

# VRF

## Technical Data Book

DVM S Standard for South West Asia



Model : HP (AM\*\*\*KXVANH/TL & AM\*\*\*JXVANH/TL)

# Nomenclature

## Outdoor Units

### Model Names

<b>AM</b>	<b>240</b>	<b>K</b>	<b>X</b>	<b>V</b>	<b>A</b>	<b>N</b>	<b>H</b>	/	<b>TL</b>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

### (1) Classification

AM	VRF
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### (2) Capacity

x 1/10 HP (3 digits)
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### (3) Version

F	2013
H	2014
J	2015
K	2016

### (4) Product Type

X	Outdoor Unit
N	Indoor Unit

### (5) Feature1

V	Inverter
M	DVM S Eco

### (6) Feature2

A	Standard
H	High EER

### (7) Rating Voltage

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

### (8) Mode

H	Heat Pump
R	Heat Recovery

# 2 Specifications

## Outdoor

Type			DVM S(NEW)	DVM S(NEW)	DVM S(NEW)	
Model Name			AM200JXVANH/TL	AM220JXVANH/TL	AM240KXVANH/TL	
Power Supply			Ø, #, V, Hz	3,4,380-415,50/60	3,4,380-415,50/60	
Mode			-	HP	HP	
Performance	Capacity (Nominal)	Cooling	HP	20.00	22.00	
			kW	56.00	61.60	
		Heating	Btu/h	191,100	210,200	229,300
			kW	63.00	69.30	75.60
			Btu/h	215,000	236,500	258,000
Power	Power Input (Nominal)	Cooling 1)	kW	14.59	17.35	
		Heating 2)	kW	13.90	16.70	
	Current Input (Nominal)	Cooling 1)	A	23.40	27.80	
		Heating 2)	A	22.30	26.80	
	MCA	A	42.50	44.50	55.00	
MFA	A	63.00	63.00	63.00		
COP	EER (Nominal Cooling)		-	3.84	3.55	
	COP (Nominal Heating)		-	4.53	4.15	
	Energy Grade		-	ESEER 6.56	ESEER 6.25	
Compressor	Type		-	SSC Scroll x 2	SSC Scroll x 2	
	Output		kW x n	(6.39 x 2)	(6.39 x 2)	
	Model Name		-	DS-GB066FAVBx2	DS-GB066FAVBx2	
	Oil	Type	-	PVE	PVE	
Fan	Type		-	Propeller	Propeller	
	Output x n		W	620.0x2	620.0x2	
	Air Flow Rate		CMM	290	290	
			l/s	4,833.33	4,833.33	
	External Static	Max.	mmAQ	8.00	8.00	
Pa			78.40	78.40		
Piping Connections	Liquid Pipe		Ø, mm	15.88	15.88	
			Ø, inch	5/8"	5/8"	
	Gas Pipe		Ø, mm	28.58	28.58	
			Ø, inch	1 1/8"	1 1/8"	
	Discharge Gas Pipe		Ø, mm	-	-	
			Ø, inch	-	-	
	Installation Limitation	Max. Length	m	200 (220)	200 (220)	
Max. Height		m	110 (40)	110 (40)		
Field Wiring	Power Source Wire		mm <sup>2</sup>	-	-	
	Transmission Cable		mm <sup>2</sup>	0.75 ~ 1.50	0.75 ~ 1.50	
Refrigerant	Type		-	R410A	R410A	
	Factory Charging		kg	8.40	8.40	
Sound	Pressure		dBA	65	66	
	Power		dBA	87	89	
External Dimension	New Weight		kg	307.0	307.0	
	Shipping Weight		kg	317.0	317.0	
	Net Dimensions (WxHxD)		mm	1,295x1,695x765	1,295x1,695x765	
	Shipping Dimensions (WxHxD)		mm	1,363x1,887x832	1,363x1,887x832	
Operating Temp.	Cooling		°C	-5.0 ~ 48.0	-5.0 ~ 48.0	
	Heating		°C	-25.0 ~ 24.0	-25.0 ~ 24.0	

\* Specifications may be subject to change without prior notice.

\* The nominal cooling operating range is "-5 ~ 48".

But the cooling operating range can be widen down to -20 in case of below conditions satisfy.

- 1) The combination ratio must be more than 100%.
- 2) The wind prevent duct must be installed to prevent subcooling from cold wind like 87page drawings.
- 3) The indoor heat load must be generate consistently.

