

OMEGA Air Handler Inverter Split

SUBMITTAL DATA

208~230V/1/60Hz

Job: _____
 Location: _____
 Schedule No.: _____
 System Designation: _____

Engineer: _____
 Architect: _____
 Date: _____
 For: Reference Approval Review Construction

FEATURES

Outdoor

- Twin Rotary Inverter Compressor
- Compressor Overload Protection
- Super Quiet Operation
- Electronic Expansion Valve
- Copper Tubes with Aluminum Fins
- Wide Operation Temperature Range

Indoor

- Galvanized Steel Cabinet
- Durable non Corrosive Plastic Drain Pans
- Primary and Secondary Drainage Design
- Piston Expansion Device
- Different Selections of Air Flow
- Multi-Positions Installation



1. Specifications

IEUA - Air Handler Indoor Unit

Model			18K	24K	36K	48K	60K
			IEUA618K2A-GNG053	IEUA624K2A-GNG071	IEUA636K2A-GNG105	IEUA648K2A-GNG140	IEUA660K2A-GNG160
Indoor power supply		V/Ph/Hz	230V /1/60	230V /1/60	230V /1/60	230V /1/60	230V /1/60
Cooling	Capacity (IDU&ODU)	BTU	18000	24000	36000	48000	55000
	Input (IDU&ODU)	W	1600	2420	3600	5750	5900
	Rated current (IDU&ODU)	A	7.1	10.7	16.0	25.5	26.2
	EER (IDU&ODU)	BTU/W	11.3	9.9	10.0	8.3	9.3
Heating	Capacity (IDU&ODU)	BTU	19000	24000	35000	50000	55000
	Input (IDU&ODU)	W	1600	2250	3200	5100	5100
	Rated current (IDU&ODU)	A	7.1	10.0	14.2	22.6	22.6
	COP (IDU&ODU)	W/W	3.5	3.1	3.2	2.9	3.2
Input (IDU)		W	225	225	305	545	545
Rated current(IDU)		A	1.0	1.0	1.3	2.4	2.4
Max. power input (IDU&ODU)		W	1920	2904	4320	6400	6400
Max. current input (IDU&ODU)		A	10.0	16.0	23.0	34.0	34.0
Indoor fan motor	Model		YDK130-6X	YDK130-6X	YDK139-220F-6P2	YDK139-300F-6P2	YDK139-300F-6P2
	Brand		KANGBAO	KANGBAO	KANGBAO	KANGBAO	KANGBAO
	Power output	W	130	130	220	300	300
	Capacitor	μF	6	6	10	12	12
	Speed	r/min	910/780	910/780	770/730/690	920/870/820	920/870/820
	Insulation class		B	B	B	B	B
Indoor coil	Number of rows		3+3	3+3	4+4	5+5	5+5
	Tube pitch(a)xrow pitch(b)	mm	21*13.37	21*13.37	21*13.37	21*13.37	21*13.37
	Fin spacing	mm	1.5	1.5	1.5	1.5	1.5
	Fin type		Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
	Tube outside dia. and type	mm	φ7	φ7	φ7	φ7	φ7
			inner grooved copper	inner grooved copper	inner grooved copper	inner grooved copper	inner grooved copper
	Coil lengthxheightxwidth		mm	413*336*40.11	413*336*40.11	443*420*53.48	507*546*66.85
Number of circuits			6	6	8	12	12
Standard static pressure		Pa	25	25	37	50	50
Indoor air flow(High speed)		m³/h	1420	1420	2100	2850	2850
Pressure Range		Pa	0~100	0~100	0~160	0~200	0~200
Indoor noise level		dB(A)	57	57	48~57	50~58	50~58
Indoor unit	Dimension(W×H×D)	mm	460×774×520	460×774×520	510×1170×560	560×1340×610	560×1340×610
	Packing(W×H×D)	mm	520*834*565	520*834*565	580*1210*650	640*1390*710	640*1390*710
Gross/Net weight		kg	39/37	39/37	65/60	84/78	84/78
Max pressure		MPa	4.0	4.0	4.0	4.0	4.0
Refrigerant type			R410A	R410A	R410A	R410A	R410A
Refrigerant piping	Liquid side/Gas side	mm	φ12.7/φ15.88	φ12.7/φ15.88	φ9.52/φ19.05	φ9.52/φ22	φ9.52/φ22
Drainage pipe		mm	DN25	DN25	DN25	DN25	DN25
Standard controller			24V Thermostat				
Operation temp		°C	16~32	16~32	16~32	16~32	16~32

