

LG

Unitary

Heat Pump(Full Option)

MFL67452925

TOTAL HVAC SOLUTION PROVIDER

ENGINEERING PRODUCT DATA BOOK



Unitary General Information

Model Line Up



1. Model Line Up

Product	Phase	Chassis	Capacity Index	Model Name
			RT	
Single package	3	KE	25	AK-W300DCA0
			20	AK-W240DCA0

* The capacity index may differ from actual capacity values.

Product Data

Single package

Single package

- 1. Specifications**
- 2. List of Functions**
- 3. Accessory Compatibility List**
- 4. Dimensions**
- 5. Piping Diagrams**
- 6. Wiring Diagrams**
- 7. Capacity Tables**
- 8. Operation Limits**
- 9. Fan Performance data**

1. Specifications

1.1 Product

AK-W300DCA0

Category		Unit	Specification
Major	Minor		
Classification	Chassis	-	KE
Power Supply	Case 1	-	460, 3, 50/60
	Limit Range of Voltage	V	414 ~ 506 V
Nominal Capacity	-	RT	25
Cooling Capacity	Net(Min ~ Rated ~ Max)	kW	35.20~80.90~93.80
		kcal/h	30,240~69,600~80,640
		Btu/h	120,000~276,000~320,000
	Gross(Min ~ Rated ~ Max)	kW	37.90~83.60~96.50
		kcal/h	32,560~71,870~82,960
		Btu/h	129,200~285,200~329,200
Heating Capacity	Net(Min ~ Rated ~ Max)	kW	35.20~80.90~93.80
		kcal/h	30,240 ~ 69,600 ~ 80,640
		Btu/h	120,000 ~ 276,000 ~ 320,000
Power Input	Cooling(Min ~ Rated ~ Max)	kW	11.90~26.00~36.20
	Heating(Min ~ Rated ~ Max)	kW	11.60~25.00~34.80
Efficiency	EER	Btu / Wh	10.60
	IEER	Btu / Wh	18.30
	COP	W/W	3.24
Outdoor Fan	Type	-	Propeller Fan
	Diameter	mm(inch)	680 (26-25/32)
	Air Flow Rate(Nominal)	m ³ /min x No.	105 x 4
	Discharge direction	-	Top
Outdoor Fan Motor	Drive	-	BLDC Inverter
	Output	W x No.	900 x 4
Indoor Fan	Type	-	Plug Fan
	Diameter	mm(inch)	630 (25)
	Air Flow Rate(Nominal)	m ³ /min	261.0
Indoor Fan Motor	Drive	-	BLDC Inverter
	Output	HP x No.	10 x 1
Pre-Filter(Washable)	No.	EA	2
	Size(W x H x D)	inch	75 x 20 x 0.28
2" Filter(Field Acc.)	No.	EA	6
	Size(W x H x D)	inch	25 x 20 x 2
Compressor(#1, A Cycle)	Type	-	HSS DC SCROLL
	Motor Output	W x No.	5,500 x 1
	Oil Type	-	FW68D(PVE)
	Oil Charging amount	cc x No.	1,500 x 1
Compressor(#2, B Cycle)	Type	-	HSS DC SCROLL
	Motor Output	W x No.	5,500 x 1
	Oil Type	-	FW68D(PVE)
	Oil Charging amount	cc x No.	1,500 x 1
Outdoor Coil	Rows x Columns x FPI	-	3 × 52 × 16
	No.	-	2
	Fin Type	-	Wide Louver Plus
	Tube size(Outer Dia.)	mm(inch)	7 (9/32)
	Face Area	m ²	4.5
Indoor Coil	Rows x Columns x FPI	-	4 × 44 × 18
	No.	-	2
	Fin Type	-	LG Louver

1. Specifications

Category		Unit	Specification
Major	Minor		
Indoor Coil	Tube size(Outer Dia.)	mm(inch)	9.52 (3/8)
	Face Area	m ²	2.01
Dimensions	Net(W x H x D)	mm	2,230 x 1,242 x 3,520
	Shipping(W x H x D)	mm	2,250 x 1,270 x 3,560
Weight	Net	kg	925.0
	Shipping	kg	955.0
Refrigerant	Type	-	R410A
	Precharged Amount(A-Circuit)	kg	9.0
	Precharged Amount(B-Circuit)	kg	9.0
	Control Type	-	EEV
Dehumidification Rate	-	l/h	30.1
Drain Connection Size	-	inch	Male NPT 1"
Sound Pressure Level	Cooling / Heating	dB(A)	77.0 / 77.0
Electrical Characteristic	Minimum Circuit Amperes (MCA)	A	69
	Maximum Fuse Amperes (MFA)	A	80
	Comp_Rated Load Amperes	A	44.8
	Outdoor Fan Motor_Full Load Amperes (FLA)	A	8.0
	Indoor Fan Motor_Full Load Amperes (FLA)	A	5.0

Note

- Due to our policy of innovation some specifications may be changed without notification.
- Sound pressure level is measured on the rated condition at Noise Measuring chamber accordance with standard. Its back ground noise is 55dB(A). Therefore, these values can be increased owing to ambient conditions during operation.
- This product contains Fluorinated greenhouse gases.
- Symbols
 - EER : Energy Efficiency Ratio
 - IEER : Integrated Energy Efficiency Ratio
 - COP : Coefficient of Performance
 - EER & COP represent the efficiency at rated capacity.
- Voltage supplied to the unit terminals should be within the minimum and maximum range.
- Maximum allowable voltage unbalance between phase is 2%.
- MCA : Minimum Circuit Amperes(A), MFA : Maximum Fuse Amperes(A)
MCA = (1.25 x Ampere of largest motor) + Load2 + Load3 + Load4.
- Select the wire size based on the MCA.
- MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker. [circuit breaker type is ELCB(Earth Leakage Circuit Breaker)].
- Performances are based on the following conditions :
 - Cooling : Indoor Ambient Temp. 26.7°C (80°F)DB / 19.4°C (67°F)WB
Outdoor Ambient Temp. 35°C (95°F)DB / 23.9° (75°F)WB
 - Heating : Indoor Ambient Temp. 21.1°C (70°F)DB / 15.6°C (60°F)WB
Outdoor Ambient Temp. 8.3°C (47°F)DB / 6.1° (43°F)WB

1. Specifications

AK-W240DCA0

Category		Unit	Specification
Major	Minor		
Classification	Chassis	-	KE
Power Supply	Case 1	-	460, 3, 50/60
	Limit Range of Voltage	V	414 ~ 506 V
Nominal Capacity	-	RT	20
Cooling Capacity	Net(Min ~ Rated ~ Max)	kW	30.50~70.30~81.50
		kcal/h	26,210~60,480~70,050
		Btu/h	104,000~240,000~278,000
	Gross(Min ~ Rated ~ Max)	kW	32.50~72.30~83.50
		kcal/h	27,950~62,220~71,800
		Btu/h	110,900~246,900~284,900
Heating Capacity	Net(Min ~ Rated ~ Max)	kW	30.50~70.30~81.50
		kcal/h	26,210 ~ 60,480 ~ 70,050
		Btu/h	104,000 ~ 240,000 ~ 278,000
Power Input	Cooling(Min ~ Rated ~ Max)	kW	9.70~21.30~29.70
	Heating(Min ~ Rated ~ Max)	kW	9.50~20.80~29.00
Efficiency	EER	Btu / Wh	11.30
	IEER	Btu / Wh	19.00
	COP	W/W	3.38
Outdoor Fan	Type	-	Propeller Fan
	Diameter	mm(inch)	680 (26-25/32)
	Air Flow Rate(Nominal)	m ³ /min x No.	105 x 4
	Discharge direction	-	Top
Outdoor Fan Motor	Drive	-	BLDC Inverter
	Output	W x No.	900 x 4
Indoor Fan	Type	-	Plug Fan
	Diameter	mm(inch)	630 (25)
	Air Flow Rate(Nominal)	m ³ /min	227.0
Indoor Fan Motor	Drive	-	BLDC Inverter
	Output	HP x No.	10 x 1
Pre-Filter(Washable)	No.	EA	2
	Size(W x H x D)	inch	75 x 20 x 0.28
2" Filter(Field Acc.)	No.	EA	6
	Size(W x H x D)	inch	25 x 20 x 2
Compressor(#1, A Cycle)	Type	-	HSS DC SCROLL
	Motor Output	W x No.	5,500 x 1
	Oil Type	-	FW68D(PVE)
	Oil Charging amount	cc x No.	1,500 x 1
Compressor(#2, B Cycle)	Type	-	HSS DC SCROLL
	Motor Output	W x No.	5,500 x 1
	Oil Type	-	FW68D(PVE)
	Oil Charging amount	cc x No.	1,500 x 1
Outdoor Coil	Rows x Columns x FPI	-	3 × 52 × 16
	No.	-	2
	Fin Type	-	Wide Louver Plus
	Tube size(Outer Dia.)	mm(inch)	7 (9/32)
	Face Area	m ²	4.5
Indoor Coil	Rows x Columns x FPI	-	4 × 44 × 18
	No.	-	2
	Fin Type	-	LG Louver
	Tube size(Outer Dia.)	mm(inch)	9.52 (3/8)
	Face Area	m ²	2.01

1. Specifications

Category		Unit	Specification
Major	Minor		
Dimensions	Net(W x H x D)	mm	2,230 x 1,242 x 3,520
	Shipping(W x H x D)	mm	2,250 x 1,270 x 3,560
Weight	Net	kg	925.0
	Shipping	kg	955.0
Refrigerant	Type	-	R410A
	Precharged Amount(A-Circuit)	kg	9.0
	Precharged Amount(B-Circuit)	kg	9.0
	Control Type	-	EEV
Dehumidification Rate	-	ℓ/h	24.1
Drain Connection Size	-	inch	Male NPT 1"
Sound Pressure Level	Cooling / Heating	dB(A)	77.0 / 77.0
Electrical Characteristic	Minimum Circuit Amperes (MCA)	A	69
	Maximum Fuse Amperes (MFA)	A	80
	Comp_Rated Load Amperes	A	44.8
	Indoor Fan Motor_Full Load Amperes (FLA)	A	8.0
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- Symbols
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- Voltage supplied to the unit terminals should be within the minimum and maximum range.
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 $MCA = (1.25 \times \text{Ampere of largest motor}) + \text{Load2} + \text{Load3} + \text{Load4}$.
- Select the wire size based on the MCA.
- MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker. [circuit breaker type is ELCB(Earth Leakage Circuit Breaker)].
- Performances are based on the following conditions :
 - Cooling : Indoor Ambient Temp. 26.7°C (80°F)DB / 19.4°C (67°F)WB
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 - Heating : Indoor Ambient Temp. 21.1°C (70°F)DB / 15.6°C (60°F)WB
 Outdoor Ambient Temp. 8.3°C (47°F)DB / 6.1°C (43°F)WB

2. List of Functions

AK-W300DCA0, AK-W240DCA0

Category	Functions	Availability
Air Flow	Air Supply Outlet	1
	Airflow Steps (fan/cool/heat)	3 / 3 / 3
	Power Cool/Heat	X / X
	Dry Operation	O
Air Purification	Pre-Filter	O
Reliability	Hot Start	O
	Defrost / Deicing	O
	High Pressure Switch	O
	Phase Protection	O
	Restart Delay (3-minutes)	O
	Self Diagnosis	O
	Soft Start	O
	Coil Guard	O
	Return Temperature Sensor	O
	Filter Differential Pressure Switch	O
Convenience	Auto Mode	O
	Auto Restart	O
	Child Lock*	O
	Forced Operation	X
	Group Control*	Accessory
	Sleep Timer**	X
	Turn On/Off Reservation**	O
	Schedule**	O
	Two Thermistor Control*	Accessory
	Low Noise Operation	-
Installation	E.S.P Setting*	O
	Test Function	X
	Electric Backup Heater	X
Special Functions	Central Control(LGAP)	-
	Economizer*	Accessory

Note

- O : Applied, X : Not applied, Embedded : Included with product.
 - Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.
 - Accessory line-ups varies by region, so check your local catalogue or local sales material.
- Some functions can be limited by remote controller.
- Selecting a wireless remote controller in case of ducted type indoor units requires either a connection to the wired remote controller (Standard II) or an IR receiver accessory to be connected to the duct in order to receive the signal.
- 'Auto Mode' varies depending on the outdoor unit type.
 - Auto Change Over(Single Heat Pump Outdoor Unit)
 - Auto Mode Select(Multi Heat Pump Outdoor Unit)
 - Auto Intensity Control(Cooling Only Outdoor Unit)
- * : These functions need to connect the wired remote controller.
- ** : This functions need to connect to the Standard II / III wired remote controller.
- *** : This functions need to connect to the Standard III wired remote controller.

3. Accessory Compatibility List

AK-W300DCA0, AK-W240DCA0

Category	Accessory Name	Model Name	Description	Compatibility
Central Controller	AC EZ	PQCSZ250S0	-	O
	AC EZ touch	PACEZA000	Touch type	O
	AC Smart IV	PACS4B000	Touch type	O
	AC Smart 5	PACS5A000	Touch type	O
	ACP IV	PACP4B000	-	O
	ACP 5	PACP5A000	-	O
	AC Manager IV	PACM4B000	For Integrated Control	O
	AC Manager 5	PACM5A000	For Integrated Control	O
Remote Controller	Wired - Premium	PREMTA000	-	O
		PREMTA000A	-	O
		PREMTA000B	-	O
	Wired - RS3 (Standard III)	PREMTB100/PREMTB101	White	O
	Wired - RS2 (Standard II)	PREMTB001	White	O
		PREMTBB01	Black	O
	Wired - 86 (Standard)	PQRCUC2W	86 Remote Controller	X
	Wireless	PQWRCQ0FDB	For Cooling only	X
		PQWRHQ0FDB	For Heat pump	O
Dry Contact	Simple	PDRYCB000	1 input port, AC 220 - 240V	O
	Communication	PDRYCB400	2 input port(For Setback)	O
		PDRYCB300	8 input port, For 3rd party Thermostat	O
		PDRYCB500	For 3rd Party Controller(Modbus RTU)	O
Gateway	ODU PI485	PMNFP14A1	For 16-room	X
	ACP BACnet	PQNFB17C0	-	O
	ACP Lonwork	PLNWKB000	-	O
Integration Device	Remote Temperature sensor	PQRSTA0	Room temperature sensor, NTC 10kΩ, include casing	O
	Group Control wire	PZCWRCG3	Cable Assembly for group control (Y-type cable : 0.25m, cable : 9.6m)	O
	PDI Standard	PPWRDB000	Power distributor 2port	O
	PDI Premium	PQNUD1S40	Power distributor 8port	O
ETC	CTI (Communication transfer in interface)	PKFC0	-	O
	Extension wire	PZCWRC1	Extension wire for IDU-wired remote controller (9.6m)	O
	2-Remo Control wire	PZCWRC2	Y-type cable to connect additional Remote Controller as slave	X
	Economizer	PKEMD1CA0	-	O

