OMEGA 4 Way Cassette 3D Inverter Split

SUBMITTAL DATA

208-240V/1/50-60Hz

- Electronic Expansion Valve
- PFC & IPM Module Protection
- Phase Loss & Overcurrent Protector
- DC Inverter Twin-Rotary Compressor
- High Efficiency Coils with Hydrophilic Fins
- High and Low Pressure Protection

Job: Japdeva Puerto Limon	**Engineer:**
Location: Costa Rica	**Architect:**
Schedule No.: 10833	**Location:**
System Designation: 3D Inveter Split	**Date:** 09/07/20
	For ☐ Reference ☐ Approval ☐ Review ☐ Construction

1. Specifications

Models						
	IDU		TECS036J0A-RWG100	TECS042J0A-RWG125	TECS048J0A-RWG140	TECS060J0A-RWG160
	ODU		TCHE036J0A-RLG100	TCHE042J0A-RLG125	TCHE048J0A-RLG140	TCHE060J0A-RLG160
Rated Capacity	Cooling	kW	10.10	12.02	14.00	15.00
	Heating	kW	11.00	14.00	15.00	17.00
Input Power	Cooling	kW	3.40	4.50	5.40	5.40
	Heating	kW	3.00	4.20	4.40	4.70
EER		W/W	2.97	2.67	2.59	2.78
COP		W/W	3.67	3.33	3.41	3.62
IDU			TECS036J0A-RWG100	TECS042J0A-RWG125	TECS048J0A-RWG140	TECS060J0A-RWG160
Power Supply			220-240V ~50/60Hz			
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin			
Sound Pressure Level Noise		dB(A)	50	50	51	54
Front Panel	Dimensions	mm	950×950	950×950	950×950	950×950
	Weight	kg	6	6	6	6
Fan Motor	Type	—	Centrifugal Fan			
	Drive	—	direct	direct	direct	direct
	Motor Output	W	100	100	110	170
	Air Volume	m^3/h	1500	1500	1800	2000
Filter		—	PP-MD10			
Connection Pipe	Liquid Pipe	in.	3/8	3/8	3/8	3/8
	Gas Pipe	in.	5/8	5/8	5/8	5/8
	Water Pipe	mm	Φ25×1.50	Φ25×1.50	Φ25×1.50	Φ25×1.50
Dimensions (H×W×D)	Outline	mm	240×840×840	240×840×840	290×840×840	290×840×840
	Package	mm	325×963×963	325×963×963	379×963×963	379×963×963
Weight	Net Weight	kg	31	31	33	36
	Gross Weight	kg	38	38	41	44
ODU			TCHE036J0A-RLG100	TCHE042J0A-RLG125	TCHE048J0A-RLG140	TCHE060J0A-RLG160
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin			
Power Supply			220-240V ~50/60Hz			
Compressor	Model		QXFS-D25zX090H	QXFS-D32zX090D	QXFS-F428zX450E	QXFS-F428zX450E
	Type		Inverter Rotary	Inverter Rotary	Inverter Rotary	Inverter Rotary
	Output	W	2420	3750	4300	4300
Fan Motor	Type	—	Axial fan			
	Air Volume	m^3/h	4000	5900	5900	5900
	Output Power	W	—	—	—	—
Refrigerant	Type		R410A			
	Weight	kg	2.45	3.40	3.70	3.80
	Throttling Method		Electronic Expansion Valve			
Connection Pipe	Liquid Pipe	in.	3/8	3/8	3/8	3/8
	Gas Pipe	in.	5/8	5/8	5/8	5/8
Refrigerant Pipe	Standard Length	m	5.00	5.00	7.50	7.50
	Max. Length	m	50	65	75	75
	Max. Height	m	25	30	30	30

