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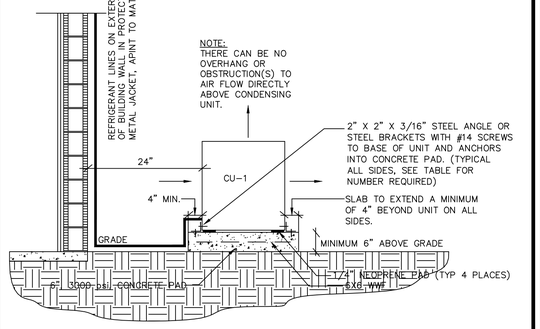
NOTE:

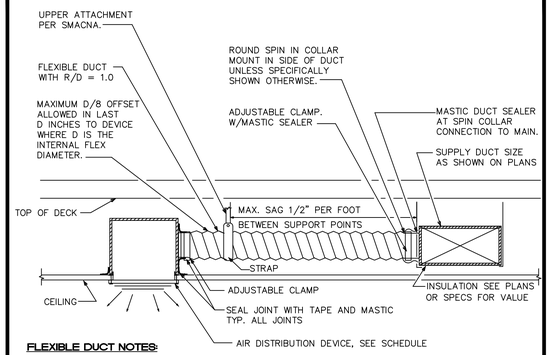
INSTALLATION SHALL COMPLY WITH 2020 FMC, PAR. 301.15

UNIT SIDE	LESS THAN 12"	12" TO 24"	24" TO 36"	MORE THAN 36" OR ABOVE 5 TON.
SCREWS				SHALL COMPLY WITH SECTION 301.12
NUMBER PER EACH SIDE	1	2	3	



CONDENSING UNIT MOUNTING DETAIL

NOT TO SCALE



FLEXIBLE DUCT NOTES:

1. FLEXIBLE DUCTS SHALL BE ONE-PIECE AND SHALL NOT BE SPLICED TOGETHER.
2. EXTEND FLEXIBLE DUCT INSULATION TO DUCT/DIFFUSER PANEL INSULATION AND SEAL WITH MASTIC.
3. SUPPORT PER FMC 603.5.6.6, WITH STRAP HANGER WITH HEMMED EDGES PER SMACNA. FIGURE 3-10
4. FLEXIBLE AIR DUCT SHALL BE FULLY EXTENDED AND NOT COMPRESSED WITH ELBOW RADIUS NOT LESS THAN R/D = 1.0
   PROVIDE NON METALLIC, INSULATED FLEXIBLE DUCT.

FLEX DUCT DETAIL

NOT TO SCALE

AIR CONDITIONING SPLIT SYSTEM EQUIPMENT SCHEDULE

CONDENSING UNIT

CU TAG	MANUFACTURER & MODEL	NOMINAL TONNAGE	CAP. STAGES	(S)EER2/(IPLV	REFRIG.	LIQ.-SUCT.	NO. FANS	FAN FLA(EA)	NO. COMP.	COMP.RLA(EA)	VOLTAGE/PH	MCA/MOCP	WEIGHT (LBS)	L x W x H (IN)	NOTES
NEW CU-2	TRANE 4TXSKS12A1I2AA	1.0	1	20.7/-	R-410A	SEE MANUAL	1	0.5	1	6.6	208-230/1	9/20	81	22X32X12	SEE BELOW

AIR HANDLING UNIT

AHU TAG	MANUFACTURER & MODEL	TOTAL MBH	SENSIBLE MBH	TOTAL CFM	O/A CFM	E.S.P.("W.G.)	ENT. DB/WB	LEAV. DB/WB	ROWS/FPI	FAN HP/FLA	HEATER	VOLTAGE/PH	MCA/MOCP	WEIGHT (LBS)	L x W x H (IN)	NOTES
NEW AHU-2	TRANE NTXAM112A1I2AA	12.0	106	400	-	0.4	75/62	56.2/52.7	-/-	-/2.4	15.0 MBH	230/1	***	110	22X19X45	SEE BELOW