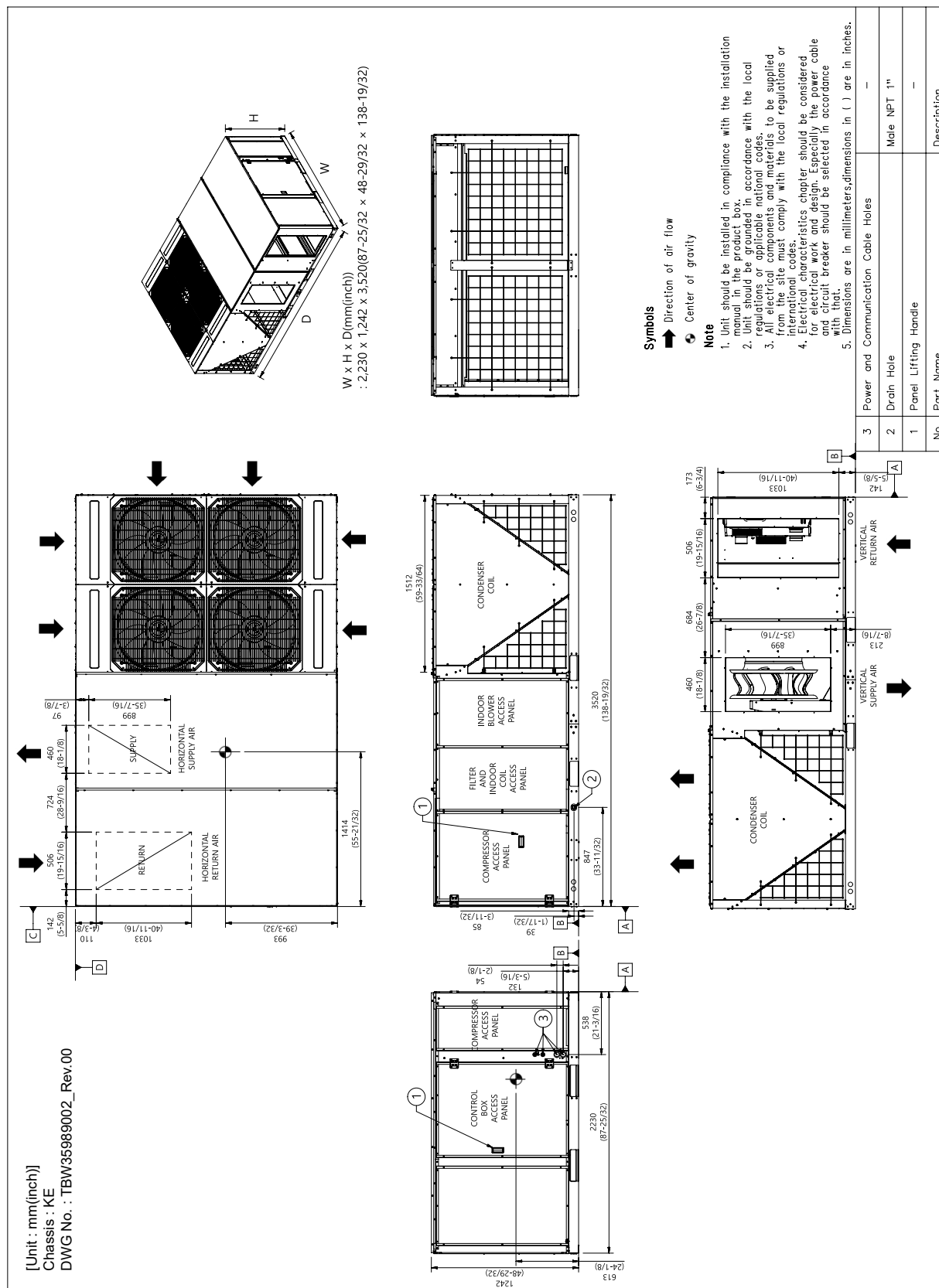
Note

- O: Possible, X: Impossible, -: Unconfirmed or irrelevant, Embedded : Included with product.
- For using AC Manager, ACP or AC Smart is needed.
- Selecting a wireless remote controller in case of ducted type indoor units requires either a connection to the wired remote controller (Standard II) or an IR receiver accessory to be connected to the duct in order to receive the signal.
- This model does not require PI 485 Kit, because it can communicate through RS 485 method by itself.
- The Economizer only works with the RS3 Remote Controller.
- If you need more detail, please refer to the Control(BECON) PDB or the manual of product.
<http://partner.lge.com> > Select Your Region : Home> Doc.Library> Product > Control(BECON)).

4. Dimensions

4.1 Dimensional Drawing

AK-W300DCA0, AK-W240DCA0

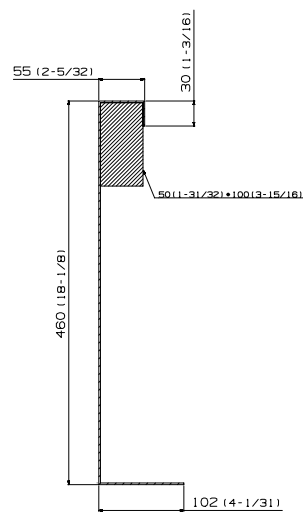
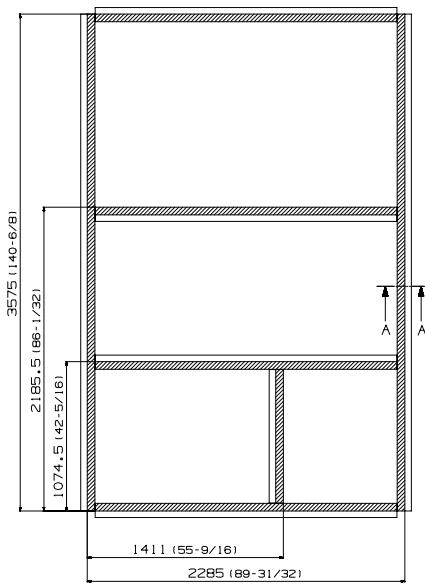
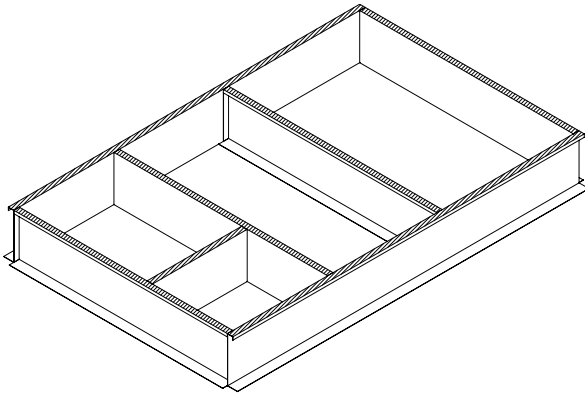


4. Dimensions

4.2 Dimensional Drawing (Roof Curbs)

AK-W300DCA0, AK-W240DCA0

[Unit : mm (inch)]

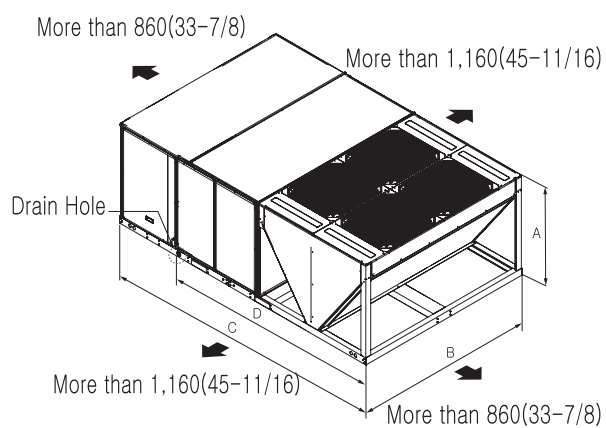


SECTION A-A

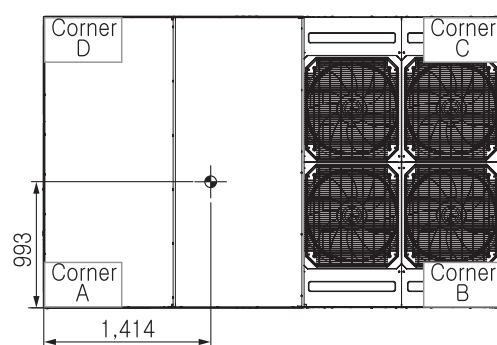
4. Dimensions

4.3 Installation Space

AK-W300DCA0, AK-W240DCA0



* Corner Weight

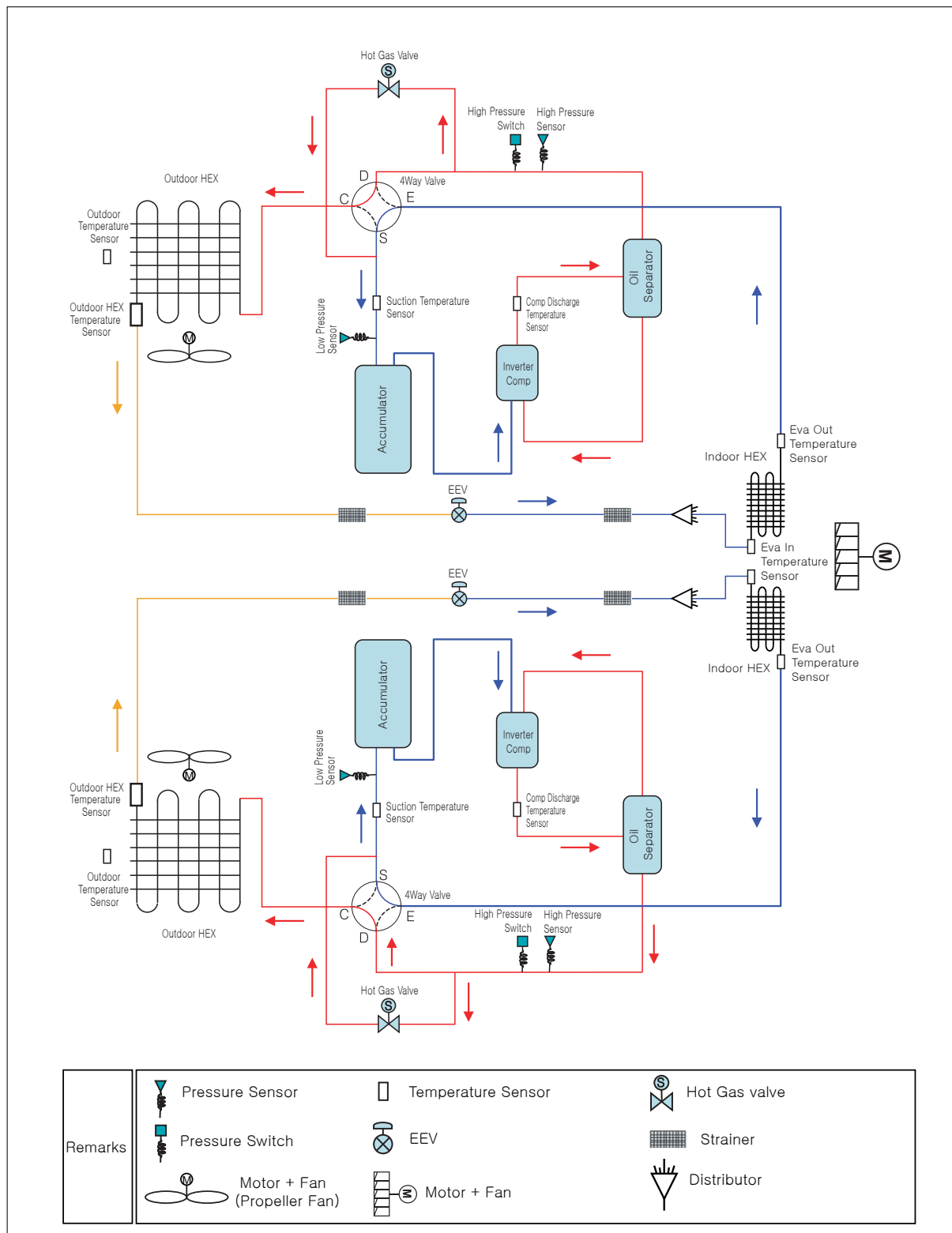


Model	Corner Weights (kg)				Center of Gravity (mm)	
	A	B	C	D	Length	Width
20 RT / 25 RT	315	212	169	253	1,414	993