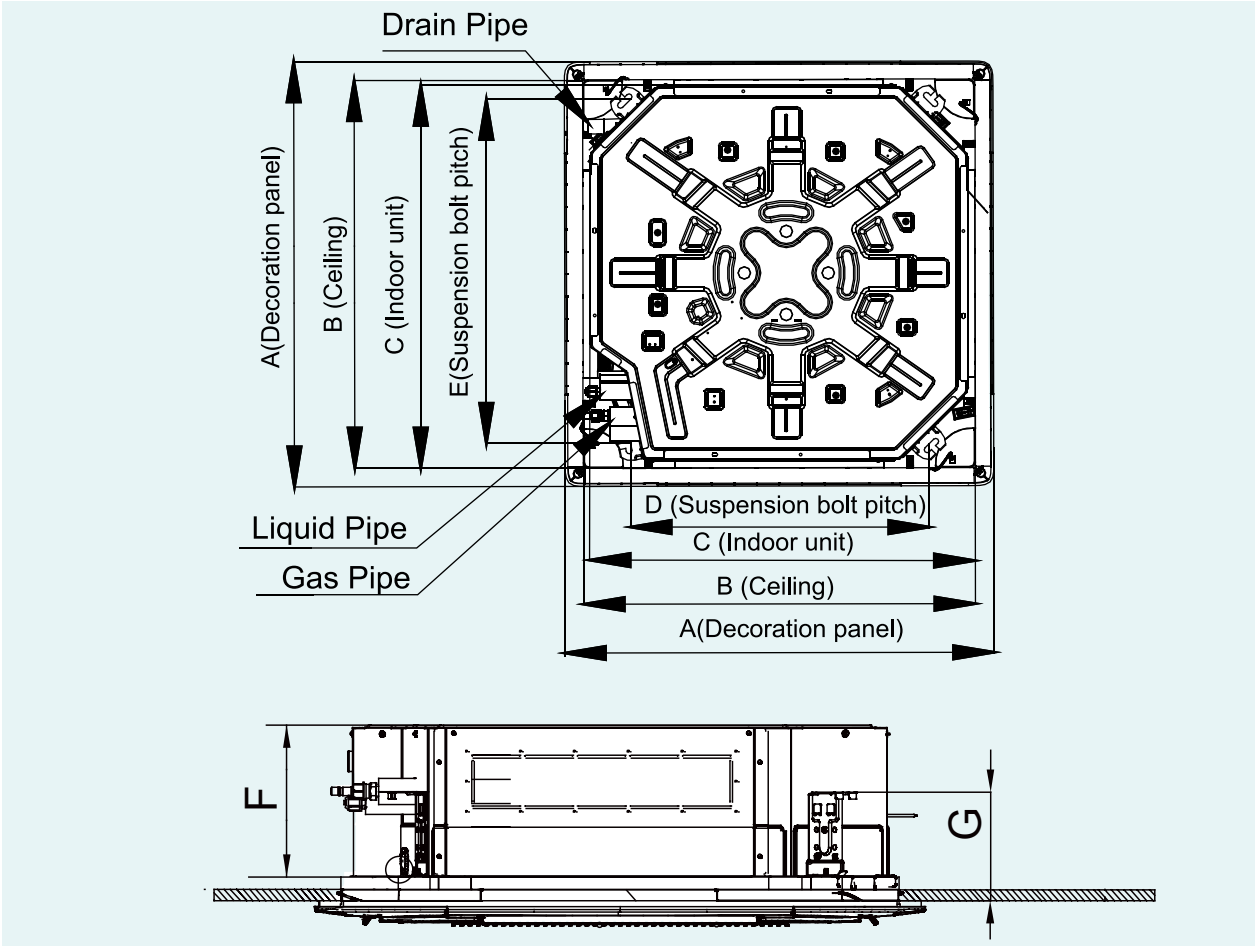
1. Specifications

Models	IDU		TECS036J0A-RWG100	TECS042J0A-RWG125	TECS048J0A-RWG140	TECS060J0A-RWG160
	ODU		TCHE036J0A-RLG100	TCHE042J0A-RLG125	TCHE048J0A-RLG140	TCHE060J0A-RLG160
Dimensions (H×W×D)	Outline	mm	790×920×370	820×940×460	820×940×460	820×940×460
	Package	mm	855×1083×488	973×1083×573	973×1083×573	973×1083×573
Weight	Net Weight	kg	61	84	92	96
	Gross Weight	kg	66	96	104	108
Safety Device			High pressure switch Low pressure switch Overload protector Discharge high temperature sensor External overload protector Fusible plugs Fuse	High pressure switch Low pressure switch Overload protector Discharge high temperature sensor Fusible plugs Fuse	High pressure switch Low pressure switch Overload protector Discharge high temperature sensor Fusible plugs Fuse	High pressure switch Low pressure switch Overload protector Discharge high temperature sensor Fusible plugs Fuse