*** POWERED THRU OUTDOOR UNIT

NOTES:

1. UNITS RATED PER ARI 210, 240 AND 270, APPROVED EQUAL: AAON, CARRIER, TRANE
2. PROVIDE WITH THERMAL EXPANSION VALVES, LIQUID LINE FILTER DRYER AND MULTI-USE SERVICE VALVES
3. PROVIDE COMPRESSOR WITH CRANKCASE HEATER AND MIN. 5-YEAR WARRANTY
4. PROVIDE HIGH AND LOW PRESSURE CONTROL AND OVER TEMPERATURE PROTECTION.
5. PROVIDE WEATHERPROOF ELECTRIC CONTROLS AND SINGLE SIDE SERVICE ACCESS
6. PROVIDE SINGLE POINT POWER ENTRY AND HEAVY DUTY NICKEL-CHROMIUM ELEMENT HEATER
7. PROVIDE 1" THROWAWAY, MIN. MERV 8 FILTER AND VIBRATION ISOLATION FOR AHU
8. PROVIDE COASTAL CORROSION PROTECTION FOR CONDENSING UNIT, FULLY DIPPED COIL (BY MANUFACTURER)
9. PROVIDE FACTORY MOUNTED FUSIBLE DISCONNECT/STARTER FOR A.H.U., COORDINATE PRIOR TO PURCHASING
10. PROVIDE DISCONNECT FOR C.U. (INSTALLED BY ELECTRICAL) COORDINATE PRIOR TO PURCHASING
11. PROVIDE PROGRAMMABLE THERMOSTAT.
12. PROVIDE REFRIGERANT LINES SIZE AS RECOMMENDED BY MANUFACTURER, NOT TO EXCEED 150 FT. EQUIV. LENGTH FOR LONGER RUNS COORDINATE WITH MANUFACTURER PRIOR TO PURCHASE OR ANY WORK.
13. PROVIDE CONDENSATE PUMP AS REQUIRED..
14. PROVIDE A LIQUID LINE SOLENOID VALVE INSTALLED AT THE AHU IF THE INSTALLED LINEAL LENGTH OF THE REFRIGERANT LIQUID LINES EXCEEDS 75 FT (FIELD VERIFY).
15. PROVIDE A SUCTION LINE ACCUMULATOR IF THE INSTALLED LINEAL LENGTH OF THE REFRIGERANT SUCTION LINES EXCEEDS 100 FT (FIELD VERIFY).
16. PROVIDE CORROSION PROTECTION COATING FOR CONDENSER COIL WITH MIN. 5-YEAR WARRANTY COATING BY SURFSIL, LUVATA, THERMOGUARD OR BYGOLD.
17. PROVIDE 3" AUXILLARY DRAIN PAN WITH AUTOMATIC SHUT OFF FLOAT SWITCH OR SENSOR SWITCH IN UNIT'S DRAIN PAN SECONDARY CONNECTION, EQUAL TO "WATER GARD
18. AS APPLICABLE, MANUFACTURE AND INSTALLATION SHALL COMPLY W/FMC 301.15 FOR WIND RESISTANCE

COORDINATION NOTE:

MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER. COORDINATE LINE LENGTH WITH TRANE PRIOR TO PURCHASE AND INSTALLATION. LINE LENGTH SHALL BE APPROVED BY MANUFACTURER.