\* Nominal capacities are based on;

1) Cooling : IDU(27°C DB, 19°C WB), ODU(35°C DB, 24°C WB)

2) Heating : IDU(20°C DB, 15°C WB), ODU(7°C DB, 6°C WB)

3) Equivalent refrigerant piping : 7.5m, Level differences : 0m

\* These products contain R410A which is fluorinated greenhouse gas.

# 4 Dimensional drawing

## Outdoor

OR G ESÝXOPPVŠ OR G ESÝXOPPVŠ, OR G ESÝXOPPVŠ, OR HESÝXOPPVŠ

Units : mm / inches

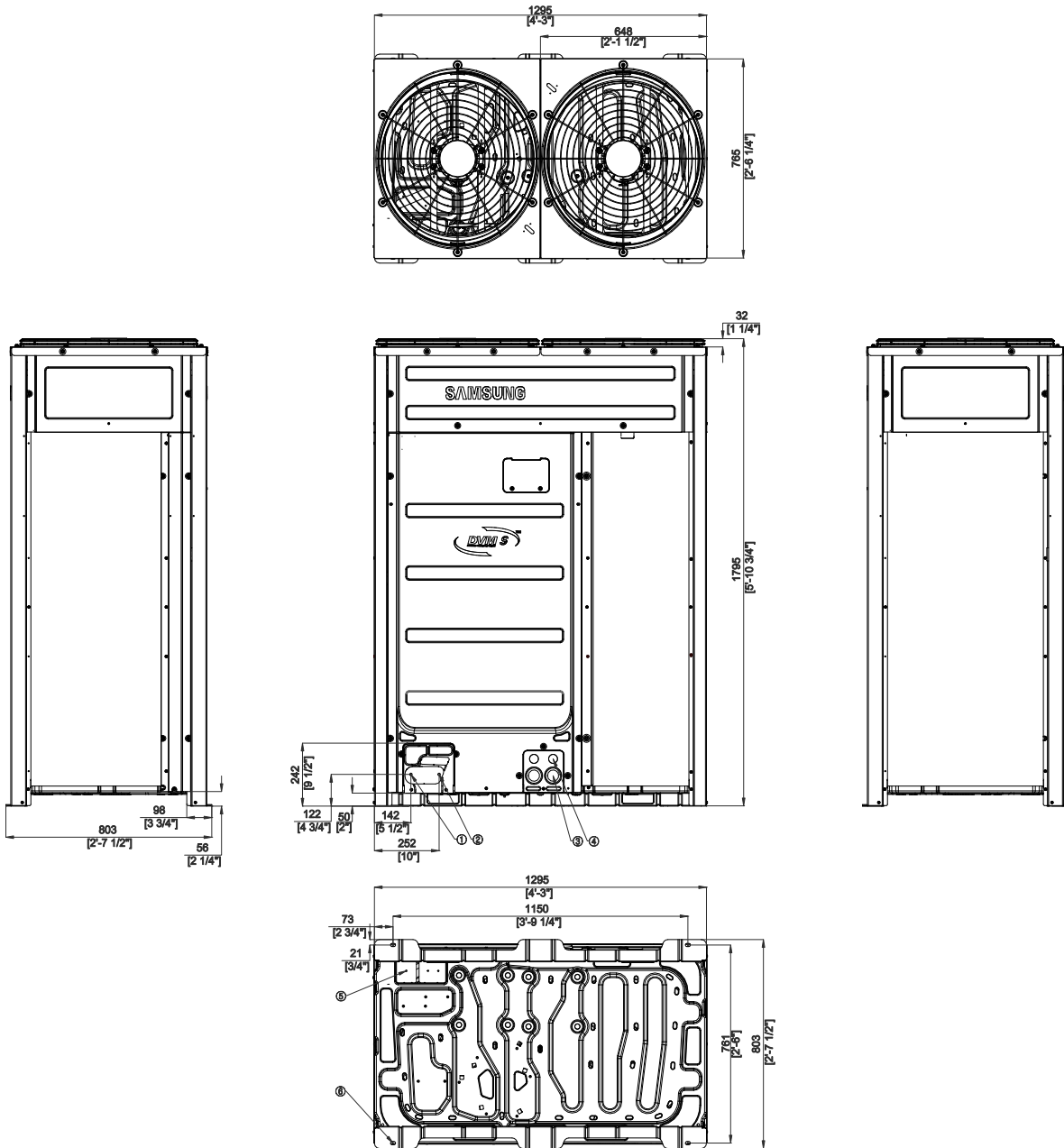


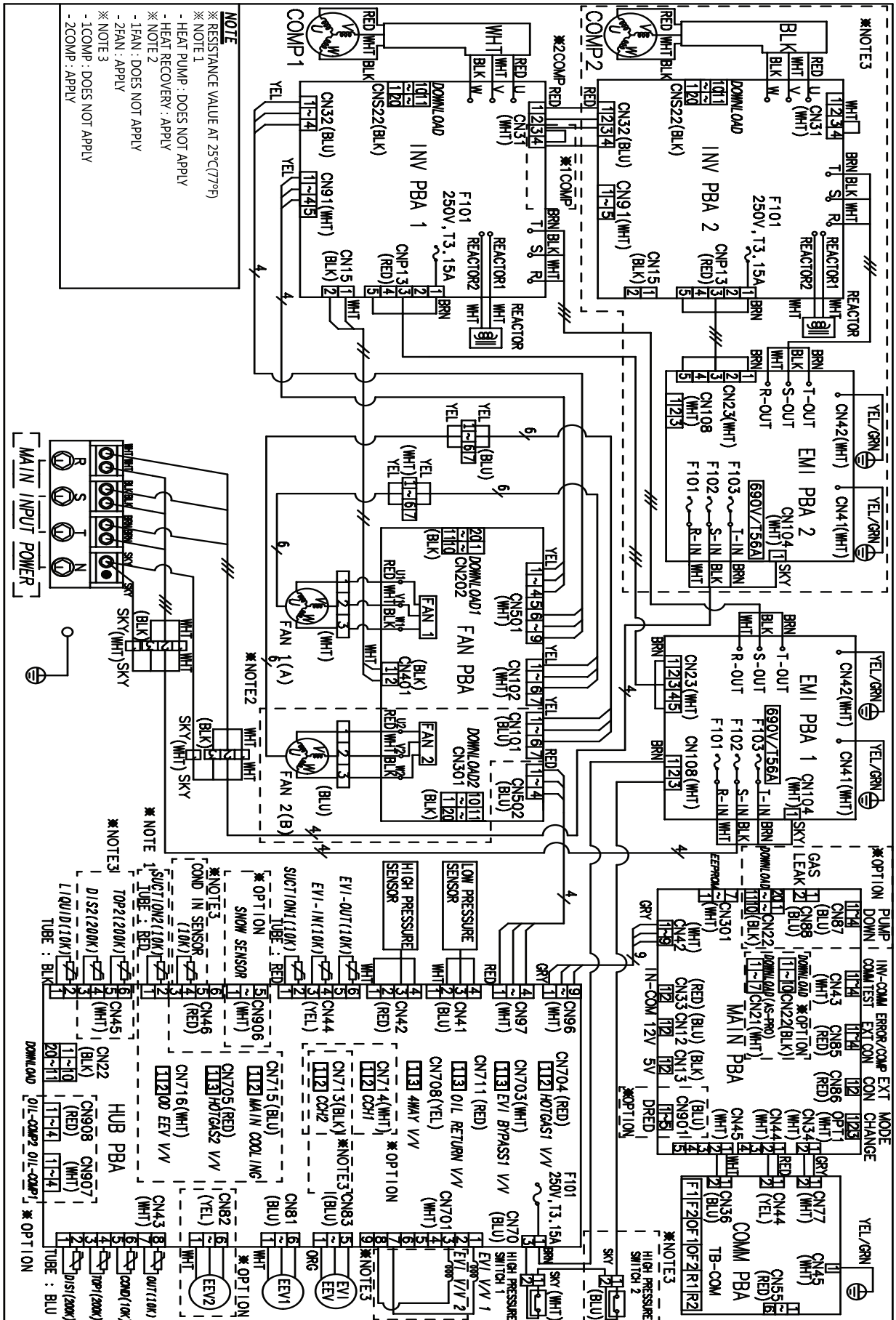
Table of descriptions

1	Gas Ref. pipe	7	
2	Liquid Ref. pipe	8	
3	Power wiring conduit	9	
4	Communication wiring conduit	10	
5	Knock-out Hole for Ref. Piping	11	
6	Anchor Bolt Hole	12	

