OMEGA TECHNOLOGY

OTEC AIR CONDITIONING
The Art of Comfort

OMEGA Floor Ceiling Inverter Split

SUBMITTAL DATA

220-240V/1/50Hz

Job:	**Engineer:**
Location:	**Architect:**
Schedule No.:	**Date:**
System Designation:	**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
- Anti-Mildew Dry Technology

1. Specifications

ICHD Mini Split
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)

1. Specifications

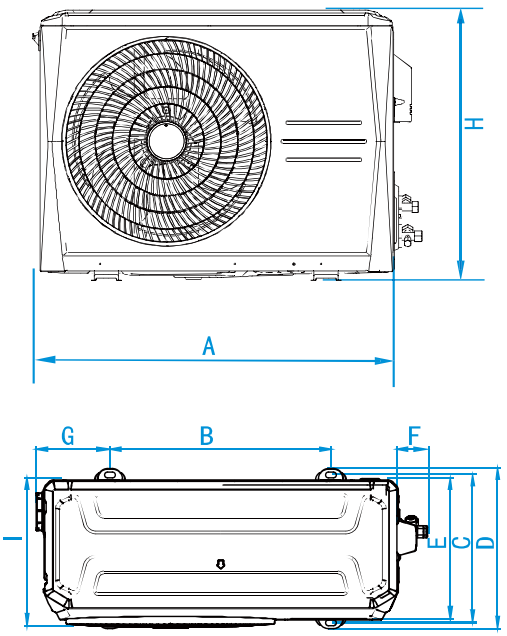
IEFC - Floor Ceiling
Indoor Unit

INDOOR UNIT						
MODEL NO.	IEFC	018J 3A-DWG053	024J 3A-DWG071	036J 3A-DWG105	048J 3A-DWG140	060J 3A-DWG160
Cooling Capacity BTU/h (kW)	Nominal	18,000 (5.3)	24,000 (7.1)	36,000 (10.5)	48,000 (14.0)	60,000 (16.0)
	Minimum	3,410 (1.0)	8,190 (2.4)	10,235 (3.0)	14,330 (4.2)	14,330 (4.2)
	Maximum	20,470 (6.0)	27,980 (8.2)	39,240 (11.5)	48,450 (14.2)	54,590 (16.0)
Efficiency SEER	BTU/h / W (W/W)	16.0 (4.69)				
Refrigerant Control		Electronic Expansion Valve @ Outdoor Unit Centrifugal				
Speed QTY Fan	Type					
		1	1	2	2	2
		3	3	3	3	3
	Air Flow CFM (m³/hr) - Hi Noise	470 (800)	590 (1000)	1060 (1800)	1060 (1800)	1175 (2000)
	Level (dbA) Lo/Hi	40 / 47	41 / 48	44 / 50	44 / 50	45 / 52
Coil Type:		Grooved Copper Tubes - Aluminum Blue Slit Fin Cleanable				
Air Filter		Cartridge Type				
Electrical	Voltage-Phase-Frequency Range	220~240V / 1Ph / 50Hz				
	(min-max)	198 ~ 264				
	FLA	0.57	0.59	0.45 * 2	0.45 * 2	0.73 * 2
	Power Input (W)	147	185	241	241	334
Controls		Wired Remote Control See				
Refrigerant Connections inches (mm) Drain		Outdoor Unit Data 1 (25)				
Connections inches (mm)		9 5/8 (244)				
Body Dimensions inches (mm)	Height	8 (203)	8 (203)	65 3/4 (1670)	9 5/8 (244)	11 1/4 (285)
	Width	39 (990)	50 3/8 (1280)	26 (660)	65 7/8 (1670)	65 3/4 (1670)
	Depth	26 (660)	26 (660)	109.1 (49.5)	26 (660)	26 (660)
Body Net Weight Lbs (kgs)		60.6 (27.5)	75.2 (34.1)		109.1 (49.5)	123.5 (56.0)

2. Dimensional Drawings

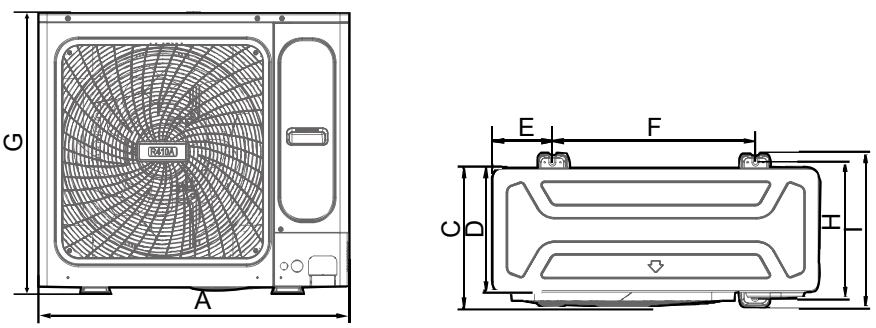
Unit:mm

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



Model	A	B	C	D	E	F	G	H	I
26	722	453	302	327	260	50	135	555	300
35/53	795	514	340	365	287	50	125	555	330
71	910	663	403	427	345	55	120	712	390

