

OMEGA Cassette Inverter Split

SUBMITTAL DATA

220-240V/1/50Hz

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

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

FEATURES

Outdoor

- DC Inverter Rotary Compressor
- Phase Loss & Overcurrent Protection
- Corrosion-Resistant Cabinet
- Super Quiet Operation
- High-Efficiency Coils
- Low-Voltage Startup

Indoor

- Turbo Cooling Function
- Low Temperature Cooling
- Programmable 24 hours On/Off Timer
- Up to 16 SEER in Cooling Mode
- Super Quiet
- Drain Pipe Connection



1. Specifications

ICHD Outdoor Unit



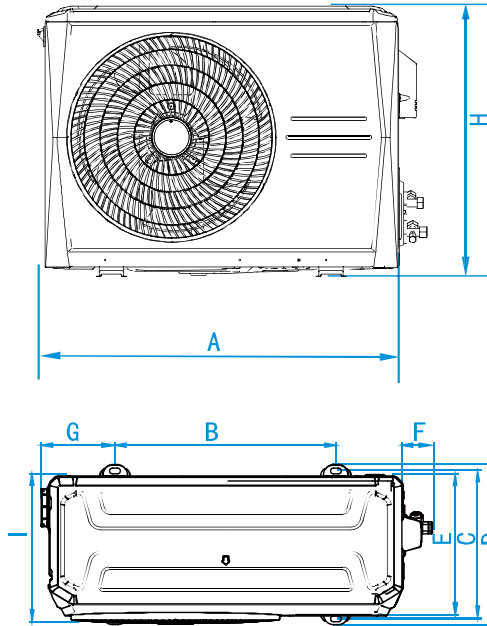
OUTDOOR UNIT

MODEL NO.	ICHD	009J 0A-DMG026	012J 0A-DMG035	018J 0A-DMG053	024J 0A-DMG071	031J 0A-DMG090	036J 0A-DMG105	042J 0A-DMG120	048J 0A-DMG140	060J 0A-DMG160
Compressor Type		DC Inverter Rotary								
Outdoor Fan	No of Fans	1	1	1	1	1	1	1	1	1
	Noise Level (dbA)	50	50	54	55	55	59	59	59	60
Coil Type:		Grooved Copper Tubes - Aluminum Blue Slit Fin								
Compressor	Rated Amps (RLA)	5.60	5.80	7.85	8.85	11.8	14.5	23.0	27.5	27.1
	Power Input Nom. (W)	649	1159	1602	2115	3060	3109	4559	5809	6600
Electrical	Voltage-Phase-Frequency	220~240V / 1Ph / N/A 3D								
	Range (min-max)	198 ~ 264								
	Min. Circuit Amps (MCA)	8.80	8.80	12.9	17.5	23.0	27.0	27.0	32.0	33.0
	Max Fuse Amps (MOCP)	15	15	20	25	30	30	30	40	40
Refrigerant R410 (oz./kgs.)		28.2 / 0.80	28.2 / 0.80	51.2 / 1.45	56.5 / 1.60	70.6 / 2.00	105.9 / 3.00	105.9 / 3.00	112.9 / 3.20	134.1 / 3.80
Refrigerant Connections inches (mm)	Type	Flare								
	Liquid	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Suction	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)
MAX Pipe Distance Ft.(m)	Height	32.8 (10)	32.8 (10)	49.2 (15)	49.2 (15)	65.6 (20)	65.6 (20)	65.6 (20)	82.0 (25)	82.0 (25)
	Length	49.2 (15)	49.2 (15)	82.0 (25)	82.0 (25)	98.4 (30)	98.4 (30)	98.4 (30)	164.0 (50)	164.0 (50)
Dimensions inches (mm)	Height	21 1/8 (555)	21 1/8 (555)	21 1/8 (555)	28 (712)	28 (712)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	34 1/8 (865)
	Width	28 3/8 (722)	28 3/8 (722)	31 1/4 (795)	35 7/8 (910)	35 7/8 (910)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	41 (1040)
	Depth	10 1/4 (260)	10 1/4 (260)	11 1/4 (287)	13 5/8 (345)	13 5/8 (345)	14 1/8 (360)	14 1/8 (360)	14 1/8 (360)	16 1/8 (410)
Net Weight	Lbs (kgs)	55.1 (25.0)	56.2 (25.5)	73.9 (33.5)	103.6 (47.0)	112.4 (51.0)	149.9 (68.0)	149.9 (68.0)	173.1 (78.5)	200.6 (91.0)