5. Piping Diagrams

5.1 Cooling Operation

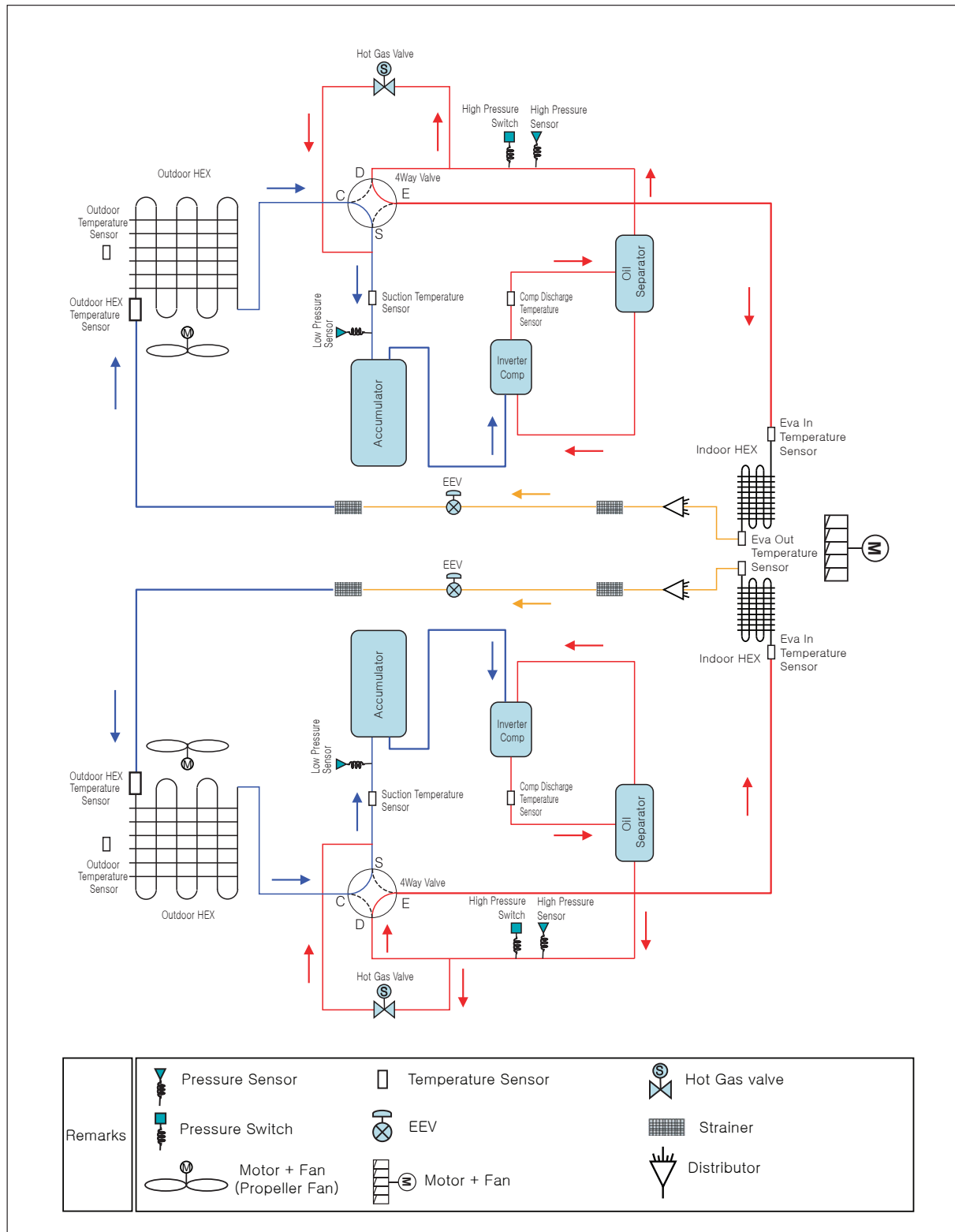
AK-W300DCA0, AK-W240DCA0



5. Piping Diagrams

5.2 Heating Operation

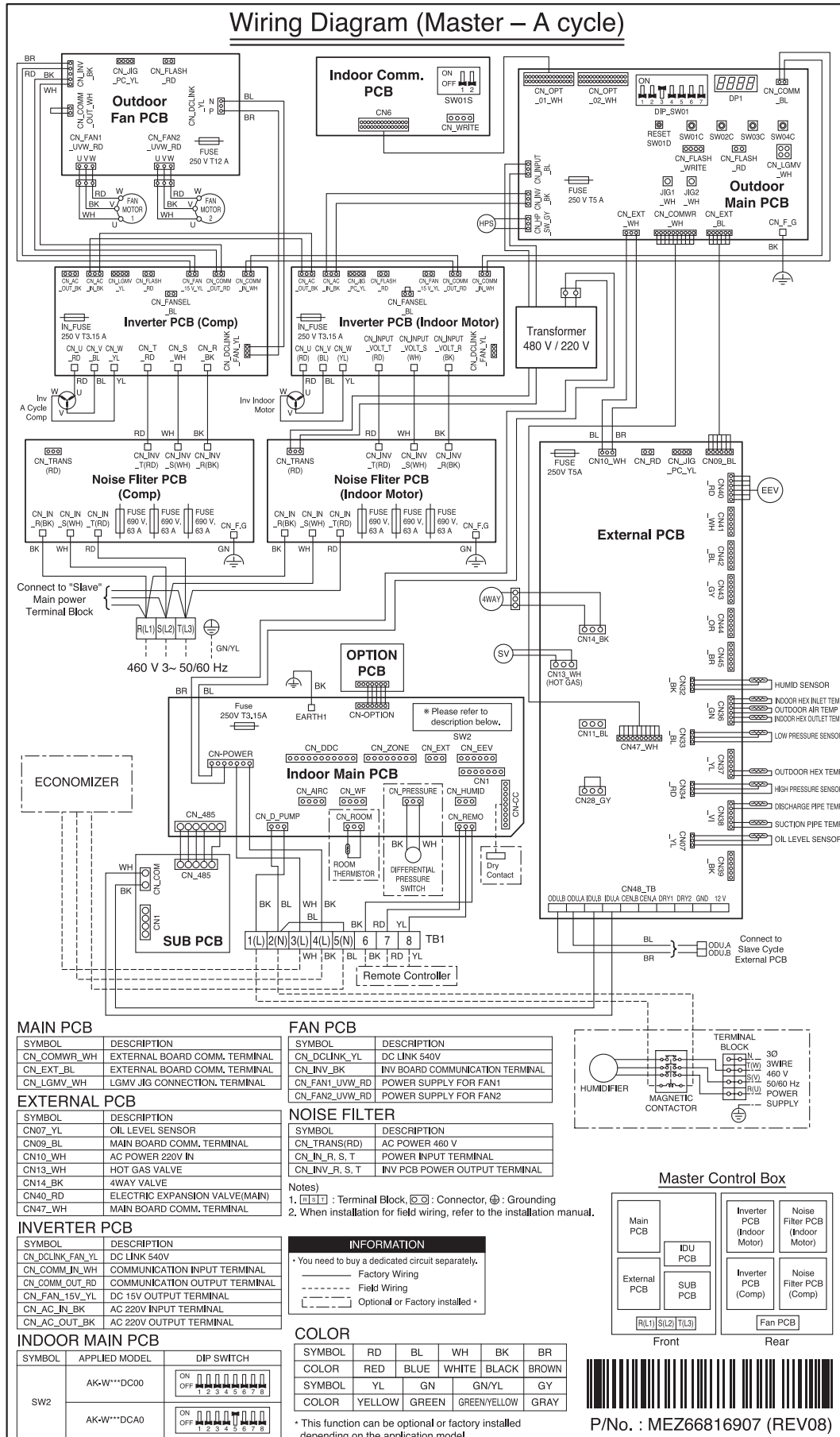
AK-W300DCA0, AK-W240DCA0



6. Wiring Diagrams

6.1 Master

AK-W300DCA0, AK-W240DCA0

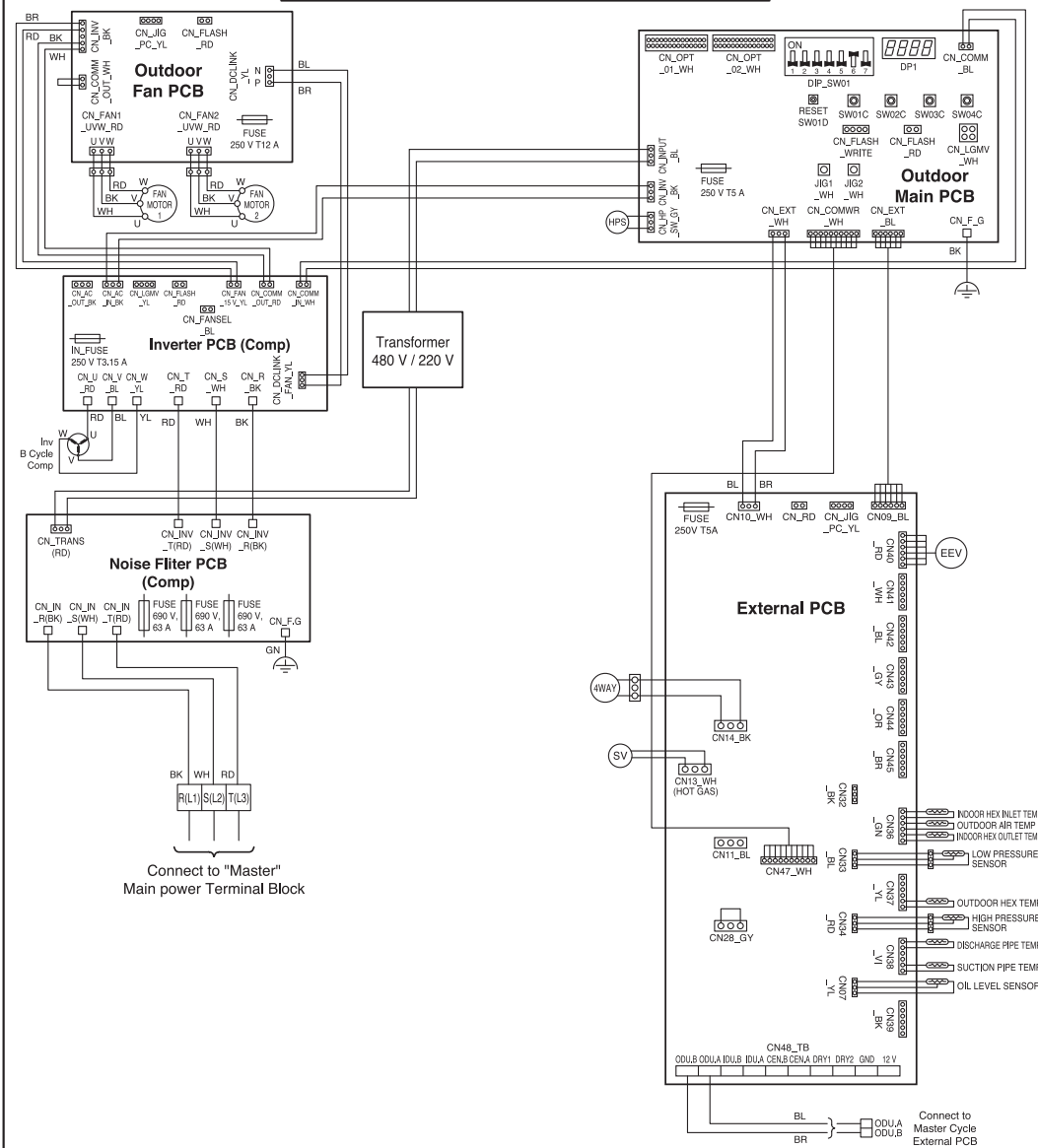


6. Wiring Diagrams

6.2 Slave

AK-W300DCA0, AK-W240DCA0

Wiring Diagram (Slave – B cycle)



MAIN PCB

SYMBOL	DESCRIPTION
CN_OPT_03_WH	IDU COMM BOARD COMM. TERMINAL
CN_COMWR_WH	EXTERNAL BOARD COMM. TERMINAL
CN_EXT_BL	EXTERNAL BOARD COMM. TERMINAL
CN_LGMV_WH	LGMV JIG CONNECTION. TERMINAL

EXTERNAL PCB

SYMBOL	DESCRIPTION
CN09_BL	MAIN BOARD COMM. TERMINAL
CN10_WH	AC POWER 220V IN
CN13_WH	HOT GAS VALVE
CN14_BK	4WAY VALVE
CN40_RD	ELECTRIC EXPANSION VALVE(MAIN)
CN47_WH	MAIN BOARD COMM. TERMINAL

INVERTER PCB

SYMBOL	DESCRIPTION
CN_DCLINK_FAN_YL	DC LINK 540V
CN_COMM_IN_WH	COMMUNICATION INPUT TERMINAL
CN_COMM_OUT_RD	COMMUNICATION OUTPUT TERMINAL
CN_FAN_15V_YL	DC 15V OUTPUT TERMINAL
CN_AC_IN_BK	AC 220V INPUT TERMINAL
CN_AC_OUT_BK	AC 220V OUTPUT TERMINAL

COLOR

SYMBOL	RD	BL	WH	BK	BR	YL	GN	GN/YL	GY
COLOR	RED	BLUE	WHITE	BLACK	BROWN	YELLOW	GREEN	GREEN/YELLOW	GRAY

* This function can be optional or factory installed depending on the application model.

FAN PCB

SYMBOL	DESCRIPTION
CN_DCLINK_YL	DC LINK 540V
CN_INV_BK	INV BOARD COMMUNICATION TERMINAL
CN_FAN1_UVW_RD	POWER SUPPLY FOR FAN1
CN_FAN2_UVW_RD	POWER SUPPLY FOR FAN2

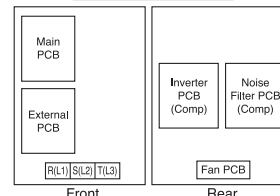
NOISE FILTER

SYMBOL	DESCRIPTION
CN_TRANS(RD)	AC POWER 460 V
CN_INV_R, S, T	POWER INPUT TERMINAL
CN_INV_R, S, T	INV PCB POWER OUTPUT TERMINAL

Notes

1. [R][S][T] : Terminal Block, [C][O] : Connector, ⊕ : Grounding
2. When installation for field wiring, refer to the installation manual.

Slave Control Box



INFORMATION

- * You need to buy a dedicated circuit separately.
- Factory Wiring
- - - - - Field Wiring
- [] Optional or Factory installed *



P/No. : MEZ66816908 (REV08)

