

ComfortStar®

Ductless Mini-Splits, Light Commercial and Multi-Zone Systems

Comfort... *it's in our name.*



INTERNATIONAL

ELITE | CRYSTAL | BLU SERIES
High Efficiency Heat Pumps and Light Commercial Systems



LIGHT COMMERCIAL PRODUCT CATALOG



We provide Comfort at a great value.
Comfort... it's in our name.

Recognized world-wide as a leader in providing reliable, energy efficient, innovative and cost-effective products.

With over 50 years of combined experience, our research and development team continues to develop products that adhere to the highest quality standards, while elevating the level of efficiency to protect our precious environment.

Our manufacturing facilities maintain the highest quality and reliability standards with ISO9001 and ISO14001. All our products are AHRI and ETL certified. Across the world, we are committed to bringing daily comfort into every facet of your lives. Whether it is your home, your child's school, or your local grocery store, ComfortStar is there to ensure a pleasant environment, regardless of the climate.

Advances in Inverter technology have made mini-split heat pump systems among the highest efficiency heating and air conditioning systems on the market today.

This technology allows us to modulate the frequency of a compressor according to the thermal load of the conditioned space; therefore, a compressor can reduce the amount of work it does to reach a desired set temperature. This results in longer compressor life-span and most importantly, decrease in energy usage and increased energy savings.

Mini-splits are ideal when making additions to a home, since expanding existing duct work can be problematic in some situations. Ease of installation makes it very practical for light commercial applications, such as hotel rooms, office spaces, malls and hospitals.



ComfortStar®

ALEGRIA  **SERIES**

INVERTER
TECHNOLOGY

ComfortStar®

Comfort... it's in our name

CCU-C Series

UP TO
13
SEER



LIGHT COMMERCIAL

FEATURES:

- Cooling only
- Compact design for the outdoor unit
- Universal design
- Auto restart
- Metal grille
- 24V electronic control communication connection safe and simple.



Auto-restart function.



Metal grille



Compact design



24V Control Signal

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CCU-C Series

UP TO
13
SEER



Model (Top Discharge Condensing Unit)		CCU24-410-C	CCU36-410-C	CCU48-410-C	CCU60-410-C	CCU60-410C-3-C	
Power supply	V-Hz-Ph	220V-1Ph-60Hz	208-230V/1Ph/60Hz	220V-1Ph-60Hz	220V-1Ph-60Hz	220V-3Ph-60Hz	
Max. input consumption	W	2620	3600	6125	6900	6725	
Max. current	A	13.2	23	30.93	34.6	19.18	
Starting current	A	45	50	50	80	/	
Compressor	Model	PA240M2A-3MTU2	GVS295KAA	ABT042KTA	ABT054KAA	ZP54KUE-TF5-52E	
	Type	Rotary	Rotary	scroll	scroll	scroll	
	Brand	GMCC	LG	LG	LG	Emerson	
	Qty	1	1	1	1	1	
	Capacity	W	7220	8397	12368	15815	15900
	Input	W	2475	2933	3980	4820	5140
	Rated current(RLA)	A	11.75	13.6	17.5	21.5	18.6
	Thermal protector		Inner	Inner	Inner	Inner	Inner
	Capacitor	uF	55	60	70	80	/
Refrigerant oil	ml	440	540	1360	1360	1242	
Refrigerant		R410a	R410a	R410a	R410a	R410a	
Outdoor fan motor	Model	S.TB-DQ-YDK-160-6P2	S.TB-DQ-YDK-160-6P2	S.TB-DQ-YDK-230-6P2	S.TB-DQ-YDK-230-6P2	S.TB-DQ-YDK-230-6P2	
	Brand	Weiling	Weiling	Weiling	Weiling	Weiling	
	Drive	type	AC	AC	AC	AC	Direct
	Qty		1.00	1.00	1.00	1.00	1.00
	Input	W	356.00	356.00	511.00	511.00	511.00
	Capacitor	uF	6uF/450V	6uF/450V	12uF/450V	12uF/450V	12uF/450V
	Speed	r/min	1100	1100	1095	1095	1095
Outdoor coil	Number of rows		1	1	1	1	
	Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37	21x13.37	21x13.37	21*25.6
	Fin spacing	mm	1.4 Unhydrophilic aluminum	1.4 Unhydrophilic aluminum	1.4 Unhydrophilic aluminum	1.4 Unhydrophilic aluminum	1.4 Unhydrophilic aluminum
	Fin type		1428x588x13.37	1428x588x13.37	2150x798x13.37	2148x798x13.37	2148x798x25.6
	Coil length x height x width	mm	2	2	4	4	5
	Number of circuits		7.00	7.00	7.00	7.00	7.00
Tube O.D and type	mm	Inner groove tube	Inner groove tube	Inner groove tube	Inner groove tube	Inner groove tube	
Outdoor noise level	dB(A)	65	65	65	65	60	
Dimension	Body (WxDxH)	mm	554x554x633	554x554x633	740x740x835	740x740x835	740x740x835
	Packing (WxDxH)	mm	575x575x660	575x575x660	760x760x875	760x760x875	760x760x875
Net/Gross weight	kg	46/49	46.5/49.5	74/78.5	74.5/79	76.5/71.5	
Refrigerant charge	g	R410A/1200	R410A/1650	R410A/1900	R410A/2100	R410A/2550	
Throttle type		Indoor Piston	Indoor Piston	Indoor Piston	Indoor Piston	Indoor Piston	
Design pressure (high side/low side)	MPa	3.6/0.98	4.0/1.2	4.0/1.2	4.0/1.2	4.0/1.2	
Refrigerant piping	Liquid side/ Gas side	mm	Φ9.52/Φ15.88	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05
	Max. refrigerant pipe length	m	20	20	20	20	15.00
	Max. difference between outdoor unit and indoor unit	m	10	10	10	10	4.00
Connection wiring	Power wiring	mm2	3x2.5	3x4.0	3x4.0	3x6	3x4.0
	Signal wiring	mm2	2x0.75	2x0.75	4x0.75	4x0.75	4x0.75
Ambient temp	°C	16~43	16~43	16~43	16~43	21~43	
Loading QTY (20'/40'/40HQ)	Pcs	120/180/320	120/180/320	42/90/135	42/90/135	42/90/135	

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NEO-C Series



LIGHT COMMERCIAL

FEATURES:

- Flexible Design
(Horizontal or Vertical Installation)
- Compact Design
- Quiet Operation
- Adjustable 3-Speed Fan Motor
- Louver Swing Function
to disperse Air Flow
- Wireless Remote Control (standard)
- Wired Wall Remote (optional)



High Quality



3-dimensional
Airflow



LED-display



Auto-restart
function.

