

VPD S6M

Heat Pump Outdoor Units | 208/230/460V | R-32 | 60Hz

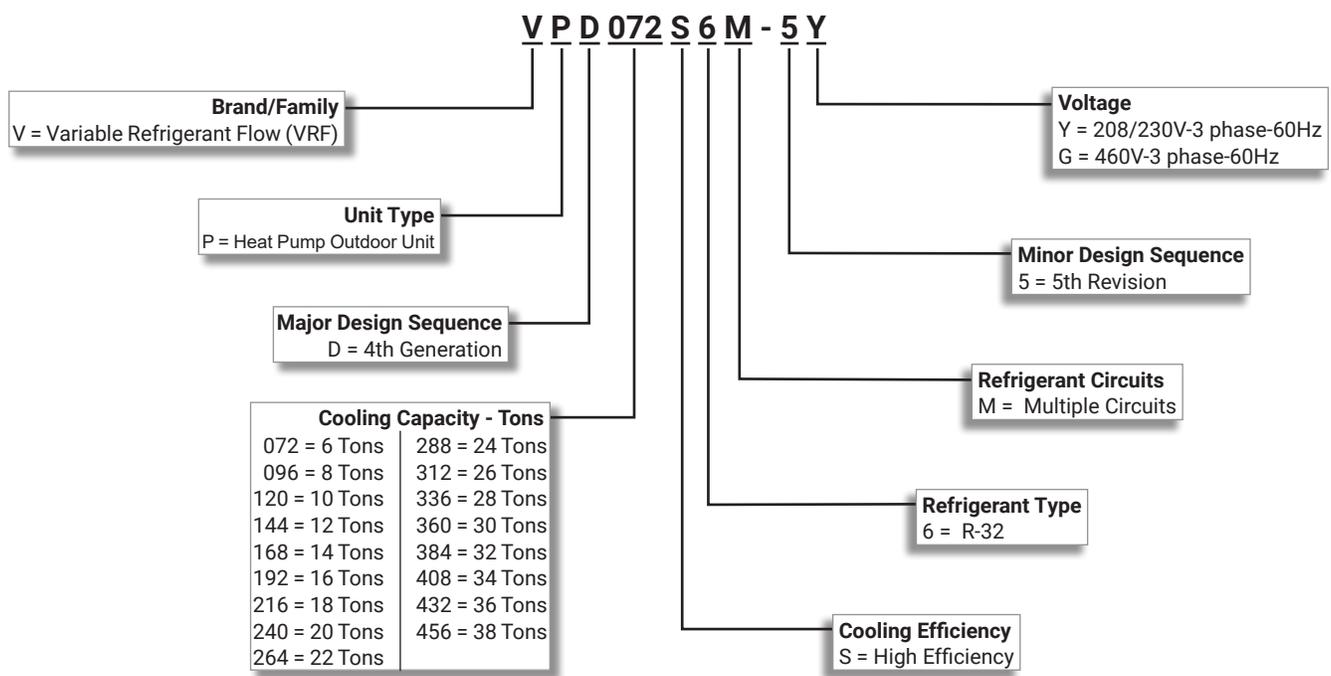
6 to 38 tons

COMMERCIAL PRODUCT SPECIFICATIONS (EHB)



ASHRAE
Standard
90.1

MODEL NUMBER IDENTIFICATION



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1. Combination Table : Outdoor units

VPD High Efficiency Heat Pump Outdoor Units (208~230V)

System Model			Capacity (Ton)							
Capa (Ton)	Model Name	Number of individual outdoor units								
			6	8	10	12	14	16	18	20
6	VPD072S6M-5Y	1	1							
8	VPD096S6M-5Y	1		1						
10	VPD120S6M-5Y	1			1					
12	VPD144S6M-5Y	1				1				
14	VPD168S6M-5Y	1					1			
16	VPD192S6M-5Y	1						1		
18	VPD216S6M-5Y	1							1	
20	VPD240S6M-5Y	1								1
22	VPD264S6M-5Y	2		1			1			
24	VPD288S6M-5Y	2		1				1		
26	VPD312S6M-5Y	2		1					1	
28	VPD336S6M-5Y	2		1						1
30	VPD360S6M-5Y	2			1					1
32	VPD384S6M-5Y	2						2		
34	VPD408S6M-5Y	2						1	1	
36	VPD432S6M-5Y	3			2			1		
38	VPD456S6M-5Y	3			1	1		1		

NOTE

- Make sure to use an indoor unit that is compatible with VRF.
 - Indoor units can be connected within the range indicated in following table.
 - If the total capacity of the connected indoor units exceeds the indicated maximum capacity, cooling and heating capacity of the indoor unit may decrease.
 - The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
 - Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. VRF design software supports designing over 130% based on system design. Refer to the “Design Procedure & Combination Ratio” section of this document for details
- ※ You can connect maximum 64 indoor units to the outdoor unit. Maximum quantity of connectable indoor unit is set to 64 since outdoor unit only support up to 64 communication address. Indoor unit address can be assigned from 0~63. If the indoor unit address was assigned from 64~79, E201 error will occur.
- ※ Maximum 32 Wall-mount type indoor units with EEV (VWMD***S6-5P) can be connected

1. Combination Table : Outdoor units

VPD High Efficiency Heat Pump Outdoor Units (460V)

System Model			Capacity (Ton)							
Capa (Ton)	Model Name	Number of individual outdoor units								
			6	8	10	12	14	16	18	20
6	VPD072S6M-5G	1	1							
8	VPD096S6M-5G	1		1						
10	VPD120S6M-5G	1			1					
12	VPD144S6M-5G	1				1				
14	VPD168S6M-5G	1					1			
16	VPD192S6M-5G	1						1		
18	VPD216S6M-5G	1							1	
20	VPD240S6M-5G	1								1
22	VPD264S6M-5G	2		1			1			
24	VPD288S6M-5G	2		1				1		
26	VPD312S6M-5G	2		1					1	
28	VPD336S6M-5G	2		1						1
30	VPD360S6M-5G	2			1					1
32	VPD384S6M-5G	2						2		
34	VPD408S6M-5G	2						1	1	
36	VPD432S6M-5G	3			2			1		
38	VPD456S6M-5G	3			1	1		1		

NOTE

- Make sure to use an indoor unit that is compatible with VRF.
 - Indoor units can be connected within the range indicated in following table.
 - If the total capacity of the connected indoor units exceeds the indicated maximum capacity, cooling and heating capacity of the indoor unit may decrease.
 - The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
 - Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. VRF design software supports designing over 130% based on system design. Refer to the “Design Procedure & Combination Ratio” section of this document for details
- ※ You can connect maximum 64 indoor units to the outdoor unit. Maximum quantity of connectable indoor unit is set to 64 since outdoor unit only support up to 64 communication address. Indoor unit address can be assigned from 0~63. If the indoor unit address was assigned from 64~79, E201 error will occur.
- ※ Maximum 32 Wall-mount type indoor units with EEV (VWMD***S6-5P) can be connected

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (208~230V)

Model Name				VPD072S6M-5Y	VPD096S6M-5Y	VPD120S6M-5Y		
Outdoor unit module 1				-	-	-		
Outdoor unit module 2				-	-	-		
Outdoor unit module 3				-	-	-		
Power Supply			Φ # V Hz	3 3 208-230 60	3 3 208-230 60	3 3 208-230 60		
Mode				-	Heat Pump	Heat Pump		
Performance	TON			TON	6	8	10	
	Capacity	Cooling	1) Nominal	Btu/h	72,000	96,000	120,000	
			Rated	Btu/h	69,000	92,000	114,000	
		Heating	1) Nominal	Btu/h	81,000	108,000	135,000	
			Rated	Btu/h	77,000	103,000	129,000	
Maximum number of connectable indoor units				EA	12	16	20	
2) Total capacity of the connected Indoor Units				Min.	Btu/h	36,000	48,000	60,000
				Max.	Btu/h	93,600	124,800	156,000
Power	Current	MCA		A	28.0	36.0	40.8	
		MOP		A	35	40	45	
Efficiency	Cooling	EER	Ducted	Btu/h·W	11.60	12.20	11.70	
			NonDucted	Btu/h·W	11.00	12.15	11.15	
		IEER	Ducted	Btu/h·W	23.30	24.10	22.60	
			NonDucted	Btu/h·W	24.18	27.98	25.92	
			Mixed	Btu/h·W	23.74	26.04	24.26	
		Heating	High COP(47F)	Ducted	W/W	3.90	3.94	3.80
	NonDucted			W/W	3.93	4.21	3.85	
	Mixed			W/W	3.92	4.08	3.83	
	Low COP(17F)		Ducted	W/W	2.84	2.75	2.80	
	NonDucted	W/W	2.70	2.92	2.81			
Casing	Material	Body		-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
		Base		-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
Heat Exchanger	Type			-	Fin & Tube	Fin & Tube	Fin & Tube	
	Material	Fin		-	Al	Al	Al	
		Tube		-	Cu	Cu	Cu	
	Fin Treatment				-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Model Name			-	DS2BD7046EVA	DS2BD7046EVA	DS2BD7046EVA	
	Quantity			EA	1	2	2	
	Type			-	SCROLL_INVERTER	SCROLL_INVERTER	SCROLL_INVERTER	
	Output			kW	4.95	4.95	4.95	
	Oil	Type		-	POE	POE	POE	
Initial Charge		fl oz	30.4	30.4	30.4			
Fan	Type			-	Propeller	Propeller	Propeller	
	Discharge direction			-	Top discharge	Top discharge	Top discharge	
	Quantity			EA	1	2	2	
	Air Flow Rate			CFM	5,580	9,924	9,924	
	External Static Pressure			Pa	110	110	110	
Fan Motor	Type			-	BLDC	BLDC	BLDC	
	Output		W	630	620	620		
			kW	0.63	0.62	0.62		
3) Piping Connections	Liquid Pipe	Type		-	Welding	Welding	Welding	
		Diameter		in	3/8	3/8	1/2	

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (208~230V)

Model Name				VPD072S6M-5Y	VPD096S6M-5Y	VPD120S6M-5Y	
Outdoor unit module 1				-	-	-	
Outdoor unit module 2				-	-	-	
Outdoor unit module 3				-	-	-	
3) Piping Connections	Gas Pipe	Type	-	Welding	Welding	Welding	
		Diameter	in	3/4	7/8	7/8	
	Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Total piping length (System)		Max.	ft	3,281	3,281	3,281
	Piping length (1st Branch-IDU)		Max.	ft	295	295	295
	Piping length (ODU-IDU)		Max.	ft	656	656	656
	Piping length (ODU-IDU)	Equivalent	Max.	ft	722	722	722
		Level difference (IDU-IDU)			Max.	ft	164
	Level difference (ODU in highest position)			Max.	ft	361	361
	Level difference (IDU in highest position)			Max.	ft	361	361
Wiring Connection	Transmission Cable	Min.	AWG	18	18	18	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	4) Type			-	R32	R32	R32
	Factory Charge			lbs	11.0	14.1	14.1
Sound Level	5) Sound Pressure Level		Cooling	dB(A)	54	57	57
			Heating	dB(A)	58	59	60
	6) Sound Power Level		Cooling	dB(A)	75	79	79
External Dimension	Net Weight			lbs	381	551	551
	Shipping Weight			lbs	412	589	589
	Net Dimensions		W x H x D	mm	930 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765
				in	36-5/8 x 66-3/4 x 30-1/8	51 x 66-3/4 x 30-1/8	51 x 66-3/4 x 30-1/8
	Shipping Dimensions		W x H x D	mm	998 x 1,887 x 829	1,363 x 1,887 x 829	1,363 x 1,887 x 829
in				39-5/16 x 74-5/16 x 32-5/8	53-11/16 x 74-5/16 x 32-5/8	53-11/16 x 74-5/16 x 32-5/8	
7) Operating Temp. Range	Cooling	Min. ~ Max.	°F	5 ~ 126	5 ~ 126	5 ~ 126	
	Heating	Min. ~ Max.	°F	-22 ~ 75	-22 ~ 75	-22 ~ 75	

NOTE

- Specification may be subject to change without prior notice.
 - Nominal capacities are based on (Equivalent refrigerant piping : 25ft, Level differences : 0ft);
 - Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
 - Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
 - The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. VRF design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
 - If outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
 - (If the level difference is higher than 164ft, the PDM kit should be installed) *PDM kit: Pressure Drop Modulation kit
 - These products contain R32 which is fluorinated greenhouse gas.
 - Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
 - Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound values are obtained in an anechoic room.
 - Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions. (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50% capacity of the connected indoor units must be operated.)
 - However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (208~230V)

Model Name				VPD144S6M-5Y	VPD168S6M-5Y	VPD192S6M-5Y	
Outdoor unit module 1				-	-	-	
Outdoor unit module 2				-	-	-	
Outdoor unit module 3				-	-	-	
Power Supply			Φ # V Hz	3 3 208-230 60	3 3 208-230 60	3 3 208-230 60	
Mode			-	Heat Pump	Heat Pump	Heat Pump	
Performance	TON		TON	12	14	16	
	Capacity	Cooling	1) Nominal	Btu/h	144,000	168,000	192,000
			Rated	Btu/h	138,000	160,000	184,000
		Heating	1) Nominal	Btu/h	162,000	189,000	216,000
			Rated	Btu/h	154,000	180,000	206,000
Maximum number of connectable indoor units			EA	25	29	33	
2) Total capacity of the connected indoor Units			Min.	Btu/h	72,000	84,000	96,000
			Max.	Btu/h	187,200	218,400	249,600
Power	Current	MCA		A	52.6	54.4	60.0
		MOP		A	60	60	70
Efficiency	Cooling	EER	Ducted	Btu/h-W	11.80	10.60	11.00
			NonDucted	Btu/h-W	11.30	10.15	10.20
		IEER	Ducted	Btu/h-W	22.19	21.19	22.10
			NonDucted	Btu/h-W	25.16	22.91	22.50
			Mixed	Btu/h-W	23.68	22.05	22.30
		Heating	High COP(47F)	Ducted	W/W	3.68	3.67
	NonDucted			W/W	3.65	3.55	3.20
	Mixed			W/W	3.67	3.61	3.38
	Low COP(17F)		Ducted	W/W	2.70	2.56	2.65
	NonDucted	W/W	2.69	2.51	2.22		
Casing	Material	Body		-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base		-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	
	Material	Fin		-	Al	Al	Al
		Tube		-	Cu	Cu	Cu
	Fin Treatment			-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Model Name			-	DS2BD7046EVA	DS4BC5066EVA	DS4BC5066EVA
	Quantity			EA	2	2	2
	Type			-	SCROLL_INVERTER	SCROLL_INVERTER	SCROLL_INVERTER
	Output			kW	4.95	7.17	7.17
	Oil	Type		-	POE	POE	POE
		Initial Charge		fl oz	30.4	37.2	37.2
Fan	Type			-	Propeller	Propeller	Propeller
	Discharge direction			-	Top discharge	Top discharge	Top discharge
	Quantity			EA	2	2	2
	Air Flow Rate			CFM	10,171	10,665	12,855
	External Static Pressure			Pa	110	110	80
Fan Motor	Type			-	BLDC	BLDC	BLDC
	Output		W	620	620	630	
kW			0.62	0.62	0.63		
3) Piping Connections	Liquid Pipe	Type		-	Welding	Welding	Welding
		Diameter		in	1/2	1/2	1/2

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (208~230V)

Model Name				VPD144S6M-5Y	VPD168S6M-5Y	VPD192S6M-5Y	
Outdoor unit module 1				-	-	-	
Outdoor unit module 2				-	-	-	
Outdoor unit module 3				-	-	-	
3) Piping Connections	Gas Pipe	Type	-	Welding	Welding	Welding	
		Diameter	in	1-1/8	1-1/8	1-1/8	
	Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Total piping length (System)		Max.	ft	3,281	3,281	3,281
	Piping length (1st Branch-IDU)		Max.	ft	295	295	295
	Piping length (ODU-IDU)		Max.	ft	656	656	656
	Piping length (ODU-IDU)	Equivalent	Max.	ft	722	722	722
		Level difference (IDU-IDU)		Max.	ft	164	164
	Level difference (ODU in highest position)		Max.	ft	361	361	361
	Level difference (IDU in highest position)		Max.	ft	361	361	361
Wiring Connection	Transmission Cable	Min.	AWG	18	18	18	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	4) Type			-	R32	R32	R32
	Factory Charge			lbs	18.5	18.5	22.0
Sound Level	5) Sound Pressure Level		Cooling	dB(A)	60	60	63
			Heating	dB(A)	63	63	66
	6) Sound Power Level		Cooling	dB(A)	81	83	85
External Dimension	Net Weight			lbs	591	642	818
	Shipping Weight			lbs	628	679	875
	Net Dimensions		W x H x D	mm	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,860 x 1,695 x 765
				in	51 x 66-3/4 x 30-1/8	51 x 66-3/4 x 30-1/8	73-1/4 x 66-3/4 x 30-1/8
	Shipping Dimensions		W x H x D	mm	1,363 x 1,887 x 829	1,363 x 1,887 x 829	1,928 x 1,887 x 829
in				53-11/16 x 74-5/16 x 32-5/8	53-11/16 x 74-5/16 x 32-5/8	75-7/8 x 74-5/16 x 32-5/8	
7) Operating Temp. Range	Cooling	Min. ~ Max.	°F	5 ~ 126	5 ~ 126	5 ~ 126	
	Heating	Min. ~ Max.	°F	-22 ~ 75	-22 ~ 75	-22 ~ 75	

NOTE

- Specification may be subject to change without prior notice.
 - Nominal capacities are based on (Equivalent refrigerant piping : 25ft, Level differences : 0ft);
 - Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
 - Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
 - The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. VRF design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
 - If outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
 - (If the level difference is higher than 164ft, the PDM kit should be installed) *PDM kit: Pressure Drop Modulation kit
 - These products contain R32 which is fluorinated greenhouse gas.
 - Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
 - Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound values are obtained in an anechoic room.
 - Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions. (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50% capacity of the connected indoor units must be operated.) However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (208~230V)

Model Name				VPD216S6M-5Y	VPD240S6M-5Y	VPD264S6M-5Y	
Outdoor unit module 1				-	-	VPD096S6M-5Y	
Outdoor unit module 2				-	-	VPD168S6M-5Y	
Outdoor unit module 3				-	-	-	
Power Supply			Φ # V Hz	3 3 208-230 60	3 3 208-230 60	3 3 208-230 60	
Mode			-	Heat Pump	Heat Pump	Heat Pump	
Performance	TON		TON	18	20	22	
	Capacity	Cooling	1) Nominal	Btu/h	216,000	240,000	264,000
			Rated	Btu/h	206,000	228,000	252,000
		Heating	1) Nominal	Btu/h	243,000	270,000	297,000
			Rated	Btu/h	232,000	258,000	283,000
Maximum number of connectable indoor units			EA	37	41	45	
2) Total capacity of the connected indoor Units			Min.	Btu/h	108,000	120,000	
			Max.	Btu/h	280,800	312,000	343,200
Power	Current	MCA	A	64.0	68.0	90.4	
		MOP	A	80	80	-	
Efficiency	Cooling	EER	Ducted	Btu/h-W	10.15	9.95	10.85
			NonDucted	Btu/h-W	10.10	9.90	10.55
		IEER	Ducted	Btu/h-W	20.60	20.30	19.18
			NonDucted	Btu/h-W	21.50	21.44	21.76
			Mixed	Btu/h-W	21.05	20.87	20.47
		Heating	High COP(47F)	Ducted	W/W	3.45	3.25
	NonDucted			W/W	3.20	3.24	3.49
	Mixed			W/W	3.33	3.25	3.55
	Low COP(17F)		Ducted	W/W	2.60	2.45	2.41
			NonDucted	W/W	2.18	2.39	2.44
	Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Base			-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	
	Material	Fin	-	Al	Al	Al	
		Tube	-	Cu	Cu	Cu	
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion	
Compressor	Model Name		-	DS4BC5066EVA	DS4BC5066EVA	(DS2BD7046EVAx2)x1 +(DS4BC5066EVAx2)x1	
	Quantity		EA	2	2	2x1+2x1	
	Type		-	SCROLL_INVERTER	SCROLL_INVERTER	(SCROLL_INVERTERx2)x1 +(SCROLL_INVERTERx2)x1	
	Output		kW	7.17	7.17	(4.95x2)x1+(7.17x2)x1	
	Oil	Type	-	POE	POE	POE	
		Initial Charge	fl oz	37.2	37.2	(30.4x2)x1+(37.2x2)x1	
Fan	Type		-	Propeller	Propeller	Propeller	
	Discharge direction		-	Top discharge	Top discharge	Top discharge	
	Quantity		EA	2	2	4	
	Air Flow Rate		CFM	13,314	13,773	9,924x1+10,665x1	
	External Static Pressure		Pa	80	80	-	
Fan Motor	Type		-	BLDC	BLDC	BLDC	
	Output	W	630	630	(620x2)x1+(620x2)x1		
		kW	0.63	0.63	(0.62x2)x1+(0.62x2)x1		
3) Piping Connections	Liquid Pipe	Type	-	Welding	Welding	Welding	
		Diameter	in	1/2	1/2	5/8	

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (208~230V)

Model Name				VPD216S6M-5Y	VPD240S6M-5Y	VPD264S6M-5Y	
Outdoor unit module 1				-	-	VPD096S6M-5Y	
Outdoor unit module 2				-	-	VPD168S6M-5Y	
Outdoor unit module 3				-	-	-	
3) Piping Connections	Gas Pipe	Type	-	Welding	Welding	Welding	
		Diameter	in	1-1/8	1-1/8	1-1/8	
	Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Total piping length (System)		Max.	ft	3,281	3,281	3,281
	Piping length (1st Branch-IDU)		Max.	ft	295	295	295
	Piping length (ODU-IDU)		Max.	ft	656	656	656
	Piping length (ODU-IDU)	Equivalent	Max.	ft	722	722	722
		Level difference (IDU-IDU)			Max.	ft	164
	Level difference (ODU in highest position)			Max.	ft	361	361
	Level difference (IDU in highest position)			Max.	ft	361	361
Wiring Connection	Transmission Cable	Min.	AWG	18	18	18	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	4) Type			-	R32	R32	
	Factory Charge			lbs	25.8	25.8	32.6
Sound Level	5) Sound Pressure Level		Cooling	dB(A)	64	66	62
			Heating	dB(A)	67	68	64
	6) Sound Power Level		Cooling	dB(A)	85	86.5	84
External Dimension	Net Weight			lbs	836	836	551x1+642x1
	Shipping Weight			lbs	893	893	589x1+679x1
	Net Dimensions		W x H x D	mm	1,860 x 1,695 x 765	1,860 x 1,695 x 765	(1,295 x 1,695 x 765) x 2
				in	73-1/4 x 66-3/4 x 30-1/8	73-1/4 x 66-3/4 x 30-1/8	(51 x 66-3/4 x 30-1/8) x 2
	Shipping Dimensions		W x H x D	mm	1,928 x 1,887 x 829	1,928 x 1,887 x 829	(1,363 x 1,887 x 829) x 2
in				75-7/8 x 74-5/16 x 32-5/8	75-7/8 x 74-5/16 x 32-5/8	(53-11/16 x 74-5/16 x 32-5/8) x 1 + (53-11/16 x 74-5/16 x 32-5/8) x 1	
7) Operating Temp. Range	Cooling	Min. ~ Max.	°F	5 ~ 126	5 ~ 126	5 ~ 126	
	Heating	Min. ~ Max.	°F	-22 ~ 75	-22 ~ 75	-22 ~ 75	

NOTE

- Specification may be subject to change without prior notice.
 - Nominal capacities are based on (Equivalent refrigerant piping : 25ft, Level differences : 0ft);
 - Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
 - Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
 - The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. VRF design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
 - If outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
(If the level difference is higher than 164ft, the PDM kit should be installed) *PDM kit: Pressure Drop Modulation kit
 - These products contain R32 which is fluorinated greenhouse gas.
 - Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
 - Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound values are obtained in an anechoic room.
 - Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions. (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50% capacity of the connected indoor units must be operated.)
However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (208~230V)

Model Name				VPD288S6M-5Y	VPD312S6M-5Y	VPD336S6M-5Y	
Outdoor unit module 1				VPD096S6M-5Y	VPD096S6M-5Y	VPD096S6M-5Y	
Outdoor unit module 2				VPD192S6M-5Y	VPD216S6M-5Y	VPD240S6M-5Y	
Outdoor unit module 3				-	-	-	
Power Supply			Φ # V Hz	3 3 208-230 60	3 3 208-230 60	3 3 208-230 60	
Mode			-	Heat Pump	Heat Pump	Heat Pump	
Performance	TON		TON	24	26	28	
	Capacity	Cooling	1) Nominal	Btu/h	288,000	312,000	336,000
			Rated	Btu/h	276,000	298,000	320,000
		Heating	1) Nominal	Btu/h	324,000	351,000	378,000
Rated			Btu/h	309,000	335,000	361,000	
Maximum number of connectable indoor units			EA	49	54	58	
2) Total capacity of the connected indoor Units		Min.	Btu/h	144,000	156,000	168,000	
		Max.	Btu/h	374,400	405,600	436,800	
Power	Current	MCA	A	96.0	100.0	104.0	
		MOP	A	-	-	-	
Efficiency	Cooling	EER	Ducted	Btu/h-W	10.75	10.45	10.20
			NonDucted	Btu/h-W	10.25	9.75	9.65
		IEER	Ducted	Btu/h-W	20.04	19.62	19.42
			NonDucted	Btu/h-W	22.70	21.15	22.05
			Mixed	Btu/h-W	21.37	20.39	20.74
		Heating	High COP(47F)	Ducted	W/W	3.55	3.50
	NonDucted			W/W	3.33	3.31	3.30
	Mixed			W/W	3.44	3.41	3.38
	Low COP(17F)		Ducted	W/W	2.41	2.36	2.31
			NonDucted	W/W	2.26	2.32	2.46
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	
	Material	Fin	-	Al	Al	Al	
		Tube	-	Cu	Cu	Cu	
Fin Treatment		-	-	Anti-corrosion	Anti-corrosion	Anti-corrosion	
Compressor	Model Name		-	(DS2BD7046EVAx2)x1 +(DS4BC5066EVAx2)x1	(DS2BD7046EVAx2)x1 +(DS4BC5066EVAx2)x1	(DS2BD7046EVAx2)x1 +(DS4BC5066EVAx2)x1	
	Quantity		EA	2x1+2x1	2x1+2x1	2x1+2x1	
	Type		-	(SCROLL_INVERTERx2)x1 +(SCROLL_INVERTERx2)x1	(SCROLL_INVERTERx2)x1 +(SCROLL_INVERTERx2)x1	(SCROLL_INVERTERx2)x1 +(SCROLL_INVERTERx2)x1	
	Output		kW	(4.95x2)x1+(7.17x2)x1	(4.95x2)x1+(7.17x2)x1	(4.95x2)x1+(7.17x2)x1	
	Oil	Type	-	POE	POE	POE	
		Initial Charge	fl oz	(30.4x2)x1+(37.2x2)x1	(30.4x2)x1+(37.2x2)x1	(30.4x2)x1+(37.2x2)x1	
Fan	Type		-	Propeller	Propeller	Propeller	
	Discharge direction		-	Top discharge	Top discharge	Top discharge	
	Quantity		EA	4	4	4	
	Air Flow Rate		CFM	9,924x1+12,855x1	9,924x1+13,314x1	9,924x1+13,773x1	
	External Static Pressure		Pa	-	-	-	
Fan Motor	Type		-	BLDC	BLDC	BLDC	
	Output	W	(620x2)x1+(630x2)x1	(620x2)x1+(630x2)x1	(620x2)x1+(630x2)x1		
		kW	(0.62x2)x1+(0.63x2)x1	(0.62x2)x1+(0.63x2)x1	(0.62x2)x1+(0.63x2)x1		
3) Piping Connections	Liquid Pipe	Type	-	Welding	Welding	Welding	
		Diameter	in	5/8	5/8	5/8	