7. Capacity Tables

7.1 Cooling Operation : SI

AK-W300DCA0

Air Flow Rate	Indoor Air Temp.		Outdoor Air Temp. (°C, DB)																				
			27.5			35.0			40.0			46.0			48.0			52.0			54.0		
			TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI
(l/s)	(°C, DB)	(°C, WB)	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
3,474	23.9	16.1	69.22	57.88	11.61	69.22	55.89	22.04	69.22	51.33	24.13	55.30	37.75	22.05	55.14	40.71	24.53	-	-	-	-	-	-
		19.4	76.53	43.53	11.98	76.53	42.02	22.73	76.53	38.59	24.89	61.14	28.38	22.74	60.96	30.61	25.30	-	-	-	-	-	-
		22.8	82.27	19.37	12.20	82.27	18.70	23.15	82.27	17.18	25.35	65.73	12.63	23.16	65.53	13.62	25.77	-	-	-	-	-	-
	26.7	16.1	72.21	66.31	11.64	72.21	64.02	22.10	72.21	58.80	24.20	57.69	43.24	22.11	57.52	46.63	24.60	-	-	-	-	-	-
		19.4	77.90	54.86	12.01	77.90	52.96	22.80	77.90	48.64	24.97	62.23	35.77	22.81	62.05	38.58	25.38	-	-	-	-	-	-
		22.8	82.31	35.79	12.23	82.31	34.55	23.22	82.31	31.73	25.43	65.76	23.34	23.23	65.56	25.17	25.85	-	-	-	-	-	-
	29.4	16.1	74.94	72.72	11.68	74.94	70.21	22.17	74.94	64.48	24.28	59.87	47.42	22.18	59.69	51.14	24.68	-	-	-	-	-	-
		19.4	79.02	65.65	12.05	79.02	63.38	22.87	79.02	58.21	25.04	63.13	42.81	22.88	62.94	46.17	25.45	-	-	-	-	-	-
		22.8	82.08	49.61	12.27	82.08	47.89	23.29	82.08	43.99	25.50	65.57	32.35	23.30	65.38	34.89	25.92	-	-	-	-	-	-
	32.2	16.1	77.41	76.82	11.71	77.41	74.17	22.23	77.41	68.12	24.35	61.84	50.10	22.25	61.66	54.03	24.75	-	-	-	-	-	-
		19.4	79.87	73.24	12.08	79.87	70.72	22.94	79.87	64.95	25.12	63.81	47.76	22.95	63.62	51.51	25.53	-	-	-	-	-	-
		22.8	81.58	60.69	12.31	81.58	58.59	23.36	81.58	53.81	25.58	65.17	39.57	23.37	64.98	42.68	26.00	-	-	-	-	-	-
3,908	23.9	16.1	72.11	63.81	11.71	72.11	61.60	22.23	72.11	56.58	24.34	57.61	41.61	22.24	57.44	44.87	24.75	-	-	-	-	-	-
		19.4	79.72	47.99	12.08	79.72	46.33	22.93	79.72	42.55	25.11	63.69	31.29	22.94	63.50	33.75	25.53	-	-	-	-	-	-
		22.8	85.71	21.35	12.31	85.71	20.61	23.36	85.71	18.93	25.58	68.47	13.92	23.37	68.27	15.01	26.00	-	-	-	-	-	-
	26.7	16.1	75.23	73.09	11.75	75.23	70.56	22.30	75.23	64.81	24.42	60.10	47.66	22.31	59.92	51.40	24.82	-	-	-	-	-	-
		19.4	81.16	60.46	12.12	81.16	58.38	23.00	81.16	53.61	25.19	64.84	39.43	23.02	64.65	42.52	25.61	-	-	-	-	-	-
		22.8	85.75	39.45	12.34	85.75	38.08	23.43	85.75	34.98	25.65	68.50	25.72	23.44	68.30	27.74	26.08	-	-	-	-	-	-
	29.4	16.1	78.07	77.92	11.78	78.07	77.39	22.36	78.07	71.07	24.49	62.37	52.27	22.38	62.19	56.37	24.89	-	-	-	-	-	-
		19.4	82.32	72.36	12.16	82.32	69.86	23.07	82.32	64.16	25.26	65.77	47.19	23.08	65.57	50.89	25.68	-	-	-	-	-	-
		22.8	85.51	54.67	12.38	85.51	52.79	23.50	85.51	48.48	25.73	68.31	35.65	23.51	68.11	38.45	26.15	-	-	-	-	-	-
	32.2	16.1	80.64	80.48	11.82	80.64	80.48	22.43	80.64	75.09	24.56	64.42	55.22	22.44	64.23	59.55	24.97	-	-	-	-	-	-
		19.4	83.21	80.73	12.19	83.21	77.95	23.14	83.21	71.59	25.34	66.47	52.65	23.15	66.28	56.78	25.76	-	-	-	-	-	-
		22.8	84.99	66.90	12.42	84.99	64.59	23.57	84.99	59.32	25.81	67.90	43.63	23.58	67.70	47.05	26.23	-	-	-	-	-	-
4,342	23.9	16.1	74.28	69.44	11.84	74.28	67.04	22.47	74.28	61.57	24.60	59.34	45.28	22.48	59.17	48.83	25.01	-	-	-	-	-	-
		19.4	82.12	52.23	12.21	82.12	50.42	23.18	82.12	46.31	25.38	65.61	34.06	23.19	65.41	36.73	25.80	-	-	-	-	-	-
		22.8	88.29	23.24	12.44	88.29	22.44	23.61	88.29	20.61	25.85	70.54	15.16	23.62	70.33	16.35	26.28	-	-	-	-	-	-
	26.7	16.1	77.50	77.34	11.87	77.50	76.80	22.54	77.50	70.54	24.68	61.91	51.87	22.55	61.73	55.94	25.09	-	-	-	-	-	-
		19.4	83.60	65.81	12.25	83.60	63.54	23.25	83.60	58.35	25.46	66.79	42.91	23.26	66.59	46.28	25.88	-	-	-	-	-	-
		22.8	88.33	42.93	12.48	88.33	41.45	23.68	88.33	38.07	25.93	70.57	28.00	23.69	70.36	30.19	26.36	-	-	-	-	-	-
	29.4	16.1	80.42	80.26	11.91	80.42	80.26	22.60	80.42	77.35	24.75	64.25	56.89	22.62	64.06	61.35	25.16	-	-	-	-	-	-
		19.4	84.80	78.76	12.29	84.80	76.04	23.32	84.80	69.84	25.53	67.75	51.36	23.33	67.55	55.39	25.96	-	-	-	-	-	-
		22.8	88.08	59.50	12.51	88.08	57.45	23.75	88.08	52.76	26.01	70.37	38.80	23.76	70.16	41.85	26.44	-	-	-	-	-	-
	32.2	16.1	83.06	82.90	11.94	83.06	82.90	22.67	83.06	81.72	24.83	66.36	60.09	22.68	66.16	64.81	25.24	-	-	-	-	-	-
		19.4	85.72	85.54	12.32	85.72	84.83	23.39	85.72	77.91	25.61	68.48	57.30	23.40	68.27	61.79	26.03	-	-	-	-	-	-
		22.8	87.55	72.81	12.55	87.55	70.30	23.82	87.55	64.56	26.08	69.94	47.48	23.83	69.73	51.20	26.51	-	-	-	-	-	-
4,776	23.9	16.1	75.69	74.32	11.90	75.69	71.76	22.59	75.69	65.90	24.74	60.47	48.47	22.60	60.29	52.27	25.15	-	-	-	-	-	-
		19.4	83.68	55.90	12.28	83.68	53.97	23.31	83.68	49.56	25.52	66.85	36.45	23.32	66.65	39.31	25.94	-	-	-	-	-	-
		22.8	89.96	24.88	12.51	89.96	24.02	23.74	89.96	22.06	25.99	71.87	16.22	23.75	71.66	17.49	26.42	-	-	-	-	-	-
	26.7	16.1	78.97	78.81	11.94	78.97	78.81	22.66	78.97	75.48	24.82	63.09	55.51	22.67	62.90	59.87	25.23	-	-	-	-	-	-
		19.4	85.19	70.43	12.32	85.19	68.00	23.38	85.19	62.45	25.60	68.06	45.93	23.39	67.86	49.53	26.02	-	-	-	-	-	-
		22.8	90.00	45.95	12.54	90.00	44.36	23.81	90.00	40.74	26.07	71.90	29.96	23.82	71.69	32.31	26.50	-	-	-	-	-	-
	29.4	16.1	81.95	81.79	11.98	81.95	81.79	22.73	81.95	81.79	24.89	65.47	60.88	22.74	65.28	65.15	25.30	-	-	-	-	-	-
		19.4	86.41	84.30	12.35	86.41	81.39	23.45	86.41	74.75	25.67	69.03	54.97	23.46	68.83	59.28	26.10	-	-	-	-	-	-
		22.8	89.75	63.69	12.58	89.75	61.49	23.88	89.75	56.47	26.15	71.70	41.53	23.89	71.49	44.79	26.58	-	-	-	-	-	-
	32.2	16.1	84.64	84.47	12.01	84.64	84.47	22.80	84.64	84.47	24.96	67.62	64.32	22.81	67.42	67.28	25.38	-	-	-	-	-	-
		19.4	87.34	87.16	12.39	87.34	87.16	23.52	87.34	83.39	25.75	69.77	61.32	23.53	69.57	66.13	26.18	-	-	-	-	-	-
		22.8	89.21	77.93	12.62	89.21	75.24	23.95	89.21	69.10	26.23	71.27	50.82	23.97	71.06	54.80	26.66	-	-	-	-	-	-
5,211	23.9	16.1	76.38	76.22	11.97	76.38	75.99	22.72	76.38	69.79	24.88	61.02	51.32	22.73	60.84	55.35	25.29	-	-	-	-	-	-
		19.4	84.44	59.19	12.35	84.44	57.14	23.43	84.44	52.48	25.66	67.46	38.60	23.45	67.26	41.62	26.08	-	-	-	-	-	-
		22.8	90.78	26.34	12.58	90.78	25.43	23.87	90.78	23.35	26.14	72.53	17.17	23.88	72.31	18.52	26.57	-	-	-	-	-	-
	26.7	16.1	79.69	79.53	12.01	79.69	79.53	22.79	79.69	79.53	24.95	63.66	58.79	22.80	63.47	63.35	25.36	-	-	-	-	-	-
		19.4	85.96	74.59	12.39	85.96	72.01	23.51	85.96	66.14	25.74	68.67	48.64	23.52	68.47	52.45	26.17	-	-	-	-	-	-

7. Capacity Tables

Air Flow Rate	Indoor Air Temp.		Outdoor Air Temp. (°C, DB)																				
			27.5			35.0			40.0			46.0			48.0			52.0			54.0		
			TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI
(l/s)	(°C, DB)	(°C, WB)	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
5,211	29.4	16.1	82.70	82.53	12.04	82.70	82.53	22.85	82.70	82.53	25.03	66.07	64.47	22.87	65.87	65.74	25.44	-	-	-	-	-	-
		19.4	87.19	87.02	12.42	87.19	86.18	23.58	87.19	79.15	25.82	69.66	58.21	23.59	69.45	62.77	26.24	-	-	-	-	-	-
		22.8	90.57	67.44	12.65	90.57	65.11	24.01	90.57	59.80	26.30	72.36	43.98	24.03	72.14	47.43	26.73	-	-	-	-	-	-
	32.2	16.1	85.41	85.23	12.08	85.41	85.23	22.92	85.41	85.23	25.10	68.23	68.09	22.94	68.03	67.89	25.52	-	-	-	-	-	-
		19.4	88.13	87.95	12.46	88.13	87.95	23.65	88.13	87.95	25.89	70.41	64.94	23.66	70.20	70.04	26.32	-	-	-	-	-	-
		22.8	90.02	82.52	12.69	90.02	79.67	24.08	90.02	73.17	26.37	71.92	53.81	24.10	71.70	58.04	26.81	-	-	-	-	-	-

Note

- DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C), l/s : Liters per second
- TGC : Total Gross Cooling Capacity(kW), SHC : Sensible Heat Capacity(kW)
- PI : Power Input (kW, Compressor + outdoor fan motor)
- All capacities are gross. A deduction(Cooling Mode) of capacity due to operating heat of indoor unit motor is reflected.
- Net Cooling Capacity = TGC - Fan motor heat (Refer to the Fan performance data)
- Direct interpolation is permissible. Do not extrapolate.
- Rated capacities and power inputs are based on standard conditions(ambient temperature, etc). Except for rated value, the performance is not guaranteed.
In accordance with the test standard(or nations), the rating could be varied slightly.
- In accordance with the test standard(or nations), the rating will vary slightly.
- The rated capacity at the outdoor temperature of 27.5 °CDB is the same as that at IEER B test condition.
The rated capacity at the outdoor temperature of 35.0 °CDB is the same as that at IEER A test condition.

7. Capacity Tables

AK-W240DCA0

Air Flow Rate	Indoor Air Temp.		Outdoor Air Temp. (°C, DB)																				
			27.5			35.0			40.0			46.0			48.0			52.0			54.0		
			TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI
(l/s)	(°C, DB)	(°C, WB)	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
3,021	23.9	16.1	59.86	42.13	9.94	59.86	48.58	18.28	59.86	47.57	22.39	49.38	33.66	20.08	48.73	36.18	22.26	-	-	-	-	-	-
		19.4	66.18	31.68	10.26	66.18	36.53	18.86	66.18	35.77	23.09	54.60	25.31	20.71	53.87	27.21	22.96	-	-	-	-	-	-
		22.8	71.15	14.10	10.44	71.15	16.26	19.21	71.15	15.92	23.52	58.69	11.27	21.10	57.91	12.11	23.39	-	-	-	-	-	-
	26.7	16.1	62.45	48.26	9.97	62.45	55.65	18.34	62.45	54.49	22.45	51.52	38.56	20.14	50.83	41.45	22.33	-	-	-	-	-	-
		19.4	67.37	39.93	10.29	67.37	46.04	18.92	67.37	45.08	23.16	55.57	31.90	20.78	54.84	34.29	23.04	-	-	-	-	-	-
		22.8	71.19	26.05	10.48	71.19	30.04	19.26	71.19	29.41	23.59	58.72	20.81	21.16	57.94	22.37	23.46	-	-	-	-	-	-
	29.4	16.1	64.81	52.93	10.00	64.81	61.03	18.39	64.81	59.75	22.52	53.46	42.28	20.20	52.75	45.46	22.40	-	-	-	-	-	-
		19.4	68.34	47.78	10.32	68.34	55.10	18.97	68.34	53.95	23.23	56.37	38.17	20.84	55.63	41.04	23.10	-	-	-	-	-	-
		22.8	70.98	36.10	10.51	70.98	41.64	19.32	70.98	40.76	23.66	58.56	28.85	21.22	57.78	31.01	23.53	-	-	-	-	-	-
	32.2	16.1	66.94	55.91	10.03	66.94	64.48	18.45	66.94	63.13	22.59	55.22	44.67	20.26	54.49	48.02	22.46	-	-	-	-	-	-
		19.4	69.08	53.31	10.35	69.08	61.47	19.03	69.08	60.19	23.30	56.98	42.59	20.90	56.23	45.78	23.17	-	-	-	-	-	-
		22.8	70.55	44.17	10.54	70.55	50.94	19.38	70.55	49.87	23.73	58.20	35.29	21.29	57.43	37.94	23.60	-	-	-	-	-	-
3,398	23.9	16.1	62.37	46.44	10.03	62.37	53.55	18.45	62.37	52.43	22.59	51.45	37.10	20.26	50.76	39.89	22.46	-	-	-	-	-	-
		19.4	68.95	34.93	10.35	68.95	40.28	19.03	68.95	39.43	23.30	56.87	27.90	20.90	56.12	30.00	23.17	-	-	-	-	-	-
		22.8	74.12	15.54	10.54	74.12	17.92	19.38	74.12	17.54	23.73	61.14	12.41	21.29	60.33	13.34	23.60	-	-	-	-	-	-
	26.7	16.1	65.06	53.19	10.06	65.06	61.34	18.50	65.06	60.06	22.65	53.67	42.50	20.32	52.96	45.69	22.53	-	-	-	-	-	-
		19.4	70.19	44.01	10.38	70.19	50.75	19.09	70.19	49.69	23.37	57.90	35.16	20.96	57.13	37.80	23.24	-	-	-	-	-	-
		22.8	74.16	28.71	10.57	74.16	33.11	19.44	74.16	32.41	23.80	61.17	22.94	21.35	60.36	24.66	23.67	-	-	-	-	-	-
	29.4	16.1	67.52	58.34	10.09	67.52	67.27	18.56	67.52	65.87	22.72	55.70	46.61	20.38	54.96	50.10	22.60	-	-	-	-	-	-
		19.4	71.19	52.67	10.41	71.19	60.73	19.14	71.19	59.46	23.44	58.73	42.08	21.03	57.95	45.23	23.31	-	-	-	-	-	-
		22.8	73.95	39.79	10.60	73.95	45.89	19.49	73.95	44.93	23.87	61.00	31.79	21.41	60.19	34.18	23.74	-	-	-	-	-	-
	32.2	16.1	69.74	61.63	10.12	69.74	69.60	18.61	69.74	69.59	22.79	57.53	49.24	20.44	56.77	52.93	22.66	-	-	-	-	-	-
		19.4	71.96	58.76	10.44	71.96	67.76	19.20	71.96	66.34	23.51	59.36	46.95	21.09	58.57	50.47	23.38	-	-	-	-	-	-
		22.8	73.50	48.69	10.63	73.50	56.15	19.55	73.50	54.97	23.94	60.63	38.90	21.48	59.83	41.82	23.81	-	-	-	-	-	-
3,776	23.9	16.1	64.24	50.54	10.14	64.24	58.28	18.64	64.24	57.06	22.83	52.99	40.38	20.48	52.29	43.41	22.70	-	-	-	-	-	-
		19.4	71.02	38.01	10.46	71.02	43.83	19.23	71.02	42.92	23.55	58.59	30.37	21.12	57.81	32.65	23.42	-	-	-	-	-	-
		22.8	76.36	16.92	10.65	76.36	19.51	19.59	76.36	19.10	23.98	62.99	13.52	21.51	62.15	14.53	23.85	-	-	-	-	-	-
	26.7	16.1	67.02	57.90	10.17	67.02	66.77	18.70	67.02	65.37	22.89	55.29	46.26	20.54	54.55	49.73	22.77	-	-	-	-	-	-
		19.4	72.30	47.90	10.49	72.30	55.23	19.29	72.30	54.08	23.62	59.64	38.27	21.19	58.85	41.14	23.49	-	-	-	-	-	-
		22.8	76.39	31.25	10.68	76.39	36.03	19.64	76.39	35.28	24.05	63.02	24.97	21.58	62.18	26.84	23.92	-	-	-	-	-	-
	29.4	16.1	69.55	63.49	10.20	69.55	69.41	18.75	69.55	69.41	22.96	57.37	50.73	20.60	56.61	54.53	22.84	-	-	-	-	-	-
		19.4	73.34	57.32	10.52	73.34	66.10	19.35	73.34	64.72	23.69	60.50	45.80	21.25	59.70	49.23	23.56	-	-	-	-	-	-
		22.8	76.18	43.31	10.72	76.18	49.94	19.70	76.18	48.90	24.13	62.84	34.60	21.64	62.00	37.20	24.00	-	-	-	-	-	-
	32.2	16.1	71.84	67.07	10.23	71.84	71.69	18.81	71.84	71.69	23.03	59.26	53.59	20.66	58.47	57.61	22.91	-	-	-	-	-	-
		19.4	74.13	63.95	10.55	74.13	73.75	19.40	74.13	72.20	23.76	61.15	51.09	21.31	60.34	54.92	23.63	-	-	-	-	-	-
		22.8	75.71	52.99	10.75	75.71	61.11	19.76	75.71	59.83	24.20	62.46	42.34	21.71	61.63	45.51	24.07	-	-	-	-	-	-
4,153	23.9	16.1	65.46	54.09	10.19	65.46	62.38	18.74	65.46	61.07	22.95	54.00	43.22	20.59	53.28	46.46	22.83	-	-	-	-	-	-
		19.4	72.37	40.68	10.52	72.37	46.92	19.34	72.37	45.93	23.68	59.69	32.50	21.24	58.90	34.94	23.55	-	-	-	-	-	-
		22.8	77.80	18.10	10.71	77.80	20.88	19.69	77.80	20.44	24.11	64.18	14.46	21.63	63.33	15.55	23.98	-	-	-	-	-	-
	26.7	16.1	68.29	61.96	10.22	68.29	68.16	18.80	68.29	68.16	23.02	56.34	49.50	20.65	55.59	53.21	22.90	-	-	-	-	-	-
		19.4	73.67	51.26	10.55	73.67	59.11	19.40	73.67	57.87	23.75	60.77	40.95	21.31	59.97	44.02	23.62	-	-	-	-	-	-
		22.8	77.84	33.44	10.74	77.84	38.56	19.75	77.84	37.76	24.19	64.21	26.72	21.70	63.36	28.72	24.05	-	-	-	-	-	-
	29.4	16.1	70.88	67.95	10.26	70.88	70.73	18.86	70.88	70.73	23.09	58.47	54.28	20.71	57.69	57.58	22.96	-	-	-	-	-	-
		19.4	74.73	61.36	10.58	74.73	70.75	19.45	74.73	69.27	23.82	61.65	49.02	21.37	60.83	52.70	23.69	-	-	-	-	-	-
		22.8	77.62	46.35	10.77	77.62	53.46	19.81	77.62	52.34	24.26	64.03	37.03	21.76	63.18	39.81	24.13	-	-	-	-	-	-
	32.2	16.1	73.20	71.79	10.29	73.20	73.05	18.91	73.20	73.05	23.16	60.38	57.35	20.78	59.58	59.46	23.03	-	-	-	-	-	-
		19.4	75.53	68.44	10.61	75.53	75.38	19.51	75.53	75.38	23.89	62.31	54.68	21.43	61.48	58.78	23.76	-	-	-	-	-	-
		22.8	77.15	56.72	10.81	77.15	65.41	19.87	77.15	64.04	24.33	63.64	45.32	21.83	62.80	48.71	24.20	-	-	-	-	-	-
4,531	23.9	16.1	66.05	57.28	10.25	66.05	65.92	18.85	66.05	64.68	23.08	54.49	45.77	20.70	53.77	49.20	22.95	-	-	-	-	-	-
		19.4	73.02	43.08	10.57	73.02	49.68	19.44	73.02	48.64	23.81	60.24	34.42	21.36	59.44	37.00	23.68	-	-	-	-	-	-
		22.8	78.51	19.17	10.77	78.51	22.10	19.80	78.51	21.64	24.25	64.76	15.31	21.75	63.91	16.46	24.11	-	-	-	-	-	-
	26.7	16.1	68.92	65.62	10.28	68.92	68.78	18.91	68.92	68.78	23.15	56.85	52.42	20.77	56.10	55.98	23.02	-	-	-	-	-	-
		19.4	74.34	54.29	10.61	74.34	62.60	19.50	74.34	61.29	23.88	61.32	43.37	21.42	60.51	46.62	23.75	-	-	-	-	-	-
		22.8	78.55	35.41	10.80	78.																	