NEO-C Series



Model (Floor Ceiling Indoor Unit)			NEO24SC-C	NEO36SC-C	NEO48SC-C	NEO60SC-C
Power supply	V-Ph-Hz		220V-1Ph-60Hz	220V-1Ph-60Hz	220V-1Ph-60Hz	220V-1Ph-60Hz
Cooling	Capacity	Btu/h	24000	36000	48000	60000
	Capacity	W	7032	10548	14064	17580
	Input	W	2430	3840	5706	6430
	Rated current	A	11.12	17.5	26.49	29.88
	Input(indoor unit)	W	160	160	320	320
	Rated current(indoor unit)	A	0.72	0.72	1.45	1.45
	EER	Btu/h.W	9.88	9.38	8.41	9.33
	EER	W/W	2.89	2.75	2.46	2.73
Indoor external static pressure	pa		0	0	0	0
Operation Control	\		Remote controller	Remote controller	Remote controller	Remote controller
Indoor coil	Number of rows		2	3	2	3
	Tube pitch(a)xrow pitch(b)	mm	21×13.37	21×13.37	21×13.37	21×13.37
	Fin spacing	mm	1.4	1.4	1.4	1.4
	Fin type		Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
	Tube outside dia. and type	mm	7 inner grooved	7 inner grooved	7 inner grooved	7 inner grooved
	Coil length x height x width	mm	1000×252×69.2	1000×252×69.2	1378×252×70	1378×252×70
	Number of circuits		2	4	3	5
Indoor air flow(High speed)	m3/h		1300	1700	2200	2300
Indoor noise level	dB(A)		46-53	51-56	51-56	51-57
Power supply	Dimension(W*H*D)	Body(mm)	1245×240×680	1245×240×680	1670×240×680	1670×240×680
	Packing(W*H*D)	Body(mm)	1325×325×770	1325×325×770	1750×325×770	1750×325×770
	Net/Gross weight	Body(Kg)	34/40	35/41	47/54	47/54
Indoor fan motor	Brand		Kaihua	Weiling	Kaihua	Kaihua
	Model		YSK110-75LD-4P2	YSK110-180LD-4P2	YSK110-59LD-4P17	YSK110-59LD-4P17
	Input	W	110	220	167*2	167*2
	Output	W	75	180	83*2	83*2
	Capacitor	uF	5	5	3*2	3*2
	Speed(hi/mi/lo)	r/min	980/880/780	1330/1230/1130	1316/1139/1010	1316/1139/1010
Refrigerant piping	Liquid side/ Gas side	mm	Φ9.52/Φ15.88	Φ9.52/Φ19	Φ9.52/Φ19	Φ9.52/Φ19
	Max. Pipe length	m	20	20	20	20
	Max. Fall	m	10	10	10	10
Connection wiring	Power wiring	mm2	3×1.0	3×1.0	3×1.0	3×1.0
	Signal wiring	mm2	2×0.75	2×0.75	4×0.75	4×0.75
Operation temp	°C		16-32	16-32	16-32	16-32
Draining pipe dimension	mm		Φ25	Φ25	Φ25	Φ25
Loading QTY 20' /40' /40' HQ	Pcs		75/165/189	75/165/189	65/135/158	65/135/158

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CCT-C Series



LIGHT COMMERCIAL

FEATURES:

- Developed panel
- New body, Slim design, saving installation
- Intelligent auto-swing function, three modes for choice
- Three fan speed selection
- New streamlined fan design
- 4 way air flow
- Convenient Installation



Three fan speed selection



Intelligent auto-swing function



High Quality



New body Slim design



Auto-restart function.

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CCT-C Series

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Model			CCT24-24-C	CCT36-24-C	CCT48-24-C	CCT60-24-C
Indoor power supply		V/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Cooling	Capacity	Btu/h	24000	36000	48000	60000
		W	7032	10548	14064	17580
	Input	W	2420	3840	5566	6290
	Rated current	A	11.1	17.5	25.84	29.23
	Input(Indoor unit)	W	150	150	180	180
	Rated current(Indoor unit)	A	0.7	0.7	0.8	0.8
	EER	W/W	2.91	2.75	2.53	2.79
Indoor fan motor	Brand		KAIBANG	KAIBANG	KAIBANG	KAIBANG
	Model		YDK-45Q-6P2	YDK-45Q-6P2	YDK-75Q-6P2	YDK-75Q-6P2
	Input	W	100	100	180	180
	Capacitor	μF	2.5	2.5	4	4
	Speed(Hi/Me/Lo)	r/min	850/730/580	850/730/580	800/750/650	800/750/650
Indoor coil	Number of rows		2	2	2	2
	Tube pitch(a)xrow pitch(b)	mm	21×13.37	21×13.37	21×13.37	21×13.37
	Fin spacing	mm	1.45	1.45	1.45	1.45
	Fin type		Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
	Tube outside dia. and type	mm	Φ7	Φ7	Φ7	Φ7
			inner grooved	inner grooved	inner grooved	inner grooved
Number of circuits		8	8	12	12	
Indoor air flow(High speed)	m3/h	1200	1200	1900	1900	
Indoor noise level	dB(A)	45~52	45~52	51~57	51~57	
Indoor unit	Dimension(W*D*H)	Body(mm)	840×840×230	840×840×230	840×840×285	840×840×285
		Panel(mm)	950×950×50	950×950×50	950×950×50	950×950×50
	Packing(W*D*H)	Body(mm)	920×920×310	920×920×310	920×920×375	920×920×375
		Panel(mm)	1030×1030×105	1030×1030×105	1030×1030×105	1030×1030×105
	Net/Gross weight	Body(Kg)	28/32	28/32	31/35	31/35
		Panel(Kg)	5.4/8.0	5.4/8.0	5.4/8.0	5.4/8.0
Max pressure	MPa	4.0	4.0	4.5	4.5	
Refrigerant type		R410A	R410A	R410A	R410A	
Refrigerant piping	Liquid side/Gas side	mm	Φ9.52/Φ15.88	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05
Drainage pipe	mm	25	25	25	25	
Standard controller		Remote controller	Remote controller	Remote controller	Remote controller	
Operation temp	°C	16~32	16~32	16~32	16~32	
Ambient temp	°C	18~43	18~43	18~43	18~43	
Application area	m2	28-50	40-70	55-95	60-105	
Stuffing Quantity(20'/40'/40'HQ)	set	75/155/170	65/130/150	65/130/150	65/130/150	

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**MRR
Series**
2 - 5 Tons
Condensing Units

UP TO
13
SEER



Painted galvanized
Steel cabinet



Twin-rotary DC
compressor



24V low-voltage
control



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4 Cooling and Heating Models

MRR24-410-C MRR48-410-C
MRR36-410-C MRR60-410-C

FEATURES:

- R-410A environmentally friendly refrigerant.
- Painted galvanized steel cabinet.
- Metal coil guard
- 24V low voltage control
- AHRI Certified & ETL Listed.
- Wide operation temperature range: 5°F -118°F
- Mitsubishi Twin-rotary DC compressor reliable quality
- Condenser coils constructed with copper tubing and enhanced aluminum fins.
- 24K&36K use AC motor. 48K&60K use DC motor.
- Intelligent defrost programs, unit will choose different defrost program according to real condition.