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (208~230V)

Model Name				VPD288S6M-5Y	VPD312S6M-5Y	VPD336S6M-5Y	
Outdoor unit module 1				VPD096S6M-5Y	VPD096S6M-5Y	VPD096S6M-5Y	
Outdoor unit module 2				VPD192S6M-5Y	VPD216S6M-5Y	VPD240S6M-5Y	
Outdoor unit module 3				-	-	-	
3) Piping Connections	Gas Pipe	Type	-	Welding	Welding	Welding	
		Diameter	in	1-3/8	1-3/8	1-3/8	
	Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Total piping length (System)		Max.	ft	3,281	3,281	3,281
	Piping length (1st Branch-IDU)		Max.	ft	295	295	295
	Piping length (ODU-IDU)		Max.	ft	656	656	656
	Piping length (ODU-IDU)	Equivalent	Max.	ft	722	722	722
			Level difference (IDU-IDU)	Max.	ft	164	164
	Level difference (ODU in highest position)		Max.	ft	361	361	361
	Level difference (IDU in highest position)		Max.	ft	361	361	361
Wiring Connection	Transmission Cable	Min.	AWG	18	18	18	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	4) Type		-	R32	R32	R32	
	Factory Charge		lbs	36.1	39.9	39.9	
Sound Level	5) Sound Pressure Level		Cooling	dB(A)	64	65	67
			Heating	dB(A)	67	68	69
	6) Sound Power Level		Cooling	dB(A)	86	86	87
External Dimension	Net Weight		lbs	551x1+818x1	551x1+836x1	551x1+836x1	
	Shipping Weight		lbs	589x1+875x1	589x1+893x1	589x1+893x1	
	Net Dimensions		W x H x D	mm	(1,295 x 1,695 x 765) x 1 +(1,860 x 1,695 x 765) x 1	(1,295 x 1,695 x 765) x 1 +(1,860 x 1,695 x 765) x 1	(1,295 x 1,695 x 765) x 1 +(1,860 x 1,695 x 765) x 1
				in	(51 x 66-3/4 x 30-1/8) x 1 +(73-1/4 x 66-3/4 x 30-1/8) x 1	(51 x 66-3/4 x 30-1/8) x 1 +(73-1/4 x 66-3/4 x 30-1/8) x 1	(51 x 66-3/4 x 30-1/8) x 1 +(73-1/4 x 66-3/4 x 30-1/8) x 1
	Shipping Dimensions		W x H x D	mm	(1,363 x 1,887 x 829) x 1 +(1,928 x 1,887 x 829) x 1	(1,363 x 1,887 x 829) x 1 +(1,928 x 1,887 x 829) x 1	(1,363 x 1,887 x 829) x 1 +(1,928 x 1,887 x 829) x 1
				in	(53-11/16 x 74-5/16 x 32-5/8) x 1 +(75-7/8 x 74-5/16 x 32-5/8) x 1	(53-11/16 x 74-5/16 x 32-5/8) x 1 +(75-7/8 x 74-5/16 x 32-5/8) x 1	(53-11/16 x 74-5/16 x 32-5/8) x 1 +(75-7/8 x 74-5/16 x 32-5/8) x 1
7) Operating Temp. Range	Cooling	Min. ~ Max.	°F	5 ~ 126	5 ~ 126	5 ~ 126	
	Heating	Min. ~ Max.	°F	-22 ~ 75	-22 ~ 75	-22 ~ 75	

NOTE

- Specification may be subject to change without prior notice.
 - Nominal capacities are based on (Equivalent refrigerant piping : 25ft, Level differences : 0ft);
 - Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
 - Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
 - The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. VRF design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
 - If outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
(If the level difference is higher than 164ft, the PDM kit should be installed) *PDM kit: Pressure Drop Modulation kit
 - These products contain R32 which is fluorinated greenhouse gas.
 - Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
 - Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound values are obtained in an anechoic room.
 - Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions. (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50% capacity of the connected indoor units must be operated.)
However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (208~230V)

Model Name				VPD360S6M-5Y	VPD384S6M-5Y	VPD408S6M-5Y
Outdoor unit module 1				VPD120S6M-5Y	VPD192S6M-5Y	VPD192S6M-5Y
Outdoor unit module 2				VPD240S6M-5Y	VPD192S6M-5Y	VPD216S6M-5Y
Outdoor unit module 3				-	-	-
Power Supply			Φ # V Hz	3 3 208-230 60	3 3 208-230 60	3 3 208-230 60
Mode			-	Heat Pump	Heat Pump	Heat Pump
Performance			TON	30	32	34
Capacity	Cooling	1) Nominal	Btu/h	360,000	384,000	408,000
		Rated	Btu/h	342,000	368,000	390,000
	Heating	1) Nominal	Btu/h	405,000	432,000	459,000
		Rated	Btu/h	387,000	412,000	438,000
Maximum number of connectable indoor units			EA	62	64	64
2) Total capacity of the connected indoor Units			Min.	Btu/h	180,000	192,000
			Max.	Btu/h	468,000	499,200
Power	Current	MCA	A	108.8	120.0	124.0
		MOP	A	-	-	-
Efficiency	Cooling	EER	Ducted	Btu/h-W	9.65	9.60
			NonDucted	Btu/h-W	9.45	9.60
		IEER	Ducted	Btu/h-W	18.93	17.68
			NonDucted	Btu/h-W	21.86	19.47
			Mixed	Btu/h-W	20.40	18.58
		Heating	High COP(47F)	Ducted	W/W	3.40
	NonDucted			W/W	3.24	3.30
	Mixed			W/W	3.32	3.30
	Low COP(17F)		Ducted	W/W	2.30	2.35
	NonDucted	W/W	2.33	2.20		
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type	-	-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	-	Cu	Cu
Fin Treatment		-	-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Model Name		-	(DS2BD7046EVAx2)x1 +(DS4BC5066EVAx2)x1	(DS4BC5066EVAx2)x2	(DS4BC5066EVAx2)x2
	Quantity		EA	2x1+2x1	2x2	2x1+2x1
	Type		-	(SCROLL_INVERTERx2)x1 +(SCROLL_INVERTERx2)x1	(SCROLL_INVERTERx2)x2	(SCROLL_INVERTERx2)x1 +(SCROLL_INVERTERx2)x1
	Output		kW	(4.95x2)x1+(7.17x2)x1	(7.17x2)x2	(7.17x2)x2
	Oil	Type	-	-	POE	POE
Initial Charge		fl oz	(30.4x2)x1+(37.2x2)x1	(37.2x2)x2	(37.2x2)x2	
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top discharge	Top discharge	Top discharge
	Quantity		EA	4	4	4
	Air Flow Rate		CFM	9,924x1+13,773x1	12,855x2	12,855x1+13,314x1
	External Static Pressure		Pa	-	-	-
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output		W	(620x2)x1+(630x2)x1	(630x2)x2	(630x2)x2
		kW	(0.62x2)x1+(0.63x2)x1	(0.63x2)x2	(0.63x2)x2	
3) Piping Connections	Liquid Pipe	Type	-	Welding	Welding	Welding
		Diameter	in	5/8	5/8	5/8

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (208~230V)

Model Name				VPD360S6M-5Y	VPD384S6M-5Y	VPD408S6M-5Y	
Outdoor unit module 1				VPD120S6M-5Y	VPD192S6M-5Y	VPD192S6M-5Y	
Outdoor unit module 2				VPD240S6M-5Y	VPD192S6M-5Y	VPD216S6M-5Y	
Outdoor unit module 3				-	-	-	
3) Piping Connections	Gas Pipe	Type	-	Welding	Welding	Welding	
		Diameter	in	1-3/8	1-3/8	1-3/8	
	Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Total piping length (System)		Max.	ft	3,281	3,281	3,281
	Piping length (1st Branch-IDU)		Max.	ft	295	295	295
	Piping length (ODU-IDU)		Max.	ft	656	656	656
	Piping length (ODU-IDU)	Equivalent	Max.	ft	722	722	722
			Level difference (IDU-IDU)	Max.	ft	164	164
	Level difference (ODU in highest position)		Max.	ft	361	361	361
	Level difference (IDU in highest position)		Max.	ft	361	361	361
Wiring Connection	Transmission Cable	Min.	AWG	18	18	18	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	4) Type		-	R32	R32	R32	
	Factory Charge		lbs	39.9	44.0	47.8	
Sound Level	5) Sound Pressure Level		Cooling	dB(A)	67	66	67
			Heating	dB(A)	69	69	70
	6) Sound Power Level		Cooling	dB(A)	87	88	88
External Dimension	Net Weight		lbs	551x1+836x1	818x2	818x1+836x1	
	Shipping Weight		lbs	589x1+893x1	875x2	875x1+893x1	
	Net Dimensions		W x H x D	mm	(1,295 x 1,695 x 765) x 1 +(1,860 x 1,695 x 765) x 1	(1,860 x 1,695 x 765) x 2	(1,860 x 1,695 x 765) x 1 +(1,860 x 1,695 x 765) x 1
				in	(51 x 66-3/4 x 30-1/8) x 1 +(73-1/4 x 66-3/4 x 30-1/8) x 1	(73-1/4 x 66-3/4 x 30-1/8) x 2	(73-1/4 x 66-3/4 x 30-1/8) x 1 +(73-1/4 x 66-3/4 x 30-1/8) x 1
	Shipping Dimensions		W x H x D	mm	(1,363 x 1,887 x 829) x 1 +(1,928 x 1,887 x 829) x 1	(1,928 x 1,887 x 829) x 2	(1,928 x 1,887 x 829) x 1 +(1,928 x 1,887 x 829) x 1
				in	(53-11/16 x 74-5/16 x 32-5/8) x 1 +(75-7/8 x 74-5/16 x 32-5/8) x 1	(75-7/8 x 74-5/16 x 32-5/8) x 2	(75-7/8 x 74-5/16 x 32-5/8) x 1 +(75-7/8 x 74-5/16 x 32-5/8) x 1
7) Operating Temp. Range	Cooling	Min. ~ Max.	°F	5 ~ 126	5 ~ 126	5 ~ 126	
	Heating	Min. ~ Max.	°F	-22 ~ 75	-22 ~ 75	-22 ~ 75	

NOTE

- Specification may be subject to change without prior notice.
 - Nominal capacities are based on (Equivalent refrigerant piping : 25ft, Level differences : 0ft);
 - Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
 - Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
 - The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. VRF design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
 - If outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
(If the level difference is higher than 164ft, the PDM kit should be installed) *PDM kit: Pressure Drop Modulation kit
 - These products contain R32 which is fluorinated greenhouse gas.
 - Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
 - Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound values are obtained in an anechoic room.
 - Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions. (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50% capacity of the connected indoor units must be operated.)
However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (208~230V)

Model Name		VPD432S6M-5Y		VPD456S6M-5Y		
Outdoor unit module 1		VPD120S6M-5Y		VPD120S6M-5Y		
Outdoor unit module 2		VPD120S6M-5Y		VPD144S6M-5Y		
Outdoor unit module 3		VPD192S6M-5Y		VPD192S6M-5Y		
Power Supply			Φ # V Hz	3 3 208-230 60		
Mode			-	Heat Pump		
Performance	TON		TON	36		
	Capacity	Cooling	1) Nominal	Btu/h	432,000	456,000
			Rated	Btu/h	412,000	436,000
		Heating	1) Nominal	Btu/h	486,000	513,000
			Rated	Btu/h	464,000	489,000
Maximum number of connectable indoor units			EA	64		
2) Total capacity of the connected indoor Units		Min.	Btu/h	216,000		
		Max.	Btu/h	561,600		
Power	Current	MCA	A	141.6		
		MOP	A	-		
Efficiency	Cooling	EER	Ducted	Btu/h-W	9.15	9.10
			NonDucted	Btu/h-W	8.85	9.10
		IEER	Ducted	Btu/h-W	17.84	17.00
			NonDucted	Btu/h-W	18.32	18.02
			Mixed	Btu/h-W	18.08	17.51
		Heating	High COP(47F)	Ducted	W/W	3.25
	NonDucted			W/W	3.30	3.29
	Mixed			W/W	3.28	3.25
	Low COP(17F)		Ducted	W/W	2.35	2.25
			NonDucted	W/W	2.17	2.10
Casing	Material	Body	-	GI Steel Plate		
		Base	-	GI Steel Plate		
Heat Exchanger	Type		-	Fin & Tube		
	Material	Fin	-	Al		
		Tube	-	Cu		
	Fin Treatment		-	Anti-corrosion		
Compressor	Model Name		-	(DS2BD7046EVAx2)x2 + (DS4BC5066EVAx2)x1		
	Quantity		EA	2x2+2x1		
	Type		-	(SCROLL_INVERTERx2)x2 + (SCROLL_INVERTERx2)x1		
	Output		kW	(4.95x2)x2+(7.17x2)x1		
	Oil	Type	-	POE		
		Initial Charge	fl oz	(30.4x2)x2+(37.2x2)x1		
Fan	Type		-	Propeller		
	Discharge direction		-	Top discharge		
	Quantity		EA	6		
	Air Flow Rate		CFM	9,924x2+12,855x1		
	External Static Pressure		Pa	-		
Fan Motor	Type		-	BLDC		
	Output	W	(620x2)x2+(630x2)x1			
		kW	(0.62x2)x2+(0.63x2)x1			
3) Piping Connections	Liquid Pipe	Type	-	Welding		
		Diameter	in	3/4		

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (208~230V)

Model Name				VPD432S6M-5Y	VPD456S6M-5Y		
Outdoor unit module 1				VPD120S6M-5Y	VPD120S6M-5Y		
Outdoor unit module 2				VPD120S6M-5Y	VPD144S6M-5Y		
Outdoor unit module 3				VPD192S6M-5Y	VPD192S6M-5Y		
3) Piping Connections	Gas Pipe	Type	-	Welding	Welding		
		Diameter	in	1-5/8	1-5/8		
	Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	
	Total piping length (System)		Max.	ft	3,281	3,281	
	Piping length (1st Branch-IDU)		Max.	ft	295	295	
	Piping length (ODU-IDU)		Max.	ft	656	656	
	Piping length (ODU-IDU)	Equivalent	Max.	ft	722	722	
							Level difference (IDU-IDU)
	Level difference (ODU in highest position)			Max.	ft	361	361
	Level difference (IDU in highest position)			Max.	ft	361	361
Wiring Connection	Transmission Cable	Min.	AWG	18	18		
		Remark	-	F1, F2	F1, F2		
Refrigerant	4) Type			-	R32	R32	
	Factory Charge			lbs	50.2	54.6	
Sound Level	5) Sound Pressure Level		Cooling	dB(A)	65	65	
			Heating	dB(A)	68	68	
	6) Sound Power Level		Cooling	dB(A)	87	87	
External Dimension	Net Weight			lbs	551x2+818x1	551x1+591x1+818x1	
	Shipping Weight			lbs	589x2+875x1	589x1+628x1+875x1	
	Net Dimensions		W x H x D	mm	(1,295 x 1,695 x 765) x 2 +(1,860 x 1,695 x 765) x 1	(1,295 x 1,695 x 765) x 2 +(1,860 x 1,695 x 765) x 1	
				in	(51 x 66-3/4 x 30-1/8) x 2 +(73-1/4 x 66-3/4 x 30-1/8) x 1	(51 x 66-3/4 x 30-1/8) x 2 +(73-1/4 x 66-3/4 x 30-1/8) x 1	
	Shipping Dimensions		W x H x D	mm	(1,363 x 1,887 x 829) x 2 +(1,928 x 1,887 x 829) x 1	(1,363 x 1,887 x 829) x 2 +(1,928 x 1,887 x 829) x 1	
				in	(53-11/16 x 74-5/16 x 32-5/8) x 2 +(75-7/8 x 74-5/16 x 32-5/8) x 1	(53-11/16 x 74-5/16 x 32-5/8) x 2 +(75-7/8 x 74-5/16 x 32-5/8) x 1	
7) Operating Temp. Range	Cooling	Min. ~ Max.	°F	5 ~ 126	5 ~ 126		
	Heating	Min. ~ Max.	°F	-22 ~ 75	-22 ~ 75		

NOTE

- Specification may be subject to change without prior notice.
 - Nominal capacities are based on (Equivalent refrigerant piping : 25ft, Level differences : 0ft);
 - Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
 - Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
 - The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. VRF design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
 - If outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
(If the level difference is higher than 164ft, the PDM kit should be installed) *PDM kit: Pressure Drop Modulation kit
 - These products contain R32 which is fluorinated greenhouse gas.
 - Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
 - Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound values are obtained in an anechoic room.
 - Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions. (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50% capacity of the connected indoor units must be operated.)
However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (460V)

Model Name				VPD072S6M-5G	VPD096S6M-5G	VPD120S6M-5G	
Outdoor unit module 1				-	-	-	
Outdoor unit module 2				-	-	-	
Outdoor unit module 3				-	-	-	
Power Supply			Φ # V Hz	3 3 460 60	3 3 460 60	3 3 460 60	
Mode			-	Heat Pump	Heat Pump	Heat Pump	
Performance	TON		TON	6	8	10	
	Capacity	Cooling	1) Nominal	Btu/h	72,000	96,000	120,000
			Rated	Btu/h	69,000	92,000	114,000
		Heating	1) Nominal	Btu/h	81,000	108,000	135,000
			Rated	Btu/h	77,000	103,000	129,000
Maximum number of connectable indoor units			EA	12	16	20	
2) Total capacity of the connected indoor Units			Min.	Btu/h	36,000	48,000	60,000
			Max.	Btu/h	93,600	124,800	156,000
Power	Current	MCA	A	15.0	18.0	19.4	
		MOP	A	20	20	25	
Efficiency	Cooling	EER	Ducted	Btu/h-W	11.60	12.20	11.70
			NonDucted	Btu/h-W	11.00	12.15	11.15
		IEER	Ducted	Btu/h-W	23.30	24.10	22.60
			NonDucted	Btu/h-W	24.18	27.98	25.92
			Mixed	Btu/h-W	23.74	26.04	24.26
		Heating	High COP(47F)	Ducted	W/W	3.90	3.94
	NonDucted			W/W	3.93	4.21	3.85
	Mixed			W/W	3.92	4.08	3.83
	Low COP(17F)		Ducted	W/W	2.84	2.75	2.80
			NonDucted	W/W	2.70	2.92	2.81
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	
	Material	Fin	-	Al	Al	Al	
		Tube	-	Cu	Cu	Cu	
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion	
Compressor	Model Name		-	DS2BD7046FVA	DS2BD7046FVA	DS2BD7046FVA	
	Quantity		EA	1	2	2	
	Type		-	SCROLL_INVERTER	SCROLL_INVERTER	SCROLL_INVERTER	
	Output		kW	4.95	4.95	4.95	
	Oil	Type	-	POE	POE	POE	
		Initial Charge	fl oz	30.4	30.4	30.4	
Fan	Type		-	Propeller	Propeller	Propeller	
	Discharge direction		-	Top discharge	Top discharge	Top discharge	
	Quantity		EA	1	2	2	
	Air Flow Rate		CFM	5,580	9,924	9,924	
	External Static Pressure		Pa	110	110	110	
Fan Motor	Type		-	BLDC	BLDC	BLDC	
	Output		W	630	620	620	
			kW	0.63	0.62	0.62	
3) Piping Connections	Liquid Pipe	Type	-	Welding	Welding	Welding	
		Diameter	in	3/8	3/8	1/2	

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (460V)

Model Name				VPD072S6M-5G	VPD096S6M-5G	VPD120S6M-5G	
Outdoor unit module 1				-	-	-	
Outdoor unit module 2				-	-	-	
Outdoor unit module 3				-	-	-	
3) Piping Connections	Gas Pipe	Type	-	Welding	Welding	Welding	
		Diameter	in	3/4	7/8	7/8	
	Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Total piping length (System)		Max.	ft	3,281	3,281	3,281
	Piping length (1st Branch-IDU)		Max.	ft	295	295	295
	Piping length (ODU-IDU)		Max.	ft	656	656	656
	Piping length (ODU-IDU)	Equivalent	Max.	ft	722	722	722
			Level difference (IDU-IDU)	Max.	ft	164	164
	Level difference (ODU in highest position)		Max.	ft	361	361	361
	Level difference (IDU in highest position)		Max.	ft	361	361	361
Wiring Connection	Transmission Cable	Min.	AWG	18	18	18	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	4) Type			-	R32	R32	R32
	Factory Charge			lbs	11.0	14.1	14.1
Sound Level	5) Sound Pressure Level		Cooling	dB(A)	54	57	57
			Heating	dB(A)	58	59	60
	6) Sound Power Level		Cooling	dB(A)	75	79	79
External Dimension	Net Weight			lbs	399	569	569
	Shipping Weight			lbs	430	606	606
	Net Dimensions		W x H x D	mm	930 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765
				in	36-5/8 x 66-3/4 x 30-1/8	51 x 66-3/4 x 30-1/8	51 x 66-3/4 x 30-1/8
	Shipping Dimensions		W x H x D	mm	998 x 1,887 x 829	1,363 x 1,887 x 829	1,363 x 1,887 x 829
in				39-5/16 x 74-5/16 x 32-5/8	53-11/16 x 74-5/16 x 32-5/8	53-11/16 x 74-5/16 x 32-5/8	
7) Operating Temp. Range	Cooling	Min. ~ Max.	°F	5 ~ 126	5 ~ 126	5 ~ 126	
	Heating	Min. ~ Max.	°F	-22 ~ 75	-22 ~ 75	-22 ~ 75	

NOTE

- Specification may be subject to change without prior notice.
 - Nominal capacities are based on (Equivalent refrigerant piping : 25ft, Level differences : 0ft);
 - Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
 - Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
 - The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. VRF design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
 - If outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
(If the level difference is higher than 164ft, the PDM kit should be installed) *PDM kit: Pressure Drop Modulation kit
 - These products contain R32 which is fluorinated greenhouse gas.
 - Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
 - Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound values are obtained in an anechoic room.
 - Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions. (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50% capacity of the connected indoor units must be operated.)
However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (460V)

Model Name				VPD144S6M-5G	VPD168S6M-5G	VPD192S6M-5G	
Outdoor unit module 1				-	-	-	
Outdoor unit module 2				-	-	-	
Outdoor unit module 3				-	-	-	
Power Supply			Φ # V Hz	3 3 460 60	3 3 460 60	3 3 460 60	
Mode			-	Heat Pump	Heat Pump	Heat Pump	
Performance	TON		TON	12	14	16	
	Capacity	Cooling	1) Nominal	Btu/h	144,000	168,000	192,000
			Rated	Btu/h	138,000	160,000	184,000
		Heating	1) Nominal	Btu/h	162,000	189,000	216,000
			Rated	Btu/h	154,000	180,000	206,000
Maximum number of connectable indoor units			EA	25	29	33	
2) Total capacity of the connected indoor Units			Min.	Btu/h	72,000	84,000	96,000
			Max.	Btu/h	187,200	218,400	249,600
Power	Current	MCA	A	26.2	29.0	34.0	
		MOP	A	35	35	40	
Efficiency	Cooling	EER	Ducted	Btu/h-W	11.80	10.60	11.00
			NonDucted	Btu/h-W	11.30	10.15	10.20
		IEER	Ducted	Btu/h-W	22.19	21.19	22.10
			NonDucted	Btu/h-W	25.16	22.91	22.50
			Mixed	Btu/h-W	23.68	22.05	22.30
		Heating	High COP(47F)	Ducted	W/W	3.68	3.67
	NonDucted			W/W	3.65	3.55	3.20
	Mixed			W/W	3.67	3.61	3.38
	Low COP(17F)		Ducted	W/W	2.70	2.56	2.65
			NonDucted	W/W	2.69	2.51	2.22
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	
	Material	Fin	-	Al	Al	Al	
		Tube	-	Cu	Cu	Cu	
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion	
Compressor	Model Name		-	DS2BD7046FVA	DS4BC7066FVA	DS4BC7066FVA	
	Quantity		EA	2	2	2	
	Type		-	SCROLL_INVERTER	SCROLL_INVERTER	SCROLL_INVERTER	
	Output		kW	4.95	7.17	7.17	
	Oil	Type	-	POE	POE	POE	
		Initial Charge	fl oz	30.4	37.2	37.2	
Fan	Type		-	Propeller	Propeller	Propeller	
	Discharge direction		-	Top discharge	Top discharge	Top discharge	
	Quantity		EA	2	2	2	
	Air Flow Rate		CFM	10,171	10,665	12,855	
	External Static Pressure		Pa	110	110	80	
Fan Motor	Type		-	BLDC	BLDC	BLDC	
	Output		W	620	620	630	
			kW	0.62	0.62	0.63	
3) Piping Connections	Liquid Pipe	Type	-	Welding	Welding	Welding	
		Diameter	in	1/2	1/2	1/2	

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (460V)

Model Name				VPD144S6M-5G	VPD168S6M-5G	VPD192S6M-5G	
Outdoor unit module 1				-	-	-	
Outdoor unit module 2				-	-	-	
Outdoor unit module 3				-	-	-	
3) Piping Connections	Gas Pipe	Type	-	Welding	Welding	Welding	
		Diameter	in	1-1/8	1-1/8	1-1/8	
	Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Total piping length (System)		Max.	ft	3,281	3,281	3,281
	Piping length (1st Branch-IDU)		Max.	ft	295	295	295
	Piping length (ODU-IDU)		Max.	ft	656	656	656
	Piping length (ODU-IDU)	Equivalent	Max.	ft	722	722	722
			Level difference (IDU-IDU)	Max.	ft	164	164
	Level difference (ODU in highest position)		Max.	ft	361	361	361
	Level difference (IDU in highest position)		Max.	ft	361	361	361
Wiring Connection	Transmission Cable	Min.	AWG	18	18	18	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	4) Type		-	R32	R32	R32	
	Factory Charge		lbs	18.5	18.5	22.0	
Sound Level	5) Sound Pressure Level		Cooling	dB(A)	60	60	63
			Heating	dB(A)	63	63	66
	6) Sound Power Level		Cooling	dB(A)	81	83	85
External Dimension	Net Weight		lbs	608	659	829	
	Shipping Weight		lbs	646	697	886	
	Net Dimensions		W x H x D	mm	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,860 x 1,695 x 765
				in	51 x 66-3/4 x 30-1/8	51 x 66-3/4 x 30-1/8	73-1/4 x 66-3/4 x 30-1/8
	Shipping Dimensions		W x H x D	mm	1,363 x 1,887 x 829	1,363 x 1,887 x 829	1,928 x 1,887 x 829
in				53-11/16 x 74-5/16 x 32-5/8	53-11/16 x 74-5/16 x 32-5/8	75-7/8 x 74-5/16 x 32-5/8	
7) Operating Temp. Range	Cooling	Min. ~ Max.	°F	5 ~ 126	5 ~ 126	5 ~ 126	
	Heating	Min. ~ Max.	°F	-22 ~ 75	-22 ~ 75	-22 ~ 75	