7. Capacity Tables

Air Flow Rate	Indoor Air Temp.		Outdoor Air Temp. (°C, DB)																				
			27.5			35.0			40.0			46.0			48.0			52.0			54.0		
			TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI
(l/s)	(°C, DB)	(°C, WB)	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
4,531	29.4	22.8	78.33	49.08	10.83	78.33	56.60	19.92	78.33	55.42	24.39	64.62	39.22	21.88	63.76	42.16	24.26	-	-	-	-	-	-
	32.2	16.1	73.86	73.71	10.34	73.86	73.71	19.02	73.86	73.71	23.29	60.93	60.74	20.89	60.12	60.00	23.16	-	-	-	-	-	-
		19.4	76.22	72.49	10.67	76.22	76.07	19.62	76.22	76.07	24.02	62.87	57.91	21.55	62.04	61.92	23.89	-	-	-	-	-	-
		22.8	77.85	60.06	10.87	77.85	69.26	19.98	77.85	67.81	24.47	64.22	47.99	21.95	63.37	51.58	24.33	-	-	-	-	-	-

Note

- DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C), l/s : Liters per second
- TGC : Total Gross Cooling Capacity(kW), SHC : Sensible Heat Capacity(kW)
- PI : Power Input (kW, Compressor + outdoor fan motor)
- All capacities are gross. A deduction(Cooling Mode) of capacity due to operating heat of indoor unit motor is reflected.
- Net Cooling Capacity = TGC - Fan motor heat (Refer to the Fan performance data)
- Direct interpolation is permissible. Do not extrapolate.
- Rated capacities and power inputs are based on standard conditions(ambient temperature, etc). Except for rated value, the performance is not guaranteed.
In accordance with the test standard(or nations), the rating could be varied slightly.
- In accordance with the test standard(or nations), the rating will vary slightly.
- The rated capacity at the outdoor temperature of 27.5 °CDB is the same as that at IEER B test condition.
The rated capacity at the outdoor temperature of 35.0 °CDB is the same as that at IEER A test condition.

7. Capacity Tables

7.2 Cooling Operation : English

AK-W300DCA0

Air Flow Rate	Indoor Air Temp.		Outdoor Air Temp. (°F, DB)																				
			81.5			95.0			104.0			114.8			118.4			125.6			129.2		
			TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI
(CFM)	(°F, DB)	(°F, WB)	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
7,360	75	61	236.1	197.5	11.61	236.1	190.7	22.04	236.1	175.1	24.13	188.7	128.8	22.05	188.1	138.9	24.53	-	-	-	-	-	-
		67	261.1	148.5	11.98	261.1	143.4	22.73	261.1	131.7	24.89	208.6	96.83	22.74	208.0	104.4	25.30	-	-	-	-	-	-
		73	280.7	66.09	12.20	280.7	63.81	23.15	280.7	58.61	25.35	224.2	43.10	23.16	223.6	46.48	25.77	-	-	-	-	-	-
	80	61	246.4	226.2	11.64	246.4	218.4	22.10	246.4	200.6	24.20	196.8	147.5	22.11	196.2	159.1	24.60	-	-	-	-	-	-
		67	265.7	187.1	12.01	265.7	180.7	22.80	265.7	165.9	24.97	212.3	122.0	22.81	211.7	131.6	25.38	-	-	-	-	-	-
		73	280.8	122.1	12.23	280.8	117.9	23.22	280.8	108.3	25.43	224.3	79.61	23.23	223.7	85.86	25.85	-	-	-	-	-	-
	85	61	255.7	248.1	11.68	255.7	239.5	22.17	255.7	220.0	24.28	204.2	161.8	22.18	203.6	174.5	24.68	-	-	-	-	-	-
		67	269.6	224.0	12.05	269.6	216.2	22.87	269.6	198.6	25.04	215.4	146.0	22.88	214.7	157.5	25.45	-	-	-	-	-	-
		73	280.0	169.2	12.27	280.0	163.4	23.29	280.0	150.1	25.50	223.7	110.4	23.30	223.0	119.0	25.92	-	-	-	-	-	-
	90	61	264.1	262.1	11.71	264.1	253.0	22.23	264.1	232.4	24.35	211.0	170.9	22.25	210.3	184.3	24.75	-	-	-	-	-	-
		67	272.5	249.9	12.08	272.5	241.2	22.94	272.5	221.6	25.12	217.7	162.9	22.95	217.0	175.7	25.53	-	-	-	-	-	-
		73	278.3	207.0	12.31	278.3	199.9	23.36	278.3	183.6	25.58	222.3	135.0	23.37	221.7	145.6	26.00	-	-	-	-	-	-
8,280	75	61	246.0	217.7	11.71	246.0	210.2	22.23	246.0	193.0	24.34	196.5	141.9	22.24	196.0	153.1	24.75	-	-	-	-	-	-
		67	272.0	163.7	12.08	272.0	158.1	22.93	272.0	145.2	25.11	217.3	106.8	22.94	216.6	115.1	25.53	-	-	-	-	-	-
		73	292.4	72.83	12.31	292.4	70.31	23.36	292.4	64.58	25.58	233.6	47.49	23.37	232.9	51.22	26.00	-	-	-	-	-	-
	80	61	256.7	249.3	11.75	256.7	240.7	22.30	256.7	221.1	24.42	205.0	162.6	22.31	204.4	175.3	24.82	-	-	-	-	-	-
		67	276.9	206.3	12.12	276.9	199.2	23.00	276.9	182.9	25.19	221.2	134.5	23.02	220.5	145.1	25.61	-	-	-	-	-	-
		73	292.5	134.6	12.34	292.5	129.9	23.43	292.5	119.3	25.65	233.7	87.75	23.44	233.0	94.64	26.08	-	-	-	-	-	-
	85	61	266.3	265.8	11.78	266.3	264.0	22.36	266.3	242.5	24.49	212.8	178.3	22.38	212.2	192.3	24.89	-	-	-	-	-	-
		67	280.8	246.9	12.16	280.8	238.3	23.07	280.8	218.9	25.26	224.4	161.0	23.08	223.7	173.6	25.68	-	-	-	-	-	-
		73	291.7	186.5	12.38	291.7	180.1	23.50	291.7	165.4	25.73	233.0	121.6	23.51	232.4	131.2	26.15	-	-	-	-	-	-
	90	61	275.1	274.6	11.82	275.1	274.6	22.43	275.1	256.2	24.56	219.8	188.4	22.44	219.1	203.2	24.97	-	-	-	-	-	-
		67	283.9	275.4	12.19	283.9	265.9	23.14	283.9	244.2	25.34	226.8	179.6	23.15	226.1	193.7	25.76	-	-	-	-	-	-
		73	289.9	228.2	12.42	289.9	220.4	23.57	289.9	202.4	25.81	231.6	148.8	23.58	230.9	160.5	26.23	-	-	-	-	-	-
9,200	75	61	253.4	236.9	11.84	253.4	228.7	22.47	253.4	210.1	24.60	202.4	154.5	22.48	201.8	166.6	25.01	-	-	-	-	-	-
		67	280.2	178.2	12.21	280.2	172.0	23.18	280.2	158.0	25.38	223.8	116.2	23.19	223.1	125.3	25.80	-	-	-	-	-	-
		73	301.2	79.29	12.44	301.2	76.56	23.61	301.2	70.31	25.85	240.6	51.71	23.62	239.9	55.76	26.28	-	-	-	-	-	-
	80	61	264.4	263.9	11.87	264.4	262.0	22.54	264.4	240.6	24.68	211.2	177.0	22.55	210.6	190.8	25.09	-	-	-	-	-	-
		67	285.2	224.5	12.25	285.2	216.8	23.25	285.2	199.1	25.46	227.8	146.4	23.26	227.2	157.9	25.88	-	-	-	-	-	-
		73	301.3	146.5	12.48	301.3	141.4	23.68	301.3	129.9	25.93	240.7	95.51	23.69	240.0	103.0	26.36	-	-	-	-	-	-
	85	61	274.4	273.8	11.91	274.4	273.8	22.60	274.4	263.9	24.75	219.2	194.1	22.62	218.5	209.3	25.16	-	-	-	-	-	-
		67	289.3	268.7	12.29	289.3	259.4	23.32	289.3	238.2	25.53	231.1	175.2	23.33	230.4	189.0	25.96	-	-	-	-	-	-
		73	300.5	203.0	12.51	300.5	196.0	23.75	300.5	180.0	26.01	240.1	132.4	23.76	239.3	142.8	26.44	-	-	-	-	-	-
	90	61	283.4	282.8	11.94	283.4	282.8	22.67	283.4	278.8	24.83	226.4	205.0	22.68	225.7	221.1	25.24	-	-	-	-	-	-
		67	292.4	291.8	12.32	292.4	289.4	23.39	292.4	265.8	25.61	233.6	195.5	23.40	232.9	210.8	26.03	-	-	-	-	-	-
		73	298.7	248.4	12.55	298.7	239.8	23.82	298.7	220.2	26.08	238.6	162.0	23.83	237.9	174.7	26.51	-	-	-	-	-	-
10,120	75	61	258.2	253.6	11.90	258.2	244.8	22.59	258.2	224.8	24.74	206.3	165.3	22.60	205.7	178.3	25.15	-	-	-	-	-	-
		67	285.5	190.7	12.28	285.5	184.1	23.31	285.5	169.1	25.52	228.1	124.3	23.32	227.4	134.1	25.94	-	-	-	-	-	-
		73	306.9	84.86	12.51	306.9	81.93	23.74	306.9	75.25	25.99	245.2	55.34	23.75	244.5	59.68	26.42	-	-	-	-	-	-
	80	61	269.4	268.9	11.94	269.4	268.9	22.66	269.4	257.5	24.82	215.2	189.4	22.67	214.6	204.2	25.23	-	-	-	-	-	-
		67	290.6	240.3	12.32	290.6	232.0	23.38	290.6	213.0	25.60	232.2	156.7	23.39	231.5	169.0	26.02	-	-	-	-	-	-
		73	307.0	156.7	12.54	307.0	151.3	23.81	307.0	139.0	26.07	245.3	102.2	23.82	244.6	110.2	26.50	-	-	-	-	-	-
	85	61	279.6	279.0	11.98	279.6	279.0	22.73	279.6	279.0	24.89	223.4	207.7	22.74	222.7	222.3	25.30	-	-	-	-	-	-
		67	294.8	287.6	12.35	294.8	277.7	23.45	294.8	255.0	25.67	235.5	187.5	23.46	234.8	202.2	26.10	-	-	-	-	-	-
		73	306.2	217.3	12.58	306.2	209.8	23.88	306.2	192.7	26.15	244.6	141.7	23.89	243.9	152.8	26.58	-	-	-	-	-	-
	90	61	288.7	288.2	12.01	288.7	288.2	22.80	288.7	288.2	24.96	230.7	219.4	22.81	230.0	229.5	25.38	-	-	-	-	-	-
		67	297.9	297.4	12.39	297.9	297.4	23.52	297.9	284.5	25.75	238.0	209.2	23.53	237.3	225.6	26.18	-	-	-	-	-	-
		73	304.3	265.9	12.62	304.3	256.7	23.95	304.3	235.7	26.23	243.1	173.4	23.97	242.4	187.0	26.66	-	-	-	-	-	-
11,040	75	61	260.6	260.0	11.97	260.6	259.2	22.72	260.6	238.1	24.88	208.2	175.1	22.73	207.5	188.8	25.29	-	-	-	-	-	-
		67	288.1	201.9	12.35	288.1	194.9	23.43	288.1	179.0	25.66	230.1	131.7	23.45	229.4	142.0	26.08	-	-	-	-	-	-
		73	309.7	89.85	12.58	309.7	86.74	23.87	309.7	79.67	26.14	247.4	58.59	23.88	246.7	63.19	26.57	-	-	-	-	-	-
	80	61	271.9	271.3	12.01	271.9	271.3	22.79	271.9	271.3	24.95	217.2	200.6	22.80	216.5	216.1	25.36	-	-	-	-	-	-
		67	293.2	254.5	12.39	293.2	245.7	23.51	293.2	225.6	25.74	234.3	165.9	23.52	233.6	178.9	26.17	-	-	-	-	-	-