MRR Series



Heating Models



- Use EXV as expansion device for outdoor unit in heating mode

Both Heating and Cooling models



- Discharge temperature protection
- When discharge temp. too high, compressor will stop

Protection Functions



- Over High and Over Low pressure protection

Refrigerant pipeline cooling



- The refrigerant pipeline cooling and fin cooling are used to cool the electronic control board.



MRR-C Series

Cooling and Heating

UP TO 18 SEER



Model			MRR24-410-C	MRR36-410-C	MRR48-410-C	MRR60-410-C
Electrical Data	Voltage-Phase-Hz	V-Ph-Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz
	Minimum Circuit Ampacity	A	17.7	24.2	31.9	36.5
	Max. Overcurrent Protection	A	30	40	50	60
	Min / MaxVolts	V	187 / 253	187 / 253	187 / 253	187 / 253
Cooling	Capacity	Btu/h	24000	34400	47000	56000
	EER	Btu/h.W	12.00	11.20	11.50	10.70
	SEER	Btu/h.W	17.50	17.50	17.50	17.50
Heating	Capacity		24000	34400	47000	56000
	HSPF		9.50	9.50	9.50	9.50
Outdoor motor	Model		YDK-110-8P2-AL	YDK-110-8P2-AL	DRN-310-200-10	DRN-310-200-10
	Type		AC	AC	DC	DC
	Capacitor	µF	6	6	/	/
	Speed	rpm	870	870	1050	1050
Outdoor Fan	material		Metal	Metal	Metal	Metal
	Type		Axial flow	Axial flow	Axial flow	Axial flow
	Diameter	In.	23	23	23-5/8	23-5/8
	Height	In.	4-3/8	4-3/8	4-1/2	4-1/2
	Air flow	CFM	2400	2950	4100	4100
Outdoor noise level		dB(A)	75	77	79	79
Outdoor unit	Dimension (W×H×D)	mm	740×633×740	740×633×740	740×843×740	740×843×740
		inch	29-1/8×24-15/16×29-1/8	29-1/8×24-15/16×29-1/8	29-1/8×33-3/16×29-1/8	29-1/8×33-3/16×29-1/8
	Packing (W×H×D)	mm	760×660×760	760×660×760	760×875×760	768×875×760
		in.	30-1/5×26-1/4×30-1/5	30-1/5×26-1/4×30-1/5	30-1/5×34-1/2×30-1/5	30-1/5×34-1/2×30-1/5
	Net / Gross weight	kg	71 / 75	71 / 75	91 / 96	91 / 96
		lbs	157 / 165	157 / 165	201 / 211	201 / 211
Refrigerant system	Liquid side / Gas side	in.	3/8 / 3/4	3/8 / 3/4	3/8 / 7/8	3/8 / 7/8
	Factory charge R410A	oz	114	114	166	166
	Metering device		EEV	EEV	EEV	EEV
Operating temperatures		°F	5-118	5-118	5-118	5-118

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MRR-G Series

Cooling Only



Model			MRR24-410-G	MRR36-410-G	MRR48-410-G	MRR60-410-G
Electrical Data	Voltage-Phase-Hz	V-Ph-Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz
	Minimum Circuit Ampacity	A	17.7	24.2	31.9	36.5
	Max. Overcurrent Protection	A	25	40	50	60
	Min / Max Volts	V	187 / 253	187 / 253	187 / 253	187 / 253
Cooling	Capacity	Btu/h	24000	36000	48000	56000
	EER	Btu/h.W	11.60	11.30	12.10	10.70
	SEER	Btu/h.W	18.00	18.00	18.00	18.00
Outdoor motor	Model		YDK-110-8P2-AL	YDK-110-8P2-AL	DRN-310-200-10	DRN-310-200-10
	Type		AC	AC	DC	DC
	Capacitor	µF	6	6	/	/
	Speed	rpm	850	850	1050	1050
Outdoor Fan	material		Metal	Metal	Metal	Metal
	Type		Axial flow	Axial flow	Axial flow	Axial flow
	Diameter	In.	23	23	23-5/8	23-5/8
	Height	In.	4-3/8	4-3/8	4-1/2	4-1/2
	Air flow	CFM	2950	2950	4100	4100
Outdoor noise level		dB(A)	75	77	79	79
Outdoor unit	Dimension (W×H×D)	mm	740×633×740	740×633×740	740×843×740	740×843×740
		inch	29-1/8×24-15/16×29-1/8	29-1/8×24-15/16×29-1/8	29-1/8×33-3/16×29-1/8	29-1/8×33-3/16×29-1/8
	Packing (W×H×D)	mm	760×660×760	760×660×760	760×875×760	760×875×760
		in.	30-1/5×26-1/4×30-1/5	30-1/5×26-1/4×30-1/5	30-1/5×34-1/2×30-1/5	30-1/5×34-1/2×30-1/5
	Net / Gross weight	kg	68/72	68/72	88/93	88/93
		lbs	150/159	150/159	194/205	194/205
Refrigerant system	Liquid side / Gas side	in.	3/8 / 3/4	3/8 / 3/4	3/8 / 7/8	3/8 / 7/8
	Factory charge R410A	oz	114	114	166	166
	Metering device		TXV	TXV	TXV	TXV
Operating temperatures		°F	53-118	53-118	53-118	53-118

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UP TO
18
SEER

AHH Series

2 - 5 Tons
High Efficiency
Air Handlers



Cabinet
Galvanized steel



DC motor
Energy-saving



Coil
"A" shape coils

INVERTER



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AHH Series

UP TO
18

SEER

2 - 5 Tons
High Efficiency

4 Air Handlers Models

AHH24-410-C | AHH36-410-C
AHH48-410-C | AHH60-410-C

FEATURES:

- **Drain pan** Durable non-corrosive plastic drain pans.
- **Coil** "A" shape coils, constructed with copper tubing and enhanced aluminum fins
- **Cabinet** Galvanized steel, with powder paint on all panels.
- **Expansion device** Use TXV as expansion device
- **Motor** ECM motor with high energy efficiency and low noise.
- **Multi position installation** Versatile 4-way convertible design for vertical up airflow, horizontal right airflow.
- **Filter optional** Detachable air filter for cleaning or renewal.
- **Control** 24V control, time delay relay, fan relay and transformer included.
- **Certificate** Certified in accordance with AHRI 210/240 standards, ETL listed for electrical safety.