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



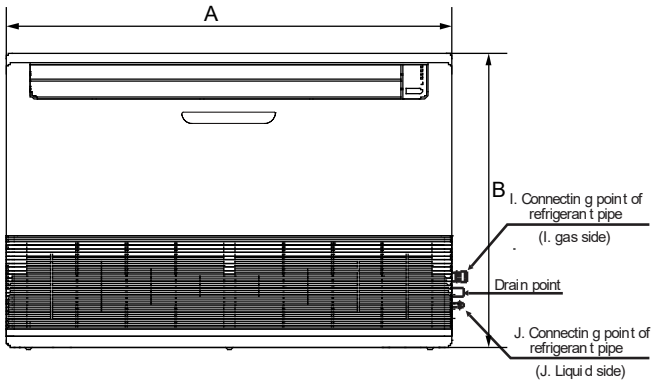
Model	A	C	D	E	F	G	H	I
90	910	390	345	120	663	712	403	427
105/120/140	950	406	360	175	590	840	390	440
160	1040	452	410	191	656	865	463	523

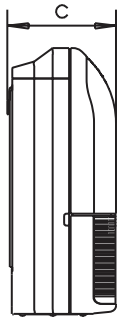
2. Dimensional Drawings

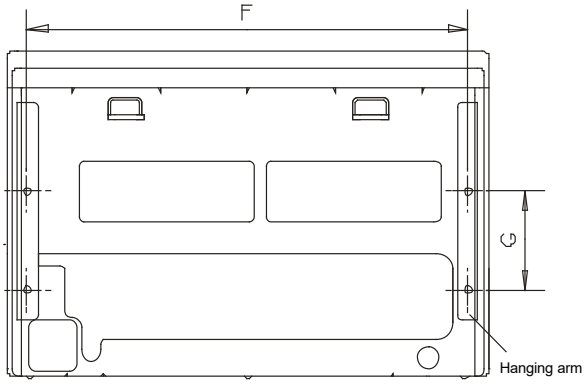
2.1 Indoor Unit

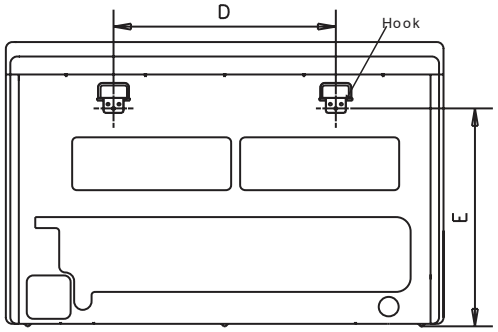
Unit:mm

Ceiling and Floor









Model	A	B	C	D	E	F	G
IEFC018J3A-DWG053	990	660	203	505	506	907	200
IEFC024J3A-DWG071	1280	660	203	795	506	1195	200
IEFC036(48)J3A-DWG105(140)	1670	680	244	1070	450	1542	200
IEFC060J3A-DWG160	1670	680	285	1070	380	1613	200

2. Electric Characteristics

Model name	Power supply						Indoor fan motors	
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (kW)	FLA
IEFC018J3A	50	220-240	198	264	0.7125	25	0.055	0.57
IEFC024J3A	50	220-240	198	264	0.7375	32	0.061	0.59
IEFC036J3A	50	220-240	198	264	0.5625*2	15	0.059*2	0.45*2
IEFC048J3A	50	220-240	198	264	0.5625*2	15	0.059*2	0.45*2
IEFC060J3A	50	220-240	198	264	0.9125*2	15	0.09*2	0.73*2

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
ICHD009-DMG026	50	220-240	198	264	8.8	10	16	/	5.6	0.02	0.6
ICHD012-DMG035	50	220-240	198	264	8.8	10	16	/	5.8	0.02	0.6
ICHD018-DMG053	50	220-240	198	264	12.9	14.5	20	/	7.85	0.05	0.71
ICHD024-DMG071	50	220-240	198	264	17.5	20	25	/	8.85	0.08	1.0
ICHD031-DMG090	50	220-240	198	264	23	25	32	/	11.8	0.08	1.0
ICHD036-DMG105	50	220-240	198	264	27	28.5	32	/	14.5	0.17	1.53
ICHD042-DMG120	50	220-240	198	264	27	28.5	32	/	23	0.17	1.53
ICHD048-DMG140	50	220-240	198	264	32	35.2	40	/	27.5	0.17	1.53
ICHD060-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:

1. 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%.
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.

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