NOTE

- Specification may be subject to change without prior notice.
 - Nominal capacities are based on (Equivalent refrigerant piping : 25ft, Level differences : 0ft);
 - Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
 - Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
 - The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. VRF design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
 - If outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
(If the level difference is higher than 164ft, the PDM kit should be installed) *PDM kit: Pressure Drop Modulation kit
 - These products contain R32 which is fluorinated greenhouse gas.
 - Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
 - Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound values are obtained in an anechoic room.
 - Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions. (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50% capacity of the connected indoor units must be operated.)
However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (460V)

Model Name				VPD216S6M-5G	VPD240S6M-5G	VPD264S6M-5G	
Outdoor unit module 1				-	-	VPD096S6M-5G	
Outdoor unit module 2				-	-	VPD168S6M-5G	
Outdoor unit module 3				-	-	-	
Power Supply			Φ # V Hz	3 3 460 60	3 3 460 60	3 3 460 60	
Mode			-	Heat Pump	Heat Pump	Heat Pump	
Performance	TON		TON	18	20	22	
	Capacity	Cooling	1) Nominal	Btu/h	216,000	240,000	264,000
			Rated	Btu/h	206,000	228,000	252,000
		Heating	1) Nominal	Btu/h	243,000	270,000	297,000
			Rated	Btu/h	232,000	258,000	283,000
Maximum number of connectable indoor units			EA	37	41	45	
2) Total capacity of the connected indoor Units			Min.	Btu/h	108,000	120,000	
			Max.	Btu/h	280,800	312,000	
Power	Current	MCA	A	38.0	40.0	47.0	
		MOP	A	50	50	-	
Efficiency	Cooling	EER	Ducted	Btu/h-W	10.15	9.95	10.85
			NonDucted	Btu/h-W	10.10	9.90	10.55
		IEER	Ducted	Btu/h-W	20.60	20.30	19.18
			NonDucted	Btu/h-W	21.50	21.44	21.76
			Mixed	Btu/h-W	21.05	20.87	20.47
		Heating	High COP(47F)	Ducted	W/W	3.45	3.25
	NonDucted			W/W	3.20	3.24	3.49
	Mixed			W/W	3.33	3.25	3.55
	Low COP(17F)		Ducted	W/W	2.60	2.45	2.41
	NonDucted	W/W	2.18	2.39	2.44		
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	
	Material	Fin	-	Al	Al	Al	
		Tube	-	Cu	Cu	Cu	
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion	
Compressor	Model Name		-	DS4BC7066FVA	DS4BC7066FVA	(DS2BD7046FVAX2)x1 +(DS4BC7066FVAX2)x1	
	Quantity		EA	2	2	2x1+2x1	
	Type		-	SCROLL_INVERTER	SCROLL_INVERTER	(SCROLL_INVERTERx2)x1 +(SCROLL_INVERTERx2)x1	
	Output		kW	717	717	(4.95x2)x1+(7.17x2)x1	
	Oil	Type	-	POE	POE	POE	
		Initial Charge	fl oz	37.2	37.2	(30.4x2)x1+(37.2x2)x1	
Fan	Type		-	Propeller	Propeller	Propeller	
	Discharge direction		-	Top discharge	Top discharge	Top discharge	
	Quantity		EA	2	2	4	
	Air Flow Rate		CFM	13,314	13,773	9,924x1+10,665x1	
	External Static Pressure		Pa	80	80	-	
Fan Motor	Type		-	BLDC	BLDC	BLDC	
	Output		W	630	630	(620x2)x1+(620x2)x1	
		kW	0.63	0.63	(0.62x2)x1+(0.62x2)x1		
3) Piping Connections	Liquid Pipe	Type	-	Welding	Welding	Welding	
		Diameter	in	1/2	1/2	5/8	

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (460V)

Model Name				VPD216S6M-5G	VPD240S6M-5G	VPD264S6M-5G	
Outdoor unit module 1				-	-	VPD096S6M-5G	
Outdoor unit module 2				-	-	VPD168S6M-5G	
Outdoor unit module 3				-	-	-	
3) Piping Connections	Gas Pipe	Type	-	Welding	Welding	Welding	
		Diameter	in	1-1/8	1-1/8	1-1/8	
	Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Total piping length (System)		Max.	ft	3,281	3,281	3,281
	Piping length (1st Branch-IDU)		Max.	ft	295	295	295
	Piping length (ODU-IDU)		Max.	ft	656	656	656
	Piping length (ODU-IDU)	Equivalent	Max.	ft	722	722	722
		Level difference (IDU-IDU)			Max.	ft	164
	Level difference (ODU in highest position)			Max.	ft	361	361
	Level difference (IDU in highest position)			Max.	ft	361	361
Wiring Connection	Transmission Cable	Min.	AWG	18	18	18	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	4) Type			-	R32	R32	R32
	Factory Charge			lbs	25.8	25.8	32.6
Sound Level	5) Sound Pressure Level		Cooling	dB(A)	64	66	62
			Heating	dB(A)	67	68	64
	6) Sound Power Level		Cooling	dB(A)	85	86.5	84
External Dimension	Net Weight			lbs	847	847	569x1+659x1
	Shipping Weight			lbs	904	904	606x1+697x1
	Net Dimensions		W x H x D	mm	1,860 x 1,695 x 765	1,860 x 1,695 x 765	(1,295 x 1,695 x 765) x 2
				in	73-1/4 x 66-3/4 x 30-1/8	73-1/4 x 66-3/4 x 30-1/8	(51 x 66-3/4 x 30-1/8) x 2
	Shipping Dimensions		W x H x D	mm	1928 x 1887 x 829	1928 x 1887 x 829	(1363 x 1887 x 829) x 2
in				75-7/8 x 74-5/16 x 32-5/8	75-7/8 x 74-5/16 x 32-5/8	(53-11/16 x 74-5/16 x 32-5/8) x 2	
7) Operating Temp. Range	Cooling	Min. ~ Max.	°F	5 ~ 126	5 ~ 126	5 ~ 126	
	Heating	Min. ~ Max.	°F	-22 ~ 75	-22 ~ 75	-22 ~ 75	

NOTE

- Specification may be subject to change without prior notice.
 - Nominal capacities are based on (Equivalent refrigerant piping : 25ft, Level differences : 0ft);
 - Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
 - Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
 - The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. VRF design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
 - If outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
(If the level difference is higher than 164ft, the PDM kit should be installed) *PDM kit: Pressure Drop Modulation kit
 - These products contain R32 which is fluorinated greenhouse gas.
 - Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
 - Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound values are obtained in an anechoic room.
 - Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions. (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50% capacity of the connected indoor units must be operated.)
However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (460V)

Model Name				VPD288S6M-5G	VPD312S6M-5G	VPD336S6M-5G	
Outdoor unit module 1				VPD096S6M-5G	VPD096S6M-5G	VPD096S6M-5G	
Outdoor unit module 2				VPD192S6M-5G	VPD216S6M-5G	VPD240S6M-5G	
Outdoor unit module 3				-	-	-	
Power Supply			Φ # V Hz	3 3 460 60	3 3 460 60	3 3 460 60	
Mode			-	Heat Pump	Heat Pump	Heat Pump	
Performance	TON		TON	24	26	28	
	Capacity	Cooling	1) Nominal	Btu/h	288,000	312,000	336,000
			Rated	Btu/h	276,000	298,000	320,000
		Heating	1) Nominal	Btu/h	324,000	351,000	378,000
			Rated	Btu/h	309,000	335,000	361,000
Maximum number of connectable indoor units			EA	49	54	58	
2) Total capacity of the connected indoor Units			Min.	Btu/h	144,000	156,000	
			Max.	Btu/h	374,400	405,600	436,800
Power	Current	MCA	A	52.0	56.0	58.0	
		MOP	A	-	-	-	
Efficiency	Cooling	EER	Ducted	Btu/h-W	10.75	10.45	10.20
			NonDucted	Btu/h-W	10.25	9.75	9.65
		IEER	Ducted	Btu/h-W	20.04	19.62	19.42
			NonDucted	Btu/h-W	22.70	21.15	22.05
			Mixed	Btu/h-W	21.37	20.39	20.74
		Heating	High COP(47F)	Ducted	W/W	3.55	3.50
	NonDucted			W/W	3.33	3.31	3.30
	Mixed			W/W	3.44	3.41	3.38
	Low COP(17F)		Ducted	W/W	2.41	2.36	2.31
	NonDucted	W/W	2.26	2.32	2.46		
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	
	Material	Fin	-	Al	Al	Al	
		Tube	-	Cu	Cu	Cu	
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion	
Compressor	Model Name		-	(DS2BD7046FVAX2)x1 + (DS4BC7066FVAX2)x1	(DS2BD7046FVAX2)x1 + (DS4BC7066FVAX2)x1	(DS2BD7046FVAX2)x1 + (DS4BC7066FVAX2)x1	
	Quantity		EA	2x1+2x1	2x1+2x1	2x1+2x1	
	Type		-	(SCROLL_INVERTERx2)x1 + (SCROLL_INVERTERx2)x1	(SCROLL_INVERTERx2)x1 + (SCROLL_INVERTERx2)x1	(SCROLL_INVERTERx2)x1 + (SCROLL_INVERTERx2)x1	
	Output		kW	(4.95x2)x1+(7.17x2)x1	(4.95x2)x1+(7.17x2)x1	(4.95x2)x1+(7.17x2)x1	
	Oil	Type	-	POE	POE	POE	
		Initial Charge	fl oz	(30.4x2)x1+(37.2x2)x1	(30.4x2)x1+(37.2x2)x1	(30.4x2)x1+(37.2x2)x1	
Fan	Type		-	Propeller	Propeller	Propeller	
	Discharge direction		-	Top discharge	Top discharge	Top discharge	
	Quantity		EA	4	4	4	
	Air Flow Rate		CFM	9,924x1+12,855x1	9,924x1+13,314x1	9,924x1+13,773x1	
	External Static Pressure		Pa	-	-	-	
Fan Motor	Type		-	BLDC	BLDC	BLDC	
	Output		W	(620x2)x1+(630x2)x1	(620x2)x1+(630x2)x1	(620x2)x1+(630x2)x1	
		kW	(0.62x2)x1+(0.63x2)x1	(0.62x2)x1+(0.63x2)x1	(0.62x2)x1+(0.63x2)x1		
3) Piping Connections	Liquid Pipe	Type	-	Welding	Welding	Welding	
		Diameter	in	5/8	5/8	5/8	

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (460V)

Model Name				VPD288S6M-5G	VPD312S6M-5G	VPD336S6M-5G	
Outdoor unit module 1				VPD096S6M-5G	VPD096S6M-5G	VPD096S6M-5G	
Outdoor unit module 2				VPD192S6M-5G	VPD216S6M-5G	VPD240S6M-5G	
Outdoor unit module 3				-	-	-	
3) Piping Connections	Gas Pipe	Type	-	Welding	Welding	Welding	
		Diameter	in	1-3/8	1-3/8	1-3/8	
	Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Total piping length (System)		Max.	ft	3,281	3,281	3,281
	Piping length (1st Branch-IDU)		Max.	ft	295	295	295
	Piping length (ODU-IDU)		Max.	ft	656	656	656
	Piping length (ODU-IDU)	Equivalent	Max.	ft	722	722	722
	Level difference (ODU in highest position)		Max.	ft	361	361	361
	Level difference (IDU in highest position)		Max.	ft	361	361	361
Wiring Connection	Transmission Cable	Min.	AWG	18	18	18	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	4) Type			-	R32	R32	R32
	Factory Charge			lbs	36.1	39.9	39.9
Sound Level	5) Sound Pressure Level		Cooling	dB(A)	64	65	67
			Heating	dB(A)	67	68	69
	6) Sound Power Level		Cooling	dB(A)	86	86	87
External Dimension	Net Weight			lbs	569x1+829x1	569x1+847x1	569x1+847x1
	Shipping Weight			lbs	606x1+886x1	606x1+904x1	606x1+904x1
	Net Dimensions		W x H x D	mm	(1,295 x 1,695 x 765) x 1 +(1,860 x 1,695 x 765) x 1	(1,295 x 1,695 x 765) x 1 +(1,860 x 1,695 x 765) x 1	(1,295 x 1,695 x 765) x 1 +(1,860 x 1,695 x 765) x 1
				in	(51 x 66-3/4 x 30-1/8) x 1 +(73-1/4 x 66-3/4 x 30-1/8) x 1	(51 x 66-3/4 x 30-1/8) x 1 +(73-1/4 x 66-3/4 x 30-1/8) x 1	(51 x 66-3/4 x 30-1/8) x 1 +(73-1/4 x 66-3/4 x 30-1/8) x 1
	Shipping Dimensions		W x H x D	mm	(1,363 x 1,887 x 829) x 1 +(1,928 x 1,887 x 829) x 1	(1,363 x 1,887 x 829) x 1 +(1,928 x 1,887 x 829) x 1	(1,363 x 1,887 x 829) x 1 +(1,928 x 1,887 x 829) x 1
				in	(53-11/16 x 74-5/16 x 32-5/8) x 1 +(75-7/8 x 74-5/16 x 32-5/8) x 1	(53-11/16 x 74-5/16 x 32-5/8) x 1 +(75-7/8 x 74-5/16 x 32-5/8) x 1	(53-11/16 x 74-5/16 x 32-5/8) x 1 +(75-7/8 x 74-5/16 x 32-5/8) x 1
7) Operating Temp. Range	Cooling	Min. ~ Max.	°F	5 ~ 126	5 ~ 126	5 ~ 126	
	Heating	Min. ~ Max.	°F	-22 ~ 75	-22 ~ 75	-22 ~ 75	

NOTE

- Specification may be subject to change without prior notice.
 - Nominal capacities are based on (Equivalent refrigerant piping : 25ft, Level differences : 0ft);
 - Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
 - Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
 - The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. VRF design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
 - If outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
 - (If the level difference is higher than 164ft, the PDM kit should be installed) *PDM kit: Pressure Drop Modulation kit
 - These products contain R32 which is fluorinated greenhouse gas.
 - Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
 - Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound values are obtained in an anechoic room.
 - Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions. (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50% capacity of the connected indoor units must be operated.)
 - However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (460V)

Model Name				VPD360S6M-5G	VPD384S6M-5G	VPD408S6M-5G	
Outdoor unit module 1				VPD120S6M-5G	VPD192S6M-5G	VPD192S6M-5G	
Outdoor unit module 2				VPD240S6M-5G	VPD192S6M-5G	VPD216S6M-5G	
Outdoor unit module 3				-	-	-	
Power Supply			Φ # V Hz	3 3 460 60	3 3 460 60	3 3 460 60	
Mode			-	Heat Pump	Heat Pump	Heat Pump	
Performance	TON		TON	30	32	34	
	Capacity	Cooling	1) Nominal	Btu/h	360,000	384,000	408,000
			Rated	Btu/h	342,000	368,000	390,000
		Heating	1) Nominal	Btu/h	405,000	432,000	459,000
			Rated	Btu/h	387,000	412,000	438,000
Maximum number of connectable indoor units			EA	62	64	64	
2) Total capacity of the connected indoor Units			Min.	Btu/h	180,000	192,000	
			Max.	Btu/h	468,000	499,200	
Power	Current	MCA	A	59.4	68.0	72.0	
		MOP	A	-	-	-	
Efficiency	Cooling	EER	Ducted	Btu/h-W	9.65	9.60	
			NonDucted	Btu/h-W	9.45	9.60	
		IEER	Ducted	Btu/h-W	18.93	17.68	
			NonDucted	Btu/h-W	21.86	19.47	
			Mixed	Btu/h-W	20.40	18.58	
		Heating	High COP(47F)	Ducted	W/W	3.40	3.30
	NonDucted			W/W	3.24	3.30	
	Mixed			W/W	3.32	3.30	
	Low COP(17F)		Ducted	W/W	2.30	2.35	
			NonDucted	W/W	2.33	2.20	
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	
	Material	Fin	-	Al	Al	Al	
		Tube	-	Cu	Cu	Cu	
Fin Treatment			-	Anti-corrosion	Anti-corrosion	Anti-corrosion	
Compressor	Model Name			-	(DS2BD7046FVAX2)x1 +(DS4BC7066FVAX2)x1	(DS4BC7066FVAX2)x2	
	Quantity			EA	2x1+2x1	2x2	
	Type			-	(SCROLL_INVERTERx2)x1 +(SCROLL_INVERTERx2)x1	(SCROLL_INVERTERx2)x2	
	Output			kW	(4.95x2)x1+(7.17x2)x1	(7.17x2)x2	
	Oil	Type	-	-	POE	POE	
Initial Charge		fl oz	(30.4x2)x1+(37.2x2)x1	(37.2x2)x2	(37.2x2)x1+(37.2x2)x1		
Fan	Type			-	Propeller	Propeller	
	Discharge direction			-	Top discharge	Top discharge	
	Quantity			EA	4	4	
	Air Flow Rate			CFM	9,924x1+13,773x1	12,855x2	
	External Static Pressure			Pa	-	-	
Fan Motor	Type			-	BLDC	BLDC	
	Output		W	(620x2)x1+(630x2)x1	(630x2)x2	(630x2)x1+(630x2)x1	
			kW	(0.62x2)x1+(0.63x2)x1	(0.63x2)x2	(0.63x2)x1+(0.63x2)x1	
3) Piping Connections	Liquid Pipe	Type	-	Welding	Welding		
		Diameter	in	5/8	5/8		

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (460V)

Model Name				VPD360S6M-5G	VPD384S6M-5G	VPD408S6M-5G	
Outdoor unit module 1				VPD120S6M-5G	VPD192S6M-5G	VPD192S6M-5G	
Outdoor unit module 2				VPD240S6M-5G	VPD192S6M-5G	VPD216S6M-5G	
Outdoor unit module 3				-	-	-	
3) Piping Connections	Gas Pipe	Type	-	Welding	Welding	Welding	
		Diameter	in	1-3/8	1-3/8	1-3/8	
	Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Total piping length (System)		Max.	ft	3,281	3,281	3,281
	Piping length (1st Branch-IDU)		Max.	ft	295	295	295
	Piping length (ODU-IDU)		Max.	ft	656	656	656
	Piping length (ODU-IDU)	Equivalent	Max.	ft	722	722	722
	Level difference (ODU in highest position)		Max.	ft	361	361	361
	Level difference (IDU in highest position)		Max.	ft	361	361	361
Wiring Connection	Transmission Cable	Min.	AWG	18	18	18	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	4) Type			-	R32	R32	R32
	Factory Charge			lbs	39.9	44.0	47.8
Sound Level	5) Sound Pressure Level		Cooling	dB(A)	67	66	67
			Heating	dB(A)	69	69	70
	6) Sound Power Level		Cooling	dB(A)	87	88	88
External Dimension	Net Weight			lbs	569x1+847x1	829x2	829x1+847x1
	Shipping Weight			lbs	606x1+904x1	886x2	886x1+904x1
	Net Dimensions		W x H x D	mm	(1,295 x 1,695 x 765) x 1 +(1,860 x 1,695 x 765) x 1	(1,860 x 1,695 x 765) x 2	(1,860 x 1,695 x 765) x 2
				in	(51 x 66-3/4 x 30-1/8) x 1 +(73-1/4 x 66-3/4 x 30-1/8) x 1	(73-1/4 x 66-3/4 x 30-1/8) x 2	(73-1/4 x 66-3/4 x 30-1/8) x 2
	Shipping Dimensions		W x H x D	mm	(1,363 x 1,887 x 829) x 1 +(1,928 x 1,887 x 829) x 1	(1,928 x 1,887 x 829) x 2	(1,928 x 1,887 x 829) x 2
				in	(53-11/16 x 74-5/16 x 32-5/8) x 1 +(75-7/8 x 74-5/16 x 32-5/8) x 1	(75-7/8 x 74-5/16 x 32-5/8) x 2	(75-7/8 x 74-5/16 x 32-5/8) x 2
7) Operating Temp. Range	Cooling	Min. ~ Max.	°F	5 ~ 126	5 ~ 126	5 ~ 126	
	Heating	Min. ~ Max.	°F	-22 ~ 75	-22 ~ 75	-22 ~ 75	

NOTE

- Specification may be subject to change without prior notice.
 - Nominal capacities are based on (Equivalent refrigerant piping : 25ft, Level differences : 0ft);
 - Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
 - Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
 - The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. VRF design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
 - If outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
(If the level difference is higher than 164ft, the PDM kit should be installed) *PDM kit: Pressure Drop Modulation kit
 - These products contain R32 which is fluorinated greenhouse gas.
 - Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
 - Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound values are obtained in an anechoic room.
 - Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions. (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50% capacity of the connected indoor units must be operated.)
However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (460V)

Model Name		VPD432S6M-5G		VPD456S6M-5G		
Outdoor unit module 1		VPD120S6M-5G		VPD120S6M-5G		
Outdoor unit module 2		VPD120S6M-5G		VPD144S6M-5G		
Outdoor unit module 3		VPD192S6M-5G		VPD192S6M-5G		
Power Supply			Φ # V Hz	3 3 460 60	3 3 460 60	
Mode			-	Heat Pump	Heat Pump	
Performance	TON		TON	36	38	
	Capacity	Cooling	1) Nominal	Btu/h	432,000	456,000
			Rated	Btu/h	412,000	436,000
		Heating	1) Nominal	Btu/h	486,000	513,000
			Rated	Btu/h	464,000	489,000
Maximum number of connectable indoor units			EA	64	64	
2) Total capacity of the connected indoor Units		Min.	Btu/h	216,000	228,000	
		Max.	Btu/h	561,600	592,800	
Power	Current	MCA	A	72.8	79.6	
		MOP	A	-	-	
Efficiency	Cooling	EER	Ducted	Btu/h-W	9.15	9.10
			NonDucted	Btu/h-W	8.85	9.10
		IEER	Ducted	Btu/h-W	17.84	17.00
			NonDucted	Btu/h-W	18.32	18.02
			Mixed	Btu/h-W	18.08	17.51
		Heating	High COP(47F)	Ducted	W/W	3.25
	NonDucted			W/W	3.30	3.29
	Mixed			W/W	3.28	3.25
	Low COP(17F)		Ducted	W/W	2.35	2.25
			NonDucted	W/W	2.17	2.10
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	
		Base	-	GI Steel Plate	GI Steel Plate	
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	
	Material	Fin	-	Al	Al	
		Tube	-	Cu	Cu	
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	
Compressor	Model Name		-	(DS2BD7046FVAX2)x2 +(DS4BC7066FVAX2)x1	(DS2BD7046FVAX2)x2 +(DS4BC7066FVAX2)x1	
	Quantity		EA	2x2+2x1	2x1+2x1+2x1	
	Type		-	(SCROLL_INVERTERx2)x2 +(SCROLL_INVERTERx2) x1	(SCROLL_INVERTERx2)x1 +(SCROLL_INVERTERx2)x1 +(SCROLL_INVERTERx2)x1	
	Output		kW	(4.95x2)x2+(7.17x2)x1	(4.95x2)x1+(4.95x2)x1+(7.17x2)x1	
	Oil	Type	-	POE	POE	
		Initial Charge	fl oz	(30.4x2)x2+(37.2x2)x1	(30.4x2)x1+(30.4x2)x1+(37.2x2)x1	
Fan	Type		-	Propeller	Propeller	
	Discharge direction		-	Top discharge	Top discharge	
	Quantity		EA	6	6	
	Air Flow Rate		CFM	9,924x2+12,855x1	9,924x1+1,0171x1+12,855x1	
	External Static Pressure		Pa	-	-	
Fan Motor	Type		-	BLDC	BLDC	
	Output	W	(620x2)x2+(630x2)x1	(620x2)x1+(620x2)x1+(630x2)x1		
		kW	(0.62x2)x2+(0.63x2)x1	(0.62x2)x1+(0.62x2)x1+(0.63x2)x1		
3) Piping Connections	Liquid Pipe	Type	-	Welding	Welding	
		Diameter	in	3/4	3/4	

2. Specification

VPD High Efficiency Heat Pump Outdoor Units (460V)

Model Name				VPD432S6M-5G	VPD456S6M-5G	
Outdoor unit module 1				VPD120S6M-5G	VPD120S6M-5G	
Outdoor unit module 2				VPD120S6M-5G	VPD144S6M-5G	
Outdoor unit module 3				VPD192S6M-5G	VPD192S6M-5G	
3) Piping Connections	Gas Pipe	Type	-	Welding	Welding	
		Diameter	in	1-5/8	1-5/8	
	Heat Insulation			Both liquid and gas pipes	Both liquid and gas pipes	
	Total piping length (System)		Max.	ft	3,281	3,281
	Piping length (1st Branch-IDU)		Max.	ft	295	295
	Piping length (ODU-IDU)		Max.	ft	656	656
	Piping length (ODU-IDU)	Equivalent	Max.	ft	722	722
	Level difference (IDU-IDU)		Max.	ft	164	164
	Level difference (ODU in highest position)		Max.	ft	361	361
	Level difference (IDU in highest position)		Max.	ft	361	361
Wiring Connection	Transmission Cable	Min.	AWG	18	18	
		Remark	-	F1, F2	F1, F2	
Refrigerant	4) Type			R32	R32	
	Factory Charge			lbs	50.2	54.6
Sound Level	5) Sound Pressure Level		Cooling	dB(A)	65	65
			Heating	dB(A)	68	68
	6) Sound Power Level		Cooling	dB(A)	87	87
External Dimension	Net Weight			lbs	569x2+829x1	569x1+608x1+829x1
	Shipping Weight			lbs	606x2+886x1	606x1+646x1+886x1
	Net Dimensions		W x H x D	mm	(1,295 x 1,695 x 765) x 2 +(1,860 x 1,695 x 765) x 1	(1,295 x 1,695 x 765) x 2 +(1,860 x 1,695 x 765) x 1
				in	(51 x 66-3/4 x 30-1/8) x 2 +(73-1/4 x 66-3/4 x 30-1/8) x 1	(51 x 66-3/4 x 30-1/8) x 2 +(73-1/4 x 66-3/4 x 30-1/8) x 1
	Shipping Dimensions		W x H x D	mm	(1,363 x 1,887 x 829) x 2 +(1,928 x 1,887 x 829) x 1	(1,363 x 1,887 x 829) x 2 +(1,928 x 1,887 x 829) x 1
				in	(53-11/16 x 74-5/16 x 32-5/8) x 2 +(75-7/8 x 74-5/16 x 32-5/8) x 1	(53-11/16 x 74-5/16 x 32-5/8) x 2 +(75-7/8 x 74-5/16 x 32-5/8) x 1
7) Operating Temp. Range	Cooling	Min. ~ Max.	°F	5 ~ 126	5 ~ 126	
	Heating	Min. ~ Max.	°F	-22 ~ 75	-22 ~ 75	

NOTE

- Specification may be subject to change without prior notice.
 - Nominal capacities are based on (Equivalent refrigerant piping : 25ft, Level differences : 0ft);
 - Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
 - Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
 - The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. VRF design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
 - If outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
 - (If the level difference is higher than 164ft, the PDM kit should be installed) *PDM kit: Pressure Drop Modulation kit
 - These products contain R32 which is fluorinated greenhouse gas.
 - Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
 - Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound values are obtained in an anechoic room.
 - Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions. (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50% capacity of the connected indoor units must be operated.) However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.