Cabinet
Galvanized steel



DC motor
Energy-saving



Coil
"A" shape coils



INVERTER



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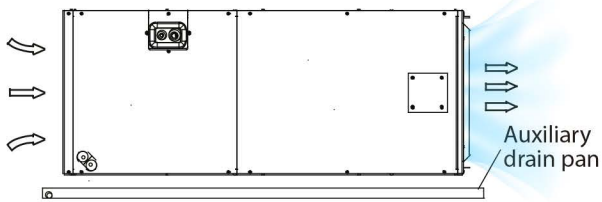




MULTI - POSITION Air Handler

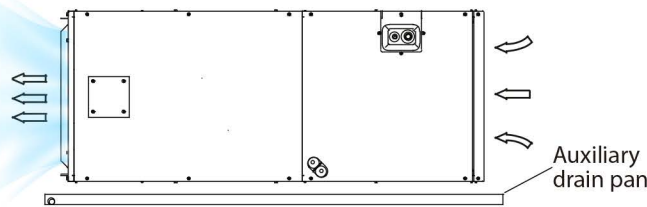
The air handler can be installed in a vertical or horizontal configuration.

NOTE: Vertical up and horizontal right installations, no need to change the direction of the evaporator.



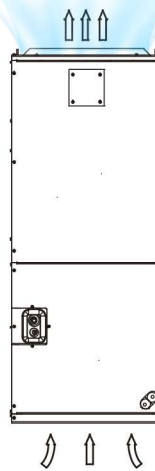
Horizontal right installations

NOTE: For horizontal installations a drain pan (not supplied) must be installed

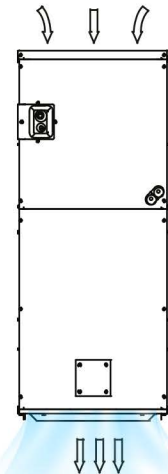


Horizontal left installations

NOTE: For horizontal installations a drain pan (not supplied) must be installed

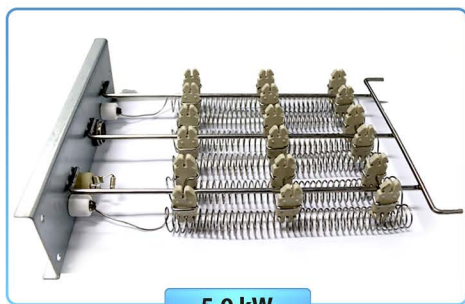


Vertical up installations



Vertical down installations

Optional Electric Heating with Different Power



5.0 kW



7.5 kW

DESCRIPTION	REF.AIR HANDLER USE
5.0 kW Electric Heating	24K,36K,48K,60K
7.5 kW Electric Heating	24K,36K,48K,60K
10.0 kW Electric Heating	24K,36K,48K,60K
15.0 kW Electric Heating	36K,48K,60K
20.0 kW Electric Heating	48K,60K

AHH Series

Multi position Air Handler



Model		AHH24-410-C	AHH36-410-C	AHH48-410-C	AHH60-410-C
Power supply	V/Ph/Hz	208-230V/1PH/60Hz	208-230V/1PH/60Hz	208-230V/1PH/60Hz	208-230V/1PH/60Hz
Indoor coil	Number of rows	4x2	4x2	5x2	5x2
	Tube outside dia. /Type	7mm / Innergroove tube	7mm / Innergroove tube	7mm / Innergroove tube	7mm / Innergroove tube
	Fin spacing /Thickness /Type	mm / mm 1.6 / 0.095 / Hydrophilic aluminium	1.6 / 0.095 / Hydrophilic aluminium	1.6 / 0.095 / Hydrophilic aluminium	1.6 / 0.095 / Hydrophilic aluminium
	Tube pitch(a) x row pitch(b)	mm 13.37 x 21	13.37 x 21	13.37 x 21	13.37 x 21
Indoor motor	type	ECM	ECM	ECM	ECM
	Rated HP	1/3	1/2	3/4	3/4
	Rated RPM	r/min 770	870	1050	1050
	FLA	2.8	4.1	6.0	6.0
Indoor fan	material	Galvanized plate	Galvanized plate	Galvanized plate	Galvanized plate
	Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Diameter	inch 11	11	11	11
	Height	inch 10-5/8	10-5/8	10-5/8	10-5/8
Indoor air flow	CFM	830	1100	1600	1600
ESP	Pa	25	37.5	50	50
Indoor noise level	dB(A)	63	66	67	68
Metering device	Throttle type	TXV	TXV	TXV	TXV
	Model number	3TR	3TR	5TR	5TR
Electrical Data	Voltage-Phase-Hz	V-Ph-Hz 208/230V 1Ph 60Hz	208/230V 1Ph 60Hz	208/230V 1Ph 60Hz	208/230V 1Ph 60Hz
	Minimum Circuit Ampacity	3.5	5.1	7.5	7.5
	Max. Overcurrent Protection	15	15	15	15
	Min / MaxVolts	V 187 / 253	187 / 253	187 / 253	187 / 253
Indoor	Dimension (WxHxD)	mm 500x1162x560	500x1162x560	560x1350x620	560x1350x620
		in. 19-5/8x45-3/4x22	19-5/8x45-3/4x22	22x53-1/8x24-3/8	22x53-1/8x24-3/8
	Packing (WxHxD)	mm 580x1210x650	580x1210x650	640x1390x710	640x1390x710
		in. 22-7/8x47-3/5x25-3/5	22-7/8x47-3/5x25-3/5	25-1/8x54-3/4x28	25-1/8x54-3/4x28
	Net / Gross weight	kg 57 / 63	57 / 63	77 / 85	77 / 85
		lbs 126 / 139	126 / 139	170 / 188	170 / 188
Refrigerant piping Liquid side / Gas side	in. 3/8 / 3/4	3/8 / 3/4	3/8 / 7/8	3/8 / 7/8	
Shipping per STD40HQ		154	154	104	104

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CCU Series

CONDENSING UNIT

ComfortStar®

- CCU36-410-T
- CCU60-410-T
- CCU60-410-3-T

36,000 to 60,000 Btu/hr

STANDARD FEATURES:

- High efficiency compressor
- Compact design for easy installation
- Quiet operation
- Removable coil guard panels
- Copper tube and aluminum fin
- Fully Louvered coil guard protection
- R410a system