# 5 Electrical wiring diagram

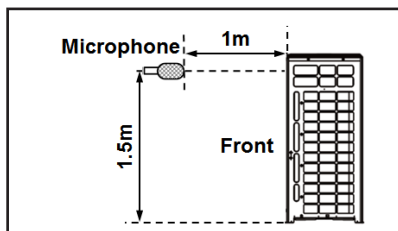
## Outdoor

AM240KXVANH/TL, AM260KXVANH/TL, AM280KXVANH/TL, AM300KXVANH/TL



# 6 Sound pressure level

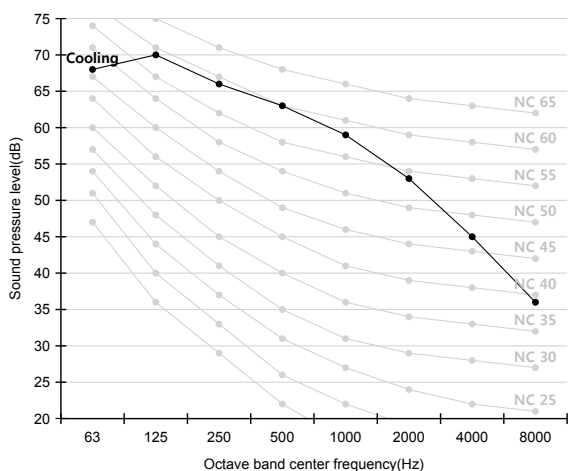
## Outdoor



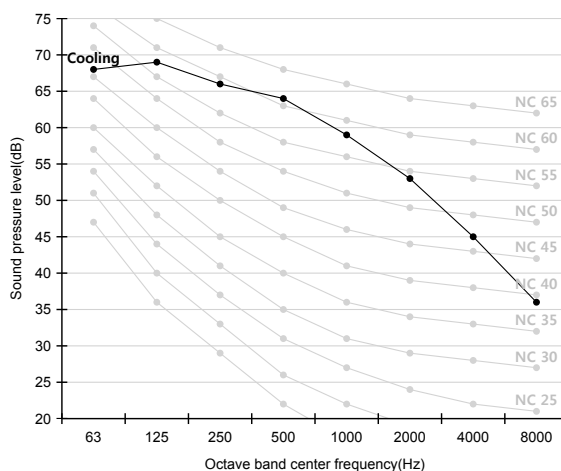
Unit: dB(A)	
Model	Cooling
AM240KXVANH/TL	66
AM260KXVANH/TL	66
AM280KXVANH/TL	69
AM300KXVANH/TL	69

## NC curve

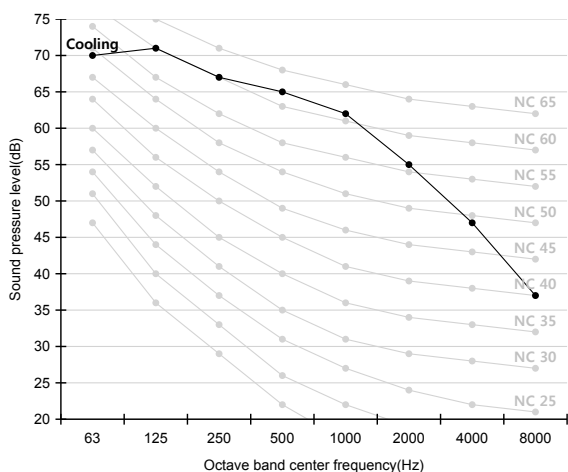
### 1) AM240KXVANH/TL



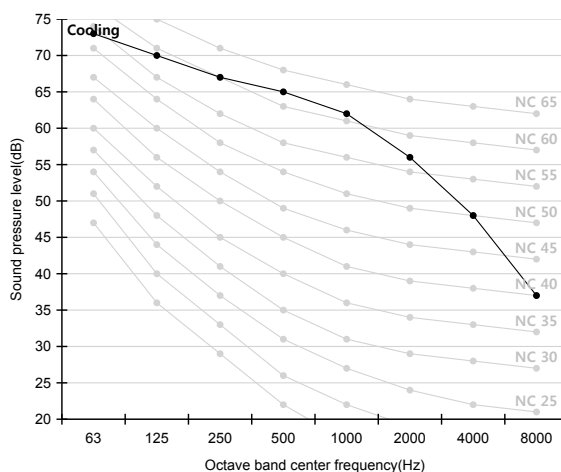
### 2) AM260KXVANH/TL



### 3) AM280KXVANH/TL



### 4) AM300KXVANH/TL



## NOTE

- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A-weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