3. Electric Characteristics

VPD High Efficiency Heat Pump Outdoor Units (208~230V)

Capacity TON	Model Name	Power Supply		Module #1				Module #2				Module #3			
				FLA[A]		MCA	MOP	FLA[A]		MCA	MOP	FLA[A]		MCA	MOP
		Hz	Voltage	FAN1	FAN2	[A]	[A]	FAN1	FAN2	[A]	[A]	FAN1	FAN2	[A]	[A]
6	VPD072S6M-5Y	60	208-230	4.6	-	28.0	35.0	-	-	-	-	-	-	-	-
8	VPD096S6M-5Y	60	208-230	4.2	4.2	36.0	40.0	-	-	-	-	-	-	-	-
10	VPD120S6M-5Y	60	208-230	4.2	4.2	40.8	45.0	-	-	-	-	-	-	-	-
12	VPD144S6M-5Y	60	208-230	4.2	4.2	52.6	60.0	-	-	-	-	-	-	-	-
14	VPD168S6M-5Y	60	208-230	4.2	4.2	54.4	60.0	-	-	-	-	-	-	-	-
16	VPD192S6M-5Y	60	208-230	4.6	4.6	60.0	70.0	-	-	-	-	-	-	-	-
18	VPD216S6M-5Y	60	208-230	4.6	4.6	64.0	80.0	-	-	-	-	-	-	-	-
20	VPD240S6M-5Y	60	208-230	4.6	4.6	68.0	80.0	-	-	-	-	-	-	-	-
22	VPD264S6M-5Y	60	208-230	4.2	4.2	36.0	40.0	4.2	4.2	54.4	60.0	-	-	-	-
24	VPD288S6M-5Y	60	208-230	4.2	4.2	36.0	40.0	4.6	4.6	60.0	70.0	-	-	-	-
26	VPD312S6M-5Y	60	208-230	4.2	4.2	36.0	40.0	4.6	4.6	64.0	80.0	-	-	-	-
28	VPD336S6M-5Y	60	208-230	4.2	4.2	36.0	40.0	4.6	4.6	68.0	80.0	-	-	-	-
30	VPD360S6M-5Y	60	208-230	4.2	4.2	40.8	45.0	4.6	4.6	68.0	80.0	-	-	-	-
32	VPD384S6M-5Y	60	208-230	4.6	4.6	60.0	70.0	4.6	4.6	60.0	70.0	-	-	-	-
34	VPD408S6M-5Y	60	208-230	4.6	4.6	60.0	70.0	4.6	4.6	64.0	80.0	-	-	-	-
36	VPD432S6M-5Y	60	208-230	4.2	4.2	40.8	45.0	4.2	4.2	40.8	45.0	4.6	4.6	60.0	70.0
38	VPD456S6M-5Y	60	208-230	4.2	4.2	40.8	45.0	4.2	4.2	52.6	60.0	4.6	4.6	60.0	70.0

VPD High Efficiency Heat Pump Outdoor Units (460V)

Capacity TON	Model Name	Power Supply		Module #1				Module #2				Module #3			
				FLA[A]		MCA	MOP	FLA[A]		MCA	MOP	FLA[A]		MCA	MOP
		Hz	Voltage	FAN1	FAN2	[A]	[A]	FAN1	FAN2	[A]	[A]	FAN1	FAN2	[A]	[A]
6	VPD072S6M-5G	60	460	2.3	-	15.0	20.0	-	-	-	-	-	-	-	-
8	VPD096S6M-5G	60	460	2.1	2.1	18.0	20.0	-	-	-	-	-	-	-	-
10	VPD120S6M-5G	60	460	2.1	2.1	19.4	25.0	-	-	-	-	-	-	-	-
12	VPD144S6M-5G	60	460	2.1	2.1	26.2	35.0	-	-	-	-	-	-	-	-
14	VPD168S6M-5G	60	460	2.1	2.1	29.0	35.0	-	-	-	-	-	-	-	-
16	VPD192S6M-5G	60	460	2.3	2.3	34.0	40.0	-	-	-	-	-	-	-	-
18	VPD216S6M-5G	60	460	2.3	2.3	38.0	50.0	-	-	-	-	-	-	-	-
20	VPD240S6M-5G	60	460	2.3	2.3	40.0	50.0	-	-	-	-	-	-	-	-
22	VPD264S6M-5G	60	460	2.1	2.1	18.0	20.0	2.1	2.1	29.0	35.0	-	-	-	-
24	VPD288S6M-5G	60	460	2.1	2.1	18.0	20.0	2.3	2.3	34.0	40.0	-	-	-	-
26	VPD312S6M-5G	60	460	2.1	2.1	18.0	20.0	2.3	2.3	38.0	50.0	-	-	-	-
28	VPD336S6M-5G	60	460	2.1	2.1	18.0	20.0	2.3	2.3	40.0	50.0	-	-	-	-
30	VPD360S6M-5G	60	460	2.1	2.1	19.4	25.0	2.3	2.3	40.0	50.0	-	-	-	-
32	VPD384S6M-5G	60	460	2.3	2.3	34.0	40.0	2.3	2.3	34.0	40.0	-	-	-	-
34	VPD408S6M-5G	60	460	2.3	2.3	34.0	40.0	2.3	2.3	38.0	50.0	-	-	-	-
36	VPD432S6M-5G	60	460	2.1	2.1	19.4	25.0	2.1	2.1	19.4	25.0	2.3	2.3	34.0	40.0
38	VPD456S6M-5G	60	460	2.1	2.1	19.4	25.0	2.1	2.1	26.2	35.0	2.3	2.3	34.0	40.0

 **NOTE**

- MCA : Minimum circuit amperes (A)
- MOP : Maximum Overcurrent Protective Device (A)
- FLA : Full load amperes
- Select wire size based on the value of MCA

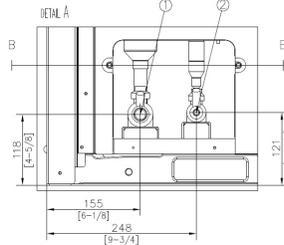
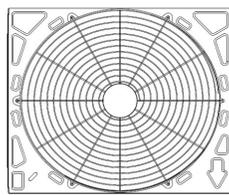
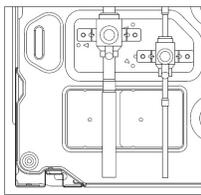
4. Dimensional Drawing

Outdoor unit

- VPD072S6M-5Y, VPD072S6M-5G

Unit: mm [inch]

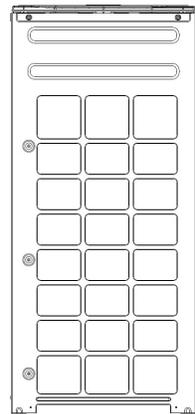
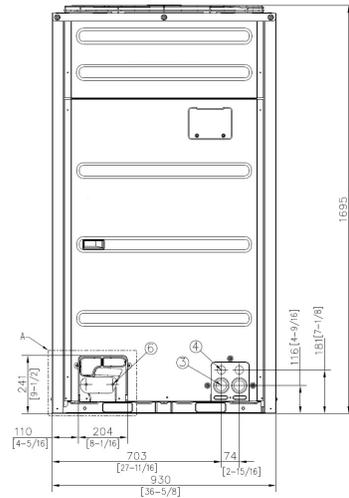
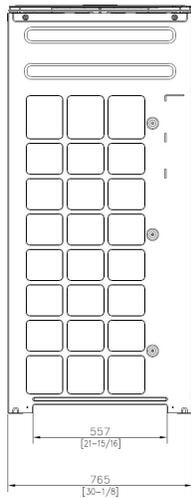
SECTION B-B



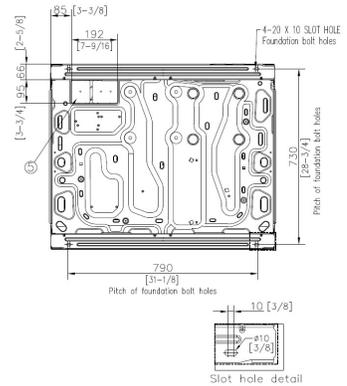
NOTE

1. Detail A and SECTION B-B indicate the dimension after fixing the attached piping.
2. Item 3-6 : Knock-out hole
3. View C indicate the dimension of knock-out hole(bottom)
4. Pipe [φ, mm(inch)] : Brazing connection

HP	Liquid pipe	Gas pipe
8	9.52(3/8)	19.05(3/4)
10	9.52(3/8)	22.22(7/8)
12	12.70(1/2)	28.58(1-1/8)
14	12.70(1/2)	28.58(1-1/8)
16	12.70(1/2)	28.58(1-1/8)
18	15.88(5/8)	28.58(1-1/8)
20	15.88(5/8)	28.58(1-1/8)
22	15.88(5/8)	28.58(1-1/8)
24	15.88(5/8)	34.92(1-3/8)
26	19.05(3/4)	34.92(1-3/8)



VIEW C



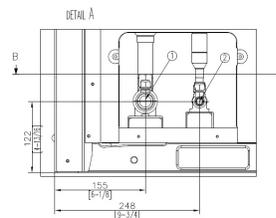
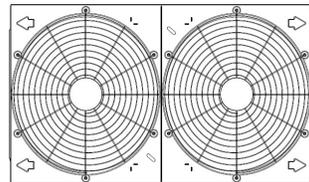
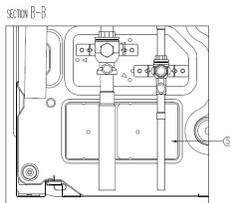
NO	Table of descriptions	Remark	NO	Table of descriptions	Remark
1	Gas Ref.pipe	See NOTE 4.	5	Knock-out Hole for Ref.Piping (bottom)	
2	Liquid Ref.pipe	See NOTE 4.	6	Knock-out Hole for Ref.Piping (front)	
3	Power wiring conduit	∅44			
4	Communication wiring conduit	∅34			

4. Dimensional Drawing

Outdoor unit

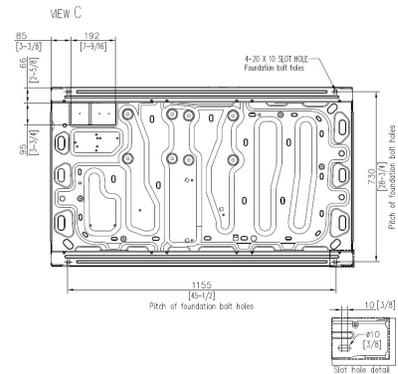
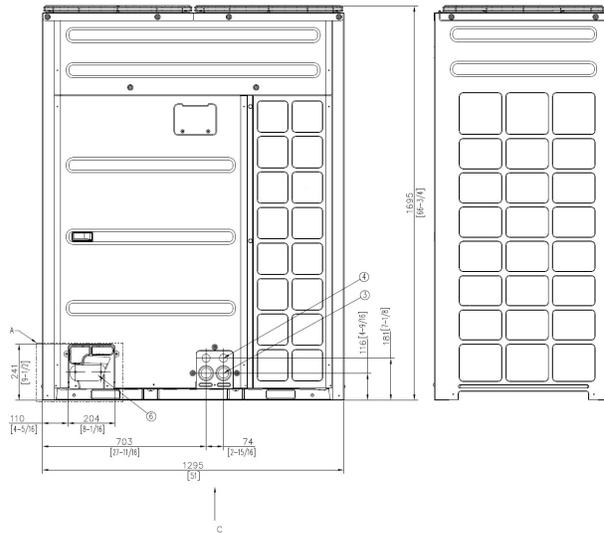
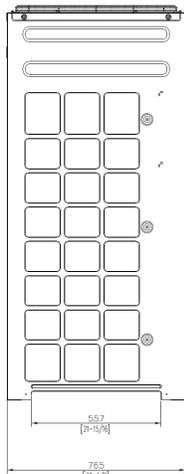
- VPD096/120/144/168S6M-5Y, VPD096/120/144/168S6M-5G

Unit: mm [inch]



- NOTE
1. Detail A and SECTION B-B indicate the dimension after fixing the attached piping.
 2. Item 3-6 : Knock-out hole
 3. View C indicate the dimension of knock-out hole(bottom)
 4. Pipe [φ, mm(inch)] : Brazing connection

HP	Liquid pipe	Gas pipe
8	9.52(3/8)	19.05(3/4)
10	9.52(3/8)	22.22(7/8)
12	12.70(1/2)	28.58(1-1/8)
14	12.70(1/2)	28.58(1-1/8)
16	12.70(1/2)	28.58(1-1/8)
18	15.88(5/8)	28.58(1-1/8)
20	15.88(5/8)	28.58(1-1/8)
22	15.88(5/8)	28.58(1-1/8)
24	15.88(5/8)	34.92(1-3/8)
26	19.05(3/4)	34.92(1-3/8)

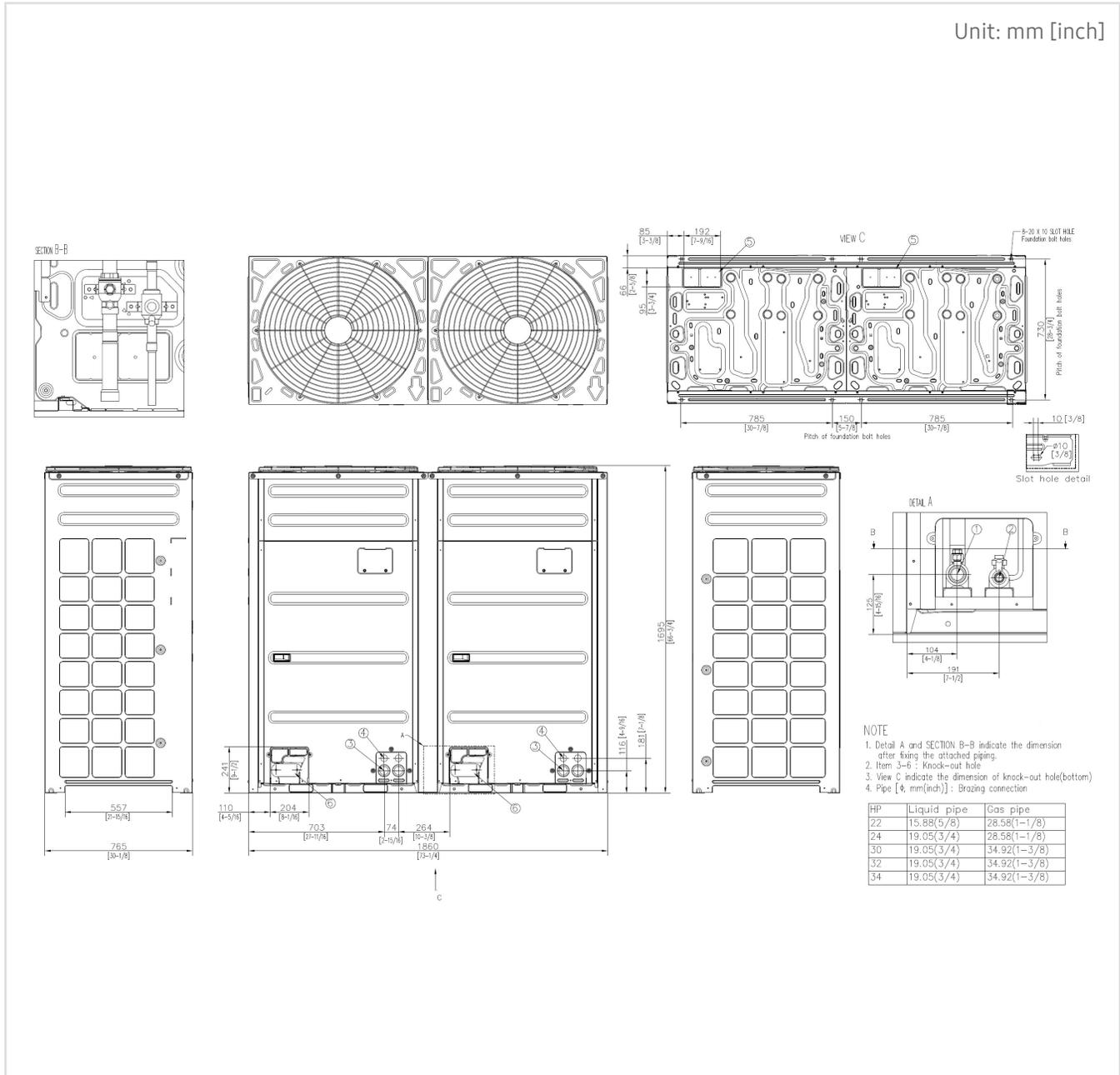


NO	Table of descriptions	Remark	NO	Table of descriptions	Remark
1	Gas Ref.pipe	See NOTE 4.	5	Knock-out Hole for Ref.Piping (bottom)	
2	Liquid Ref.pipe	See NOTE 4.	6	Knock-out Hole for Ref.Piping (front)	
3	Power wiring conduit	Ø44			
4	Communication wiring conduit	Ø34			

4. Dimensional Drawing

Outdoor unit

- VPD192/216/240S6M-5Y, VPD192/216/240S6M-5G

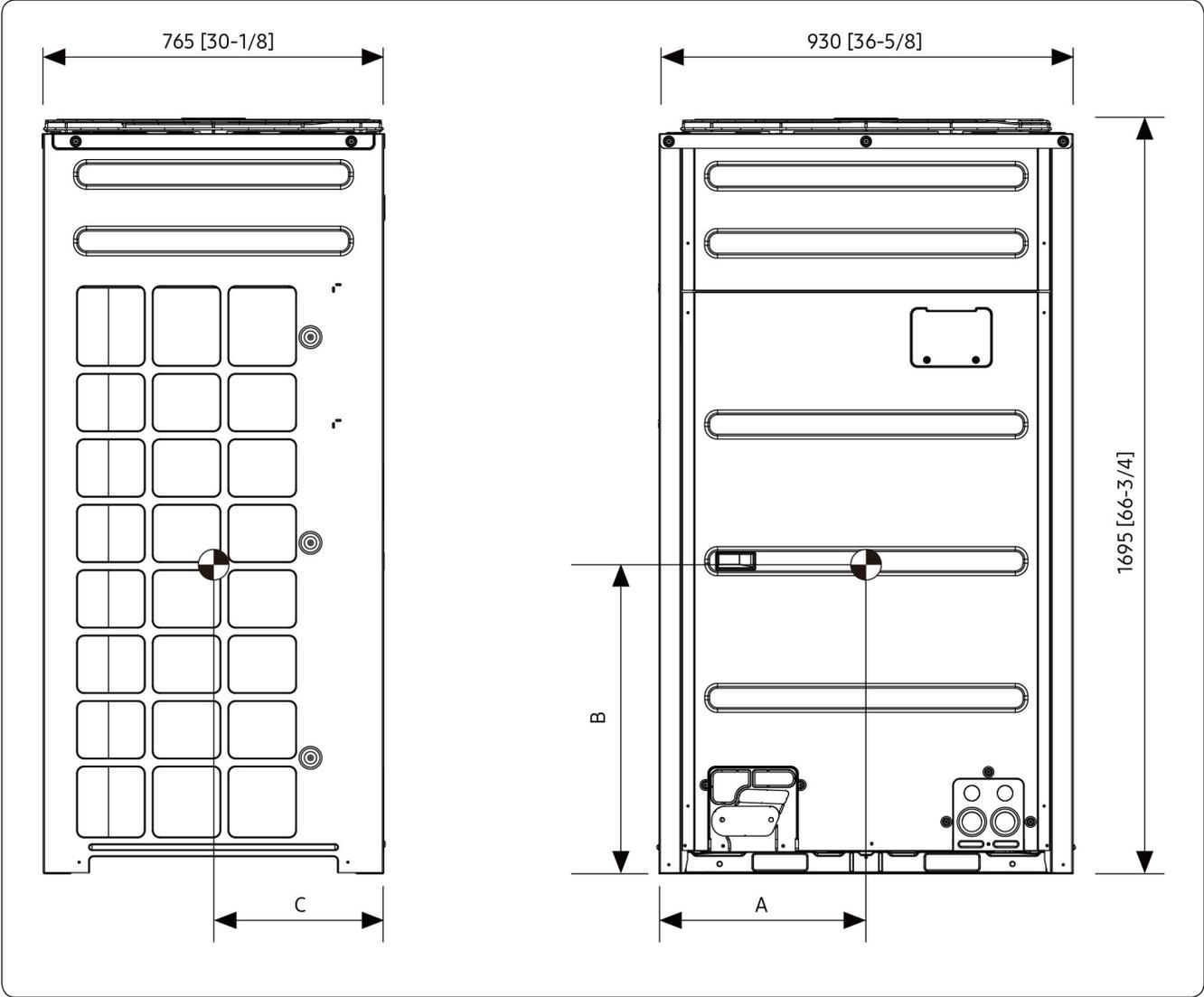


NO	Table of descriptions	Remark	NO	Table of descriptions	Remark
1	Gas Ref.pipe	See NOTE 4.	5	Knock-out Hole for Ref.Piping (bottom)	
2	Liquid Ref.pipe	See NOTE 4.	6	Knock-out Hole for Ref.Piping (front)	
3	Power wiring conduit	∅44			
4	Communication wiring conduit	∅34			

5. Center of Gravity

Outdoor unit

Unit: mm (inches)

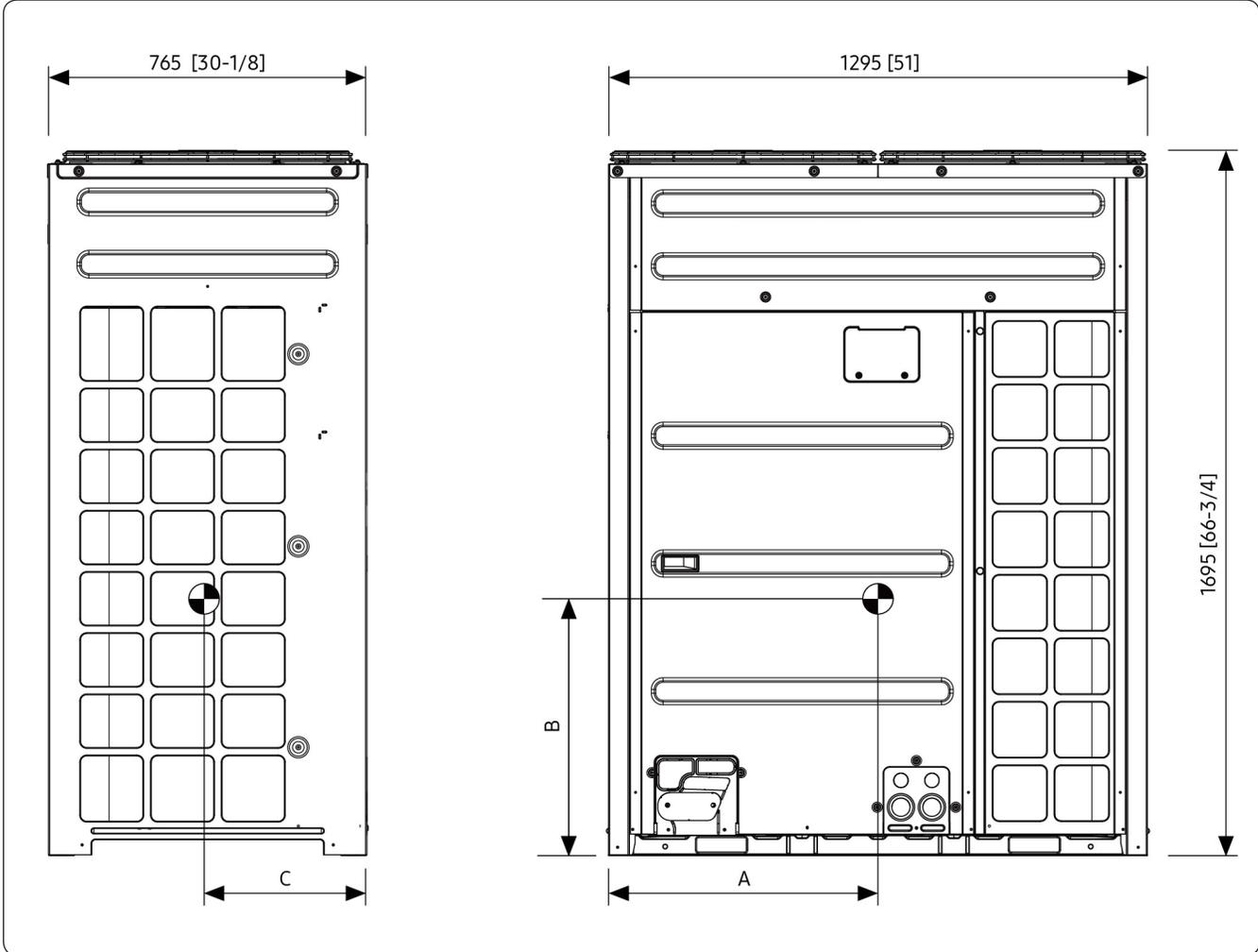


Model	A	B	C
VPD072S6M-5*	463 [18 - 1/4]	715 [28 - 1/8]	358 [14 - 1/8]

5. Center of Gravity

Outdoor unit

Unit: mm (inches)

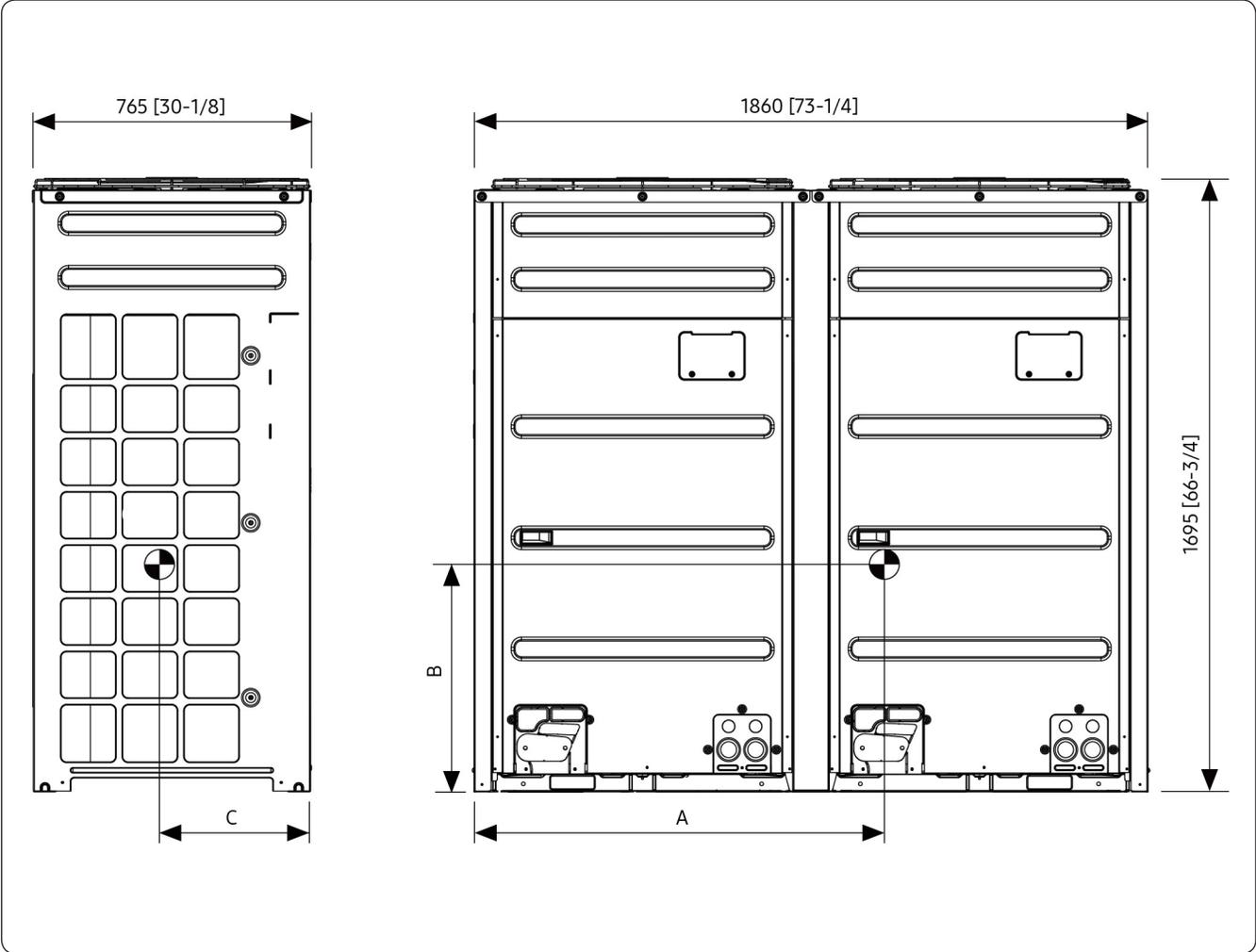


Model	A	B	C
VPD096S6M-5*			
VPD120S6M-5*			
VPD144S6M-5*	520 [20 - 1/2]	678 [26 - 11/16]	324 [12 - 3/4]
VPD168S6M-5*			

5. Center of Gravity

Outdoor unit

Unit: mm (inches)