CCU Series

CONDENSING UNIT

Model name	Universal Outdoor Unit		CCU36-410-T	CCU60-410-T	CCU60-410-3-T
Power supply		V/Ph/Hz	220-240V~/1Ph/60Hz	208-230V/1Ph/60Hz	220V/3Ph/60Hz
Max. input consumption		W	4915	8000	7350
Max. current		A	24.5	40	24
Starting current		A	68	125	137
Max Operating Pressure(MPa)	Discharge	MPa	4.5	4.2	4.2
	Suction	MPa	1.2	1.5	1.5
Compressor	Brand		HaiLi	Panasonic	Copeland
	Model		ATH356UN-C9EN	C-SBP160H16A	ZP54KUE-TF5-52E
	Type		Rotary	Scroll	Scroll
	Capacity	W	10550	13608	15900
	Input	W	3480	5143	4950
	Rated current(RLA)	A	16.7	23	15.1
	Locked rotor Amp(LRA)	A	68	121	136.8
	Thermal protector		internal	internal	internal
	Capacitor	mF	80	80	/
Refrigerant oil	ml	800	1500	1500	
Outdoor coil	Number of row		1	1	1
	Fin spacing	mm	1.5	1.5	1.5
	Fin material		Louver or Corrugated Fin	Louver or Corrugated Fin	Louver or Corrugated Fin
	Tube outside diameter	mm	7	7	7
	Tube material		Innergroover tube type	Innergroover tube type	Innergroover tube type
	Coil length x height x width	mm	570×570×714	2141×798×12.7	2141×798×12.7
	Number of circuit		5	4	4
Outdoor fan motor	Brand		BROAD-OCEAN	BROAD-OCEAN	BROAD-OCEAN
	Model		Y7S623B036	Y7S623C5130	Y7S623C5130
	Input	W	172	400	400
	Output	W	86	265	265
	Running current	A	0.65	1.82	1.82
	Capacitor	mF	6	12	12
	Speed	rpm	1076	1100	1100
Outdoor air flow		m ³ /h	5100	6900	6900
Outdoor noise level		dB(A)	59	62	62
Outdoor dimension	Unit (WxHxD)	mm	600x600x760	740x740x843	740x740x843
	Packing (WxHxD)	mm	630x630x792	769x769x865	769x769x865
Outdoor weight	Net	kg	62	77	72
	Gross	kg	70	82	77.5
Refrigerant	Type		R410A	R410A	R410A
	Charge	g	1800	2250	2500
Throttle type			Piston orifice in indoor unit	VALVECORE	VALVECORE
Refrigerant pipe	Liquid side	mm	9.52	9.52	9.52
	Gas side	mm	19.05	19.05	19.05
	Max. refrigerant pipe length	m	30	50	50
	Max. difference in level	m	20	30	30
Ambient temperature range	Cooling	°C	-5 to 43	-5 to 43	-5 to 43
	Heating	°C	/	/	/

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ComfortStar®

MRR & AHH SERIES

18 SEER | **INVERTER**

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ComfortStar®

4 COOLING AND HEATING MODELS

MRR24-410-C | MRR36-410-C

MRR 48-410-C | MRR60-410-C



FEATURES

- R-410A environmentally friendly refrigerant.
- Painted galvanized steel cabinet.
- Louvered steel coil guard.
- 24V low voltage control
- AHRI Certified & ETL Listed.
- Wide operation temperature range: 5 °F -118°F
- Twin-rotary DC compressor
- Condenser coils constructed with copper tubing and enhanced aluminum fins.
- 24K & 36K use AC motor/48K&60K use DC motor.
- Intelligent defrost programs
- Anticorrosion protection
- Use E XV as expansion device for outdoor unit In heating mode
- High and Low pressure protection
- Refrigerant pipeline cooling



Additional Features:

Heating Models:

EXV as expansion device for outdoor unit in heating mode.



Both Heating and Cooling models:

Sensor T3 (condenser pipe temperature) When open-circuit or short-circuit, compressor, outdoor fan motor and reverse valve will be OFF.



Protection Functions -

Over High and Over Low pressure protection

MRR SERIES

COOLING AND HEATING

18 SEER



MODEL			MRR24-410-C	MRR36-410-C	MRR48-410-C	MRR60-410-C
Electrical Data		V-Ph-Hz	208/230V-1Ph-60Hz			
	Minimum Circuit Ampacity	A	17.7	24.2	31.9	36.5
	Max. Overcurrent Protection	A	30	40	50	60
	Min / Max Volts	V	187 / 253	187 / 253	187 / 253	187 / 253
Cooling	Capacity	Btu/h	24000	34400	47000	56000
	EER	Btu/h.W	12.00	11.20	11.50	10.70
	SEER	Btu/h.W	17.50	17.50	17.50	17.50
Heating	Capacity		24000	34400	47000	56000
	HSPF		9.50	9.50	9.50	9.50
Outdoor motor	Model		YDK-110-8P2-AL	YDK-110-8P2-AL	DRN-310-200-10	DRN-310-200-10
	Type		AC	AC	DC	DC
	Capacitor	μF	6	6	/	/
	Speed	rpm	825	825	1050	1050
Outdoor Fan	material		Metal			
	Type		Axial flow			
	Diameter	In.	23	23	23-5/8	23-5/8
	Height	In.	4-3/8	4-3/8	4-1/2	4-1/2
	Air flow	CFM	2950	2950	4100	4100
Outdoor noise level		dB(A)	75	77	79	79
Outdoor unit	Dimension (W×H×D)	mm	740×633×740		740×843×740	
		inch	29-1/8×24-15/16×29-1/8		29-1/8×33-3/16×29-1/8	
	Packing (W×H×D)	mm	768×667×768		768×877×768	
		in.	30-1/5×26-1/4×x30-1/5		30-1/5×34-1/2×30-1/5	
	Net / Gross weight	kg	64/68	64/68	80/65	80/65
		lbs	141/150	141/150	176/187	176/187
Refrigerant system	Liquid side / Gas side	in.	3/8 / 3/4	3/8 / 3/4	3/8 / 7/8	3/8 / 7/8
	Factory charge R410A	oz	114	114	166	166
	Metering device		TXV & EXV	TXV & EXV	TXV & EXV	TXV & EXV
Operating temperatures		°F	5-118	5-118	5-118	5-118

ComfortStar®

4 COOLING MODELS

MRR24-410-G | MRR36-410-G

MRR48-410-G | MRR60-410-G

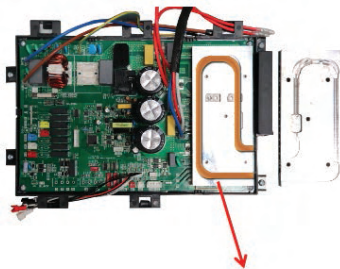


FEATURES

- R-410A environmentally friendly refrigerant.
- Painted galvanized steel cabinet.
- Louvered steel coil guard.
- 24V low voltage control
- AHRI Certified & ETL Listed.
- Wide operation temperature range: 53 °F -118°F
- Twin-rotary DC compressor
- Condenser coils constructed with copper tubing and enhanced aluminum fins.
- 24K & 36K use AC motor/48K&60K use DC motor.
- Intelligent defrost programs
- Anticorrosion protection
- Use EXV as expansion device for outdoor unit In heating mode
- High and Low pressure protection
- Refrigerant pipeline cooling

Additional Features:

The refrigerant pipeline cooling is used to cool the electronic control board. Make the circuit temperature more stable and the operation life longer.