EXHAUST FAN SCHEDULE

SELECTION DATA					FAN DATA			MOTOR DATA				GENERAL DATA				
TAG	SERVICE AREA	MANUF.(*)	MODEL	CONFIG.	CFM	ESP ("WG)	SONES	HP	RPM	DRIVE	VOLTAGE	WEIGHT (LBS)	DIMENSIONS L"xW"xH"	OPENING L"xW"	CONTROL	ACCESSORIES
EF-1	BEDROOM BATHROOM	GREENHECK	SP-A90	CEILING	50	.37	0.8	14 WATTS	900	DIRECT	120/1/60	12	11X13X9	*	LIGHT INTERLOCK	SEE BELOW

(*) APPROVED EQUAL MANUFACTURER: COOK, TWIN-CITY, ACME,

ACCESSORIES NOTES:

1. PROVIDE GRILLE COLOR PER ARCH. SPECS
2. PROVIDE BACK DRAFT DAMPER
3. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH AND INTEGRAL THERMAL OVERLOAD PROTECTION, COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ANY PURCHASING.
4. PROVIDE BIRD SCREEN
5. LOCATE BACK DRAFT DAMPER AT DISCHARGE
6. SUPPORT FROM STRUCTURE COMPLETE WITH VIBRATION ISOLATORS
7. PROVIDE XVENT BOX
8. PROVIDE STEP DOWN TRANSFOMER FOR LIGHT INTERLOCK

NOTES:

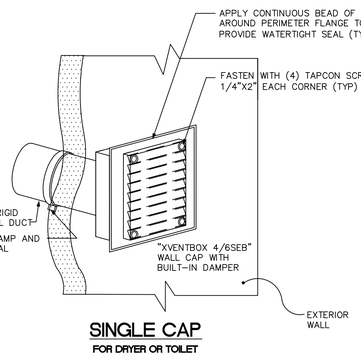
a. MOTOR STARTERS, FUSED DISCONNECTS AND ALL EQUIPMENT POWER WIRING PROVIDED BY ELEC. CONTRACTOR MECHANICAL AND ELECTRICAL CONTRACTORS TO COORDINATE PRIOR TO ANY WORK AND PURCHASING

c. FIELD ADJUST OPENINGS WITH STRUCTURE.

e. COORDINATE WITH ELECTRICAL CONTRACTOR BEFORE BIDDING OR ORDERING ANY EQUIPMENT.

f. SEE PROJECT PLANS AND SPECIFICATIONS FOR OTHER FIELD SUPPLIED ITEMS AND ADDITIONAL INFORMATION.

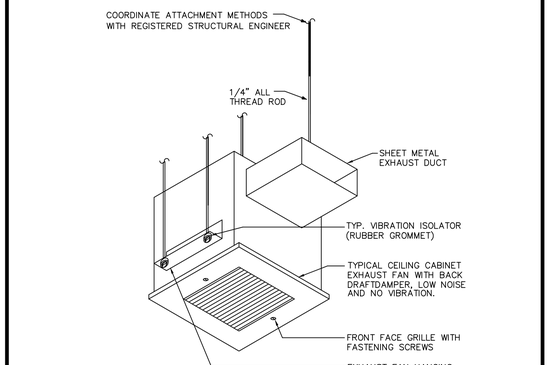
g. COORDINATE FINISH WITH ARCHITECT/OWNER



SINGLE CAP

FOR DRYER OR TOILET

WALL CAP DETAIL



CABINET EXHAUST FAN DETAIL

NOT TO SCALE

DIFFUSER/GRILLE SCHEDULE

TAG CFM **SUPPLY**

TAG	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM RANGE	NOTES
A	PRICE 640S	14X14	12X12	ALUM.	SURFACE	OFF WHITE	OBD	4-WAY	MAX. 30	SEE SCH.	SEE BELOW
B	PRICE 640S	8X8	6X6	ALUM.	SURFACE	OFF WHITE	OBD	2-WAY	MAX. 30	SEE SCH.	SEE BELOW
TAG CFM **RETURN**											
AA	PRICE 630	22X22	20X20	ALUM.	SURFACE	OFF WHITE	-	-	MAX. 30	SEE SCH.	SEE BELOW
BB	PRICE 630	16X16	14X14	ALUM.	SURFACE	OFF WHITE	-	-	MAX. 30	SEE SCH.	SEE BELOW