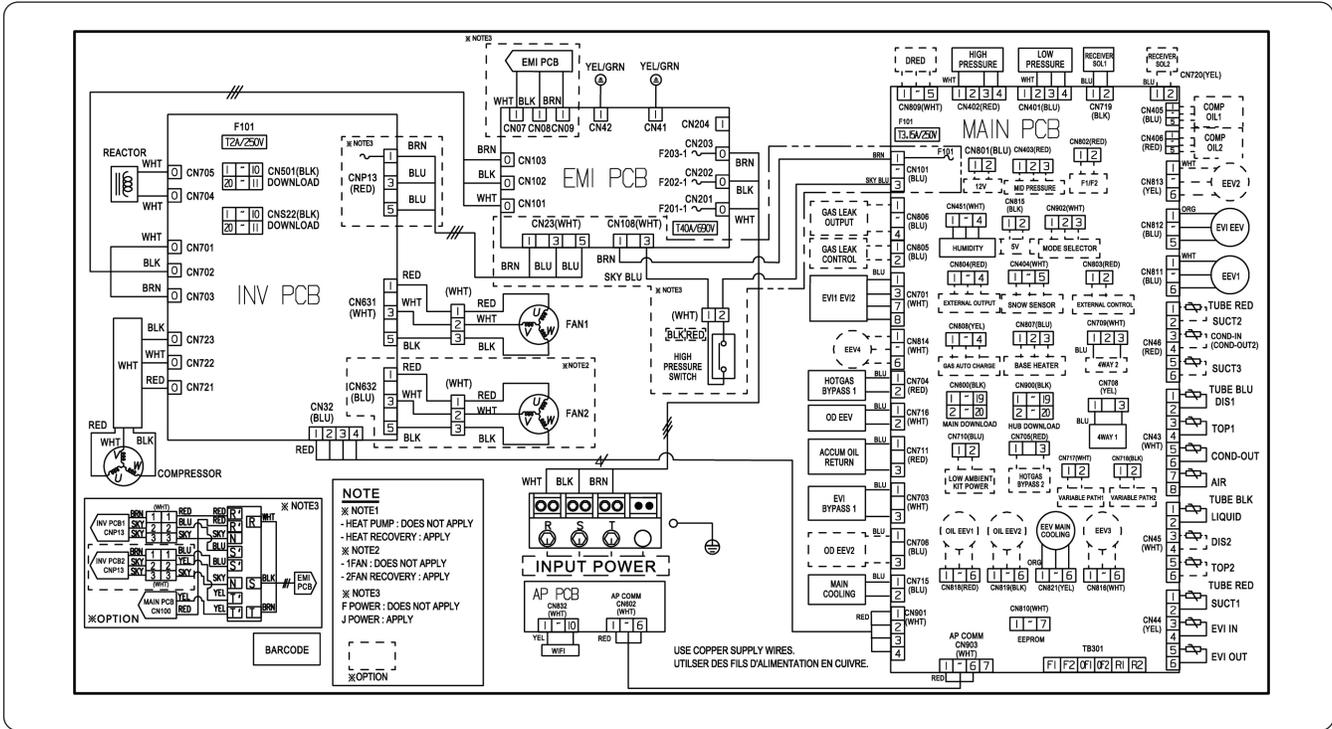


Model	A	B	C
VPD192S6M-5*	1,130 [44 - 1/2]	688 [27 - 1/16]	350 [13 - 3/4]
VPD216S6M-5*			
VPD240S6M-5*			

6. Electrical Wiring Diagrams

Outdoor unit

VPD072S6M-5Y, VPD072S6M-5G



INV PCB1	Printed circuit board (inverter1)	SNOW SENSOR	SNOW SENSOR	HOTGAS1 BYPASS V/V	Solenoid valve (Hot Gas Bypass1)
EMI PCB1	Printed circuit board (emi1)	EVI-OUT(10K)	Thermistor (EVI-out_10kohm)	EVI BYPASS1 V/V	Solenoid valve (EVI BYPASS)
MAIN PCB	Printed circuit board (main)	EVI-IN(10K)	Thermistor (EVI-in_10kohm)	ACCUM OIL RETURN V/V	Solenoid valve (Accumulator Oil Return)
AP PCB	Printed circuit board (main)	SUCT1(10K)	Thermistor (Suction Temp.1_10Kohm)	MAIN COOLING	Solenoid valve (Main cooling)
WIFI	WIFI MODULE	SUCT2(10K)	Thermistor (Suction Temp.2_10Kohm)	HOTGAS2 BYPASS V/V	Solenoid valve (Hot Gas Bypass2)
COMPRSSOR1	Motor (compressor1)	SUCT3(10K)	Thermistor (Suction Temp.2_10Kohm)	OD EEV V/V	Electronic expansion valve (Outdoor EEV)
FAN1	Motor (fan1)	COND IN(10K)	Thermistor (Cond In Temp._10Kohm)	OD EEV2 V/V	Electronic expansion valve (Outdoor EEV)
FAN2	Motor (fan2)	AIR(10K)	Thermistor (Ambient Temp._10Kohm)	F101	FUSE (INV PCB)
EVI V/V1	Solenode valve (EVI1)	COND(10K)	Thermistor (Cond Out Temp._10Kohm)	690V/40A	FUSE (EMI PCB)
EVI V/V2	Solenode valve (EVI2)	TOP1(200K)	Thermistor (Compressor Top 1_200Kohm)	MODE SELECTOR	Connector (Remote switching cool/heat selector)
EVI EEV	Electronic expansion valve (EVI)	TOP2(200K)	Thermistor (Compressor Top 2_200Kohm)	EXTERNAL CONTROL	Connector (Output EXTERNAL CONTROL)
EEV1	Electronic expansion valve 1	DIS1(200K)	Thermistor (Discharge Temp.1_200Kohm)	EXTERNAL OUTPUT	Connector (Output EXTERNAL)
EEV2	Electronic expansion valve 2	DIS2(200K)	Thermistor (Discharge Temp.2_200Kohm)	F1/F2	Communication
EEV3	Electronic expansion valve 3	LIQUID(10K)	Thermistor (Liquid Tube Temp._10Kohm)	HIGH PRESSURE	PRESSURE SENSOR
EEV4	Electronic expansion valve 4	REACTOR	REACTOR	MID PRESSURE	PRESSURE SENSOR
4WAY1 V/V	Solenoid valve (4 Way valve1)	EEPROM	Printed circuit board(EEPROM PCB)	LOW PRESSURE	PRESSURE SENSOR
4WAY2 V/V	Solenoid valve (4 Way valve2)	VARIABLE PATH1	Solenoid valve(VARIABLE PATH1)	RECEIVER SOL1	Solenoid valve(RECEIVER1)
OIL EEV1	Electronic expansion valve(OIL1)	VARIABLE PATH2	Solenoid valve(VARIABLE PATH2)	RECEIVER SOL2	Solenoid valve(RECEIVER2)
OIL EEV2	Electronic expansion valve(OIL2)	HUMIDITY	SENSOR(HUMIDITY)	BASE HEATER	HEATER
EEV MAIN COOLING	Electronic expansion valve (EEV MAIN COOLING)	DRED	Printed circuit board(DRED PCB)	AP COMM	Communication

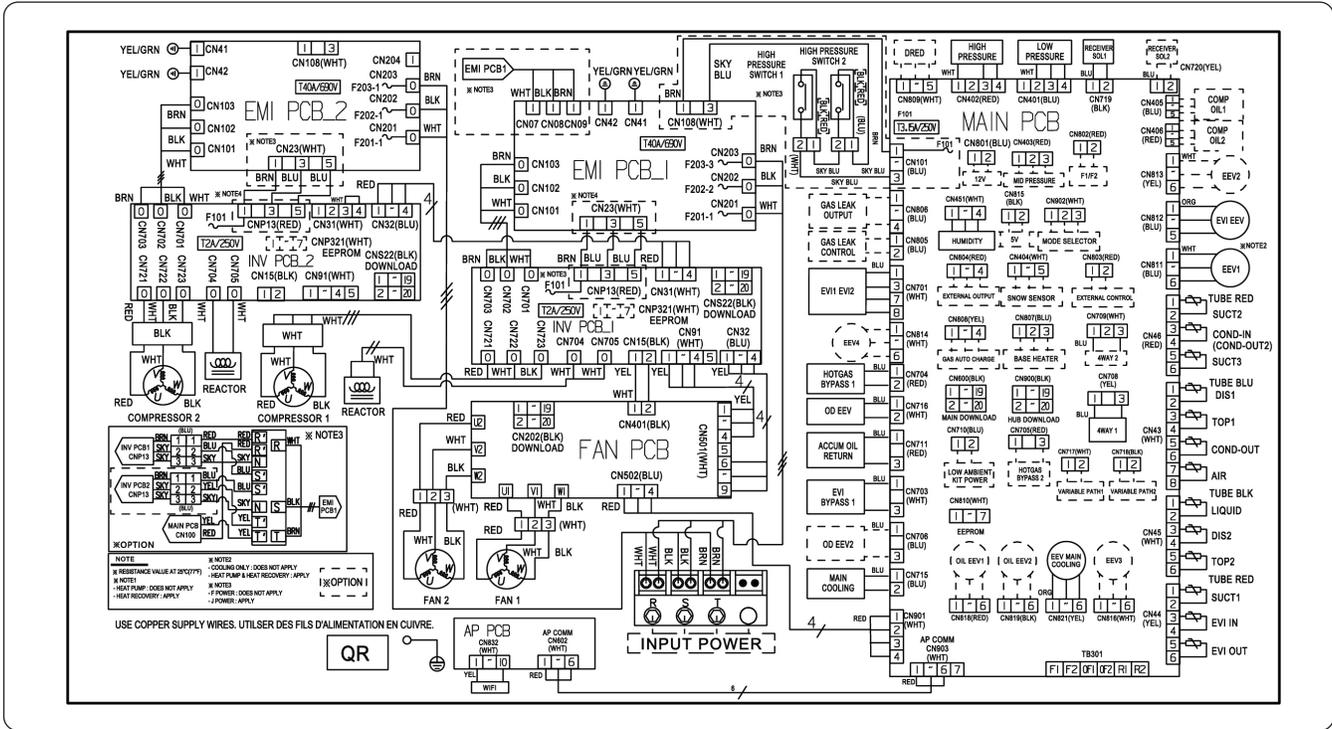
NOTE

- This wiring diagram applies only to the outdoor unit.
- Colors BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: skyblue
- When operating, don't shortcircuit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2, outdoor_outdoor transmission OF1-OF2, refer to the installation manual.
- ⊕ Protective earth(screw), □□□□ : connector, $\overline{\quad}$: The wire quantity

6. Electrical Wiring Diagrams

Outdoor unit

VPD096/120/144S6M-5Y, VPD096/120/144/168S6M-5G



INV PCB1	Printed circuit board (inverter1)	SNOW SENSOR	SNOW SENSOR	HOTGAS1 BYPASS V/V	Solenoid valve (Hot Gas Bypass1)
INV PCB2	Printed circuit board (inverter2)	EVI-OUT(10K)	Thermistor (EVI-out_10kohm)	EVI BYPASS1 V/V	Solenoid valve (EVI BYPASS)
EMI PCB1	Printed circuit board (emi1)	EVI-IN(10K)	Thermistor (EVI-in_10kohm)	ACCUM OIL RETURN V/V	Solenoid valve (Accumulator Oil Return)
EMI PCB2	Printed circuit board (emi2)	SUCT1(10K)	Thermistor (Suction Temp.1_10Kohm)	MAIN COOLING	Solenoid valve (Main cooling)
FAN PCB	Printed circuit board (fan)	SUCT2(10K)	Thermistor (Suction Temp.2_10Kohm)	HOTGAS2 BYPASS V/V	Solenoid valve (Hot Gas Bypass2)
MAIN PCB	Printed circuit board (main)	SUCT3(10K)	Thermistor (Suction Temp.2_10Kohm)	OD EEV V/V	Electronic expansion valve (Outdoor EEV)
AP PCB	Printed circuit board (main)	COND IN(10K)	Thermistor (Cond In Temp._10Kohm)	OD EEV2 V/V	Electronic expansion valve (Outdoor EEV)
WIFI	WIFI MODULE	AIR(10K)	Thermistor (Ambient Temp._10Kohm)	F101	FUSE (INV PCB)
COMPRESSOR1	Motor (compressor1)	COND(10K)	Thermistor (Cond Out Temp._10Kohm)	690V/40A	FUSE (EMI PCB)
COMPRESSOR2	Motor (compressor2)	TOP1(200K)	Thermistor (Compressor Top 1_200Kohm)	MODE SELECTOR	Connector (Remote switching cool/heat selector)
FAN1	Motor (fan1)	TOP2(200K)	Thermistor (Compressor Top 2_200Kohm)	EXTERNAL CONTROL	Connector (Output EXTERNAL CONTROL)
FAN2	Motor (fan2)	DIS1(200K)	Thermistor (Discharge Temp.1_200Kohm)	EXTERNAL OUTPUT	Connector (Output EXTERNAL)
EVI V/V1	Solenoid valve (EVI1)	DIS2(200K)	Thermistor (Discharge Temp.2_200Kohm)	F1/F2	Communication
EVI V/V2	Solenoid valve (EVI2)	LIQUID(10K)	Thermistor (Liquid Tube Temp._10Kohm)	HIGH PRESSURE	PRESSURE SENSOR(HIGH)
EEV1	Electronic expansion valve 1	REACTOR	REACTOR	MID PRESSURE	PRESSURE SENSOR(MID)
EEV2	Electronic expansion valve 2	EEPROM	Printed circuit board(EEPROM PCB)	LOW PRESSURE	PRESSURE SENSOR(LOW)
EEV3	Electronic expansion valve 3	VARIABLE PATH1	Solenoid valve(VARIABLE PATH1)	RECEIVER SOL1	Solenoid valve(RECEIVER1)
EEV4	Electronic expansion valve 4	VARIABLE PATH2	Solenoid valve(VARIABLE PATH2)	RECEIVER SOL2	Solenoid valve(RECEIVER2)
4WAY1 V/V	Solenoid valve (4 Way valve1)	DRED	Printed circuit board(DRED PCB)	BASE HEATER	HEATER
4WAY2 V/V	Solenoid valve (4 Way valve2)	OIL EEV1	Electronic expansion valve(OIL1)	AP COMM	Communication
EEV MAIN COOLING	Electronic expansion valve(EEV MAIN COOLING)	OIL EEV2	Electronic expansion valve(OIL2)		

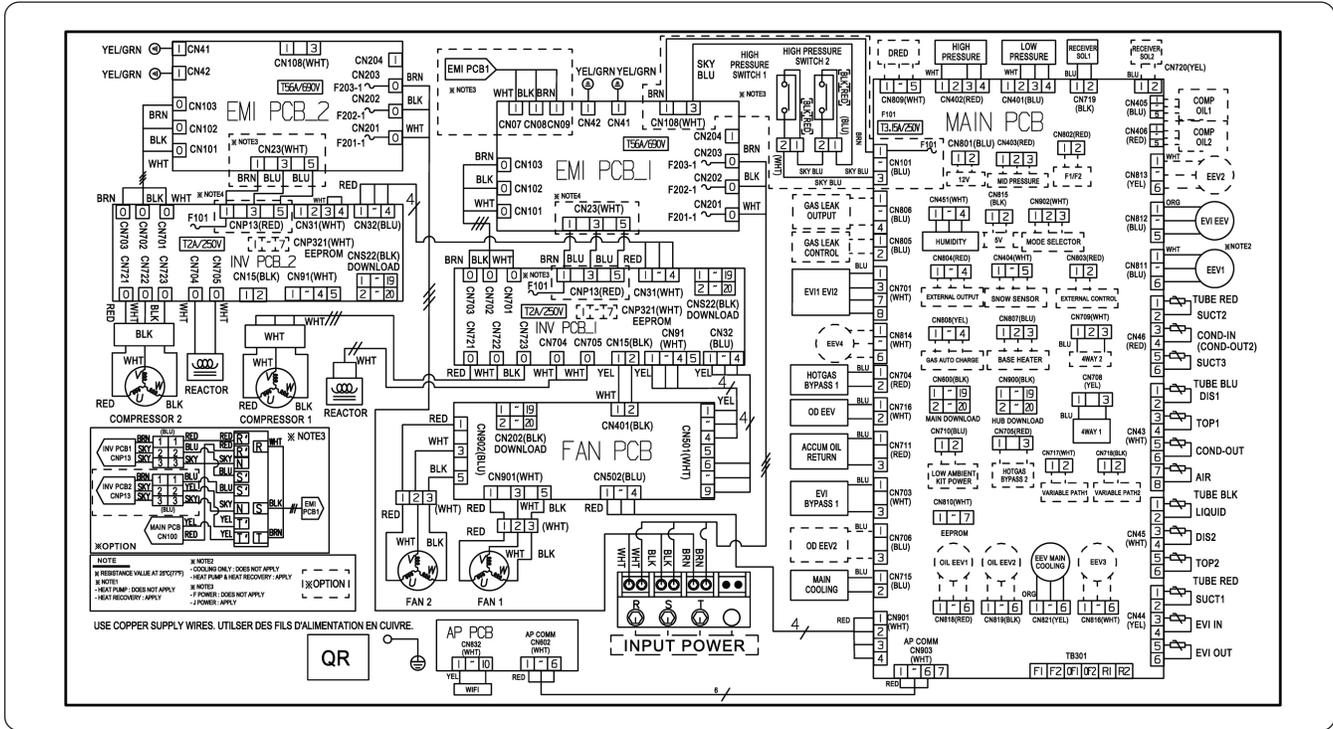
NOTE

- This wiring diagram applies only to the outdoor unit.
- Colors BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: skyblue
- When operating, don't shortcircuit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2, outdoor_outdoor transmission OF1-OF2, refer to the installation manual.
- ⊕ Protective earth(screw), □ : connector, $\overline{\quad}$: The wire quantity

6. Electrical Wiring Diagrams

Outdoor unit

VPD168S6M-5Y



INV PCB1	Printed circuit board (inverter1)	SNOW SENSOR	SNOW SENSOR	HOTGAS1 BYPASS V/V	Solenoid valve (Hot Gas Bypass1)
INV PCB2	Printed circuit board (inverter2)	EVI-OUT(10K)	Thermistor (EVI-out_10kohm)	EVI BYPASS1 V/V	Solenoid valve (EVI BYPASS)
EMI PCB1	Printed circuit board (emi1)	EVI-IN(10K)	Thermistor (EVI-in_10kohm)	ACCUM OIL RETURN V/V	Solenoid valve (Accumulator Oil Return)
EMI PCB2	Printed circuit board (emi2)	SUCT1(10K)	Thermistor (Suction Temp.1_10Kohm)	MAIN COOLING	Solenoid valve (Main cooling)
FAN PCB	Printed circuit board (fan)	SUCT2(10K)	Thermistor (Suction Temp.2_10Kohm)	HOTGAS2 BYPASS V/V	Solenoid valve (Hot Gas Bypass2)
MAIN PCB	Printed circuit board (main)	SUCT3(10K)	Thermistor (Suction Temp.2_10Kohm)	OD EEV V/V	Electronic expansion valve (Outdoor EEV)
AP PCB	Printed circuit board (main)	COND IN(10K)	Thermistor (Cond In Temp._10Kohm)	OD EEV2 V/V	Electronic expansion valve (Outdoor EEV)
WIFI	WIFI MODULE	AIR(10K)	Thermistor (Ambient Temp._10Kohm)	F101	FUSE (INV PCB)
COMPRESSOR1	Motor (compressor1)	COND(10K)	Thermistor (Cond Out Temp._10Kohm)	690V/40A	FUSE (EMI PCB)
COMPRESSOR2	Motor (compressor2)	TOP1(200K)	Thermistor (Compressor Top 1_200Kohm)	MODE SELECTOR	Connector (Remote switching cool/heat selector)
FAN1	Motor (fan1)	TOP2(200K)	Thermistor (Compressor Top 2_200Kohm)	EXTERNAL CONTROL	Connector (Output EXTERNAL CONTROL)
FAN2	Motor (fan2)	DIS1(200K)	Thermistor (Discharge Temp.1_200Kohm)	EXTERNAL OUTPUT	Connector (Output EXTERNAL)
EVI V/V1	Solenoid valve (EVI1)	DIS2(200K)	Thermistor (Discharge Temp.2_200Kohm)	F1/F2	Communication
EVI V/V2	Solenoid valve (EVI2)	LIQUID(10K)	Thermistor (Liquid Tube Temp._10Kohm)	HIGH PRESSURE	PRESSURE SENSOR(HIGH)
EVI EEV	Electronic expansion valve (EVI)	REACTOR	REACTOR	MID PRESSURE	PRESSURE SENSOR(MID)
EEV1	Electronic expansion valve 1	EEPROM	Printed circuit board(EEPROM PCB)	LOW PRESSURE	PRESSURE SENSOR(LOW)
EEV2	Electronic expansion valve 2	VARIABLE PATH1	Solenoid valve(VARIABLE PATH1)	RECEIVER SOL1	Solenoid valve(RECEIVER1)
EEV3	Electronic expansion valve 3	VARIABLE PATH2	Solenoid valve(VARIABLE PATH2)	RECEIVER SOL2	Solenoid valve(RECEIVER2)
EEV4	Electronic expansion valve 4	HUMIDITY	SENSOR(HUMIDITY)	BASE HEATER	HEATER
4WAY1 V/V	Solenoid valve (4 Way valve1)	DRED	Printed circuit board(DRED PCB)	AP COMM	Communication
4WAY2 V/V	Solenoid valve (4 Way valve2)	OIL EEV1	Electronic expansion valve(OIL1)		
EEV MAIN COOLING	Electronic expansion valve(EEV MAIN COOLING)	OIL EEV2	Electronic expansion valve(OIL2)		

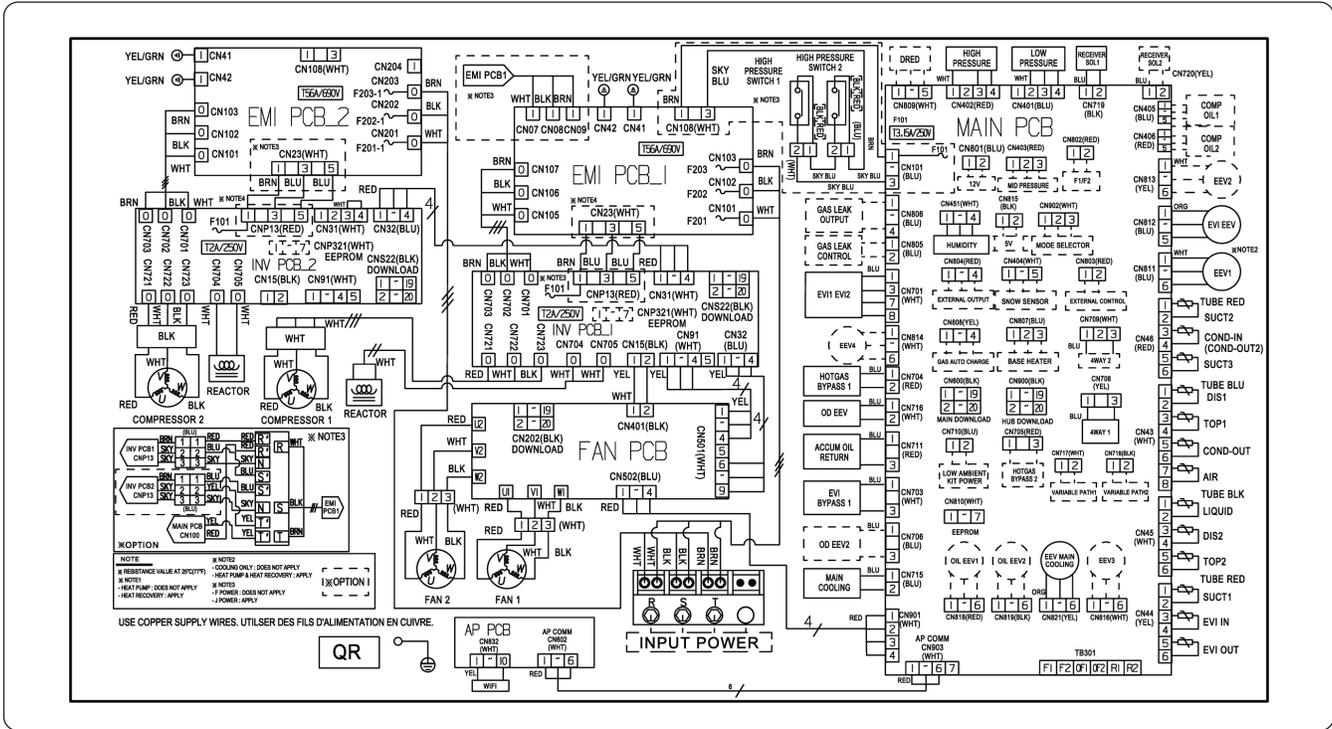
NOTE

- This wiring diagram applies only to the outdoor unit.
- Colors BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: skyblue
- When operating, don't shortcircuit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2, outdoor_outdoor transmission OF1-OF2, refer to the installation manual.
- Protective earth(screw),  : connector,  : The wire quantity