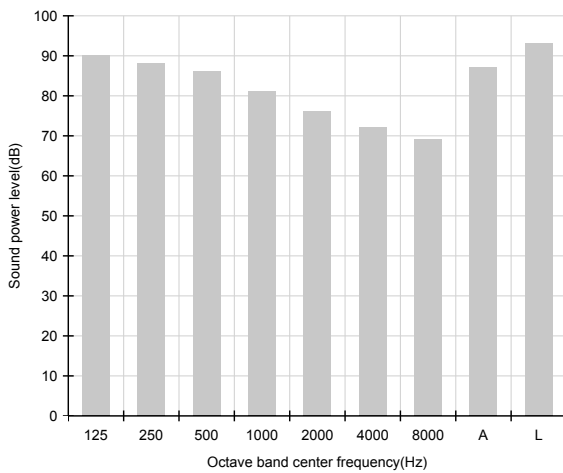
# 7 Sound power level

## Outdoor

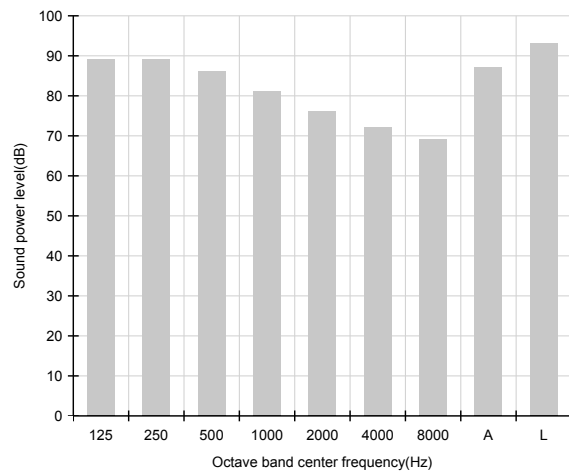
Unit: dB(A)