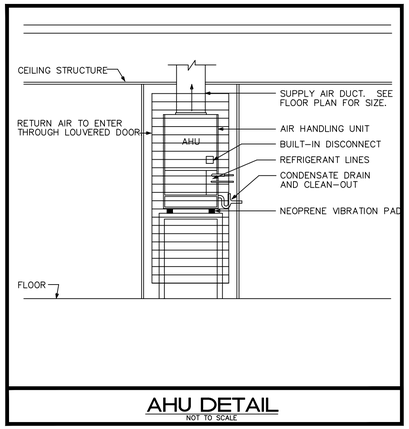
(*) EQUIVALENT MANUFACTURER: TITUS, KRUEGER, AIRGUIDE, T & B, NAILOR

GENERAL NOTES:

1. PROVIDE SPIN-IN COLLAR WITH VOLUME DAMPER AT TRUNK TO FLEX DUCT CONNECTION (SEE DETAIL).
2. PROVIDE TYPICAL 4-WAY DIFFUSION, 2-WAY OR 3-WAY ONLY WHERE INDICATED ON PLANS.
3. REFER TO ARCHITECT PLANS FOR CEILING TYPE.
4. FINAL COLOR SELECTION SUBJECT TO ARCHITECT APPROVAL.
5. FLEX DUCT SIZE TO BE SAME AS DIFFUSER NECK SIZE.
6. PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE
7. PROVIDE VOLUME CONTROL DAMPERS FOR ALL RETURN GRILLES OR REGISTERS FOR BALANCED AIRFLOW.
8. PROVIDE INTERNAL CABLE CONTROL FOR DIFFUSERS IN HARD CEILINGS.

S/A FLEX SCHEDULE	
6ø"	50-125 CFM
8ø"	130-200 CFM
10ø"	205-330 CFM
12ø"	335-450 CFM
14ø"	455-700 CFM

CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT/OWNER, PRIOR TO ANY PURCHASING OR INSTALLATION, IF A BUILDING STANDARD HAS TO BE FOLLOWED REGARDING A SPECIFIC MODEL OR MANUFACTURER AND SHALL BRING ANY DISCREPANCY TO THE ATTENTION OF ENGINEER.



AHU DETAIL

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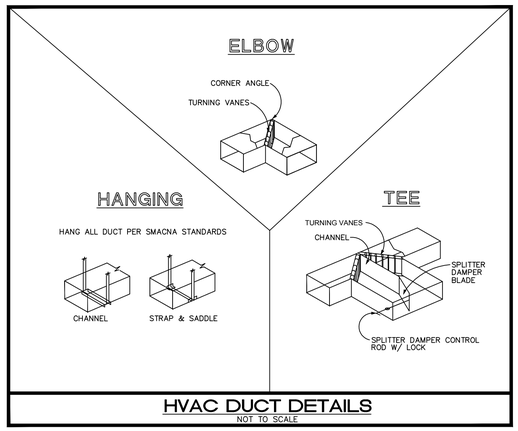

HVAC DUCT DETAILS

NOT TO SCALE

ARKO ARCHITECTURE, LLC
2980 McFARLANE RD. SUITE 200
COCONUT GROVE, FL 33133
edgardo@thearkogroup.com
eduardo@thearkogroup.com
c: 954.647.1447
c: 305.951.6181

ADDITION & RESTORATION FOR:

MAZZINI & MELINE RESIDENCE

10300 SW 70TH AVE,
MIAMI, FL 33156

Digitally signed by Edgardo J Betancourt Santiago
Date: 2024.05.22 16:30:55-04'00'

STATE OF FLORIDA
EDGARDO J BETANCOURT SANTIAGO
AR99726
REGISTERED ARCHITECT

DRAWN BY
DATE -- PROJECT
04.03.23 CHECKED BY 22-84
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REVISIONS

MECHANICAL SCHEDULES AND DETAILS

CONSTRUCTION DOCUMENTS

M3