1. Specifications

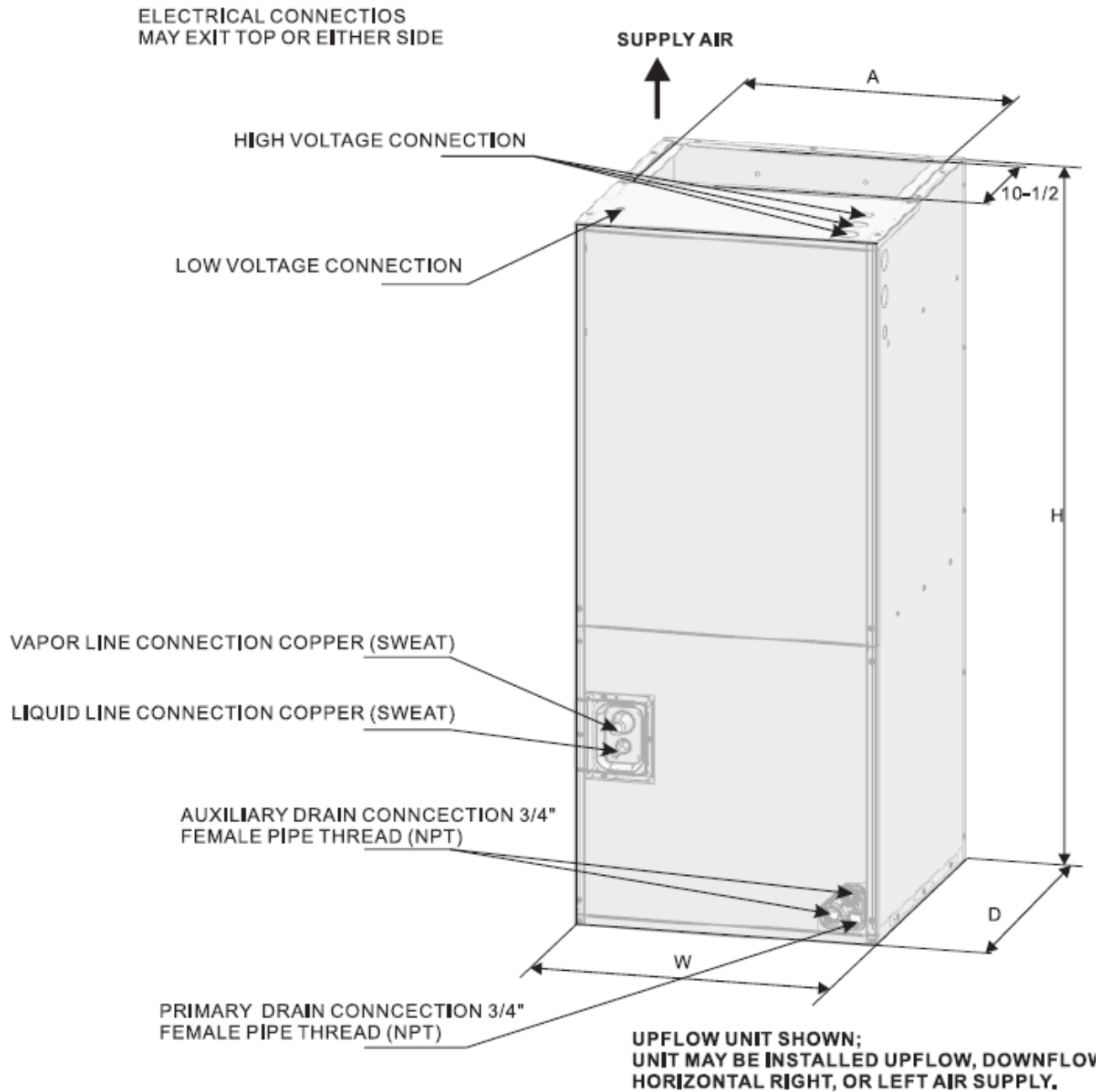
ICHE - Outdoor Unit

Model		18K	24K	36K	48K	60K	
		ICHE618K2A-GMG053	ICHE624K2A-GMG071	ICHE636K2A-GMG105	ICHE648K2A-GMG140	ICHE660K2A-GMG160	
Outdoor power supply		V/Ph/Hz	230V /1/60	230V /1/60	230V /1/60	230V /1/60	230V /1/60
Compressor	Model		SNB140FULMC	SNB200FGMMC	ATM240D57UMT	MNB40FEQMC	MNB40FEQMC
	Type		DC/Twin-rotary	DC/Twin-rotary	DC/Twin-rotary	DC/Twin-rotary	DC/Twin-rotary
	Brand		Mitsubishi	Mitsubishi	GMCC	Mitsubishi	Mitsubishi
	Frequency range	rps	10-130	10-120	10-120	10-120	10-120
	Capacity	W	4360	6175	7235	12900	12900
	Input	W	1300	1960	1945	3960	3960
	Rated Current (RLA)	A	4.4	6.7	8.5	14.8	14.8
	Refrigerant oil	ml	350	400	670	1100	1100
Outdoor fan motor	Model		YDK-75-6P2	YDK-75-6P2	YDK-105-6P2-1	YDK-230-6P2-2	YDK-230-6P2-2
	Brand		lvzhi	lvzhi	SINJUN	KB	KB
	Power output	W	75	75	105	230	230
	Power input	W	152	152	197	370	370
	Speed	r/min	890/620	890/620	880/680	880/600	880/600
	Insulation class		B	B	B	B	B
Outdoor coil	Number of rows		2	3	3	2	3
	Tube pitch(a)×rowpitch(b)	mm	21*13.37	21*13.37	21*13.37	21*19.4	21*19.4
	Fin spacing	mm	1.5	1.4	1.5	1.55	1.55
	Fin type		Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
	Tube outside dia. and type	mm	7	7	7	7	7
			inner grooved copper	inner grooved copper	inner grooved copper	inner grooved copper	inner grooved copper
	Coil length×width×height	mm	790*651*26.74	784*651*40.11	1000*756*40.11	1145*798*38.8	1145*798*58.2
	Number of circuits		4	7	6	11	11
Outdoor air flow(High speed)		m ³ /h	3300	3300	4200	5500	6000
