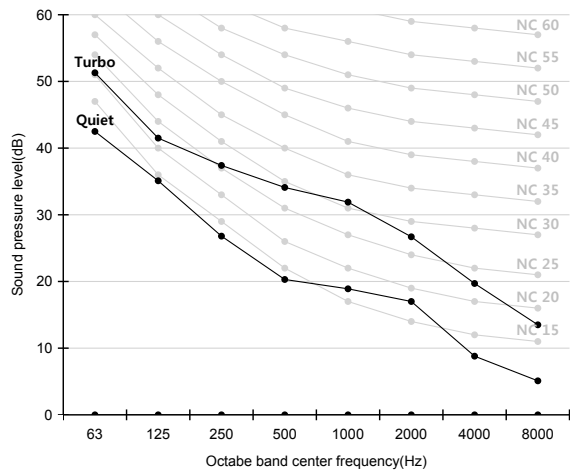
Unit: dB(A)		
Model	Turbo	Quiet
AN100JSKLKN	37.0	26.0

Note

These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the
Operation sound level may differ depending on operation and ambient conditions.

NC curve

1) AN100JSKLKN



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2015.12
Ver.1.3

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