7. Capacity Tables

Air Flow Rate	Indoor Air Temp.		Outdoor Air Temp. (°F, DB)																				
			81.5			95.0			104.0			114.8			118.4			125.6			129.2		
			TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI
(CFM)	(°F, DB)	(°F, WB)	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
11,040	85	61	282.1	281.6	12.04	282.1	281.6	22.85	282.1	281.6	25.03	225.4	219.9	22.87	224.7	224.3	25.44	-	-	-	-	-	-
		67	297.5	296.9	12.42	297.5	294.0	23.58	297.5	270.0	25.82	237.6	198.6	23.59	236.9	214.2	26.24	-	-	-	-	-	-
		73	309.0	230.1	12.65	309.0	222.1	24.01	309.0	204.0	26.30	246.8	150.0	24.03	246.1	161.8	26.73	-	-	-	-	-	-
	90	61	291.4	290.8	12.08	291.4	290.8	22.92	291.4	290.8	25.10	232.8	232.3	22.94	232.1	231.6	25.52	-	-	-	-	-	-
		67	300.7	300.1	12.46	300.7	300.1	23.65	300.7	300.1	25.89	240.2	221.6	23.66	239.5	238.9	26.32	-	-	-	-	-	-
		73	307.1	281.5	12.69	307.1	271.8	24.08	307.1	249.6	26.37	245.3	183.6	24.10	244.6	198.0	26.81	-	-	-	-	-	-

Note

- DB : Dry bulb temperature(°F), WB : Wet bulb temperature(°F), CFM : Cubic ft per minute
- TGC : Total Gross Cooling Capacity(MBH = kBtu/h), SHC : Sensible Heating Capacity(MBH = kBtu/h)
- PI : Power Input (kW, Compressor + outdoor fan motor)
- All capacities are gross. A deduction(Cooling Mode) of capacity due to operating heat of indoor unit motor is reflected.
 - Net Cooling Capacity = TGC - Fan motor heat (Refer to the Fan performance data)
- Direct interpolation is permissible. Do not extrapolate.
- Rated capacities and power inputs are based on standard conditions(ambient temperature, etc). Except for rated value, the performance is not guaranteed.
 - In accordance with the test standard(or nations), the rating could be varied slightly.
- In accordance with the test standard(or nations), the rating will vary slightly.
- The rated capacity at the outdoor temperature of 81.5°FDB is the same as that at IEER B test condition.
 - The rated capacity at the outdoor temperature of 95.0°FDB is the same as that at IEER A test condition.

7. Capacity Tables

AK-W240DCA0

Air Flow Rate	Indoor Air Temp.		Outdoor Air Temp. (°F, DB)																				
			81.5			95.0			104.0			114.8			118.4			125.6			129.2		
			TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI
(CFM)	(°F, DB)	(°F, WB)	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
6,400	75	61	204.4	143.9	9.94	204.4	165.9	18.28	204.4	162.4	22.39	168.6	114.9	20.08	166.4	123.6	22.26	-	-	-	-	-	-
		67	226.0	108.2	10.26	226.0	124.8	18.86	226.0	122.1	23.09	186.4	86.43	20.71	184.0	92.91	22.96	-	-	-	-	-	-
		73	243.0	48.15	10.44	243.0	55.53	19.21	243.0	54.37	23.52	200.4	38.47	21.10	197.8	41.36	23.39	-	-	-	-	-	-
	80	61	213.3	164.8	9.97	213.3	190.1	18.34	213.3	186.1	22.45	175.9	131.7	20.14	173.6	141.5	22.33	-	-	-	-	-	-
		67	230.1	136.3	10.29	230.1	157.2	18.92	230.1	153.9	23.16	189.8	108.9	20.78	187.3	117.1	23.04	-	-	-	-	-	-
		73	243.1	88.95	10.48	243.1	102.6	19.26	243.1	100.4	23.59	200.5	71.06	21.16	197.9	76.39	23.46	-	-	-	-	-	-
	85	61	221.3	180.7	10.00	221.3	208.4	18.39	221.3	204.1	22.52	182.6	144.4	20.20	180.1	155.2	22.40	-	-	-	-	-	-
		67	233.4	163.2	10.32	233.4	188.2	18.97	233.4	184.2	23.23	192.5	130.4	20.84	190.0	140.1	23.10	-	-	-	-	-	-
		73	242.4	123.3	10.51	242.4	142.2	19.32	242.4	139.2	23.66	200.0	98.50	21.22	197.3	105.9	23.53	-	-	-	-	-	-
	90	61	228.6	190.9	10.03	228.6	220.2	18.45	228.6	215.6	22.59	188.6	152.6	20.26	186.1	164.0	22.46	-	-	-	-	-	-
		67	235.9	182.0	10.35	235.9	209.9	19.03	235.9	205.5	23.30	194.6	145.4	20.90	192.0	156.4	23.17	-	-	-	-	-	-
		73	240.9	150.8	10.54	240.9	173.9	19.38	240.9	170.3	23.73	198.7	120.5	21.29	196.1	129.5	23.60	-	-	-	-	-	-
7,200	75	61	213.0	158.6	10.03	213.0	182.9	18.45	213.0	179.1	22.59	175.7	126.7	20.26	173.4	136.2	22.46	-	-	-	-	-	-
		67	235.4	119.3	10.35	235.4	137.5	19.03	235.4	134.7	23.30	194.2	95.29	20.90	191.6	102.4	23.17	-	-	-	-	-	-
		73	253.1	53.06	10.54	253.1	61.19	19.38	253.1	59.91	23.73	208.8	42.39	21.29	206.0	45.57	23.60	-	-	-	-	-	-
	80	61	222.2	181.7	10.06	222.2	209.5	18.50	222.2	205.1	22.65	183.3	145.1	20.32	180.9	156.0	22.53	-	-	-	-	-	-
		67	239.7	150.3	10.38	239.7	173.3	19.09	239.7	169.7	23.37	197.7	120.1	20.96	195.1	129.1	23.24	-	-	-	-	-	-
		73	253.2	98.04	10.57	253.2	113.1	19.44	253.2	110.7	23.80	208.9	78.33	21.35	206.1	84.20	23.67	-	-	-	-	-	-
	85	61	230.6	199.2	10.09	230.6	229.7	18.56	230.6	224.9	22.72	190.2	159.2	20.38	187.7	171.1	22.60	-	-	-	-	-	-
		67	243.1	179.9	10.41	243.1	207.4	19.14	243.1	203.1	23.44	200.6	143.7	21.03	197.9	154.5	23.31	-	-	-	-	-	-
		73	252.5	135.9	10.60	252.5	156.7	19.49	252.5	153.4	23.87	208.3	108.6	21.41	205.6	116.7	23.74	-	-	-	-	-	-
	90	61	238.2	210.5	10.12	238.2	237.7	18.61	238.2	237.6	22.79	196.5	168.2	20.44	193.9	180.8	22.66	-	-	-	-	-	-
		67	245.7	200.7	10.44	245.7	231.4	19.20	245.7	226.6	23.51	202.7	160.3	21.09	200.0	172.3	23.38	-	-	-	-	-	-
		73	251.0	166.3	10.63	251.0	191.8	19.55	251.0	187.7	23.94	207.1	132.8	21.48	204.3	142.8	23.81	-	-	-	-	-	-
8,000	75	61	219.4	172.6	10.14	219.4	199.0	18.64	219.4	194.9	22.83	181.0	137.9	20.48	178.6	148.2	22.70	-	-	-	-	-	-
		67	242.5	129.8	10.46	242.5	149.7	19.23	242.5	146.6	23.55	200.1	103.7	21.12	197.4	111.5	23.42	-	-	-	-	-	-
		73	260.8	57.77	10.65	260.8	66.62	19.59	260.8	65.23	23.98	215.1	46.16	21.51	212.2	49.62	23.85	-	-	-	-	-	-
	80	61	228.9	197.7	10.17	228.9	228.0	18.70	228.9	223.2	22.89	188.8	158.0	20.54	186.3	169.8	22.77	-	-	-	-	-	-
		67	246.9	163.6	10.49	246.9	188.6	19.29	246.9	184.7	23.62	203.7	130.7	21.19	201.0	140.5	23.49	-	-	-	-	-	-
		73	260.9	106.7	10.68	260.9	123.1	19.64	260.9	120.5	24.05	215.2	85.25	21.58	212.3	91.65	23.92	-	-	-	-	-	-
	85	61	237.5	216.8	10.20	237.5	237.0	18.75	237.5	237.0	22.96	195.9	173.2	20.60	193.3	186.2	22.84	-	-	-	-	-	-
		67	250.5	195.8	10.52	250.5	225.7	19.35	250.5	221.0	23.69	206.6	156.4	21.25	203.9	168.1	23.56	-	-	-	-	-	-
		73	260.1	147.9	10.72	260.1	170.5	19.70	260.1	167.0	24.13	214.6	118.2	21.64	211.7	127.0	24.00	-	-	-	-	-	-
	90	61	245.3	229.1	10.23	245.3	244.8	18.81	245.3	244.8	23.03	202.4	183.0	20.66	199.7	196.7	22.91	-	-	-	-	-	-
		67	253.1	218.4	10.55	253.1	251.8	19.40	253.1	246.6	23.76	208.8	174.5	21.31	206.1	187.6	23.63	-	-	-	-	-	-
		73	258.6	181.0	10.75	258.6	208.7	19.76	258.6	204.3	24.20	213.3	144.6	21.71	210.5	155.4	24.07	-	-	-	-	-	-
8,800	75	61	223.5	184.7	10.19	223.5	213.0	18.74	223.5	208.6	22.95	184.4	147.6	20.59	182.0	158.7	22.83	-	-	-	-	-	-
		67	247.1	138.9	10.52	247.1	160.2	19.34	247.1	156.9	23.68	203.9	111.0	21.24	201.1	119.3	23.55	-	-	-	-	-	-
		73	265.7	61.83	10.71	265.7	71.30	19.69	265.7	69.80	24.11	219.2	49.40	21.63	216.3	53.10	23.98	-	-	-	-	-	-
	80	61	233.2	211.6	10.22	233.2	232.8	18.80	233.2	232.8	23.02	192.4	169.0	20.65	189.8	181.7	22.90	-	-	-	-	-	-
		67	251.6	175.0	10.55	251.6	201.9	19.40	251.6	197.6	23.75	207.5	139.9	21.31	204.8	150.3	23.62	-	-	-	-	-	-
		73	265.8	114.2	10.74	265.8	131.7	19.75	265.8	128.9	24.19	219.3	91.24	21.70	216.4	98.08	24.05	-	-	-	-	-	-
	85	61	242.0	232.0	10.26	242.0	241.6	18.86	242.0	241.6	23.09	199.7	185.4	20.71	197.0	196.6	22.96	-	-	-	-	-	-
		67	255.2	209.5	10.58	255.2	241.6	19.45	255.2	236.6	23.82	210.5	167.4	21.37	207.7	180.0	23.69	-	-	-	-	-	-
		73	265.1	158.3	10.77	265.1	182.5	19.81	265.1	178.7	24.26	218.7	126.5	21.76	215.8	136.0	24.13	-	-	-	-	-	-
	90	61	250.0	245.1	10.29	250.0	249.5	18.91	250.0	249.5	23.16	206.2	195.9	20.78	203.5	203.1	23.03	-	-	-	-	-	-
		67	257.9	233.7	10.61	257.9	257.4	19.51	257.9	257.4	23.89	212.8	186.7	21.43	210.0	200.7	23.76	-	-	-	-	-	-
		73	263.5	193.7	10.81	263.5	223.4	19.87	263.5	218.7	24.33	217.3	154.7	21.83	214.5	166.4	24.20	-	-	-	-	-	-
9,600	75	61	225.6	195.6	10.25	225.6	225.1	18.85	225.6	220.9	23.08	186.1	156.3	20.70	183.6	168.0	22.95	-	-	-	-	-	-
		67	249.4	147.1	10.57	249.4	169.6	19.44	249.4	166.1	23.81	205.7	117.5	21.36	203.0	126.3	23.68	-	-	-	-	-	-
		73	268.1	65.46	10.77	268.1	75.49	19.80	268.1	73.90	24.25	221.2	52.30	21.75	218.2	56.22	24.11	-	-	-	-	-	-
	80	61	235.3	224.1	10.28	235.3	234.9	18.91	235.3	234.9	23.15	194.1	179.0	20.77	191.6	191.2	23.02	-	-	-	-	-	-
		67	253.9	185.4	10.61	253.9	213.8	19.50	253.9	209.3	23.88	209.4	148.1	21.42	206.6	159.2	23.75	-	-	-	-	-	-
		73	268.2	120.9	10.80	268.2	139.5	19.86	268.2	136.5	24.32	221.3	96.62	21.82	218.3	103.9	24.19	-	-				

7. Capacity Tables

Air Flow Rate	Indoor Air Temp.		Outdoor Air Temp. (°F, DB)																				
			81.5			95.0			104.0			114.8			118.4			125.6			129.2		
			TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI
(CFM)	(°F, DB)	(°F, WB)	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
9,600	90	61	252.2	251.7	10.34	252.2	251.7	19.02	252.2	251.7	23.29	208.1	207.4	20.89	205.3	204.9	23.16	-	-	-	-	-	-
		67	260.3	247.5	10.67	260.3	259.8	19.62	260.3	259.8	24.02	214.7	197.8	21.55	211.9	211.4	23.89	-	-	-	-	-	-
		73	265.9	205.1	10.87	265.9	236.5	19.98	265.9	231.6	24.47	219.3	163.9	21.95	216.4	176.2	24.33	-	-	-	-	-	-

Note

- DB : Dry bulb temperature(°F), WB : Wet bulb temperature(°F), CFM : Cubic ft per minute
- TGC : Total Gross Cooling Capacity(MBH = kBtu/h), SHC : Sensible Heating Capacity(MBH = kBtu/h)
- PI : Power Input (kW, Compressor + outdoor fan motor)
- All capacities are gross. A deduction(Cooling Mode) of capacity due to operating heat of indoor unit motor is reflected.
- Net Cooling Capacity = TGC - Fan motor heat (Refer to the Fan performance data)
- Direct interpolation is permissible. Do not extrapolate.
- Rated capacities and power inputs are based on standard conditions(ambient temperature, etc). Except for rated value, the performance is not guaranteed.
In accordance with the test standard(or nations), the rating could be varied slightly.
- In accordance with the test standard(or nations), the rating will vary slightly.
- The rated capacity at the outdoor temperature of 81.5°FDB is the same as that at IEER B test condition.
The rated capacity at the outdoor temperature of 95.0°FDB is the same as that at IEER A test condition.