2-DIMENSIONAL DRAWINGS - (MM)

Cassette Type

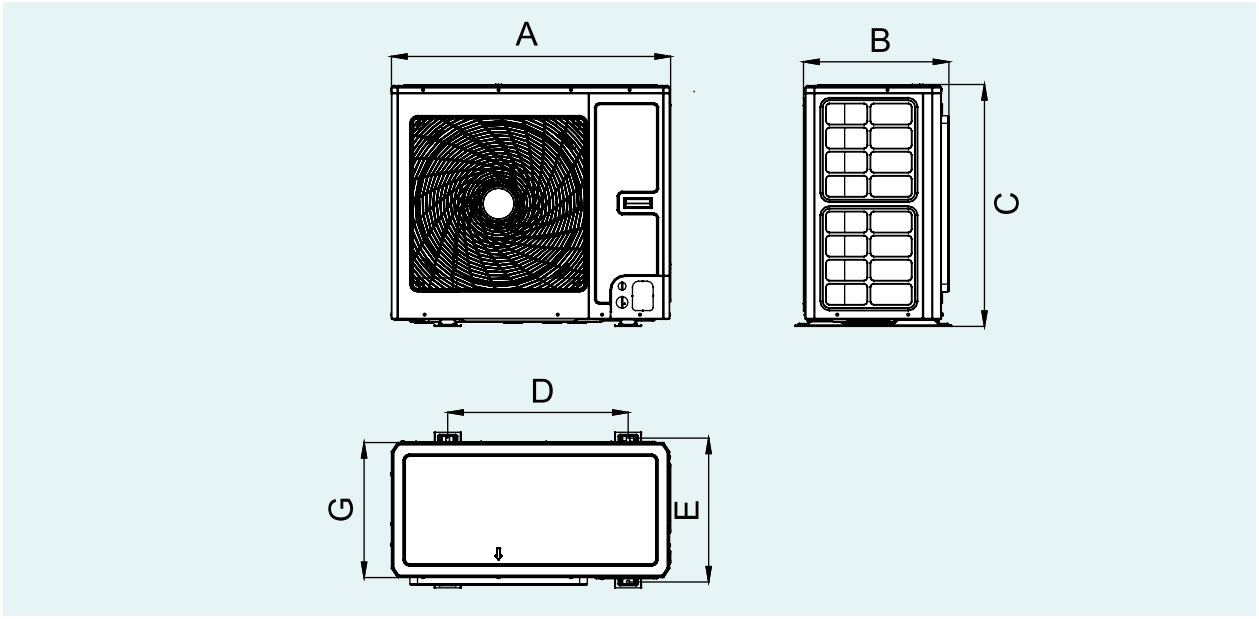
Dimensions



Unit：mm

Dimensions / Model	A	B	C	D	E	F	G
TECM012J0A-RWG035	620	580	570	520	560	265	170
TECM018J0A-RWG053	620	580	570	520	560	265	170
TECS024J0A-RWG071	950	870	840	660	790	200	165
TECS036J0A-RWG100	950	870	840	660	790	240	165
TECS042J0A-RWG125	950	870	840	660	790	240	165
TECS048J0A-RWG140	950	870	840	660	790	290	165
TECS060J0A-RWG160	950	870	840	660	790	290	165

2-DIMENSIONAL DRAWINGS - (MM)



Unit: mm

Dimensions / Model	A	B	C	D	E	F	G
TCHE012J0A-RLG035	818	378	602	550	348	887	302
TCHE018J0A-RLG053	818	378	602	550	348	887	302
TCHE024J0A-RLG071	892	396	698	560	364	952	340
TCHE036J0A-RLG100	920	427	790	610	395	1002	370
TCHE042J0A-RLG125	940	530	820	610	486	/	460
TCHE048J0A-RLG140	940	530	820	610	486	/	460
TCHE060J0A-RLG160	940	530	820	610	486	/	460
TCHE042J7A-RLG125	940	530	820	610	486	/	460
TCHE048J7A-RLG140	940	530	820	610	486	/	460
TCHE060J0A-RLG160	940	530	820	610	486	/	460

3-ELECTRICAL Parameters - (MM)

Electrical Parameters

Model	Power supply	Circuit breaker capacity	Min. sectional area of power cord
	V/Ph/Hz	A	mm^2
TCHE012J0A-RLG035	220-240V ~50/60Hz	16	1.5
TCHE018J0A-RLG053		16	1.5
TCHE024J0A-RLG071		20	2.5
TCHE036J0A-RLG100		25	2.5
TCHE042J0A-RLG125		32	4.0
TCHE048J0A-RLG140		32	4.0
TCHE060J0A-RLG160		40	6.0

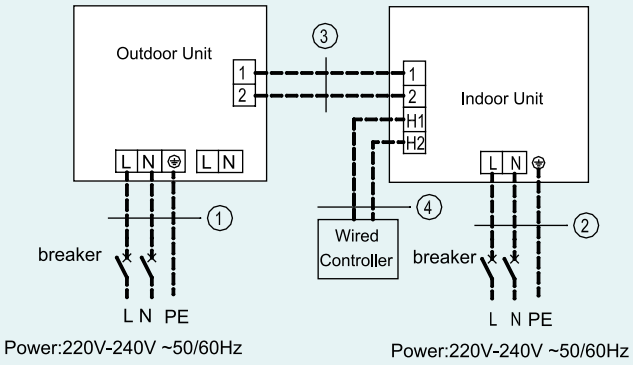
Model	Power supply	Fuse capacity	Circuit breaker capacity	Min. sectional area of power cord
	V/Ph/Hz	A	A	mm^2
Indoor unit	220-240V ~50/60Hz	3.15	6	1.0

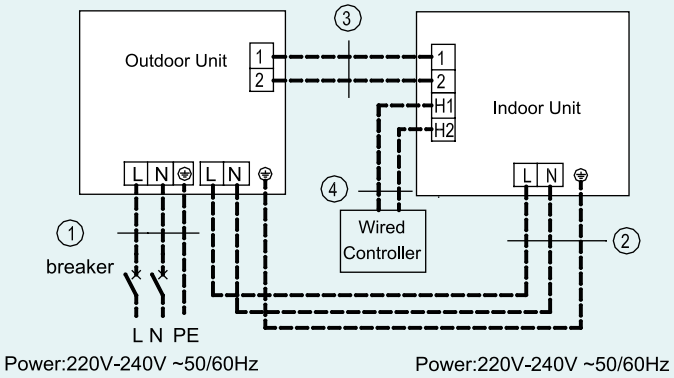
Notes:

1. Fuse is located on the main board.
2. Install a circuit breaker at every power terminal near the units (indoor and outdoor units) with at least 3mm contact gap. The units must be able to be plugged or unplugged.
3. Circuit breaker and power cord specifications listed in the above table are determined based on the maximum power input of the units.
4. Supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprence sheathed flexible cord.
5. Specifications of circuit breaker are based on a working condition where the working temperature is 40°C. If working condition changes, please adjust the specifications according to national standards.
6. Adopt 2pc of 0.75mm^2 power cords to be the communication cords between indoor and outdoor units. The maximum length is 100m. Please select a proper length according to local conditions. Communication cords must not be twisted together. To be in compliance EN 55014, it is necessary to use 8 meters long wire.
7. Adopt 2pc of 0.75mm^2 power cords to be the communication cords between wired control and indoor unit. The maximum length is 30m. Please select a proper length according to local conditions. Communication cords must not be twisted together. To be in compliance EN 55014, it is necessary to use 7.5 meters long wire.
8. The wire gauge of communication cord should not be less than 0.75mm^2. It's recommended to use 0.75mm^2 power cords as the communication cords.

3-ELECTRICAL Parameters - (MM)

Electrical Parameters





TEHP060J0A-RCG160+TCHE060J0A-RLG160
① Power Cord 3×6.0mm²
② Power Cord 3×1.0mm²
③ Communication Cords 2×0.75mm²
④ Communication Cords 2×0.75mm²

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