6. Electrical Wiring Diagrams

Outdoor unit

VPD192/216/240S6M-5Y, VPD216/240S6M-5G



INV PCB1	Printed circuit board (inverter1)	SNOW SENSOR	SNOW SENSOR	HOTGAS1 BYPASS V/V	Solenoid valve (Hot Gas Bypass1)
INV PCB2	Printed circuit board (inverter2)	EVI-OUT(10K)	Thermistor (EVI-out_10kohm)	EVI BYPASS1 V/V	Solenoid valve (EVI BYPASS)
EMI PCB1	Printed circuit board (emi1)	EVI-IN(10K)	Thermistor (EVI-in_10kohm)	ACCUM OIL RETURN V/V	Solenoid valve (Accumulator Oil Return)
EMI PCB2	Printed circuit board (emi2)	SUCT1(10K)	Thermistor (Suction Temp.1_10Kohm)	MAIN COOLING	Solenoid valve (Main cooling)
FAN PCB	Printed circuit board (fan)	SUCT2(10K)	Thermistor (Suction Temp.2_10Kohm)	HOTGAS2 BYPASS V/V	Solenoid valve (Hot Gas Bypass2)
MAIN PCB	Printed circuit board (main)	SUCT3(10K)	Thermistor (Suction Temp.2_10Kohm)	OD EEV V/V	Electronic expansion valve (Outdoor EEV)
AP PCB	Printed circuit board (main)	COND IN(10K)	Thermistor (Cond In Temp._10Kohm)	OD EEV2 V/V	Electronic expansion valve (Outdoor EEV)
WIFI	WIFI MODULE	AIR(10K)	Thermistor (Ambient Temp._10Kohm)	F101	FUSE (INV PCB)
COMPRESSOR1	Motor (compressor1)	COND(10K)	Thermistor (Cond Out Temp._10Kohm)	690V/40A	FUSE (EMI PCB)
COMPRESSOR2	Motor (compressor2)	TOP1(200K)	Thermistor (Compressor Top 1_200Kohm)	MODE SELECTOR	Connector (Remote switching cool/heat selector)
FAN1	Motor (fan1)	TOP2(200K)	Thermistor (Compressor Top 2_200Kohm)	EXTERNAL CONTROL	Connector (Output EXTERNAL CONTROL)
FAN2	Motor (fan2)	DIS1(200K)	Thermistor (Discharge Temp.1_200Kohm)	EXTERNAL OUTPUT	Connector (Output EXTERNAL)
EVI V/V1	Solenode valve (EVI1)	DIS2(200K)	Thermistor (Discharge Temp.2_200Kohm)	F1/F2	Communication
EVI V/V2	Solenode valve (EVI2)	LIQUID(10K)	Thermistor (Liquid Tube Temp._10Kohm)	HIGH PRESSURE	PRESSURE SENSOR(HIGH)
EEV1	Electronic expansion valve 1	REACTOR	REACTOR	MID PRESSURE	PRESSURE SENSOR(MID)
EEV2	Electronic expansion valve 2	EEPROM	Printed circuit board(EEPROM PCB)	LOW PRESSURE	PRESSURE SENSOR(LOW)
EEV3	Electronic expansion valve 3	VARIABLE PATH1	Solenoid valve(VARIABLE PATH1)	RECEIVER SOL1	Solenoid valve(RECEIVER1)
EEV4	Electronic expansion valve 4	VARIABLE PATH2	Solenoid valve(VARIABLE PATH2)	RECEIVER SOL2	Solenoid valve(RECEIVER2)
4WAY1 V/V	Solenoid valve (4 Way valve1)	HUMIDITY	SENSOR(HUMIDITY)	BASE HEATER	HEATER
4WAY2 V/V	Solenoid valve (4 Way valve2)	DRED	Printed circuit board(DRED PCB)	AP COMM	Communication
EEV MAIN COOLING	Electronic expansion valve(EEV MAIN COOLING)	OIL EEV1	Electronic expansion valve(OIL1)		
		OIL EEV2	Electronic expansion valve(OIL2)		

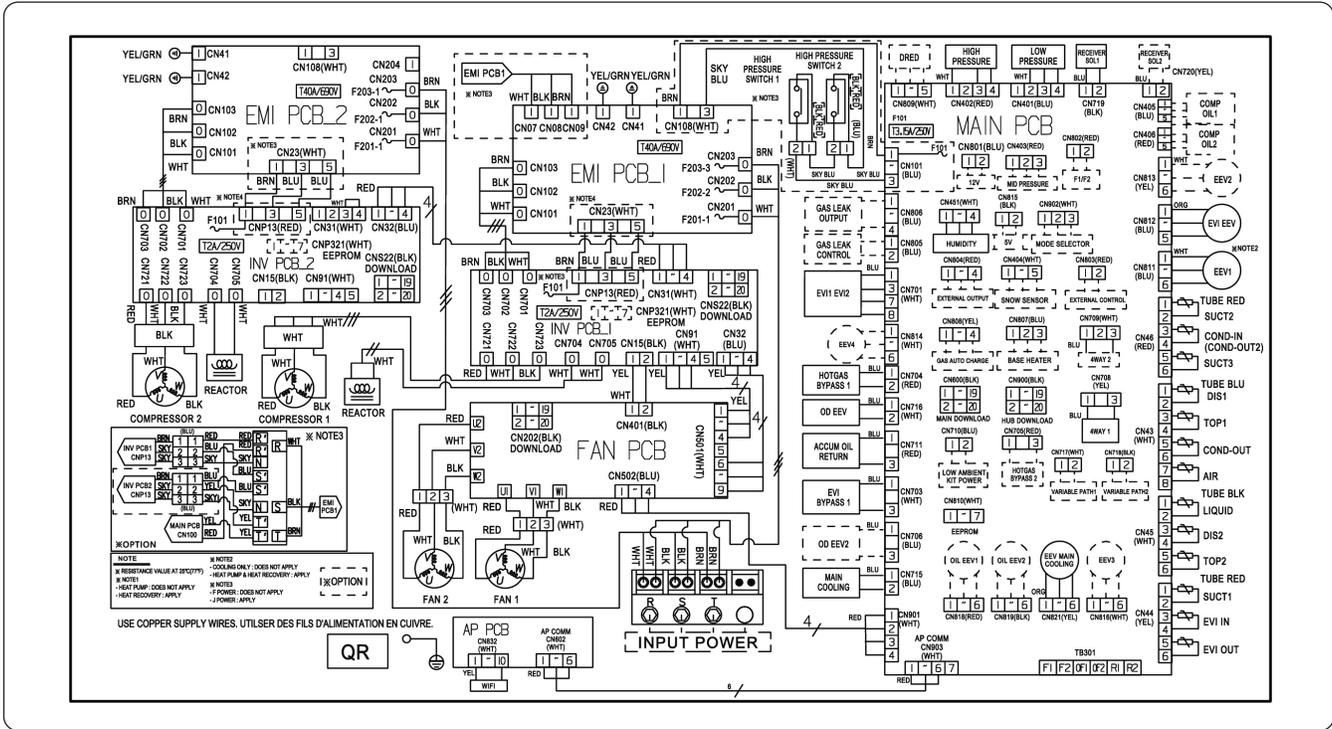
NOTE

- This wiring diagram applies only to the outdoor unit.
- Colors BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: skyblue
- When operating, don't shortcircuit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2, outdoor_outdoor transmission OF1-OF2, refer to the installation manual.
- Protective earth(screw),
 : connector,
 : The wire quantity

6. Electrical Wiring Diagrams

Outdoor unit

VPD192S6M-5G



INV PCB1	Printed circuit board (inverter1)	SNOW SENSOR	SNOW SENSOR	HOTGAS1 BYPASS V/V	Solenoid valve (Hot Gas Bypass1)
INV PCB2	Printed circuit board (inverter2)	EVI-OUT(10K)	Thermistor (EVI-out_10kohm)	EVI BYPASS1 V/V	Solenoid valve (EVI BYPASS)
EMI PCB1	Printed circuit board (emi1)	EVI-IN(10K)	Thermistor (EVI-in_10kohm)	ACCUM OIL RETURN V/V	Solenoid valve (Accumulator Oil Return)
EMI PCB2	Printed circuit board (emi2)	SUCT1(10K)	Thermistor (Suction Temp.1_10Kohm)	MAIN COOLING	Solenoid valve (Main cooling)
FAN PCB	Printed circuit board (fan)	SUCT2(10K)	Thermistor (Suction Temp.2_10Kohm)	HOTGAS2 BYPASS V/V	Solenoid valve (Hot Gas Bypass2)
MAIN PCB	Printed circuit board (main)	SUCT3(10K)	Thermistor (Suction Temp.2_10Kohm)	OD EEV V/V	Electronic expansion valve (Outdoor EEV)
AP PCB	Printed circuit board (main)	COND IN(10K)	Thermistor (Cond In Temp._10Kohm)	OD EEV2 V/V	Electronic expansion valve (Outdoor EEV)
WIFI	WIFI MODULE	AIR(10K)	Thermistor (Ambient Temp._10Kohm)	F101	FUSE (INV PCB)
COMPRESSOR1	Motor (compressor1)	COND(10K)	Thermistor (Cond Out Temp._10Kohm)	690V/40A	FUSE (EMI PCB)
COMPRESSOR2	Motor (compressor2)	TOP1(200K)	Thermistor (Compressor Top 1_200Kohm)	MODE SELECTOR	Connector (Remote switching cool/heat selector)
FAN1	Motor (fan1)	TOP2(200K)	Thermistor (Compressor Top 2_200Kohm)	EXTERNAL CONTROL	Connector (Output EXTERNAL CONTROL)
FAN2	Motor (fan2)	DIS1(200K)	Thermistor (Discharge Temp.1_200Kohm)	EXTERNAL OUTPUT	Connector (Output EXTERNAL)
EVI V/V1	Solenoid valve (EVI1)	DIS2(200K)	Thermistor (Discharge Temp.2_200Kohm)	F1/F2	Communication
EVI V/V2	Solenoid valve (EVI2)	LIQUID(10K)	Thermistor (Liquid Tube Temp._10Kohm)	HIGH PRESSURE	PRESSURE SENSOR(HIGH)
EVI EEV	Electronic expansion valve (EVI)	REACTOR	REACTOR	MID PRESSURE	PRESSURE SENSOR(MID)
EEV1	Electronic expansion valve 1	EEPROM	Printed circuit board(EEPROM PCB)	LOW PRESSURE	PRESSURE SENSOR(LOW)
EEV2	Electronic expansion valve 2	VARIABLE PATH1	Solenoid valve(VARIABLE PATH1)	RECEIVER SOL1	Solenoid valve(RECEIVER1)
EEV3	Electronic expansion valve 3	VARIABLE PATH2	Solenoid valve(VARIABLE PATH2)	RECEIVER SOL2	Solenoid valve(RECEIVER2)
EEV4	Electronic expansion valve 4	HUMIDITY	SENSOR(HUMIDITY)	BASE HEATER	HEATER
4WAY1 V/V	Solenoid valve (4 Way valve1)	DRED	Printed circuit board(DRED PCB)	AP COMM	Communication
4WAY2 V/V	Solenoid valve (4 Way valve2)	OIL EEV1	Electronic expansion valve(OIL1)		
EEV MAIN COOLING	Electronic expansion valve(EEV MAIN COOLING)	OIL EEV2	Electronic expansion valve(OIL2)		

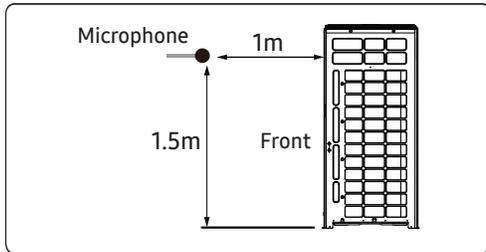
NOTE

- This wiring diagram applies only to the outdoor unit.
- Colors BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: skyblue
- When operating, don't shortcircuit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2, outdoor_outdoor transmission OF1-OF2, refer to the installation manual.
- Protective earth(screw),
 : connector,
 : The wire quantity

7. Sound Data

Sound Pressure level

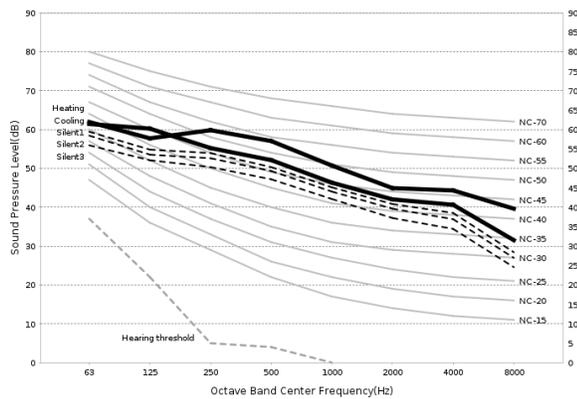
Unit: dB(A)



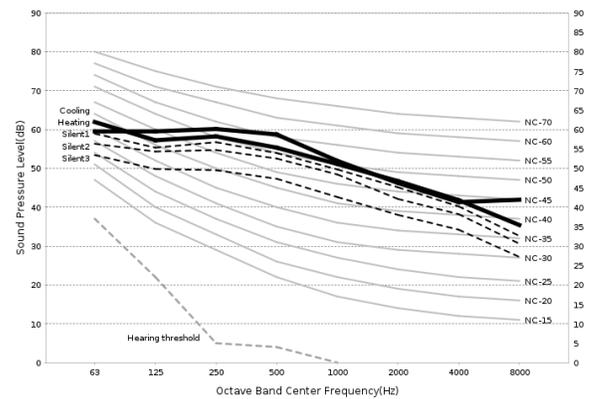
Model	Cooling			Heating
	Silent 1	Silent 2	Silent 3	
VPD072S6M-5Y	54	51	49	58
VPD096S6M-5Y	57	54	49	59
VPD120S6M-5Y	57	54	49	60
VPD144S6M-5Y	60	54	49	63

• NC CURVE

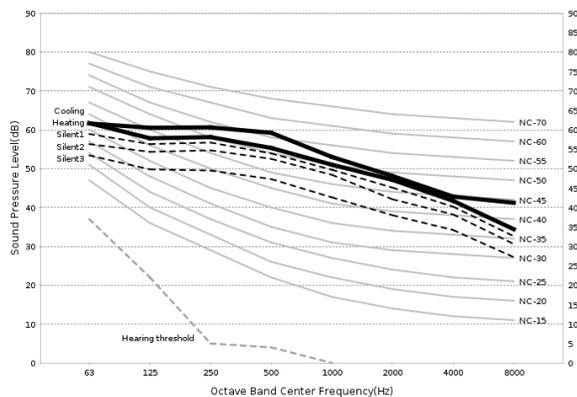
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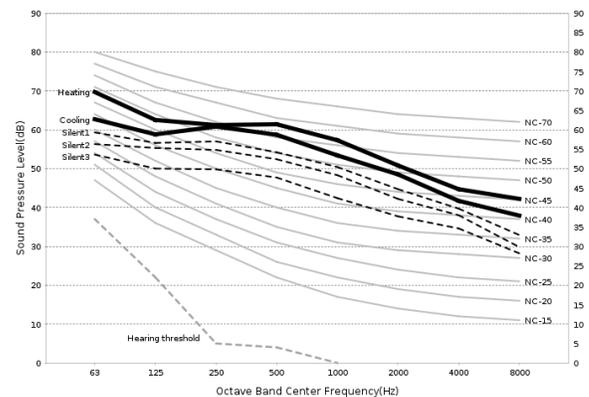
(2) VPD096S6M-5Y



(3) VPD120S6M-5Y



(4) VPD144S6M-5Y



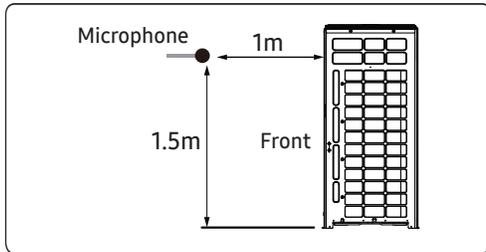
NOTE

- 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 Data

Sound Pressure level

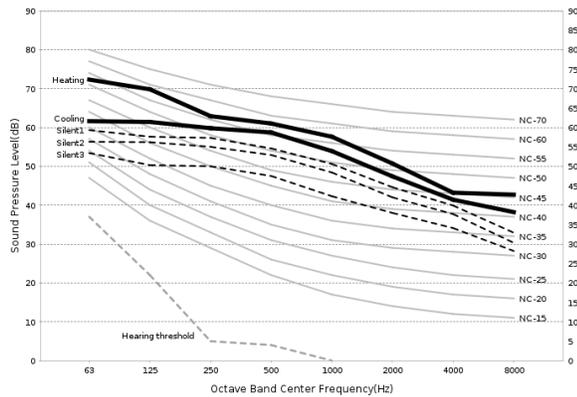
Unit: dB(A)



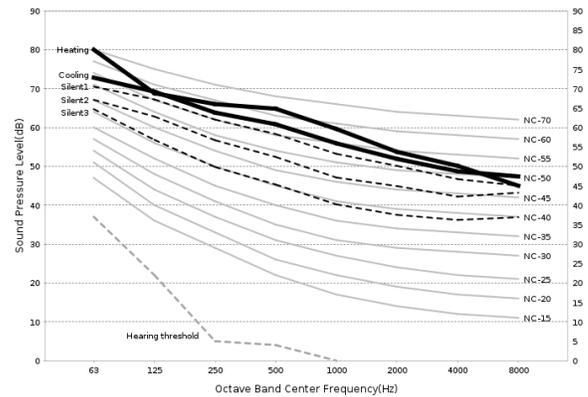
Model	Cooling	Heating			
		Silent 1	Silent 2	Silent 3	
VPD168S6M-5Y	60	57	55	49	63
VPD192S6M-5Y	63	61	56	49	66
VPD216S6M-5Y	64	61	56	49	67
VPD240S6M-5Y	66	61	56	49	68

• NC CURVE

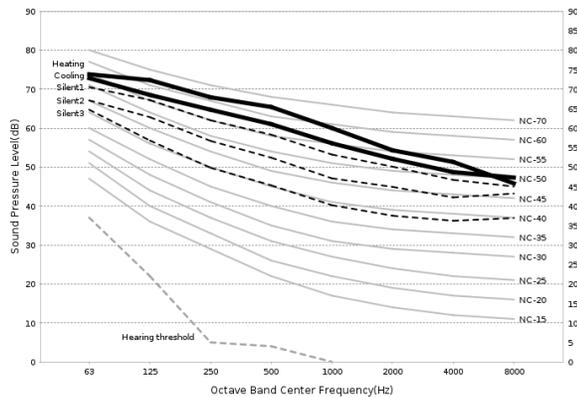
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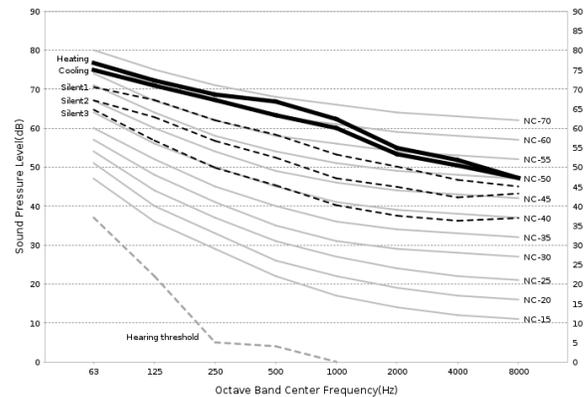
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(3) VPD216S6M-5Y



(4) VPD240S6M-5Y



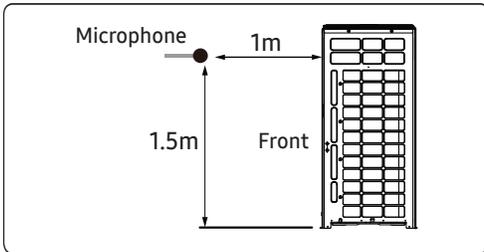
NOTE

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 - Sound pressure level is obtained in an anechoic room.
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 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

Sound Pressure level

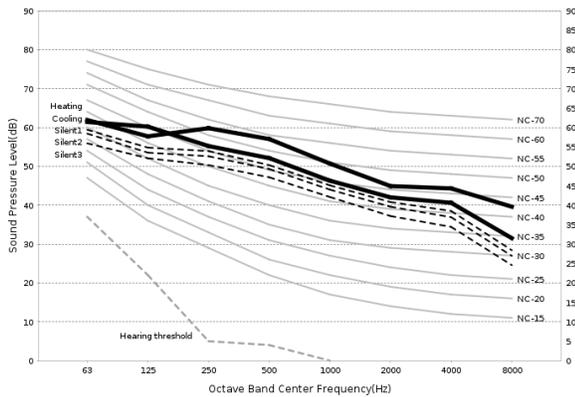
Unit: dB(A)



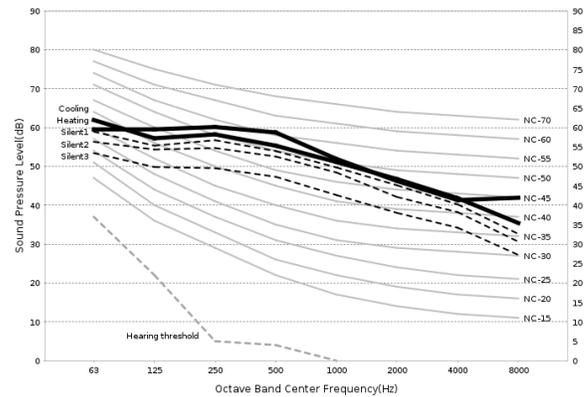
Model	Cooling	Heating			
		Silent 1	Silent 2	Silent 3	
VPD072S6M-5G	54	52	51	49	58
VPD096S6M-5G	57	56	54	49	59
VPD120S6M-5G	57	56	54	49	60
VPD144S6M-5G	60	56	54	49	63

• NC CURVE

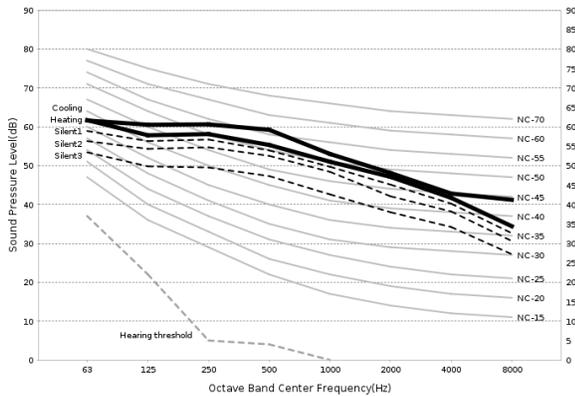
(1) VPD072S6M-5G



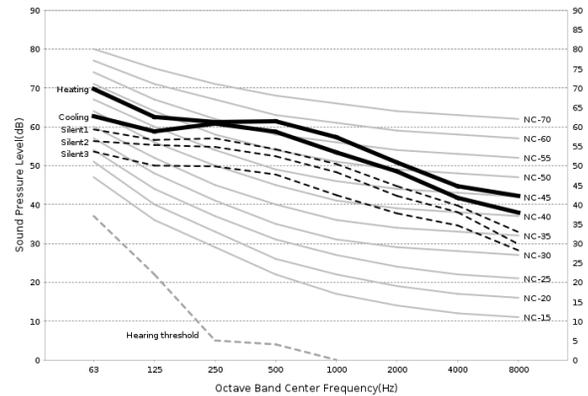
(2) VPD096S6M-5G



(3) VPD120S6M-5G



(4) VPD144S6M-5G



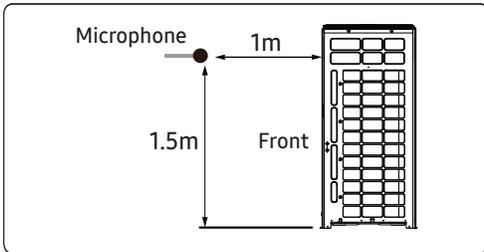
NOTE

- 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 Data

Sound Pressure level

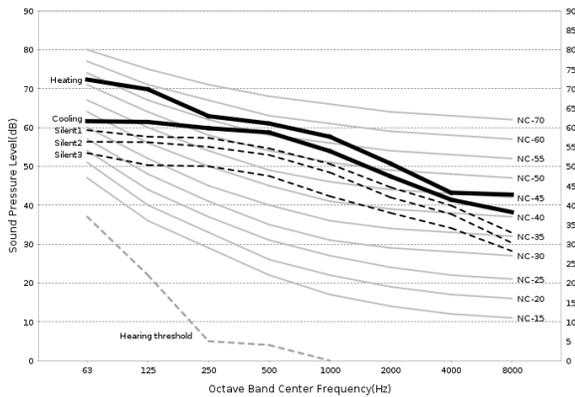
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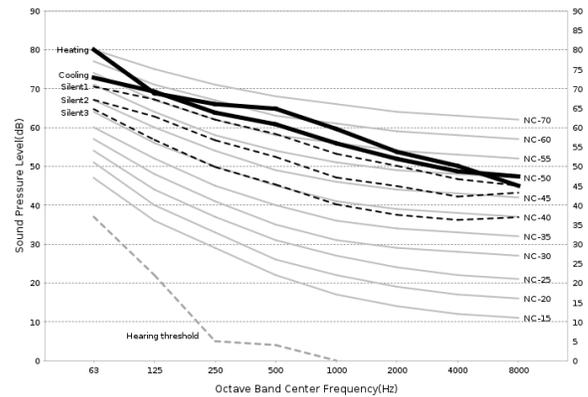
Model	Cooling			Heating
	Silent 1	Silent 2	Silent 3	
VPD168S6M-5G	60	57	49	63
VPD192S6M-5G	63	61	49	66
VPD216S6M-5G	64	61	49	67
VPD240S6M-5G	66	61	49	68

• NC CURVE

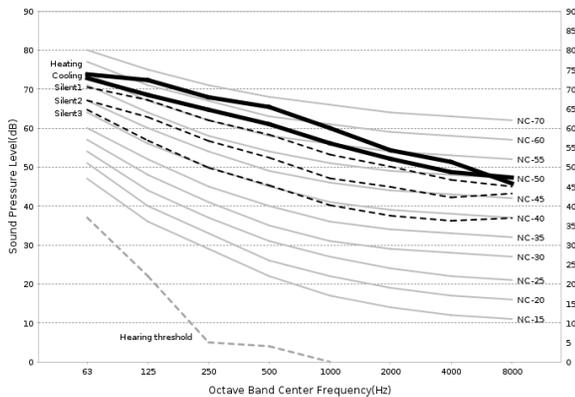
(1) VPD168S6M-5G



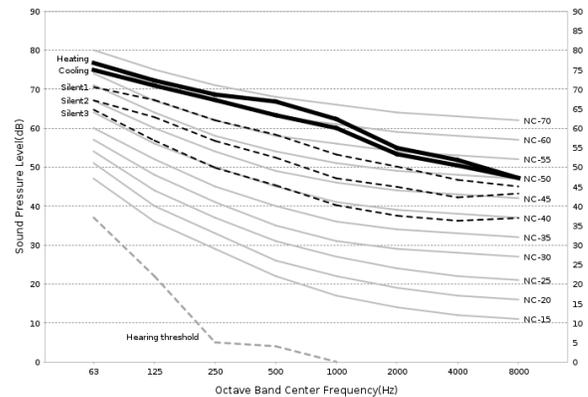
(2) VPD192S6M-5G



(3) VPD216S6M-5G



(4) VPD240S6M-5G



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 Data

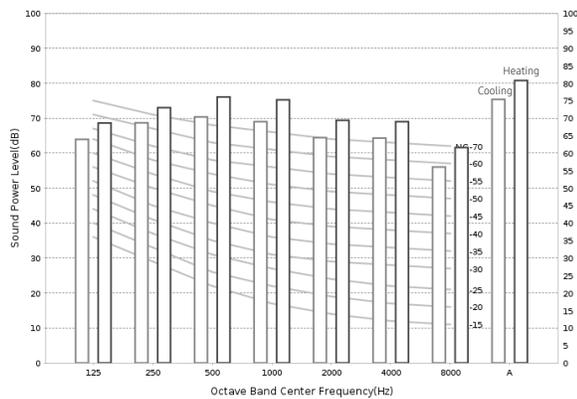
Sound Power level

Unit: dB(A)

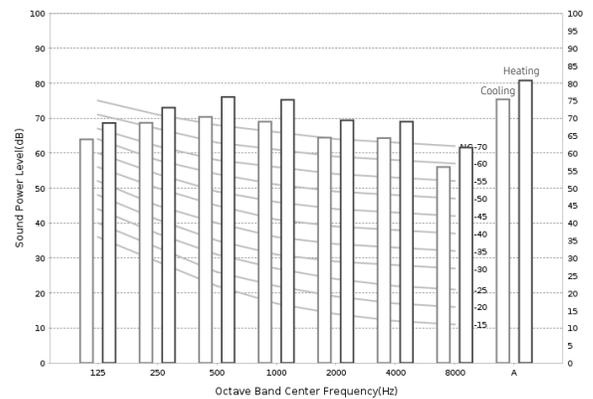
Model	Cooling	Heating
VPD072S6M-5Y	75	80
VPD096S6M-5Y	79	83
VPD120S6M-5Y	79	83
VPD144S6M-5Y	81	84

• NC CURVE

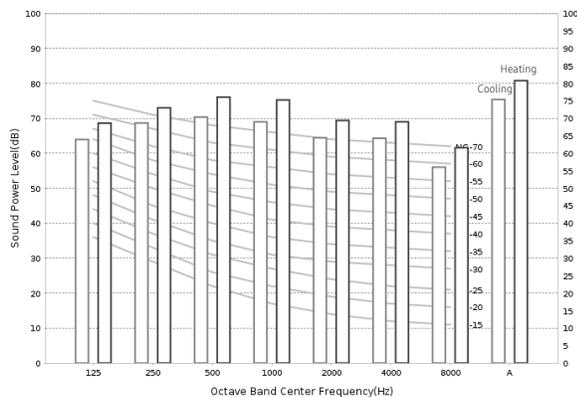
(1) VPD072S6M-5Y



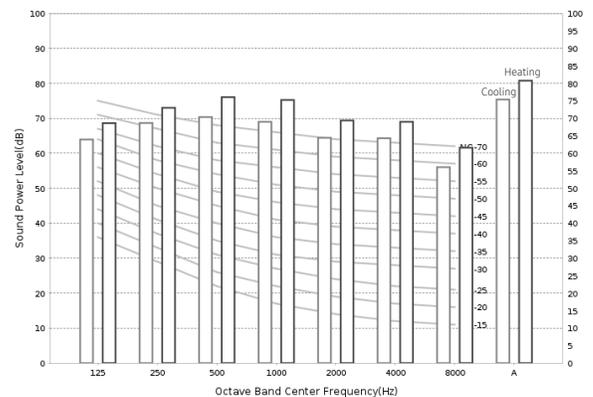
(2) VPD096S6M-5Y



(3) VPD120S6M-5Y



(4) VPD144S6M-5Y



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.