7. Capacity Tables

7.3 Heating Operation : SI

AK-W300DCA0

Air Flow Rate (l/s)	Outdoor Air Temp. (°C, WB)	Indoor Air Temp. (°C, DB)									
		16.0		18.0		20.0		22.0		24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
3,474	-15	54.30	20.90	51.70	20.00	49.00	19.00	45.10	18.10	45.10	17.10
	-10	65.60	24.30	62.40	23.20	59.20	22.10	54.50	21.00	54.50	19.90
	-5	76.80	27.70	73.10	26.50	69.40	25.20	63.80	24.00	63.80	22.70
	0	88.10	31.10	83.90	29.70	79.60	28.20	73.20	26.80	73.20	25.40
	6	88.10	27.00	83.90	25.80	79.60	24.60	73.20	23.40	73.20	22.10
	10	88.10	24.30	83.90	23.20	79.60	22.10	73.20	21.00	73.20	19.90
	15	88.10	20.90	83.90	20.00	79.60	19.00	73.20	18.10	73.20	17.10
	18	88.10	18.90	83.90	18.10	79.60	17.20	73.20	16.30	73.20	15.50
4,342	-15	55.20	19.10	52.50	18.30	49.80	17.40	45.80	16.50	45.80	15.60
	-10	66.70	22.20	63.40	21.20	60.20	20.20	55.40	19.20	55.40	18.20
	-5	78.10	25.30	74.30	24.20	70.50	23.00	64.90	21.90	64.90	20.70
	0	89.60	28.40	85.20	27.10	80.90	25.80	74.40	24.50	74.40	23.20
	6	89.60	24.70	85.20	23.60	80.90	22.40	74.40	21.30	74.40	20.20
	10	89.60	22.20	85.20	21.20	80.90	20.20	74.40	19.20	74.40	18.20
	15	89.60	19.10	85.20	18.30	80.90	17.40	74.40	16.50	74.40	15.60
	18	89.60	17.30	85.20	16.50	80.90	15.70	74.40	14.90	74.40	14.10
5,210	-15	56.30	18.20	53.50	17.40	50.80	16.60	46.80	15.80	46.80	14.90
	-10	68.00	21.20	64.70	20.30	61.40	19.30	56.50	18.30	56.50	17.30
	-5	79.70	24.20	75.80	23.10	71.90	22.00	66.20	20.90	66.20	19.80
	0	91.40	27.10	86.90	25.90	82.50	24.60	75.90	23.40	75.90	22.20
	6	91.40	23.60	86.90	22.50	82.50	21.40	75.90	20.40	75.90	19.30
	10	91.40	21.20	86.90	20.30	82.50	19.30	75.90	18.30	75.90	17.30
	15	91.40	18.20	86.90	17.40	82.50	16.60	75.90	15.80	75.90	14.90
	18	91.40	16.50	86.90	15.70	82.50	15.00	75.90	14.20	75.90	13.50

Note

- DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C), l/s : Liters per second
- TGC : Total Gross Cooling Capacity(kW)
- PI : Power Input (kW, Compressor + outdoor fan motor)

7. Capacity Tables

AK-W240DCA0

Air Flow Rate	Outdoor Air Temp.	Indoor Air Temp. (°C, DB)									
		16.0		18.0		20.0		22.0		24.0	
(l/s)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
3,021	-15	47.20	18.20	44.90	17.40	42.60	16.50	39.20	15.70	39.20	14.90
	-10	57.00	21.10	54.30	20.20	51.50	19.20	47.40	18.30	47.40	17.30
	-5	66.80	24.10	63.60	23.00	60.30	21.90	55.50	20.80	55.50	19.70
	0	76.60	27.00	72.90	25.80	69.20	24.60	63.70	23.30	63.70	22.10
	6	76.60	23.50	72.90	22.50	69.20	21.40	63.70	20.30	63.70	19.20
	10	76.60	21.10	72.90	20.20	69.20	19.20	63.70	18.30	63.70	17.30
	15	76.60	18.20	72.90	17.40	69.20	16.50	63.70	15.70	63.70	14.90
	18	76.60	16.40	72.90	15.70	69.20	14.90	63.70	14.20	63.70	13.40
3,776	-15	48.00	16.60	45.60	15.90	43.30	15.10	39.90	14.40	39.90	13.60
	-10	58.00	19.30	55.10	18.50	52.40	17.60	48.20	16.70	48.20	15.80
	-5	67.90	22.00	64.60	21.00	61.30	20.00	56.40	19.00	56.40	18.00
	0	77.90	24.70	74.10	23.60	70.30	22.40	64.70	21.30	64.70	20.20
	6	77.90	21.50	74.10	20.50	70.30	19.50	64.70	18.60	64.70	17.60
	10	77.90	19.30	74.10	18.50	70.30	17.60	64.70	16.70	64.70	15.80
	15	77.90	16.60	74.10	15.90	70.30	15.10	64.70	14.40	64.70	13.60
	18	77.90	15.00	74.10	14.30	70.30	13.60	64.70	13.00	64.70	12.30
4,531	-15	48.90	15.90	46.60	15.20	44.20	14.40	40.70	13.70	40.70	13.00
	-10	59.10	18.40	56.20	17.60	53.40	16.80	49.10	15.90	49.10	15.10
	-5	69.30	21.00	65.90	20.10	62.60	19.10	57.50	18.20	57.50	17.20
	0	79.40	23.60	75.60	22.50	71.70	21.40	66.00	20.40	66.00	19.30
	6	79.40	20.50	75.60	19.60	71.70	18.60	66.00	17.70	66.00	16.80
	10	79.40	18.40	75.60	17.60	71.70	16.80	66.00	15.90	66.00	15.10
	15	79.40	15.90	75.60	15.20	71.70	14.40	66.00	13.70	66.00	13.00
	18	79.40	14.30	75.60	13.70	71.70	13.00	66.00	12.40	66.00	11.70

Note

- DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C), l/s : Liters per second
- TGC : Total Gross Cooling Capacity(kW)
- PI : Power Input (kW, Compressor + outdoor fan motor)

7. Capacity Tables

7.4 Heating Operation : English

AK-W300DCA0

Air Flow Rate	Outdoor Air Temp.	Indoor Air Temp. (°F, DB)									
		61.0		64.0		68.0		72.0		75.0	
(CFM)	(°F, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
7,360	5	185.3	20.90	176.3	20.00	167.3	19.00	153.9	18.10	153.9	17.10
	14	223.8	24.30	212.9	23.20	202.1	22.10	185.9	21.00	185.9	19.90
	23	262.2	27.70	249.4	26.50	236.8	25.20	217.8	24.00	217.8	22.70
	32	300.7	31.10	286.1	29.70	271.6	28.20	249.9	26.80	249.9	25.40
	43	300.7	27.00	286.1	25.80	271.6	24.60	249.9	23.40	249.9	22.10
	50	300.7	24.30	286.1	23.20	271.6	22.10	249.9	21.00	249.9	19.90
	59	300.7	20.90	286.1	20.00	271.6	19.00	249.9	18.10	249.9	17.10
	64	300.7	18.90	286.1	18.10	271.6	17.20	249.9	16.30	249.9	15.50
9,200	5	188.3	19.10	179.1	18.30	170.0	17.40	156.4	16.50	156.4	15.60
	14	227.5	22.20	216.4	21.20	205.4	20.20	189.0	19.20	189.0	18.20
	23	266.5	25.30	253.5	24.20	240.7	23.00	221.4	21.90	221.4	20.70
	32	305.6	28.40	290.8	27.10	276.0	25.80	253.9	24.50	253.9	23.20
	43	305.6	24.70	290.8	23.60	276.0	22.40	253.9	21.30	253.9	20.20
	50	305.6	22.20	290.8	21.20	276.0	20.20	253.9	19.20	253.9	18.20
	59	305.6	19.10	290.8	18.30	276.0	17.40	253.9	16.50	253.9	15.60
	64	305.6	17.30	290.8	16.50	276.0	15.70	253.9	14.90	253.9	14.10
11,040	5	192.0	18.20	182.7	17.40	173.4	16.60	159.5	15.80	159.5	14.90
	14	232.0	21.20	220.7	20.30	209.5	19.30	192.7	18.30	192.7	17.30
	23	271.8	24.20	258.6	23.10	245.4	22.00	225.8	20.90	225.8	19.80
	32	311.7	27.10	296.6	25.90	281.5	24.60	259.0	23.40	259.0	22.20
	43	311.7	23.60	296.6	22.50	281.5	21.40	259.0	20.40	259.0	19.30
	50	311.7	21.20	296.6	20.30	281.5	19.30	259.0	18.30	259.0	17.30
	59	311.7	18.20	296.6	17.40	281.5	16.60	259.0	15.80	259.0	14.90
	64	311.7	16.50	296.6	15.70	281.5	15.00	259.0	14.20	259.0	13.50

Note

- DB : Dry bulb temperature(°F), WB : Wet bulb temperature(°F), CFM : Cubic ft per minute
- TGC : Total Capacity(MBH = kBtu/h)
- PI : Power Input (kW, Compressor + outdoor fan motor)

7. Capacity Tables

AK-W240DCA0

Air Flow Rate	Outdoor Air Temp.	Indoor Air Temp. (°F, DB)									
		61.0		64.0		68.0		72.0		75.0	
(CFM)	(°F, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
6,400	5	161.1	18.20	153.3	17.40	145.5	16.50	133.8	15.70	133.8	14.90
	14	194.6	21.10	185.1	20.20	175.8	19.20	161.7	18.30	161.7	17.30
	23	228.0	24.10	216.9	23.00	205.9	21.90	189.4	20.80	189.4	19.70
	32	261.5	27.00	248.8	25.80	236.2	24.60	217.3	23.30	217.3	22.10
	43	261.5	23.50	248.8	22.50	236.2	21.40	217.3	20.30	217.3	19.20
	50	261.5	21.10	248.8	20.20	236.2	19.20	217.3	18.30	217.3	17.30
	59	261.5	18.20	248.8	17.40	236.2	16.50	217.3	15.70	217.3	14.90
	64	261.5	16.40	248.8	15.70	236.2	14.90	217.3	14.20	217.3	13.40
8,000	5	163.7	16.60	155.8	15.90	147.9	15.10	136.0	14.40	136.0	13.60
	14	197.8	19.30	188.2	18.50	178.6	17.60	164.3	16.70	164.3	15.80
	23	231.7	22.00	220.4	21.00	209.3	20.00	192.5	19.00	192.5	18.00
	32	265.8	24.70	252.8	23.60	240.0	22.40	220.8	21.30	220.8	20.20
	43	265.8	21.50	252.8	20.50	240.0	19.50	220.8	18.60	220.8	17.60
	50	265.8	19.30	252.8	18.50	240.0	17.60	220.8	16.70	220.8	15.80
	59	265.8	16.60	252.8	15.90	240.0	15.10	220.8	14.40	220.8	13.60
	64	265.8	15.00	252.8	14.30	240.0	13.60	220.8	13.00	220.8	12.30
9,600	5	167.0	15.90	158.9	15.20	150.8	14.40	138.7	13.70	138.7	13.00
	14	201.7	18.40	191.9	17.60	182.2	16.80	167.6	15.90	167.6	15.10
	23	236.3	21.00	224.8	20.10	213.4	19.10	196.3	18.20	196.3	17.20
	32	271.1	23.60	257.9	22.50	244.8	21.40	225.2	20.40	225.2	19.30
	43	271.1	20.50	257.9	19.60	244.8	18.60	225.2	17.70	225.2	16.80
	50	271.1	18.40	257.9	17.60	244.8	16.80	225.2	15.90	225.2	15.10
	59	271.1	15.90	257.9	15.20	244.8	14.40	225.2	13.70	225.2	13.00
	64	271.1	14.30	257.9	13.70	244.8	13.00	225.2	12.40	225.2	11.70

Note

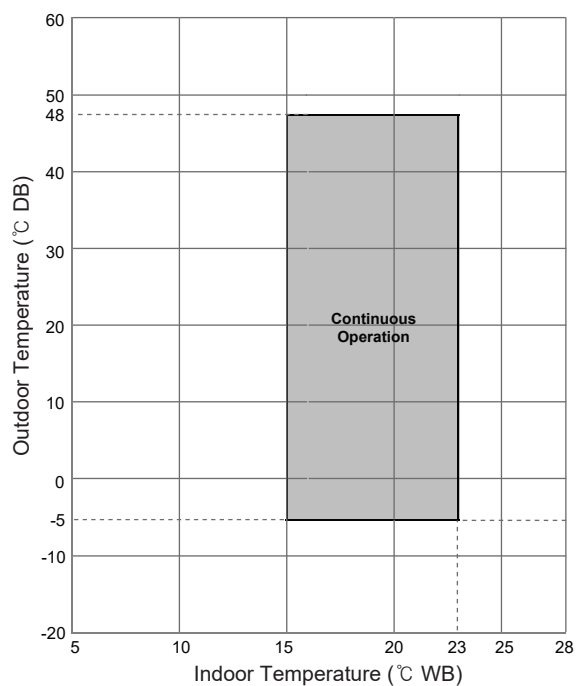
- DB : Dry bulb temperature(°F), WB : Wet bulb temperature(°F), CFM : Cubic ft per minute
- TGC : Total Capacity(MBH = kBtu/h)
- PI : Power Input (kW, Compressor + outdoor fan motor)

8. Operation Limits

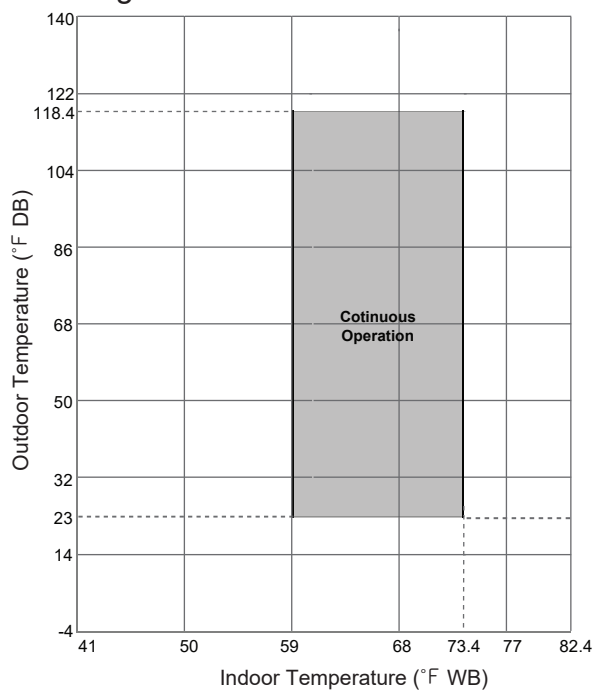
8.1 Cooling Operation

AK-W300DCA0, AK-W240DCA0

SI Unit



English Unit



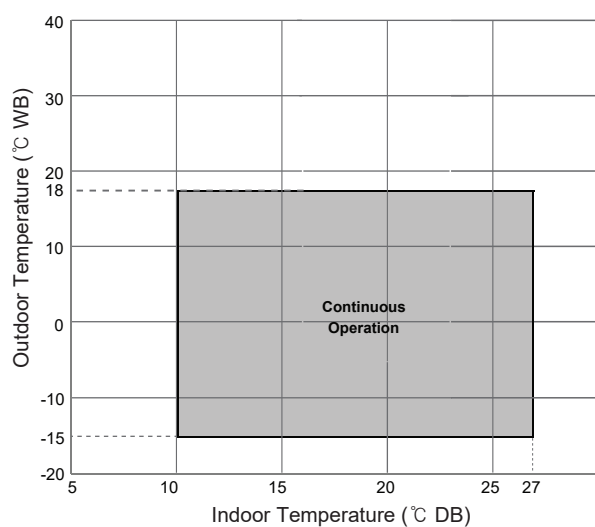
■ Without low ambient kit, unit can be operated when outdoor temperature goes down to -5°C(23°F).