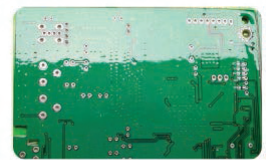
Refrigerant pipeline Cooling

Anti-corrosion choices

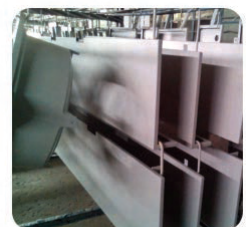
Gold Fin



Moisture Proof PCB



Thick sprayed metal plate



MRR SERIES

COOLING ONLY

18 SEER



MODEL			MRR24-410-G	MRR36-410-G	MRR48-410-G	MRR60-410-G
Electrical Data		V-Ph-Hz	208/230V-1Ph-60Hz			
	Minimum Circuit Ampacity	A	17.7	24.2	31.9	36.5
	Max. Overcurrent Protection	A	25	40	50	60
	Min / Max Volts	V	187 / 253	187 / 253	187 / 253	187 / 253
Cooling	Capacity	Btu/h	25000	36000	48000	57000
	EER	Btu/h.W	13.70	11.30	12.10	10.70
	SEER	Btu/h.W	18	18	18	18
Outdoor motor	Model		YDK-110-8P2-AL	YDK-110-8P2-AL	DRN-310-200-10	DRN-310-200-10
	Type		AC	AC	DC	DC
	Capacitor	μF	6	6	/	/
	Speed	rpm	850	850	1050	1050
Outdoor Fan	material		Metal			
	Type		Axial flow			
	Diameter	In.	23	23	23-5/8	23-5/8
	Height	In.	4-3/8	4-3/8	4-1/2	4-1/2
	Air flow	CFM	2950	2950	4100	4100
Outdoor noise level		dB(A)	75	77	79	79
Outdoor unit	Dimension (W×H×D)	mm	740×633×740		740×843×740	
		inch	29-1/8×24-15/16×29-1/8		29-1/8×33-3/16×29-1/8	
	Packing (W×H×D)	mm	760×660×760		760×875×760	
		in.	30-1/5×26-1/4×30-1/5		30-1/5×34-1/2×30-1/5	
	Net / Gross weight	kg	68 / 72	68 / 72	88 / 93	88 / 93
		lbs	150 / 159	150 / 159	194 / 205	194 / 205
Refrigerant system	Liquid side / Gas side	in.	3/8 / 3/4	3/8 / 3/4	3/8 / 7/8	3/8 / 7/8
	Factory charge R410A	oz	114	114	166	166
	Metering device		TXV	TXV	TXV	TXV
Operating temperatures		°F	53-118	53-118	53-118	53-118



ComfortStar®

4 AIR HANDLER MODELS

AHH24-410-C | AHH36-410-C

AHH48-410-C | AHH60-410-C

FEATURES

- Multi-position: upflow and horizontal right.
- Suitable for use with R22 or new R410a
- Direct drive, 3-speed PSC motor
- Transformer, fan relay included
- Fuse protected
- Easy slide out motor housing
- Built-in filter rack for 1" filter (filter not included)
- Pre-installed TXV for 14 SEER series.
- Sweat connection
- ARI certified & ETL listed

Cabinet features:

- Galvanized steel with gray powder paint on all panels
- Fully insulated cabinet
- Primary and secondary drain connections (3/4" NPT)
- Power supply entry at side and top, low-voltage entry at top

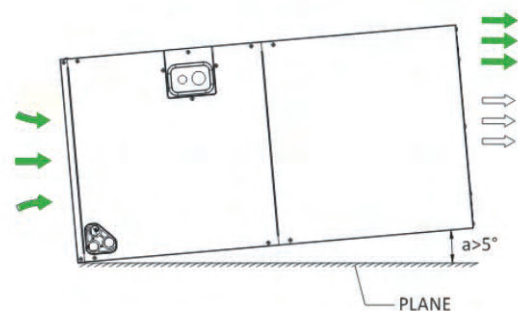
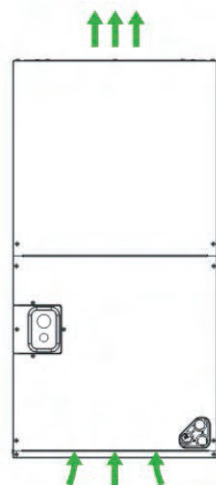
Optional Accessories:

- 5kw to 20kw electric heat kits available for field installation
- Permanent washable air filter