Model	Power
AM240KXVANH/TL	89
AM260KXVANH/TL	89
AM280KXVANH/TL	90
AM300KXVANH/TL	90

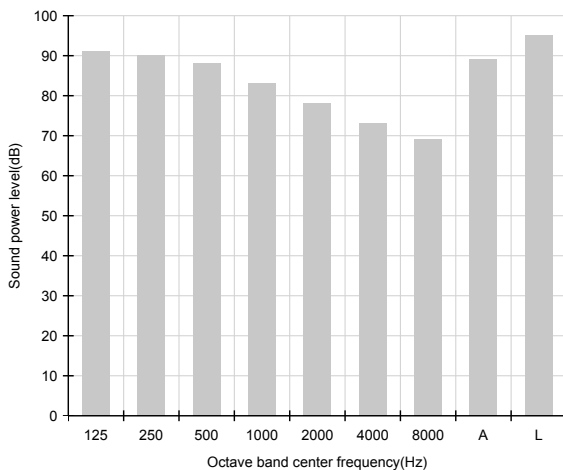
### 1)AM240KXVANH/TL



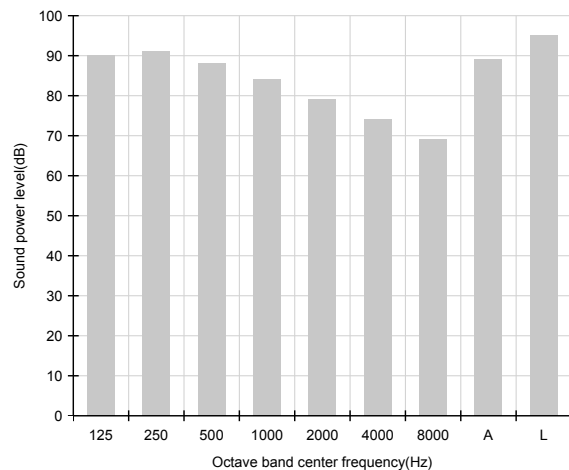
### 2)AM260KXVANH/TL



### 3)AM280KXVANH/TL



### 4)AM300KXVANH/TL



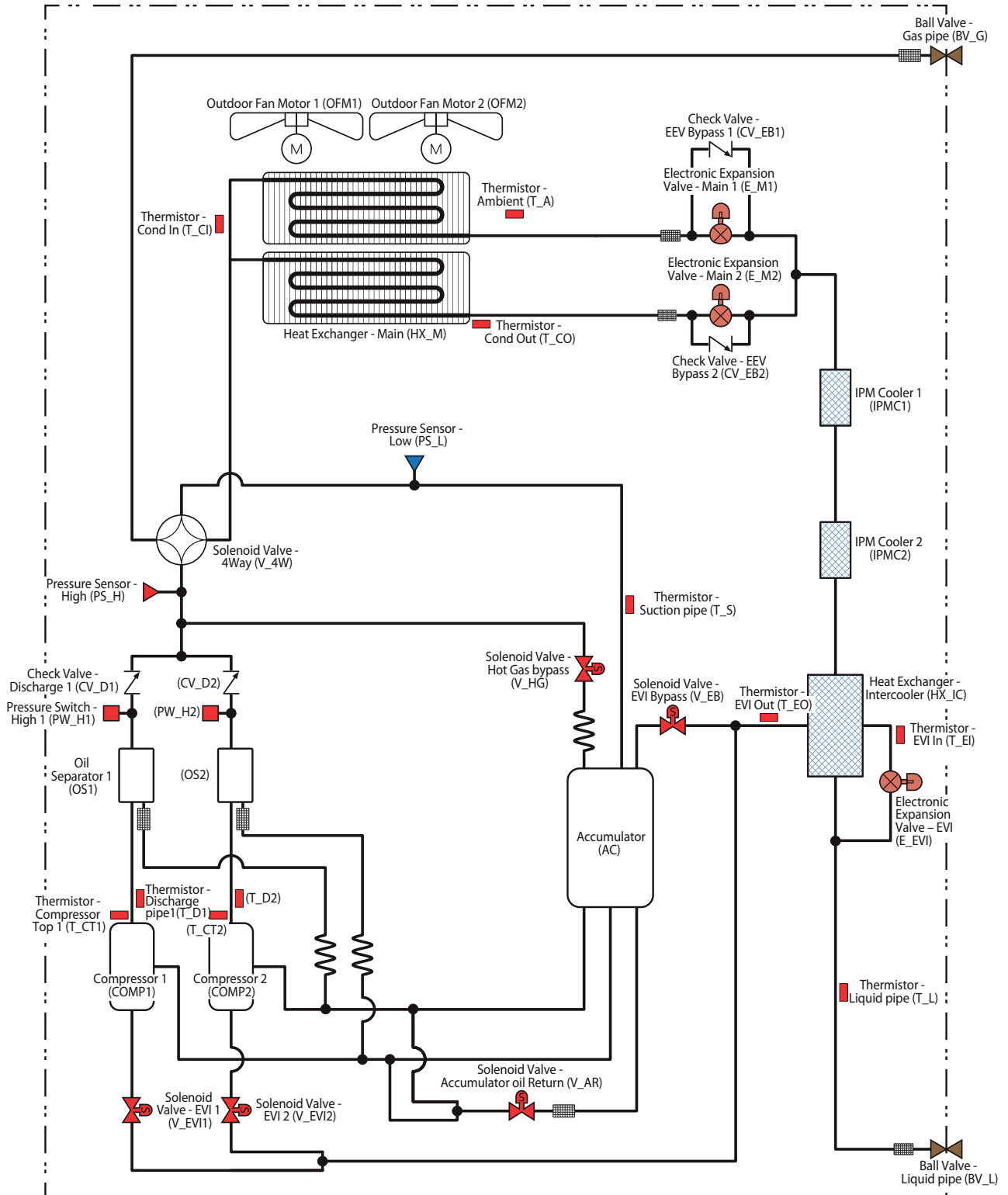
#### NOTE

- Specifications may be subject to change without prior notice.
- Sound power level is an absolute value that a sound source generates.
- dBA = A-weighted sound power level.
- Reference power : 1pW.
- Measured according to ISO 3741.

# 8 Cycle diagram

## Outdoor

AM240KXVANH/TL, AM260KXVANH/TL





# SAMSUNG

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