7. Sound Data

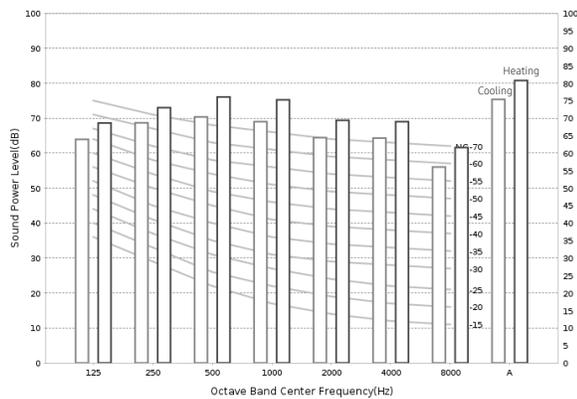
Sound Power level

Unit: dB(A)

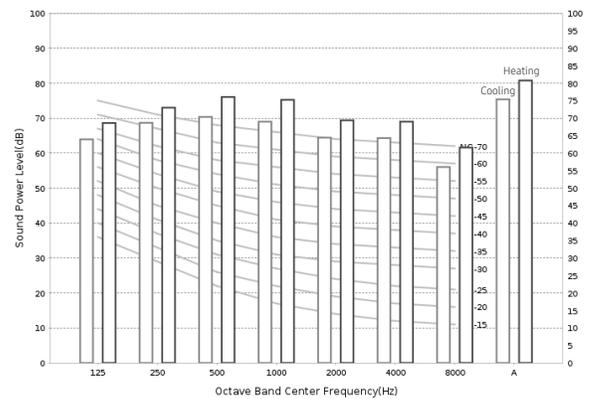
Model	Cooling	Heating
VPD168S6M-5Y	83	85
VPD192S6M-5Y	85	88
VPD216S6M-5Y	85	88
VPD240S6M-5Y	86.5	90

• NC CURVE

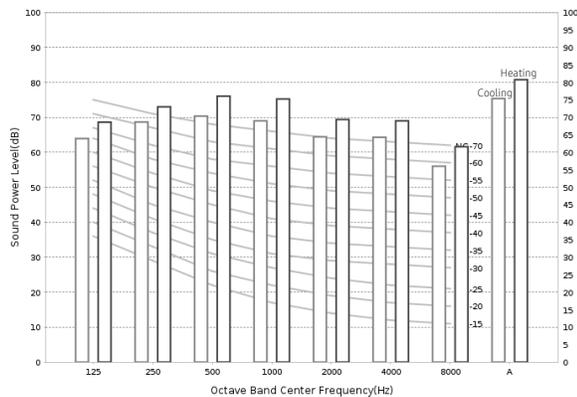
(1) VPD168S6M-5Y



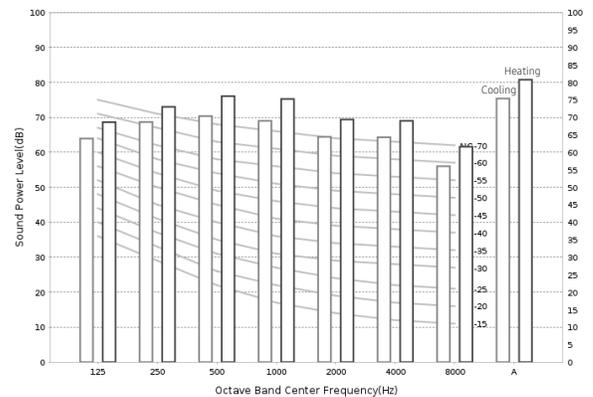
(2) VPD192S6M-5Y



(3) VPD216S6M-5Y



(4) VPD240S6M-5Y



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.

7. Sound Data

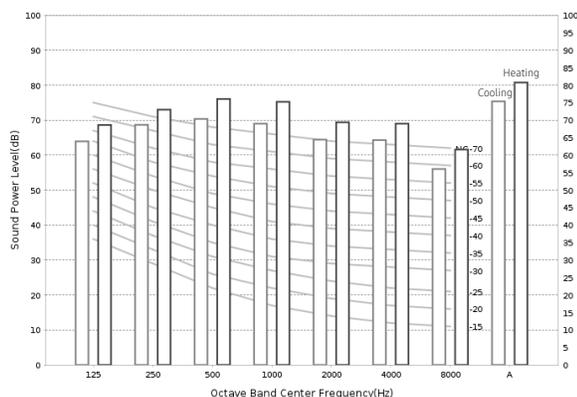
Sound Power level

Unit: dB(A)

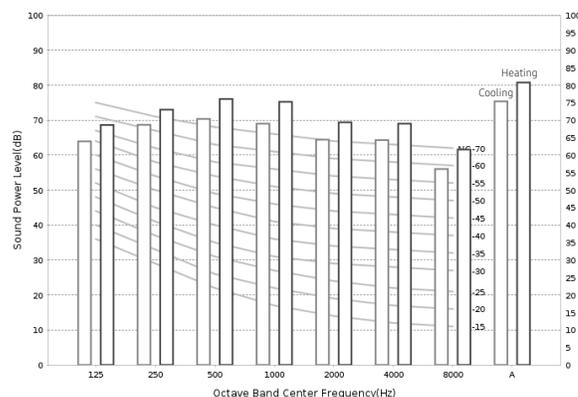
Model	Cooling	Heating
VPD072S6M-5G	75	80
VPD096S6M-5G	79	83
VPD120S6M-5G	79	83
VPD144S6M-5G	81	84

• NC CURVE

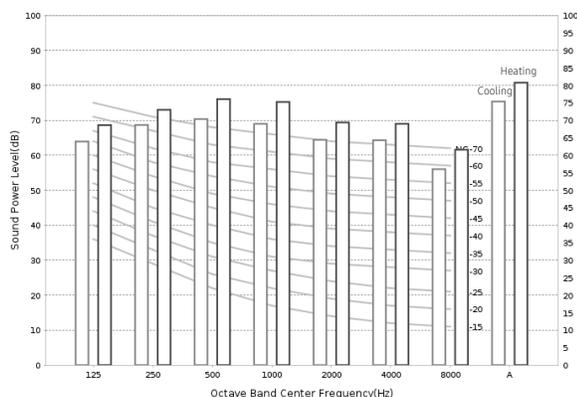
(1) VPD072S6M-5G



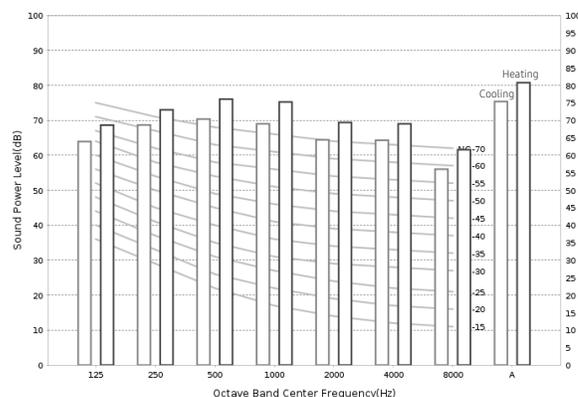
(2) VPD096S6M-5G



(3) VPD120S6M-5G



(4) VPD144S6M-5G



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.

7. Sound Data

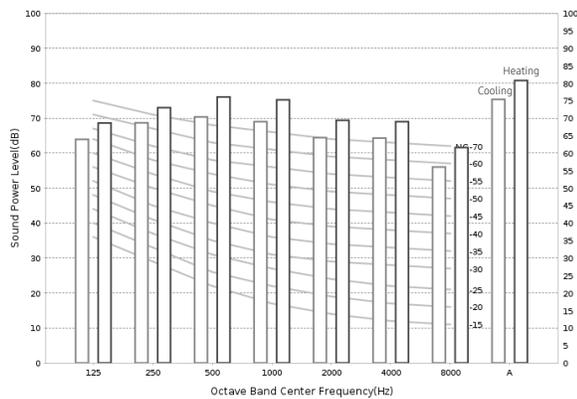
Sound Power level

Unit: dB(A)

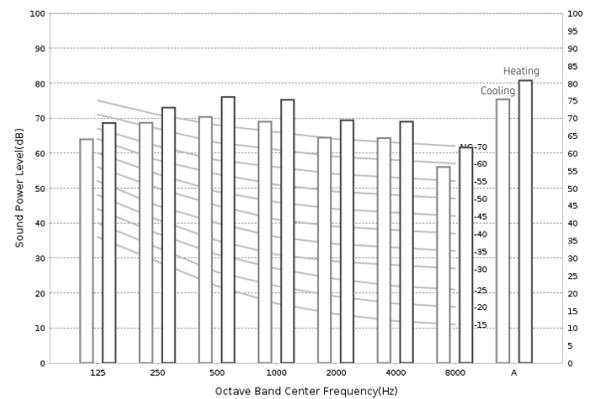
Model	Cooling	Heating
VPD168S6M-5G	83	85
VPD192S6M-5G	85	88
VPD216S6M-5G	85	88
VPD240S6M-5G	86.5	90

• NC CURVE

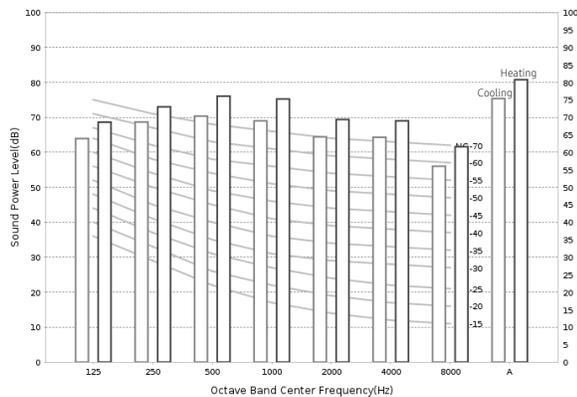
(1) VPD168S6M-5G



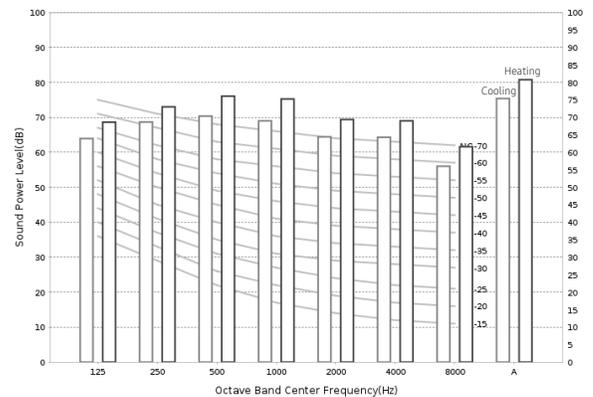
(2) VPD192S6M-5G



(3) VPD216S6M-5G



(4) VPD240S6M-5G



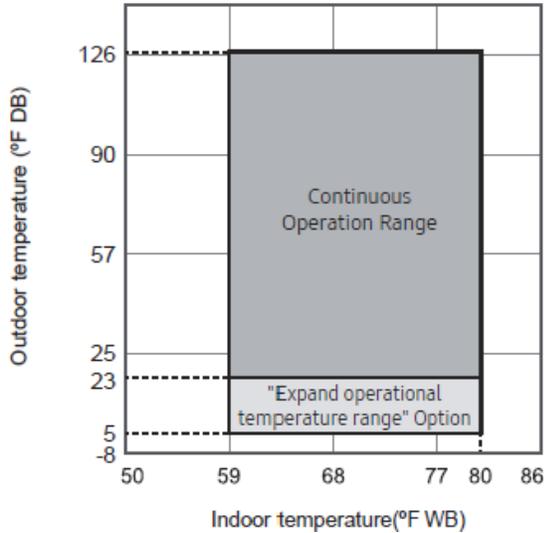
NOTE

- 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.

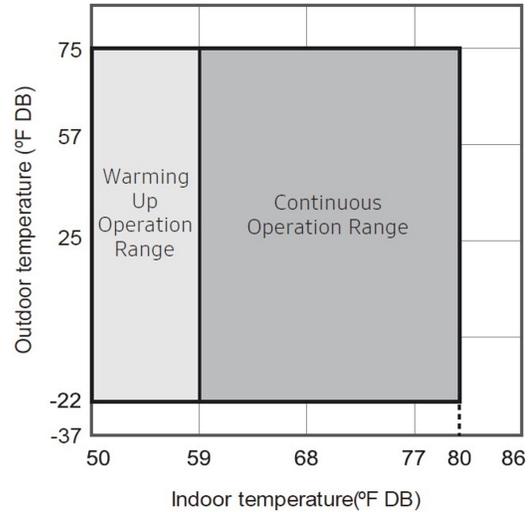
8. Operation Range

Outdoor unit

• Cooling



• Heating



- (1) The operating range is shown in these figures
- (2) The assumed installation conditions are as follows
 - Outdoor units and indoor units combination
 - The Pipe length(including elbow) is 5m (16.4ft)
 - The Level difference is 0m
- (3) In the low temperature expansion option application, the cooling operating is possible under expand operational range only for HR system
- (4) In case of heating mode, operating is possible under warming up operation range. However continuous operating is impossible due to a protection control

8. Operation Range

Outdoor unit

Defrosting correction factor

The heating capacity tables do not take account of the reduction in capacity, when frost has accumulated or while the defrosting operation is in progress.

The capacity values, which take these factors into account, in other words, the integrated heating capacity values, can be calculated as follows :

Formula : $A = B \times C$

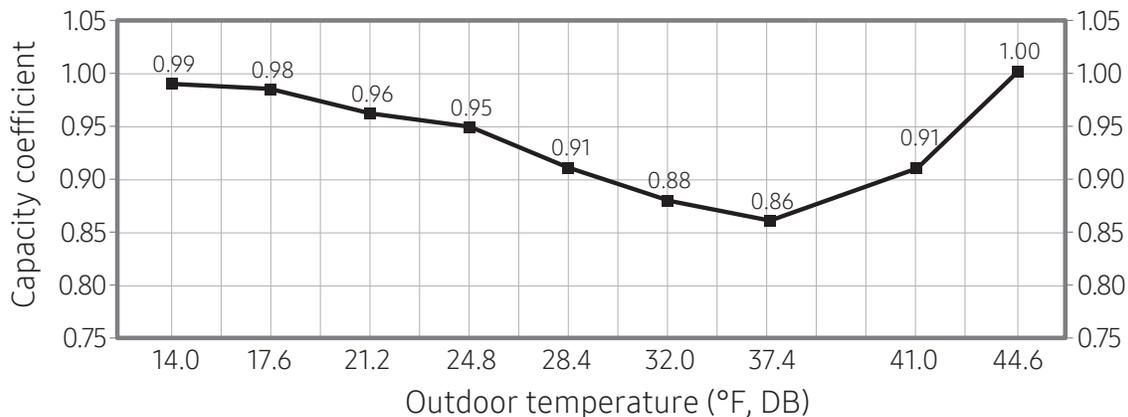
Integrated heating capacity = A

Value given in table of capacity characteristics = B

Integrating correction factor for frost accumulation (kW) = C

Outdoor temperature (°F, DB)	14	17.6	21.2	24.8	28.4	32	37.4	41	44.6
Capacity coefficient	0.99	0.98	0.96	0.95	0.91	0.88	0.86	0.91	1.00

Capacity coefficient of outdoor unit on defrost operation



On heating operation, frost can be formed on heat exchanger according to outdoor temperature.

(Frost on heat exchanger results in decreasing the performance.)

To remove frost on heat exchanger of outdoor unit, defrost operation is carried out periodically.

During defrost operation, capacity of outdoor unit may decrease.

The decrement is not considered to the individual capacity tables.

This figure shows an effect of intelligence defrost operation

It is actually the frost occurrence section from 0 °C(32 °F) or less.

Since the outdoor temperature over 0 °C(32 °F), the heating performance is the same before and after applying intelligence defrost operation

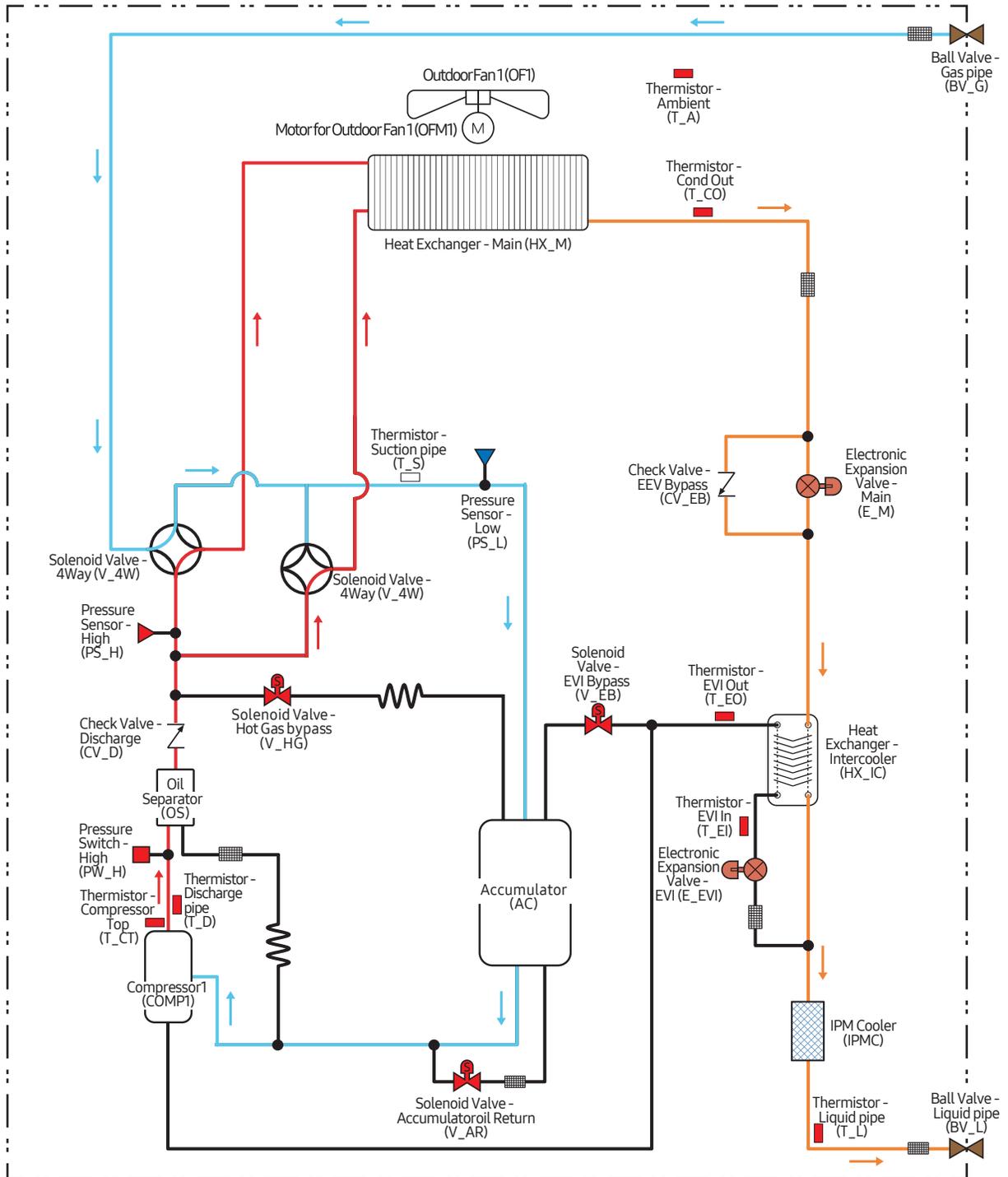
In outdoor conditions below 0 °C(32 °F), frost conditions reflect the actual entering the defrost operation because heating performance is improved

9. Piping Diagram

Outdoor unit

1) VPD072S6M-5*
- Cooling

- High Temperature & Pressure Gas
- High Temperature & Pressure Liquid
- Low Temperature & Pressure Gas
- Low Temperature & Pressure Vapor

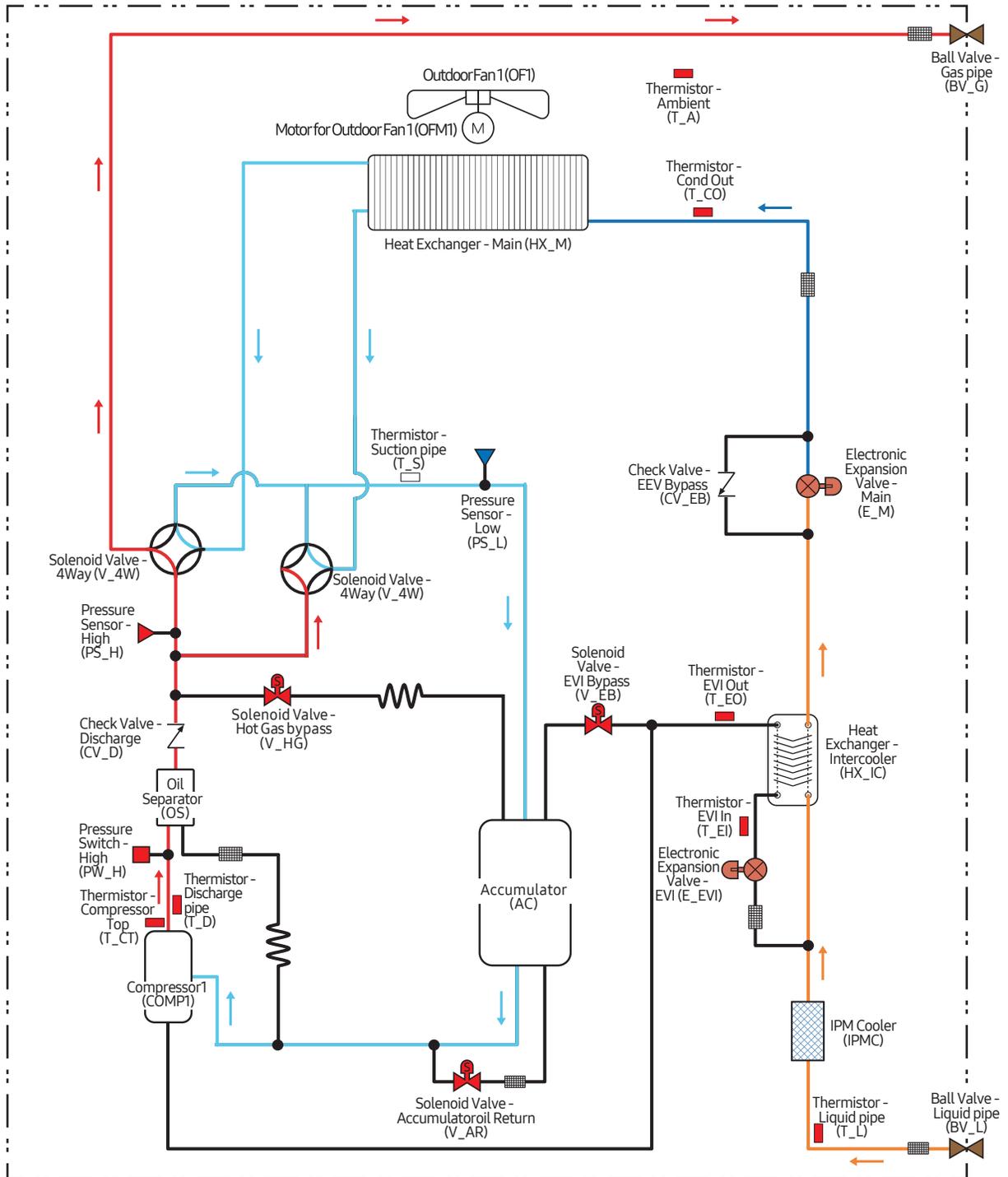


9. Piping Diagram

Outdoor unit

1) VPD072S6M-5*
- Heating

- High Temperature & Pressure Gas
- High Temperature & Pressure Liquid
- Low Temperature & Pressure Gas
- Low Temperature & Pressure Vapor