AHH SERIES

Multi-position
Installation



AHH SERIES

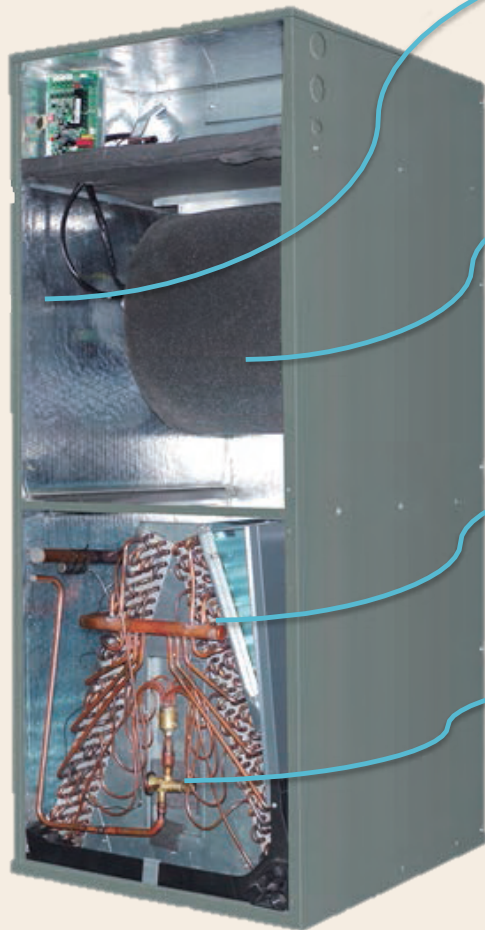
MULTI POSITION

AIR HANDLER



MODEL			AHH24-410-C	AHH36-410-C	AHH48-410-C	AHH60-410-C	
Power supply		V/Ph/Hz	208-230V/1PH/60Hz	208-230V/1PH/60Hz	208-230V/1PH/60Hz	208-230V/1PH/60Hz	
Indoor coil	Number of rows		4x2	4x2	5x2	5x2	
	Tube outside dia. / Type		7mm / Innergroove tube				
	Fin spacing / Thickness / Type	mm / mm	1.6 / 0.095 / Hydrophilic aluminium				
	Tube pitch(a) × row pitch(b)	mm	13.37 × 21	13.37 × 21	13.37 × 21	13.37 × 21	
Indoor motor	type		ECM				
	Rated HP		1/3	1/2	3/4	3/4	
	Rated RPM	r/min	1050	1050	1050	1050	
	FLA		2.8	4.1	6.0	6.0	
Indoor fan	material		Galvanized plate				
	Type		Centrifugal				
	Diameter	inch	11	11	11	11	
	Height	inch	10-5/8	10-5/8	10-5/8	10-5/8	
Indoor air flow		CFM	780	1300	1500	1750	
ESP		Pa	25	37.5	50	50	
Indoor noise level		dB(A)	63	66	67	68	
Metering device	Throttle type		TXV				
	Model number		3TR	3TR	5TR	5TR	
Electrical Data	Voltage-Phase-Hz	V-Ph-Hz	208/230V 1Ph 60Hz				
	Minimum Circuit Ampacity		3.5	5.1	7.5	7.5	
	Max. Overcurrent Protection		15	15	15	15	
	Min / Max Volts	V	187 / 253	187 / 253	187 / 253	187 / 253	
"Indoor unit"	Dimension (W×H×D)	mm	500×1162×560			560×1350×620	
		in.	19-5/8×45-3/4×22			22×53-1/8×24-3/8	
	Packing (W×H×D)	mm	580×1210×650			640×1390×710	
		in.	22-7/8×47-3/5×25-3/5			25-1/8×54-3/4×28	
	Net / Gross weight	kg	57 / 63	57 / 63	77 / 85	77 / 85	
		lbs	126 / 139	126 / 139	170 / 188	170 / 188	
Refrigerant piping Liquid side / Gas side		in.	3/8 / 3/4	3/8 / 3/4	3/8 / 7/8	3/8 / 7/8	
Shipping per STD40HQ			154	154	104	104	

AHH SERIES MULTI POSITION AIR HANDLER



AHH Features

Insulated cabinet

Galvanized steel with paint on all panels. Thermal insulator cover all inside panels to reduce heat and cooling losses and prevent condensed water accumulation.

Motor & Blower

Direct drive motors, 3-speed, provide selections of air flow to meet desired applications. 10" big fan, powerful wind. Motor has thermal protector, which keeps the motor running in safety status.

Coil

"A" shape coils, constructed with copper tubing and enhanced aluminum fins.

Expansion device

Use TXV as expansion device (18 SEER)

ComfortStar®



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- HIGH EFFICIENCY
- DUCTLESS MINI
- SPLIT SYSTEMS

NEO - CCT - AHE - CCU
SERIES | 14 SEER | 60 HZ



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NEO - FLOOR CEILING

FEATURES:

- Auto-restart
- Timer (24H)
- Turbo
- Auto Level swing
- Sleep mode (7 hour off)
- Refrigerant Leakage Detect
- LED Display
- Anti-cool wind
- Temp Compensation
- Auto Defrost
- Louver Position Memory
- Dry Mode
- 2 Ways Draining

INDOOR MODEL			NEO24SC	NEO36SC	NEO48SC	NEO60SC
Power supply		V-ph-Hz	220~230-1-60	220~230-1-60	220~230-1-60	220~230-1-60
Cooling	Capacity	Btu/h	24000	36000	48000	54000
	Input	W	2740	3740	5390	6130
	EER	W/W	2.57	2.82	2.61	2.58
Indoor fan motor	Model		YKSS-55-4-9	YKSS-115-4-1	YKSS-85-4-1L	YKTS-85-4-1
	Old Model		YSK55-4L-2	YSK115-4B	YSK85-4B	YSK85-4B
	Qty		1	1	2	2
	Input	W	165/125/95	235/200/172	174/157/144	174/157/144
	Capacitor	uF	2.5UF/450V	5UF/450V	2.5UF/450V	2.5UF/450V
	Speed(Hi/Med/Lo)	r/min	1470/1210/995	1320/1175/1050	1400/1220/1090	1400/1220/1090
Indoor air flow(Hi/Med/Lo)		m3/h	1140/850/710	1900/1700/1500	2400/2000/1700	2400/2100/1800
Indoor noise level (sound pressure) (Hi/Med/Lo)		dB(A)	53/48/42	56/53/50	57/52/50	57/53/50
Throttle type			Throttle valve	Throttle valve	Throttle valve	Throttle valve
Indoor unit	Dimension (WxDxH)	mm	990×660×203	1285×675×235	1650×675×235	1650×675×235
	Packing (WxDxH)	mm	1090×745×297	1360×755×313	1725×755×313	1725×755×313
	Net/Gross weight	kg	25/31	32/37.5	40.5/46.5	39/45
Design pressure		MPa	2.6/1.0	2.6/1.0	2.6/1.0	2.6/1.0
Drainage water pipe diameter		mm	OD 25	OD 25	OD 25	OD 25
Refrigerant piping	Liquid side/Gas side	mm(inch)	9.52 15.9(3/8"5/8")	9.52/ 19(3/8"3/4")	9.52/ 22(3/8"7/8")	9.52/ 19(3/8"3/4")
Controller			Remote control	Remote control	Remote control	Remote control
Operation temperature		°C	17~30	17~30	17~30	17~30
Room temperature	Cooling	°C	17~32	17~32	17~32	17~32

ComfortStar®

CCT - CASSETTE

FEATURES:

- Auto-restart
- Timer (24H)
- Turbo
- Auto Level swing
- Sleep mode (7 hour off)
- Refrigerant Leakage Detect
- LED Display
- Anti-cool wind
- Temp Compensation
- Auto Defrost
- Louver Position Memory
- Dry Mode
- 2 Ways Draining



INDOOR MODEL			CCT36-410	CCT60-410
Power supply		V-ph-Hz	220~230-1-60	220~230-1-60
Cooling	Capacity	Btu/h	36000	55000
	Input	W	4089	5970
	EER	W/W	2.58	2.7
Indoor fan motor	Model		YKS-125-6-6	YKS-100-6-14
	Old Model		YDK125-6B	YDK100-6N
	Qty		1	1
	Input	w	242/163/144	240/130/105
	Capacitor	uF	3.5UF/450V	5UF/450V
	Speed(hi/mi/lo)	r/min	780/600/550	860/580/490
Indoor air flow (Hi/Med/Lo)		m3/h	1565/1121/1021	1900/1300/1100
Sound level (sound pressure)		dB(A)	50.5/45.9/39.5	52/45/40
Throttle type			Throttle valve	Throttle valve
Indoor unit	Dimension (W x Dx H)(body)	mm	840x840x245	840x840x300
	Packing (W x Dx H)(body)	mm	900x900x257	900x900x307
	Dimension (W x Dx H)(panel)	mm	950x950x55	950x950x55
Packing (W x Dx H)(panel)		mm	1035x1035x90	1035x1035x90
Net/Gross weight(body)		kg	39.5/50.5	39.5/50.5
Net/Gross weight(panel)		kg	5/8	6/9
Design pressure		MPa	2.6/1.0	2.6/1.0
Drainage water pipe dia.		mm	OD 32	OD 32
Refrigerant piping	Liquid side/ Gas side	mm	9.52/ 19(3/8"/3/4")	9.52/ 19(3/8"/3/4")
Controller			Remote control	Remote control
Operation temperature		°C	17~30	17~30
Room temperature	Cooling	°C	17~32	17~32