2. Dimensional Drawings

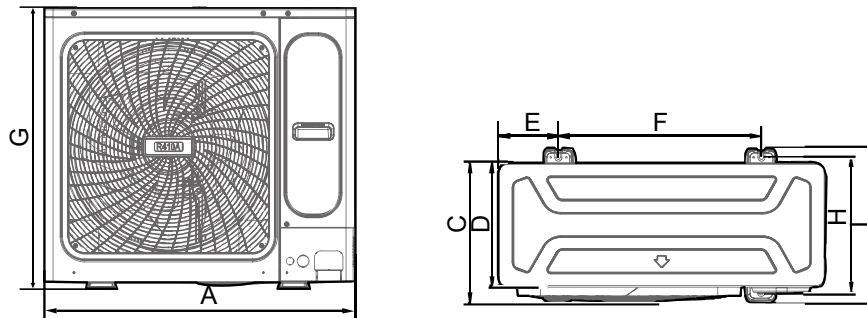
Unit:mm

ICHD009J0A-DMG026 / ICHD012J0A-DMG035 / ICHD018J0A-DMG053 / ICHD024J0A-DMG071



Model	A	B	C	D	E	F	G	H	I
9	722	453	302	327	260	50	135	555	300
12/18	795	514	340	365	287	50	125	555	330
24	910	663	403	427	345	55	120	712	390