Outdoor noise level(High speed)		dB(A)	54	54	56	57	57
Outdoor unit	Dimension(W×D×H)	mm	935*383*702	935*383*702	1032*445*810	1100*528*870	1100*528*870
	Packing(W×D×H)	mm	975*495*875	975*495*875	1075*495*875	1140*540*965	1140*540*965
	Gross/Net weight	kg	45.5/42	49/45.5	65/60	85/75	90/80
Refrigerant type/quantity		g	1800	2000	3000	3300	3600
Throttle part			Cooling: EXV Heating:EXV	Cooling: EXV Heating:EXV	Cooling: EXV Heating:EXV+ PISTON	Cooling: EXV Heating:EXV+ PISTON	Cooling: EXV Heating:EXV+ PISTON
Design pressure		MPa	4.0	4.0	4.0	4.0	4.0
Max. pressure		MPa	4.5	4.5	4.5	4.5	4.5
Refrigerant piping	Liquid side/Gas side	mm	φ9.52/φ15.88	φ9.52/φ15.88	φ9.52/φ19.05	φ9.52/φ19.05	φ9.52/φ19.05
	Max. pipe length	m	30	30	30	30	30
	Max. high drop	m	10	10	10	10	10
Ambient temp (ODU)	Cooling	°C	16~46	16~46	16~46	16~46	16~46
	Heating	°C	-7~30	-7~30	-7~30	-7~30	-7~30

2. Dimensional Drawings

IEUA - Air Handler Indoor Unit

Unit:mm



DIMENSIONAL DATA

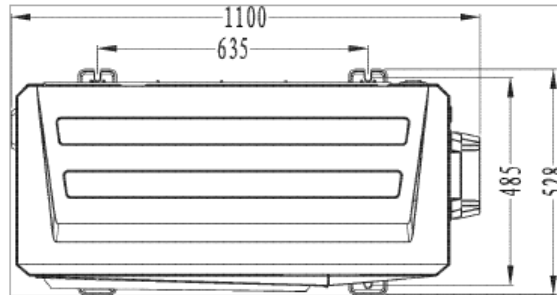
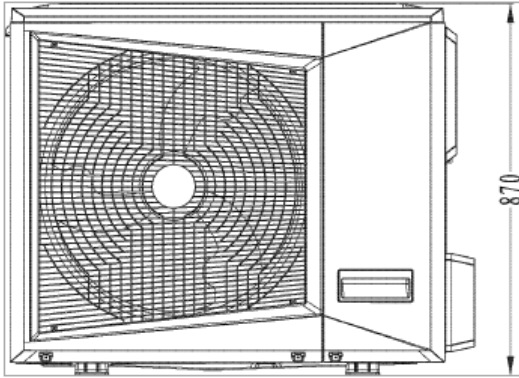
MODEL SIZE	Dimensions inch[mm]				
	UNIT HEIGHT "H" IN. [mm]	UNIT WIDTH "W" IN. [mm]	UNIT LENGTH "D" IN. [mm]	SUPPLY DUCT "A" IN. [mm]	LIQUID LINE/ VAPOR LINE IN
18K	30-1/2"[774]	18-1/10"[460]	20-1/2"[520]	16-1/3"[414]	3/8" / 5/8"
24K	30-1/2"[774]	18-1/10"[460]	20-1/2"[520]	16-1/3"[414]	3/8" / 5/8"
36K	45-3/4"[1162]	19-5/8"[500]	22"[560]	17-7/8"[454]	3/8" / 3/4"
48K	45-3/4"[1162]	19-5/8"[500]	22"[560]	17-7/8"[454]	3/8" / 3/4"
60K	53-1/8"[1350]	22"[560]	24-1/2"[623]	19-1/2"[496]	3/8" / 7/8"