8. Operation Limits

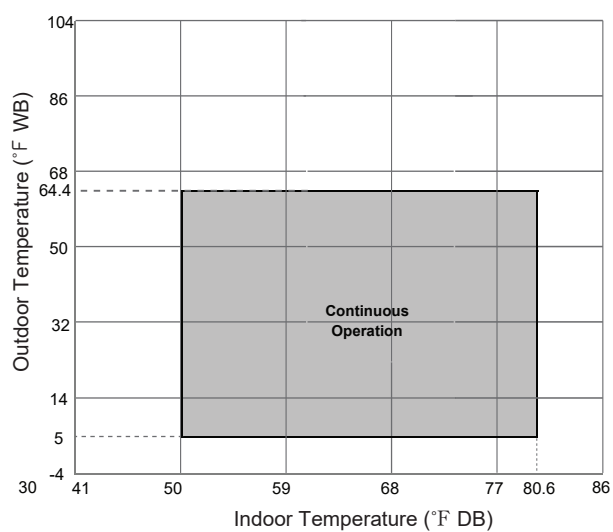
8.2 Heating Operation

AK-W300DCA0, AK-W240DCA0

SI Unit



English Unit



9. Fan Performance data

9.1 Evaporator(SI)

AK-W300DCA0

ESP(mm.Aq)																				
l/s	2.54		5.08		7.62		10.16 *		12.7		15.2		17.8		20.3		22.9		25.4	
	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW
3,728	990	1.86	1,010	1.96	1,040	2.05	1,060	2.15	1,080	2.30	1,100	2.45	1,120	2.61	1,140	2.79	1,150	2.98	1,170	3.17
4,011	1,060	2.22	1,080	2.33	1,100	2.45	1,120	2.57	1,140	2.71	1,160	2.86	1,180	3.01	1,200	3.21	1,210	3.41	1,230	3.61
4,342	1,140	2.69	1,160	2.84	1,180	2.99	1,200	3.14	1,220	3.27	1,230	3.41	1,250	3.54	1,270	3.75	1,280	3.96	1,300	4.17
4,776	1,250	3.39	1,270	3.61	1,280	3.83	1,300	4.04	1,310	4.15	1,330	4.26	1,340	4.36	1,360	4.56	1,370	4.76	1,390	4.96
5,210	1,360	4.19	1,370	4.49	1,390	4.80	1,400	5.11	1,410	5.17	1,430	5.24	1,440	5.31	-	-	-	-	-	-

ESP(mm.Aq)																				
l/s	28.0		30.5		33.0		35.6		38.1		40.6		43.2		45.7		48.3		50.8	
	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW
3,728	1,190	3.30	1,200	3.44	1,210	3.57	1,230	3.70	1,250	3.81	1,260	3.92	1,280	4.03	1,300	4.19	1,310	4.36	1,330	4.52
4,011	1,250	3.76	1,260	3.91	1,270	4.05	1,290	4.20	1,310	4.33	1,320	4.47	1,340	4.61	1,360	4.76	1,380	4.93	1,400	5.09
4,342	1,320	4.34	1,330	4.50	1,340	4.66	1,360	4.83	1,370	5.01	1,390	5.19	1,400	5.38	1,420	5.53	1,430	5.68	1,450	5.83
4,776	1,410	5.16	1,420	5.35	1,430	5.54	1,450	5.74	-	-	-	-	-	-	-	-	-	-	-	-
5,210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note

- RPM can be changed by using wired remote control without change of motor in full static pressure and air volume area
- Fan motor heat (kW) = Fan BkW / Motor efficiency (Motor efficiency = 0.954)
- * : It is factory set value for each model.

9. Fan Performance data

AK-W240DCA0

l/s	ESP(mm.Aq)																			
	2.54		5.08		7.62		10.16 *		12.7		15.2		17.8		20.3		22.9		25.4	
	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW
3,162	870	1.32	890	1.39	910	1.46	930	1.53	950	1.67	980	1.82	1,000	1.97	1,020	2.10	1,050	2.23	1,070	2.36
3,539	950	1.64	970	1.73	990	1.82	1,010	1.91	1,030	2.06	1,050	2.21	1,070	2.37	1,090	2.54	1,110	2.71	1,130	2.88
3,775	1,010	1.92	1,030	2.01	1,050	2.11	1,070	2.21	1,090	2.36	1,110	2.51	1,130	2.67	1,150	2.86	1,160	3.05	1,180	3.24
4,153	1,100	2.41	1,120	2.54	1,130	2.67	1,150	2.80	1,170	2.94	1,190	3.08	1,210	3.23	1,230	3.43	1,240	3.64	1,260	3.85
4,530	1,190	2.98	1,210	3.16	1,220	3.34	1,240	3.51	1,260	3.64	1,270	3.76	1,290	3.89	1,310	4.09	1,320	4.30	1,340	4.51
l/s	ESP(mm.Aq)																			
	28.0		30.5		33.0		35.6		38.1		40.6		43.2		45.7		48.3		50.8	
	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW	RPM	BkW
3,162	1,090	2.53	1,110	2.69	1,130	2.85	1,150	3.02	1,150	3.04	1,160	3.07	1,160	3.10	1,170	3.24	1,190	3.40	1,200	3.54
3,539	1,150	3.01	1,160	3.14	1,170	3.26	1,190	3.39	1,210	3.49	1,220	3.58	1,240	3.68	1,250	3.84	1,270	4.01	1,280	4.17
3,775	1,200	3.38	1,210	3.51	1,220	3.64	1,240	3.78	1,260	3.89	1,270	4.00	1,290	4.12	1,300	4.28	1,310	4.45	1,320	4.61
4,153	1,280	4.01	1,290	4.16	1,300	4.31	1,320	4.46	1,340	4.62	1,350	4.77	1,370	4.92	1,380	5.08	1,390	5.24	1,400	5.40
4,530	1,360	4.69	1,370	4.86	1,380	5.03	1,400	5.22	1,410	5.43	1,430	5.65	1,440	5.87	1,450	6.01	-	-	-	-

Note

- RPM can be changed by using wired remote control without change of motor in full static pressure and air volume area
- Fan motor heat (kW) = Fan BkW / Motor efficiency (Motor efficiency = 0.952)
- * : It is factory set value for each model.

9. Fan Performance data

9.2 Evaporator(English)

AK-W300DCA0

ESP(in.Aq)																				
CFM	0.1		0.2		0.3		0.4 *		0.5		0.6		0.7		0.8		0.9		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7,900	990	2.50	1,010	2.63	1,040	2.76	1,060	2.89	1,080	3.10	1,100	3.30	1,120	3.50	1,140	3.75	1,150	4.01	1,170	4.26
8,500	1,060	2.98	1,080	3.14	1,100	3.30	1,120	3.45	1,140	3.65	1,160	3.84	1,180	4.04	1,200	4.31	1,210	4.59	1,230	4.86
9,200	1,140	3.61	1,160	3.82	1,180	4.02	1,200	4.22	1,220	4.40	1,230	4.58	1,250	4.77	1,270	5.04	1,280	5.33	1,300	5.61
10,120	1,250	4.56	1,270	4.85	1,280	5.14	1,300	5.44	1,310	5.58	1,330	5.72	1,340	5.87	1,360	6.13	1,370	6.41	1,390	6.67
11,040	1,360	5.63	1,370	6.04	1,390	6.46	1,400	6.87	1,410	6.96	1,430	7.05	1,440	7.14	-	-	-	-	-	-

ESP(in.Aq)																				
CFM	1.1		1.2		1.3		1.4		1.5		1.6		1.7		1.8		1.9		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7,900	1,190	4.44	1,200	4.62	1,210	4.80	1,230	4.98	1,250	5.12	1,260	5.27	1,280	5.41	1,300	5.63	1,310	5.86	1,330	6.07
8,500	1,250	5.06	1,260	5.26	1,270	5.45	1,290	5.65	1,310	5.83	1,320	6.01	1,340	6.19	1,360	6.41	1,380	6.63	1,400	6.84
9,200	1,320	5.83	1,330	6.05	1,340	6.27	1,360	6.49	1,370	6.74	1,390	6.98	1,400	7.23	1,420	7.43	1,430	7.64	1,450	7.84
10,120	1,410	6.94	1,420	7.19	1,430	7.45	1,450	7.72	-	-	-	-	-	-	-	-	-	-	-	-
11,040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note

- RPM can be changed by using wired remote control without change of motor in full static pressure and air volume area
- Fan motor heat (MBH) = 2.544 x Fan BHP / Motor efficiency (Motor efficiency = 0.954)
- * : It is factory set value for each model.

9. Fan Performance data

AK-W240DCA0

CFM	ESP(in.Aq)																			
	0.1		0.2		0.3		0.4 *		0.5		0.6		0.7		0.8		0.9		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6,700	870	1.78	890	1.87	910	1.96	930	2.06	950	2.25	980	2.44	1,000	2.64	1,020	2.82	1,050	3.00	1,070	3.17
7,500	950	2.21	970	2.33	990	2.45	1,010	2.57	1,030	2.77	1,050	2.97	1,070	3.18	1,090	3.41	1,110	3.65	1,130	3.88
8,000	1,010	2.58	1,030	2.71	1,050	2.84	1,070	2.98	1,090	3.18	1,110	3.38	1,130	3.59	1,150	3.84	1,160	4.10	1,180	4.36
8,800	1,100	3.24	1,120	3.42	1,130	3.59	1,150	3.77	1,170	3.96	1,190	4.15	1,210	4.34	1,230	4.62	1,240	4.90	1,260	5.18
9,600	1,190	4.01	1,210	4.25	1,220	4.49	1,240	4.73	1,260	4.89	1,270	5.06	1,290	5.23	1,310	5.50	1,320	5.79	1,340	6.06

CFM	ESP(in.Aq)																			
	1.1		1.2		1.3		1.4		1.5		1.6		1.7		1.8		1.9		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6,700	1,090	3.40	1,110	3.62	1,130	3.83	1,150	4.06	1,150	4.09	1,160	4.13	1,160	4.16	1,170	4.36	1,190	4.57	1,200	4.77
7,500	1,150	4.05	1,160	4.22	1,170	4.39	1,190	4.56	1,210	4.69	1,220	4.82	1,240	4.95	1,250	5.16	1,270	5.39	1,280	5.60
8,000	1,200	4.54	1,210	4.72	1,220	4.90	1,240	5.09	1,260	5.23	1,270	5.38	1,290	5.53	1,300	5.75	1,310	5.98	1,320	6.20
8,800	1,280	5.39	1,290	5.59	1,300	5.79	1,320	6.00	1,340	6.21	1,350	6.41	1,370	6.62	1,380	6.83	1,390	7.05	1,400	7.26
9,600	1,360	6.30	1,370	6.54	1,380	6.77	1,400	7.01	1,410	7.30	1,430	7.59	1,440	7.90	1,450	8.08	-	-	-	-

Note

- RPM can be changed by using wired remote control without change of motor in full static pressure and air volume area
- Fan motor heat (MBH) = 2.544 x Fan BHP / Motor efficiency (Motor efficiency = 0.952)
- * : It is factory set value for each model.

9. Fan Performance data

9.3 Filter(Accessory)

AK-W300DCA0

Air Flow		Filter(MERV 8)		Filter(MERV 13)	
CFM	l/s	in.Aq	mmAq	in.Aq	mmAq
8,800	4,153	0.152	3.85	0.289	7.35
9,200	4,342	0.161	4.09	0.311	7.89
9,600	4,531	0.171	4.33	0.334	8.47
10,120	4,776	0.184	4.68	0.366	9.29
11,040	5,210	0.211	5.35	0.431	10.94

Note

- The above data are specific company specifications and may differ from the filters actually applied.

9. Fan Performance data

AK-W240DCA0

Air Flow		Filter(MERV 8)		Filter(MERV 13)	
CFM	l/s	in.Aq	mmAq	in.Aq	mmAq
6,400	3,020	0.107	2.71	0.189	4.79
7,200	3,398	0.120	3.05	0.218	5.53
7,360	3,474	0.123	3.12	0.224	5.69
8,000	3,776	0.135	3.43	0.251	6.37
8,280	3,908	0.141	3.57	0.264	6.70

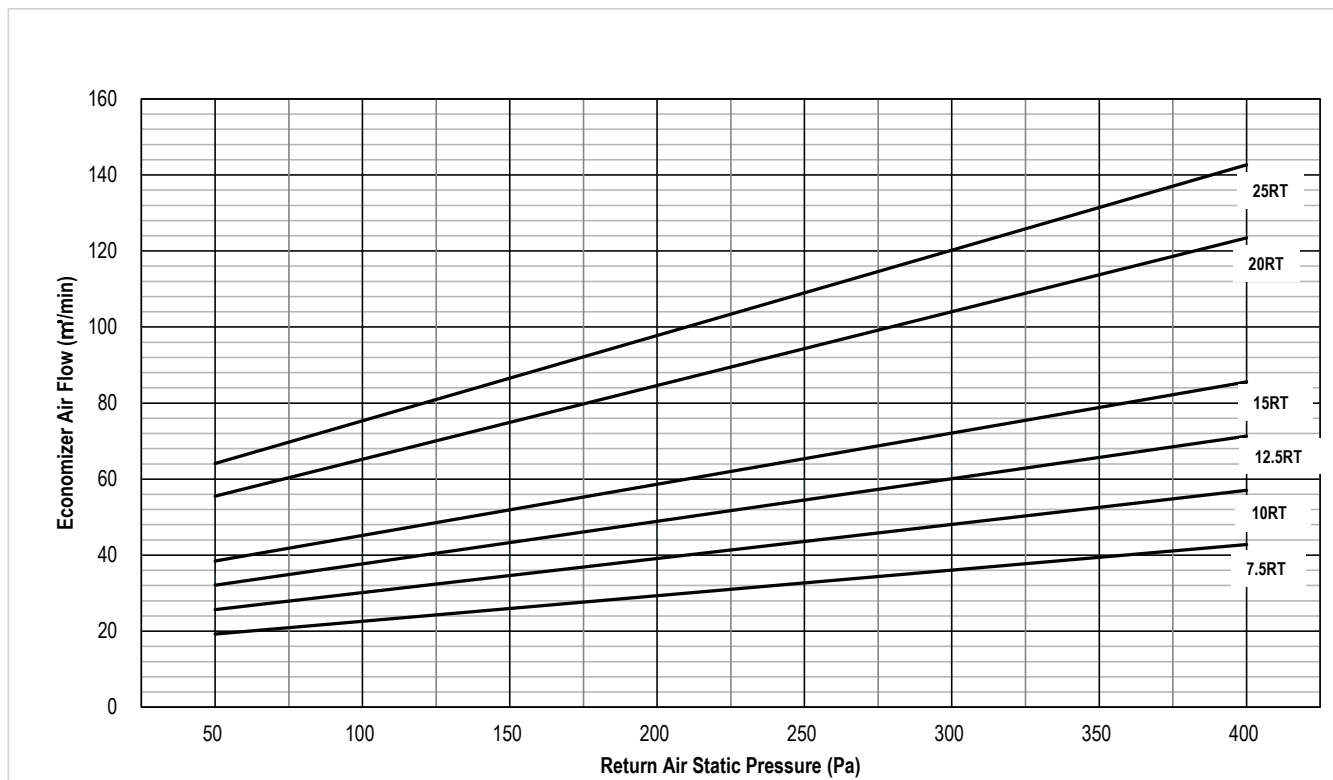
Note

- The above data are specific company specifications and may differ from the filters actually applied.

9. Fan Performance data

9.4 Economizer(Accessory)

AK-W300DCA0, AK-W240DCA0

**Note**

- Due to our policy of innovation some specifications may be changed without notification.



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