ICHD031J0A-DMG090 / ICHD036J0A-DMG105 / ICHD042J0A-DMG120 / ICHD048J0A-DMG140 / ICHD060J0A-DMG160

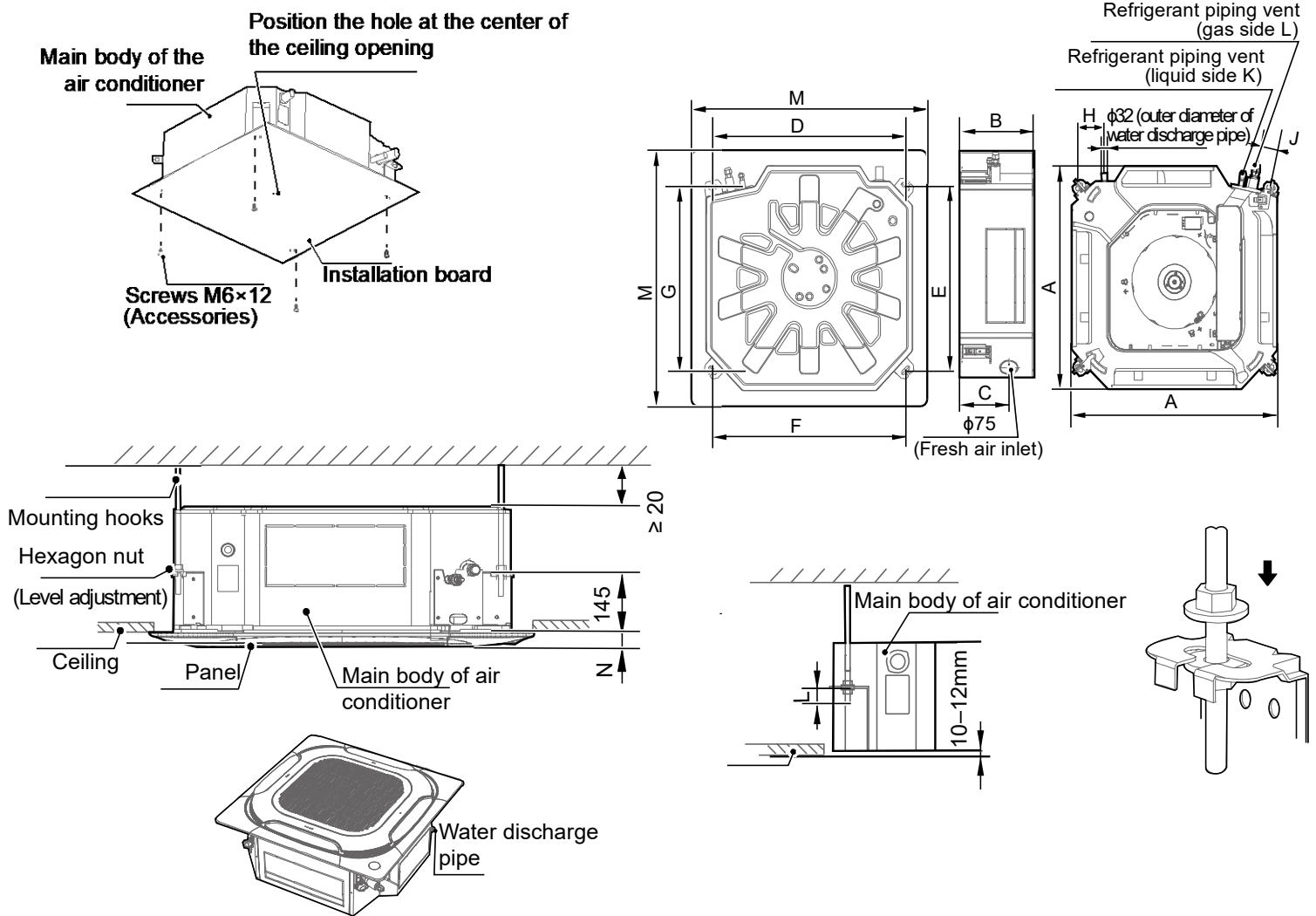


Model	A	C	D	E	F	G	H	I
31	910	390	345	120	663	712	403	427
36/42/48	950	406	360	175	590	840	390	440
60	1040	452	410	191	656	865	463	523

2. Dimensional Drawings

2.1 Indoor Unit

Unit:mm



Model	IECS018J3A-DWG-053	IECS024J3A-DWG-071	IECS031J3A-DWG-090	IECS036(42,48)J3A-DWG-105(120,14)
A	840	840	840	840
B	230	230	230	300
C	126	126	126	197
D	780	780	780	780
E	680	680	680	680
F	780	780	780	780
G	680	680	680	680
H	105	105	105	105
J	70	70	70	70
K	Φ6.4	Φ6.4	Φ9.5	Φ9.5
L	Φ12.7	Φ15.9	Φ15.9	Φ15.9
M	950	950	950	950
N	46	46	46	46

3. Electric Characteristics

Model name	Power supply						Indoor fan motors	
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (kW)	FLA
IECS018J3A	50	220-240	198	264	0.475	25	0.026	0.38
IECS024J3A	50	220-240	198	264	0.475	32	0.03	0.38
IECS031J3A	50	220-240	198	264	0.475	6	0.03	0.38
IECS036J3A	50	220-240	198	264	0.975	6	0.05	0.78
IECS042J3A	50	220-240	198	264	0.9875	6	0.065	0.79
IECS048J3A	50	220-240	198	264	1.1875	6	0.082	0.95

Abbreviations:

MCA: Minimum Circuit Amps MFA: Maximum Fuse Amps FLA: Full Load Amps

3. Electric Characteristics

Model	Power Supply ¹							Compressor		OFM		
	Capacity	Hz	Volts	Min.volts	Max.volts	MCA ²	TOCA ³	MFA ⁴	MSC ⁵	RLA ⁶	kW	FLA
ICH009-DMG026		50	220-240	198	264	8.8	10	16	/	5.6	0.02	0.6
ICH012-DMG035		50	220-240	198	264	8.8	10	16	/	5.8	0.02	0.6
ICH018-DMG053		50	220-240	198	264	12.9	14.5	20	/	7.85	0.05	0.71
ICH024-DMG071		50	220-240	198	264	17.5	20	25	/	8.85	0.08	1.0
ICH031-DMG090		50	220-240	198	264	23	25	32	/	11.8	0.08	1.0
ICH036-DMG105		50	220-240	198	264	27	28.5	32	/	14.5	0.17	1.53
ICH042-DMG120		50	220-240	198	264	27	28.5	32	/	23	0.17	1.53
ICH048-DMG140		50	220-240	198	264	32	35.2	40	/	27.5	0.17	1.53
ICH060-DMG160		50	220-240	198	264	33	35	40	/	27.1	0.17	1.53

Abbreviations:

MCA: Minimum Circuit Amps; TOCA: Total Over-current Amps; MFA: Maximum Fuse Amps; MSC: Maximum Starting Current (A); RLA: Rated Load Amps; FLA: Full Load Amps

Notes:

- Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits. Maximum allowable voltage variation between phases is 2%.
- Select wire size based on the value of MCA.
TOCA indicates the total overcurrent amps value of each OC set.
MFA is used to select overcurrent circuit breakers and residual-current circuit breakers.
MSC indicates the maximum current on compressor start-up in amps.
RLA is based on the following conditions: indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB.