## **DUCTLESS SPLIT SYSTEM (COOLING ONLY)**

TAG	SERIES	AREA SERVED	FED FROM	FAN CC	DIL UNIT	CAPA	CITY	VOLTS	PHASE	FLA (amps)	MCA (amps)	EMERGENCY		APPROX. WEIGHT (LBS)	ACCESSORIES
	FAN COIL UNIT/CONDENSING UNIT			TYPE	TOTAL CFM	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)					POWER	SEER2 RATING	AH/CÙ ´	
AH/CU - ELEC	FTX36NVJU/RK36NMVJUA	ELECTRICAL ROOM	CU-ELEC	W	915	34.4	22.2	208	3	0.83	17	N	14.3	38/133	1, 2, 3, 4
AH/CU - ELEC2	FTX09NVJU/RK09NMVJUA	ELECTRICAL ROOM	CU-ELEC2	W	320	8.9	6.9	208	3	0.83	17	N	14.3	38/133	1, 2, 3, 4
AH/CU - MFRM	FTX30NVJU/RK30NMVJUA	MAINFRAME ROOM	CU-MFRM	W	890	31.4	21.0	208	3	0.62	17	N	14.3	38/133	1, 2, 3, 4
AH/CU - MDF	FTX36NVJU/RK36NMVJUA	MDF ROOM	CU-MDF	W	915	34.4	22.2	208	3	0.83	17	Y	14.3	38/133	1, 2, 3, 4

### NOTES (APPLY TO ALL UNITS):

A. COOLING CAPACITIES ARE BASED ON AN INDOOR EAT OF 80°F DB/67°F WB AND 100°F AMBIENT.

B. SUBMIT AHRI CERTIFIED CAPACITIES FOR ACTUAL EQUIPMENT TO BE INSTALLED. C. REFER TO HVAC GENERAL NOTES AND DETAILS FOR ADDITIONAL INFORMATION.

D. INDOOR AND OUTDOOR UNITS SHALL BE INSTALLED PER PLANS, MANUFACTURER'S RECOMMENDATIONS, AND LOCAL CODE REQUIREMENTS.

E. DISCONNECT SWITCH FOR OUTDOOR UNIT FURNISHED BY DIV 23, INSTALLED BY DIV 26.

F. UNITS SHALL BE EQUIPPED WITH AN INTERNAL CONDENSATE TRAP OR CHECK VALVE.

G. VERIFY MAXIMUM COMPRESSOR LIFT COMPATABILITY WITH MANUFACTURER AND OUTDOOR UNIT LOCATION.

H. 3' MINIMUM CLEARANCE FOR SERVICE AND AIR FLOW. J. REFRIGERANT LINE NOT TO BE EXPOSED TO OCCUPANTS.

ACCESSORIES (THIS LIST IS NOT ALL INCLUSIVE. IN ADDITION, PROVIDE MANUFACTURER RECOMMEND ACCESSORIES FOR SAFE AND PROPER OPERATION):

1. WIRED WALL MOUNT UNIT CONTROLLER

2. CONDENSATE PUMP AND SAFETY SWITCH

3. COMPRESSOR ANTI-RECYCLE CONTROLS

4. REFRIGERANT LINE-SET (VERIFY LENGTH)

SELECTIONS BASED ON PRODUCTS BY DAIKIN.

EQUAL PRODUCTS BY CARRIER, MITSUBISHI, LG, JCI, TRANE, SAMSUNG, TOSHIBA, PANASONIC, SANYO, BOSCH

FAN COIL UNIT TYPE: C - CEILING CASSETTE W - WALL HUNG

**GRILLE, REGISTERS & DIFFUSERS** 

TAG	SERIES	CFM	DUTY	NECK SIZE	FACE SIZE	DAMPER	DAMPER TYPE	BORDER STYLE	MATERIAL	MOUNTING	NOTES/ACCESSORIES
А	OMNI	SEE DWGS	SUPPLY	SEE DWGS	SEE DWGS	YES	OPPOSED BLADE	LAY-IN CEILING	STEEL	CEILING	ACCESSORY 1
В	3FL	SEE DWGS	EXHAUST	SEE DWGS	SEE DWGS	YES	OPPOSED BLADE	LAY-IN CEILING	ALUMINUM	CEILING	
С	3FL	SEE DWGS	EXHAUST	SEE DWGS	SEE DWGS	YES	OPPOSED BLADE	LAY-IN CEILING	ALUMINUM	SIDEWALL	
D	N-1-D	SEE DWGS	SUPPLY	SEE DWGS	60" LONG	YES	INTEGRAL DAMPER	LAY-IN CEILING	STEEL	CEILING	NOTES C & D
E	23RL	SEE DWGS	RETURN	SEE DWGS	SEE DWGS	YES	OPPOSED BLADE	LAY-IN CEILING	STEEL	CEILING	
F	FL-15-HT	SEE DWGS	SUPPLY	SEE DWGS	48" LONG	YES	INTEGRAL DAMPER	LAY-IN CEILING	STEEL	CEILING	NOTES C & N

### NOTES (APPLY TO ALL DEVICES UNO):

A. REFER TO ARCHITECTURAL DRAWINGS FOR TYPE OF CEILING, SUSPENSION SYSTEM AND FINISHES WHERE DEVICE WILL BE MOUNTED. FRAME AND BORDER TYPE SHALL BE

COMPATIBLE WITH ADJACENT SURFACES AND FINISHES.

B. FINISH SHALL BE MANUFACTURER'S STANDARD. REFER TO ACCESSORIES/NOTES FOR CUSTOM FINISHES, IF ANY. SUBMIT COLOR CHART WITH SHOP DRAWINGS. C. WHEN A DAMPER IS CALLED FOR ABOVE AND THE DEVICE IS TO BE MOUNTED IN AN INACCESSIBLE CEILING, EITHER A FACE ADJUSTABLE OR REMOTE CABLE OPERATED

BALANCING DAMPER SHALL BE INCLUDED.

D. ONE 1" SLOT, 5' LONG, FACTORY INSULATED PLENUM.

H. FOR DRYWALL OR PLASTER CEILING INSTALLATION, PROVIDE PLASTER FRAME.

J. REFER TO PLANS AND DETAILS FOR SOFFIT GRILLE SIZES AND TYPES.

K. SLOT DIFFUSER PATTERN CONTROLLERS SHALL BE ADJUSTED BY THE INSTALLING CONTRACTOR TO PROVIDE AIRFLOW PATTERN SHOWN BY DIRECTIONAL ARROWS ON THE DRAWINGS. L. SELECTIONS SHALL BE BASED ON A MAXIMUM NC LEVEL OF 35.

M. SELECTIONS SHALL BE BASED ON A MAXIMUM PRESSURE DROP OF 0.10" WC INCLUDING THE DAMPER.

K. SLOT DIFFUSER PATTERN CONTROLLERS SHALL BE ADJUSTED BY THE INSTALLING CONTRACTOR TO PROVIDE AIRFLOW PATTERN SHOWN BY DIRECTIONAL ARROWS ON THE DRAWINGS. L. SELECTIONS SHALL BE BASED ON A MAXIMUM NC LEVEL OF 35.

M. SELECTIONS SHALL BE BASED ON A MAXIMUM PRESSURE DROP OF 0.10" WC INCLUDING THE DAMPER.

N. ONE 1" SLOT, 4' LONG, FACTORY INSULATED PLENUM.

1. MOLDED INSULATION (R-6) BLANKET ON BACK PAN

SELECTIONS ARE BASED ON PRODUCTS BY: TITUS.

EQUAL COMMERCIAL PRODUCTS: KRUEGER, CARNES, ANEMOSTAT, TUTTLE & BAILEY, PRICE, METALAIRE, NAILOR.

TAG	SERIES	CFM	DUTY	NECK SIZE	FACE SIZE	DAMPER	DAMPER TYPE	BORDER STYLE	MATERIAL	MOUNTING	NOTES/ACCESSORIES
Α	OMNI	SEE DWGS	SUPPLY	SEE DWGS	SEE DWGS	YES	OPPOSED BLADE	LAY-IN CEILING	STEEL	CEILING	ACCESSORY 1
В	3FL	SEE DWGS	EXHAUST	SEE DWGS	SEE DWGS	YES	OPPOSED BLADE	LAY-IN CEILING	ALUMINUM	CEILING	
С	3FL	SEE DWGS	EXHAUST	SEE DWGS	SEE DWGS	YES	OPPOSED BLADE	LAY-IN CEILING	ALUMINUM	SIDEWALL	
D	N-1-D	SEE DWGS	SUPPLY	SEE DWGS	60" LONG	YES	INTEGRAL DAMPER	LAY-IN CEILING	STEEL	CEILING	NOTES C & D
Е	23RL	SEE DWGS	RETURN	SEE DWGS	SEE DWGS	YES	OPPOSED BLADE	LAY-IN CEILING	STEEL	CEILING	
F	FL-15-HT	SEE DWGS	SUPPLY	SEE DWGS	48" LONG	YES	INTEGRAL DAMPER	LAY-IN CEILING	STEEL	CEILING	NOTES C & N

		<b>FANS</b>

TAG	MANUF	MODEL	TYPE	DUTY	CFM	SP (IN WC)	MAX MOTOR SIZE	MIN FEI	MIN EFFICACY (CFM/WATT)	RPM	DRIVE	MAX SONES	APPROX WEIGHT (LBS)	CONTROL	VOLTS	PHASE	EMERG POWER	ACCESSORIES/ REMARKS
EF-ISO1	COOK	80CPS	UCF	ISOLATION SUITE EXH	520	0.5	1/10	1.86	7.8	1505	D	-	361	CN/CD	480	3	YES	1, 2, 3, 5, 6, 7, 8
EF-ISO2	COOK	80CPS	UCF	ISOLATION SUITE EXH	520	0.5	1/10	1.86	7.8	1505	D	-	361	CN/CD	480	3	YES	1, 2, 3, 5, 6, 7, 8
EF-1	COOK	165R08D	RCU	MULTIPLE ZONE EXH	1610	0.375	1/4	1.91	10.8	975	D	8.8	148	CN/CD	480	3	YES	1, 2, 3, 5, 6, 8
EF-2	COOK	165R08D	RCU	MULTIPLE ZONE EXH	1820	0.375	1/3	1.78	10.1	880	D	9.0	38	CN/CD	480	3	YES	1, 2, 3, 5, 6, 8
EF-3	COOK	90R17D	RCU	MULTIPLE ZONE EXH	500	0.375	1/20	1.56	8.1	1140	D	8.0	86	CN/CD	480	3	YES	1, 2, 3, 5, 6
EF-4	COOK	101R17D	RCU	MULTIPLE ZONE EXH	530	0.375	1/20	1.97	9.9	1225	D	9.7	86	CN/CD	480	3	YES	1, 2, 3, 5, 6
EF-5	COOK	135R17D	RCU	MULTIPLE ZONE EXH	1055	0.5	1/8	2.00	11.1	840	D	6.9	148	CN/CD	480	3	YES	1, 2, 3, 5, 6, 8
EF-6	СООК	120R17D	RCU	MULTIPLE ZONE EXH	850	0.375	1/8	2.01	10.9	1130	D	8.0	20	CN/CD	480	3	YES	1, 2, 3, 5, 6, 8
EF-7	COOK	135R17D	RCU	SINGLE SPACE EXH	425	0.375	1/20	1.56	14.6	1120	D	7.6	86	CN/CD	480	3	YES	1, 2, 3, 5, 6
EF-8	COOK	100SQN	ILC	MULTIPLE ZONE EXH	1000	0.25	1/3	1.56	4.9	2125	D	7.6	82	CN/CD	480	3	YES	1, 2, 3, 5, 6, 8, 9

**ELECTRIC HEATERS** 

MOUNTING HEIGHT

12"

12"

12"

12"

12"

12"

12"

12"

12"

8'-0"

8'-0"

8'-0"

VOLTS

480

480

480

480

480

480

480

480

480

480

480

480

PHASE

3

3

3

3

3

3

3

3

3

3

3

CAPACITY

3.0

3.0

3.0

3.0

3.0

3.0

3.0

3.0

3.0

5.0

5.0

A. GREASE REMOVAL FANS SHALL BE LISTED FOR GREASE REMOVAL (UL 762) AND ELECTRICAL (UL 705)

B. REFER TO DETAILS FOR ADDITIONAL OPTIONS, ACCESSORIES, MOUNTING ARRANGEMENT, ETC.

C. WEIGHTS INCLUDE ACCESSORIES, CURBS, MOTORS, ETC.

D. FANS THAT ARE SCHEDULED TO RUN CONTINUOUSLY SHALL HAVE IEC 60034-1 CONTINUOUS DUTY RATED MOTORS. E. FANS SHALL BE CERTIFIED AND BEAR THE HVI-2100 OR AMCA LABEL FOR AIR AND SOUND PERFORMANCE.

TAG

EWH 3

EWH 4

EWH 5

EWH 7

EWH 8

EWH 9

EUH 1

EUH 2

EUH 3

ACCESSORIES:

3. SURFACE MOUNTING KIT

NOTES (APPLY TO ALL HEATERS):

1. INTEGRAL TAMPERPROOF THERMOSTAT 2. INTEGRAL DISCONNECT SWITCH

5. FAN GUARD AND LOUVER DIFFUSER

4. UNIVERSAL WALL/CEILING MOUNTING BRACKET

SELECTIONS BASED ON PRODUCTS BY RAYWALL

SERIES

AFA

AFA

AFA

AFA

AFA

AFA

AFA

AFA

AFA

5100

5100

5100

A. ALL HEATERS SHALL BE UL OR ETL TESTED AND LISTED.

C. ALL HEATERS SHALL HAVE THERMAL OVERLOAD PROTECTION.

TYPE

WALL HEATER

**UNIT HEATER** 

UNIT HEATER

UNIT HEATER

B. OUTPUT CAPACITY SCHEDULED IS AT INSTALLED VOLTAGE. COORDINATE WITH ELECTRICAL DWGS.

D. STAIRWELL AND SPRINKLER RISER ROOM HEATERS - THERMOSTAT SETPOINT SHALL BE 45°F.

EQUAL PRODUCTS BY MARKEL, BERKO, QMARK, INDEECO, MARLEY, REDDI, STELPRO.

MOUNTING

SURFACE

SURFACE

SURFACE

SURFACE

SURFACE

SURFACE

SURFACE

SURFACE

SURFACE

HORIZONTAL/VERTICAL

HORIZONTAL/VERTICAL

HORIZONTAL/VERTICAL

F. FANS AND ASSOCIATED COMPONENTS LOCATED IN RA PLENUMS SHALL BE PLENUM RATED.

G. MAX. FREE-FIELD SOUND RATING AT 3 METERS SHALL NOT EXCEED 64 DBA.

FAN TYPES: RCU - ROOF CENTRIFUGAL UPBLAST ILC - IN-LINE CENTRIFUGAL

UCF - UTILITY CENTRIFUGAL FAN



FAN CONTROL NOTES: CN - CONTINUOUS OPERATION CD - INTERLOCK TO BAS/TIMECLOCK

7. SPRING ISOLATORS

9. SPARK PROOF CONSTRUCTION

8. EC MOTOR

6. SPEED CONTROLLER FOR BALANCING PURPOSES (MOUNTING BY ELECTRICAL)

ACCESSORIES:

1. GRAVITY BACKDRAFT DAMPER

2. FACTORY MOUNTED DISCONNECTING MEANS (CORD AND PLUG, SWITCH, ETC.)

3. BIRD SCREEN

4. VIBRATION ISOLATION KIT (NEOPRENE ISOLATORS)

UNLESS NOTED OTHERWISE, SELECTIONS ARE BASED ON PRODUCTS BY COOK OR MANUFACTURER NOTED.

EQUAL PRODUCTS: PENNBARRY, CARNES, GREENHECK, TWIN CITY, AEROVENT, DELTA BREEZ, S & P USA, AND PANASONIC PROVIDED THE PRODUCTS MEET OR EXCEED THE SCHEDULED PERFORMANCE AND SPECIFICATIONS.

# MECH/ELEC COORDINATION

THE MECHANICAL CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS OF ALL HVAC EQUIPMENT (VOLTAGE, PHASE, MCA, MOCP, ETC.) WITH THE ELECTRICAL CONTRACTOR AND THE ELECTRICAL PLANS PRIOR TO SUBMITTING OR ORDERING ANY MECHANICAL EQUIPMENT. ANY SUBSEQUENT MISMATCH BETWEEN THE MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS AND THE ELECTRICAL SERVICE, AS DESIGNED AND PROVIDED, SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR WITH NO ADDITIONS TO THE CONTRACT.

Jordan & Skala Engineers

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Checked By: FRM

Project Number: 23030669

Drawn By: LSP

WEIGHT

30

30

30

30

30

30

30

30

44

44

**ACCESSORIES** 

1, 2, 3

1, 2, 3

1, 2, 3

1, 2, 3

1, 2, 3

1, 2, 3

1, 2, 3

1, 2, 3, 4, 5

1, 2, 3, 4, 5

1, 2, 3, 4, 5

MCA (amps)

3.6

3.6

3.6

3.6

3.6

3.6

3.6

3.6

3.6

6.1

6.1

6.1

FLA (amps)



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REVISION SCHEDULE # DATE DESCRIPTION

04/15/2024 ISSUE FOR PERMIT A 06/07/2024 CITY COMMENTS 09/20/2024 REISSUE FOR PRICING 11/11/2024 CITY COMMENTS

02/21/2025 ISSUE FOR CONSTRUCTION

SHEET TITLE SCHEDULES -

MECHANICAL

SHEET NUMBER

ISSUE FOR PERMIT: 04/15/2024

KITCHEN AIR BALANCE

RELATIONSHIP OUTSIDE AIR EXHAUST AIR PRESSURE SOURCE (CFM) 2368 +2368 2368 -592 (-20%)