CCU - OUTDOOR UNIT

FEATURES:

- Auto-restart
- Timer (24H)
- Turbo
- Auto Level swing
- Sleep mode (7 hour off)
- Refrigerant Leakage Detect
- Temp Compensation
- Dry Mode



MODEL			CCU36-410	CCU48-410	CCU60-410	CCU60-410-3
Power supply		V-Ph-Hz	220~1-60	220~1-60	220~1-60	220~3-60
Max. input consumption		W	5062	6937	7625	7700
Max. current		A	23	31.5	34.6	23.4
Outdoor fan motor	Model		YDK160-6B	YDK230-6F-1(B)	YDK230-6F-1(B)	YKSJ-230-6-2L
	Qty		1	1	1	1
	Input	W	300	310	310	300
	Capacitor	uF/V	---	12UF/450V	12UF/450V	---
	Speed	r/min	1100	1095	1095	1095
	Outdoor air flow	m3/h	5100	7400	7400	7400
Outdoor noise level (sound pressure)		dB(A)	67	65	64	64
Outdoor unit	Dimension(WxDxH)	mm	600x600x759	710x710x759	710x710x843	710x710x843
	Packing (WxDxH)	mm	628x628x794	738x738x794	738x738x872	738x738x872
	Net/Gross weight	kg	54.2/57.8	79/83.5	80/85	80/85
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A
	Charged volume	kg	1.65	2.1	2.2	2.2
Design pressure	MPa	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5
Refrigerant piping	Liquid side/ Gas side	mm	9.52/ 19(3/8"/3/4")	9.52/ 19(3/8"/3/4")	9.52/ 19(3/8"/3/4")	9.52/ 19(3/8"/3/4")
	Max. refrigerant pipe length	m	30	50	50	50
	Max. difference in level	m	20	30	30	30
Ambient temperature	Cooling	°C	18~43	18~43	18~43	18~43

ComfortStar®

AHE - AIR HANDLER

FEATURES:

- Auto-restart
- Timer (24H)
- Turbo
- Auto Level swing
- Sleep mode (7 hour off)
- Refrigerant Leakage Detect
- Anti-cool wind
- Temp Compensation
- Dry Mode



MODEL			AHE36-1	AHE60-1
Power supply			220~230-1-60	220~230-1-60
Cooling	Capacity	Btu/h	36000	60000
	Input	W	3820	7210
	EER	W/W	2.75	2.45
Indoor fan motor	Model		YKS-230-6-18	YKS-300-6-1
	Qty		1	1
	Input	W	420.0	660.0
	Capacitor	uF	15	12
Dimension(W*D*H)	Body_Length(W)	mm	520	500
		inch	20.47	19.69
	Body_Width(D)	mm	460	550
		inch	18.11	21.65
	Body_Height(H)	mm	774	970
		inch	30.47	38.19
Packing(W*D*H)	Packing_Length(W)	mm	835	1030
		inch	32.87	40.55
	Packing_Width(D)	mm	520	560
		inch	20.47	22.05
	Packing_Height(H)	mm	565	595
		inch	22.24	23.43
Net/Gross weight	Net weight	Kg	38.2	51
		lb	84.22	112.43
	Gross weight	Kg	41.7	55
		lb	91.93	121.25
Indoor side air flow	Indoor side air flow(Hi)	m3/h	1648	2300
		CFM(ft3/min)	969.41	1352.94
	Indoor side air flow(Lo)	m3/h	1465	/
		CFM(ft3/min)	861.76	/
Drainage water pipe dia	Drainage water pipe dia	/	OD 25mm	OD 25mm
ESP	Rated	Pa	37	50
	Range	Pa	0-140	0-180
Throttle type	Throttle type	/	Throttle valve	Throttle valve



NEO Series

FLOOR-CEILING

ComfortStar®

- NEO36SC-T
- NEO60SC-T

36,000 to 55,000 Btu/hr

STANDARD FEATURES:

- Suitable for R22 and R410a applications
- Pre-installed piston for R22 applications
- Compact design for higher loading quantity
- Quiet operation
- 3-Speed blower motor
- Remote control
- Self diagnostic feature.
- Automatic vertical and horizontal swing
- Drainage hole on both sides for easier installation
- Optional condensate pump with 30" lift
- Fresh air intake
- Easily removable air filter design



NEO Series

FLOOR-CEILING

Model name	Ceiling Floor Indoor		NEO36SC-T	NEO60SC-T
Power supply		V/Ph/Hz	208-230V~/1Ph/60Hz	208-230V~/1Ph/60Hz
Cooling	Capacity	Btu/h	36000	55000
	Capacity	W	10550	16000
	Input	W	4200	6470
	Rated current	A	17	24.5
	EER	W/W	2.511904762	2.472952087
	Energy level		C	C
Heating	Capacity	Btu/h	/	/
	Capacity	W	/	/
	Input	W	/	/
	Rated current	A	/	/
	COP	W/W	/	/
	Energy level		/	/
Indoor coil	Number of row		3	2
	Fin spacing	mm	1.5	1.5
	Fin material		Hydrophilic & Louver Fin	Hydrophilic & Louver Fin
	Tube outside diameter	mm	7	7
	Tube material		Innergroover tube type	Innergroover tube type
	Coil length x height x width	mm	940×294×38.1	1300×294×25.4
	Number of circuit		8	6
Indoor fan motor	Brand		BROAD-OCEAN	BROAD-OCEAN
	Model		Y6S443C508	Y6S443C807
	Input	W	242/193/173/147	180/150.3/140.7/125.6
	Running current	A	1.1/0.88/0.8/0.68	0.85/0.70/0.65/0.56
	Capacitor	uF	4.5	6
	Applied QTY.		4	2
	Speed (Hi/Me/Lo)	rpm	1155/1085/960	1330/1250/1175/1050
		m3/h	1450/1300/1150	2300/2100/1900/1700
		dB(A)	51/50/49	57/55/53/50
Indoor dimension	Unit (WxHxD)	mm	1275×675×235	1635×675×235
	Packing (WxHxD)	mm	1351×753×313	1711×753×313
Indoor weight	Net	kg	29	39.5
	Gross	kg	35	46.5
	Type		R410A	R410A
	Liquid side	mm	9.52	9.52
	Gas side	mm	19.05	19.05
Drainage water pipe diameter		mm	OD25	OD25
Operation temperature range		°C	16-30	16-30
Operation Control			Remote controller	Remote controller

ComfortStar®

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