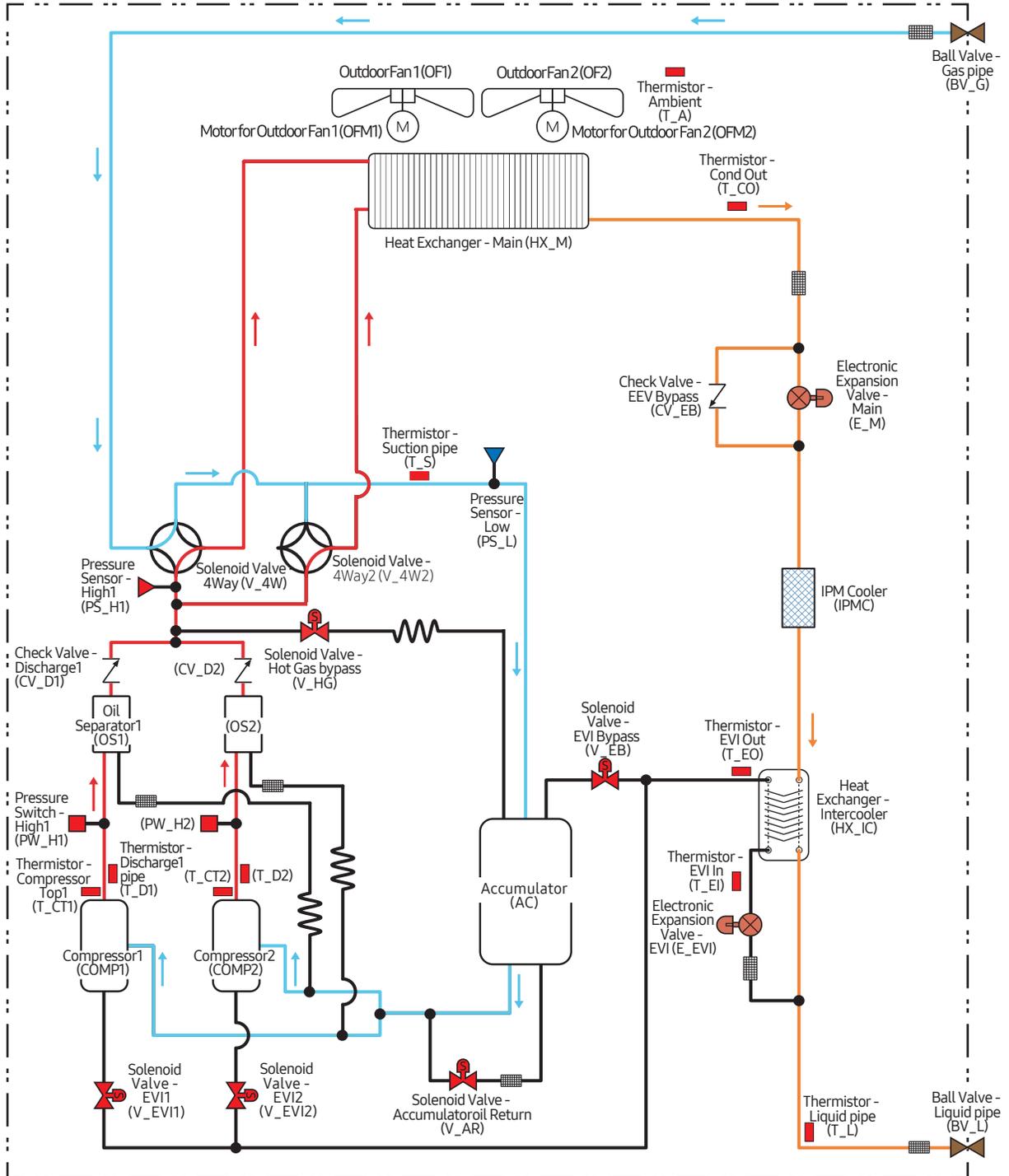


9. Piping Diagram

Outdoor unit

2) VPD096/120/144/168S6M-5*, VPD072/096/120L6M-5*
 – Cooling

- High Temperature & Pressure Gas
- High Temperature & Pressure Liquid
- Low Temperature & Pressure Gas
- Low Temperature & Pressure Vapor

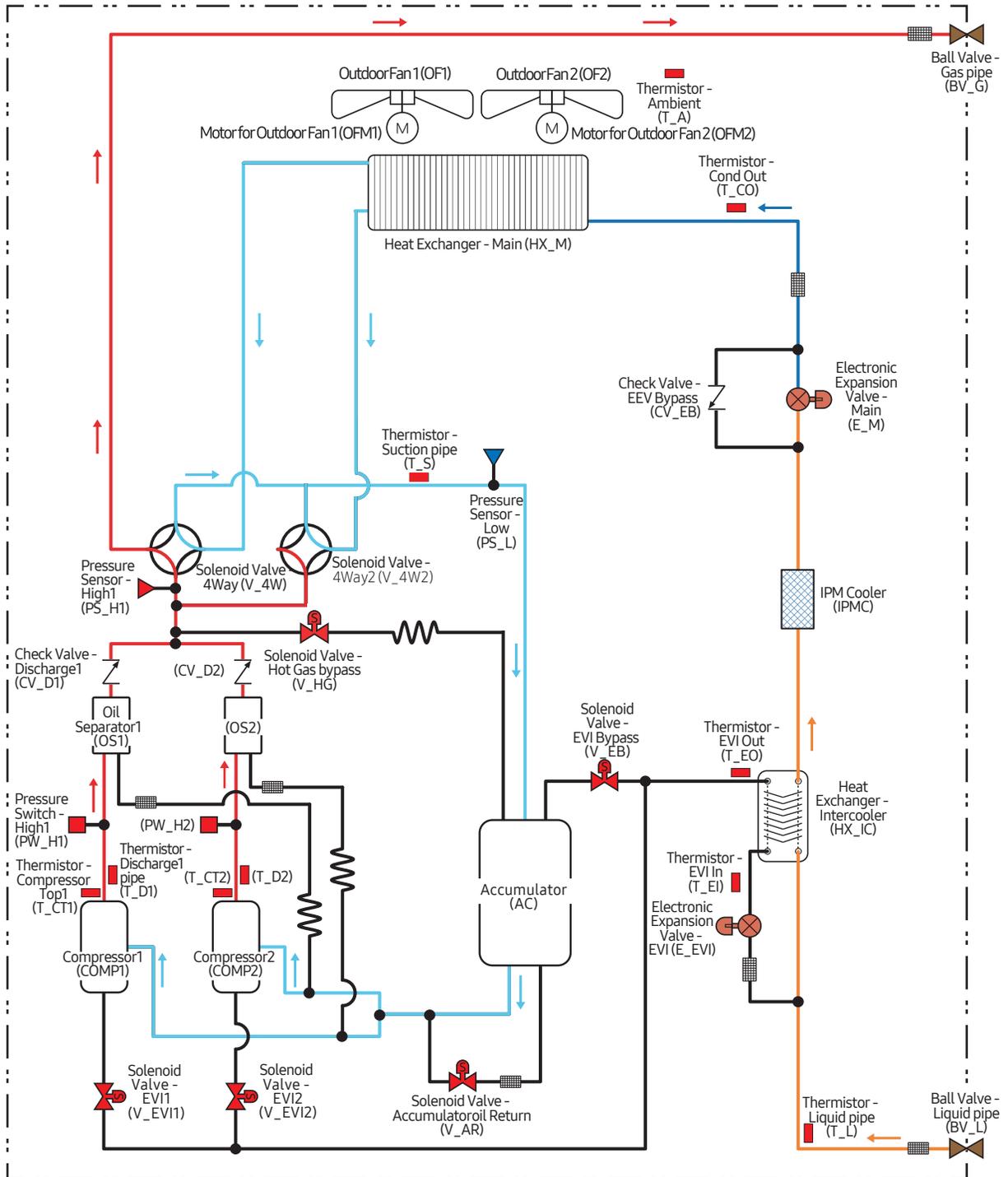


9. Piping Diagram

Outdoor unit

2) VPD096/120/144/168S6M-5*, VPD072/096/120L6M-5*
 – Heating

- High Temperature & Pressure Gas
- High Temperature & Pressure Liquid
- Low Temperature & Pressure Gas
- Low Temperature & Pressure Vapor

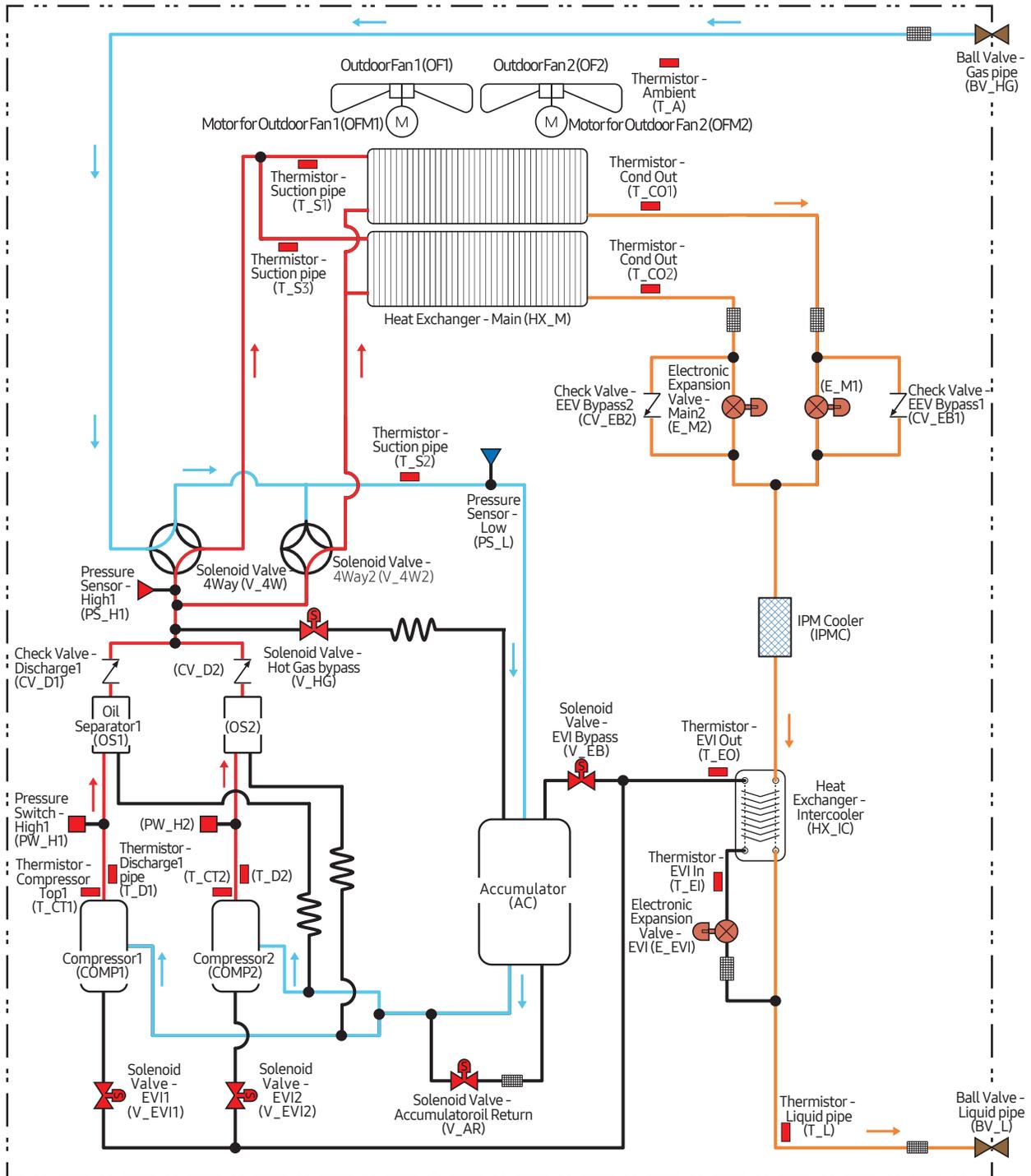


9. Piping Diagram

Outdoor unit

3) VPD192S6M-5*
- Cooling

- High Temperature & Pressure Gas
- High Temperature & Pressure Liquid
- Low Temperature & Pressure Gas
- Low Temperature & Pressure Vapor

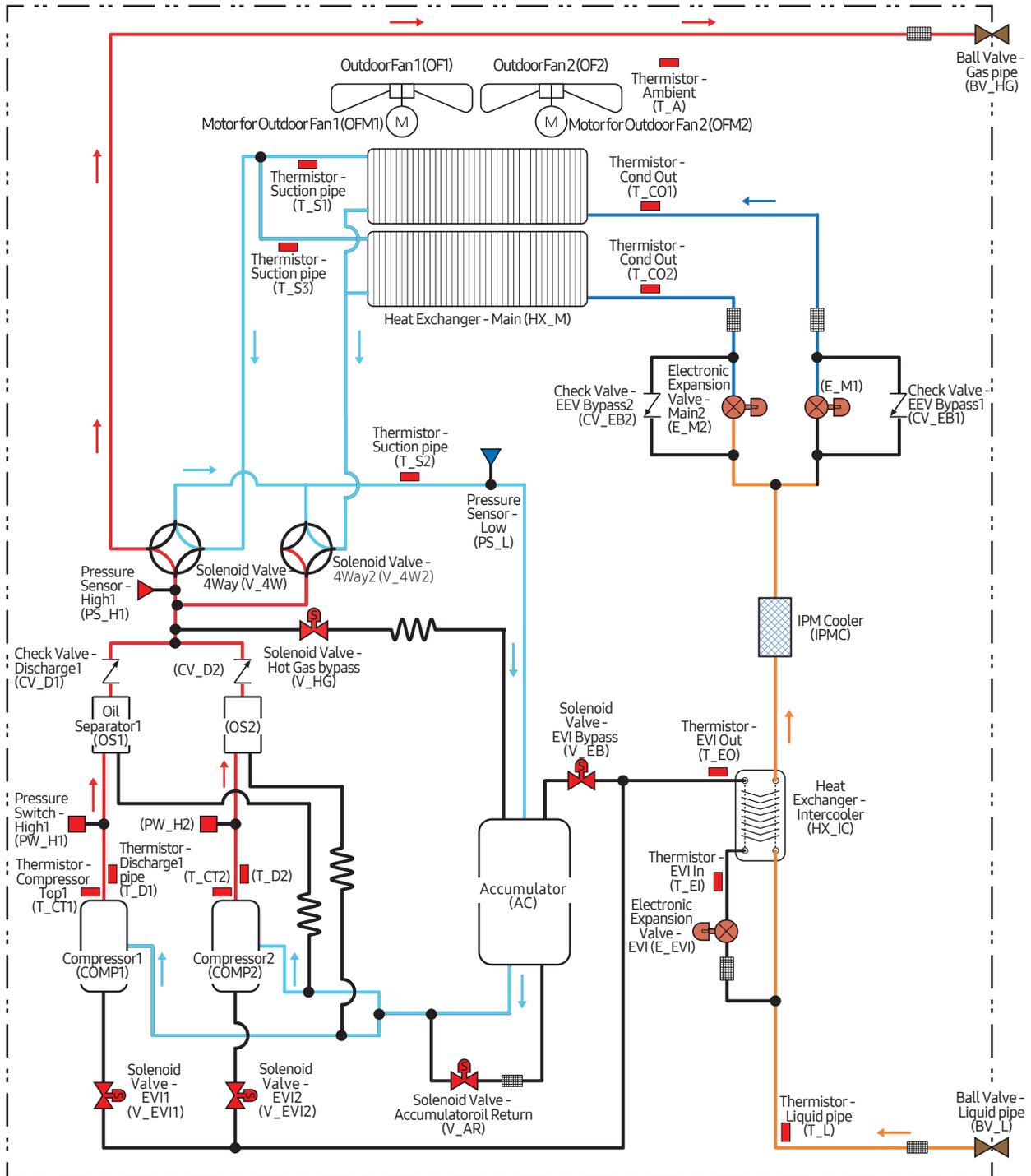


9. Piping Diagram

Outdoor unit

3) VPD192S6M-5*
 – Heating

- High Temperature & Pressure Gas
- High Temperature & Pressure Liquid
- Low Temperature & Pressure Gas
- Low Temperature & Pressure Vapor

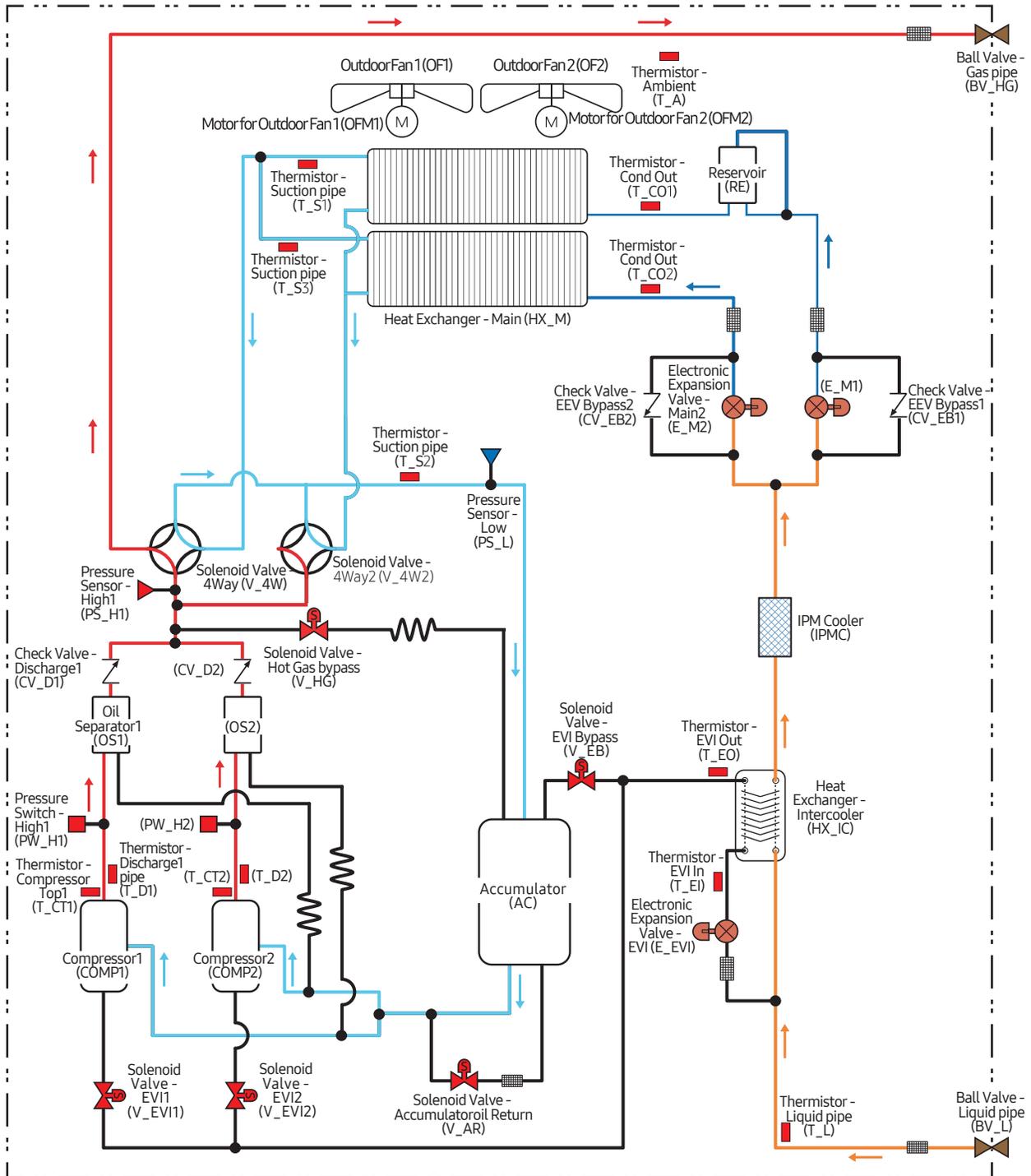


9. Piping Diagram

Outdoor unit

4) VPD216/240S6M-5*
 – Heating

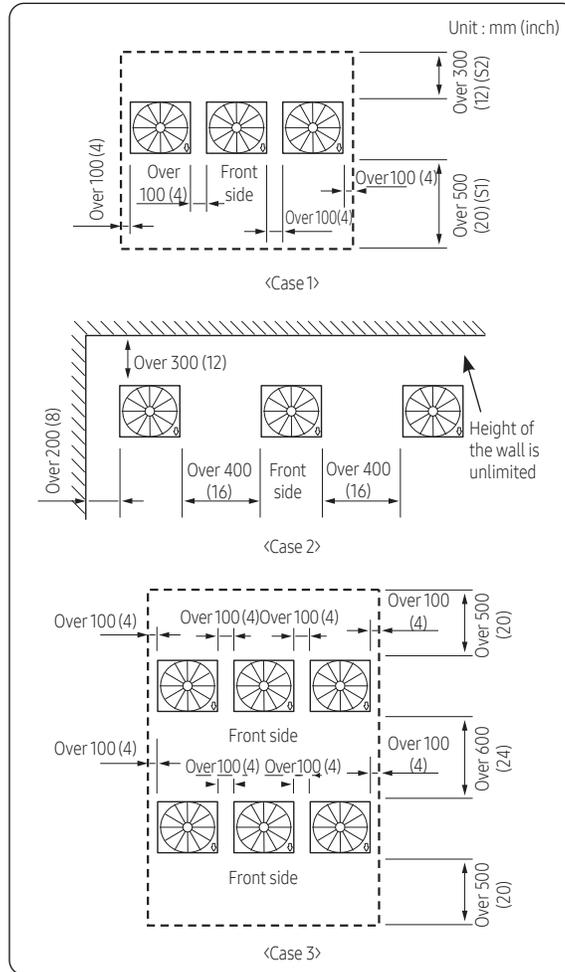
- High Temperature & Pressure Gas
- High Temperature & Pressure Liquid
- Low Temperature & Pressure Gas
- Low Temperature & Pressure Vapor



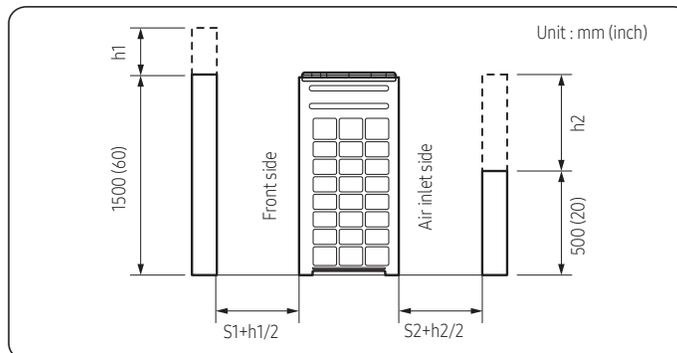
Installation Clearances

Choosing the installation location

Module installation



- For <Case 1> or <Case 3>
 - Height of the wall on the front side should not be higher than 1500mm (60inch).
 - Height of the wall on the air inlet side should not be higher than 500mm (20inch).
 - Height of the wall on the side is not limited.
 - If the height of the wall exceeds by certain value (h_1 , h_2), additional clearance $[(h_1)/2, (h_2)/2]$: Half of the exceeded height] should be added to the service space (S_1 , S_2).



AHRI Data

Model Code	Rated Capacity (Btu/h)		EER (Btu/Wh)		IEER (Btu/Wh)			High COP(47F) (W/W)			Low COP(17F) (W/W)	
	Cooling	Heating	Non-Ducted	Ducted	Non-Ducted	Ducted	Mixed	Non-Ducted	Ducted	Mixed	Non-Ducted	Ducted
VPD072S6M-5Y	69,000	77,000	11.00	11.60	24.18	23.30	23.74	3.93	3.90	3.92	2.70	2.84
VPD096S6M-5Y	92,000	103,000	12.15	12.20	27.98	24.10	26.04	4.21	3.94	4.08	2.92	2.75
VPD120S6M-5Y	114,000	129,000	11.15	11.70	25.92	22.60	24.26	3.85	3.80	3.83	2.81	2.80
VPD144S6M-5Y	138,000	154,000	11.30	11.80	25.16	22.19	23.68	3.65	3.68	3.67	2.69	2.70
VPD168S6M-5Y	160,000	180,000	10.15	10.60	22.91	21.19	22.05	3.55	3.67	3.61	2.51	2.56
VPD192S6M-5Y	184,000	206,000	10.20	11.00	22.50	22.10	22.30	3.20	3.55	3.38	2.22	2.65
VPD216S6M-5Y	206,000	232,000	10.10	10.15	21.50	20.60	21.05	3.20	3.45	3.33	2.18	2.60
VPD240S6M-5Y	228,000	258,000	9.90	9.95	21.44	20.30	20.87	3.24	3.25	3.25	2.39	2.45
VPD264S6M-5Y	252,000	283,000	10.55	10.85	21.76	19.18	20.47	3.49	3.61	3.55	2.44	2.41
VPD288S6M-5Y	276,000	309,000	10.25	10.75	22.70	20.04	21.37	3.33	3.55	3.44	2.26	2.41
VPD312S6M-5Y	298,000	335,000	9.75	10.45	21.15	19.62	20.39	3.31	3.50	3.41	2.32	2.36
VPD336S6M-5Y	320,000	361,000	9.65	10.20	22.05	19.42	20.74	3.30	3.45	3.38	2.46	2.31
VPD360S6M-5Y	342,000	387,000	9.45	9.65	21.86	18.93	20.40	3.24	3.40	3.32	2.33	2.30
VPD384S6M-5Y	368,000	412,000	9.60	9.60	19.47	17.68	18.58	3.30	3.30	3.30	2.20	2.35
VPD408S6M-5Y	390,000	438,000	9.50	9.20	19.26	17.46	18.36	3.25	3.30	3.28	2.15	2.35
VPD432S6M-5Y	412,000	464,000	8.85	9.15	18.32	17.84	18.08	3.30	3.25	3.28	2.17	2.35
VPD456S6M-5Y	436,000	489,000	9.10	9.10	18.02	17.00	17.51	3.29	3.20	3.25	2.10	2.25
VPD072S6M-5G	69,000	77,000	11.00	11.60	24.18	23.30	23.74	3.93	3.90	3.92	2.70	2.84
VPD096S6M-5G	92,000	103,000	12.15	12.20	27.98	24.10	26.04	4.21	3.94	4.08	2.92	2.75
VPD120S6M-5G	114,000	129,000	11.15	11.70	25.92	22.60	24.26	3.85	3.80	3.83	2.81	2.80
VPD144S6M-5G	138,000	154,000	11.30	11.80	25.16	22.19	23.68	3.65	3.68	3.67	2.69	2.70
VPD168S6M-5G	160,000	180,000	10.15	10.60	22.91	21.19	22.05	3.55	3.67	3.61	2.51	2.56
VPD192S6M-5G	184,000	206,000	10.20	11.00	22.50	22.10	22.30	3.20	3.55	3.38	2.22	2.65
VPD216S6M-5G	206,000	232,000	10.10	10.15	21.50	20.60	21.05	3.20	3.45	3.33	2.18	2.60
VPD240S6M-5G	228,000	258,000	9.90	9.95	21.44	20.30	20.87	3.24	3.25	3.25	2.39	2.45
VPD264S6M-5G	252,000	283,000	10.55	10.85	21.76	19.18	20.47	3.49	3.61	3.55	2.44	2.41
VPD288S6M-5G	276,000	309,000	10.25	10.75	22.70	20.04	21.37	3.33	3.55	3.44	2.26	2.41
VPD312S6M-5G	298,000	335,000	9.75	10.45	21.15	19.62	20.39	3.31	3.50	3.41	2.32	2.36
VPD336S6M-5G	320,000	361,000	9.65	10.20	22.05	19.42	20.74	3.30	3.45	3.38	2.46	2.31
VPD360S6M-5G	342,000	387,000	9.45	9.65	21.86	18.93	20.40	3.24	3.40	3.32	2.33	2.30
VPD384S6M-5G	368,000	412,000	9.60	9.60	19.47	17.68	18.58	3.30	3.30	3.30	2.20	2.35
VPD408S6M-5G	390,000	438,000	9.50	9.20	19.26	17.46	18.36	3.25	3.30	3.28	2.15	2.35
VPD432S6M-5G	412,000	464,000	8.85	9.15	18.32	17.84	18.08	3.30	3.25	3.28	2.17	2.35
VPD456S6M-5G	436,000	489,000	9.10	9.10	18.02	17.00	17.51	3.29	3.20	3.25	2.10	2.25



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