2. Dimensional Drawings

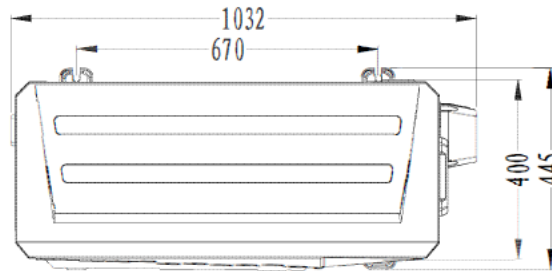
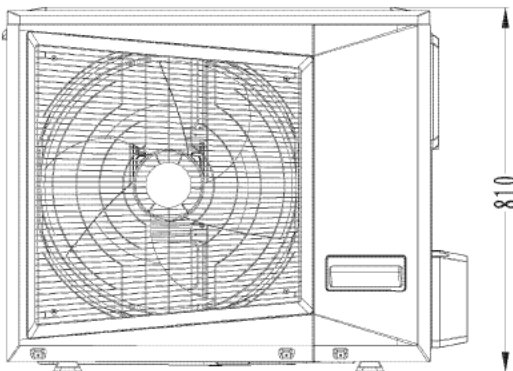
ICHE - Outdoor Unit

Unit:mm

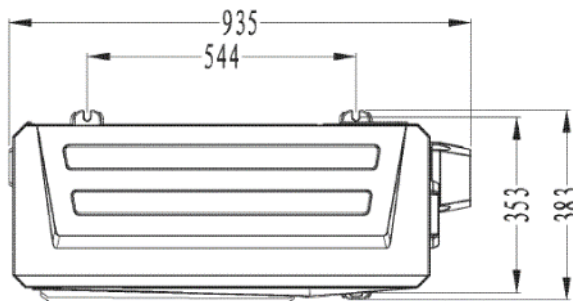
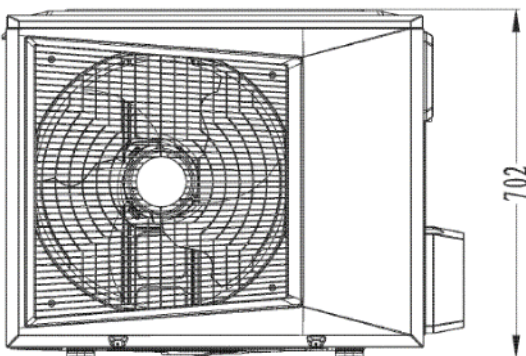
Applicable for models of ICHE648(60)K2A-GMG140(160)



Applicable for models of ICHE636K2A-GMG105



Applicable for models of ICHE624(18)K2A-GMG053(71)



3. Electrical Characteristics

Electrical Data - ICHE & IEUA

Air Handler - IEUA

Model	Power Supply ¹					
	Hz	Volts	Min.	Max.	FLA	MOCP
			volts	volts		
IEUA618K2A-GNG053	60Hz	208-230	187	253	1.0	5
IEUA624K2A-GNG071	60Hz	208-230	187	253	1.0	5
IEUA636K2A-GNG105	60Hz	208-230	187	253	1.3	5
IEUA648K2A-GNG140	60Hz	208-230	187	253	2.4	5
IEUA660K2A-GNG160	60Hz	208-230	187	253	2.4	5

Outdoor Unit - ICHE

Model	Power Supply ¹						Compressor
	Hz	Volts	Min.	Max.	MCA	MOCP	RLA
			volts	volts			
ICHE618K2A-GMG053	60Hz	208-230	187	253	6.4	10	4.4
ICHE624K2A-GMG071	60Hz	208-230	187	253	9.6	15	6.7
ICHE636K2A-GMG105	60Hz	208-230	187	253	12.2	20	8.5
ICHE648K2A-GMG140	60Hz	208-230	187	253	20.7	35	14.8
ICHE660K2A-GMG160	60Hz	208-230	187	253	20.7	35	14.8

Abbreviations:

MCA: Minimum Circuit Amps; MOCP: Maximum Fuse Amps; RLA: Rated Load Amps; FLA: Full Load Amps