

CONSTRUCTION SOLUTIONS MODEL DBX1000M
METAL DRYER VENT BOX FIRE RATED,
OR EQUAL.

OWNER SUPPLIED DRYERS ARE
PROVIDED WITH EXTRA LONG
VENTING. SEE ATTACHED
MANUFACTURER'S LITERATURE

PROVIDE A LABEL FOR EACH
DRYER VENT BOX WITH THE
DRYER VENT LENGTH AND
NUMBER OF ELBOWS.

4" OF SHEET METAL DUCT
TO DRYER VENT.

4" OF FLEXIBLE CORRUGATED
SHEET METAL DUCT TO DRYER,
WITH CLAMP.

FINISHED FLOOR

ADJUST A.F.F. HEIGHT
BASED ON SPECIFIED EQUIPMENT

*** MECHANICAL CONTRACTOR SHALL PROVIDE A PRICE FOR FULL COUNT OF ALL MOTORIZED CONTROL VALVE AND BALL VALVES. TAKE OFF FROM THE MECHANICAL 200 SERIES DIAGRAM PROVIDED.

CFM RANGE	RECTANGULAR DUCT SIZE (WIDTH X HEIGHT @ 20 IN. W.C. / 100 FT.)	
0-135	6" X 6"	6.56" EQ. DIA.
140-175	8" X 6"	7.55" EQ. DIA.
180-230	8" X 8"	8.75" EQ. DIA.
235-400	10" X 8"	9.76" EQ. DIA.
405-855	12" X 12"	13.12" EQ. DIA.
860-1230	14" X 14"	15.30" EQ. DIA.

NOTES:

1. PROVIDE RECTANGULAR DUCTS TAKE-OFF TRANSITION TO ROUND DUCT USE TABLE SHEET FOR ROUND DUCT.

CFM RANGE	MINIMUM INTERNAL DIA. @ 10 W.G. / 100 FT.	
0-10	6"	
15-145	7"	
150-230	8"	
235-455	10"	
460-685	12"	
690-1015	14"	

NOTES:

1. PROVIDE ROUND DUCTS UNLESS OTHERWISE NOTED ON FLOOR PLAN.
2. "DIAMETER" MEANS INSIDE DUCT DIAMETER.

TAG	MANUF.	ROOM NAME	AIR SYSTEM TYPE	MODEL NO.	AIRFLOW	STATIC PRESS.	WATTS	VOLT	PHASE	FREQ.	INTERLOCK	NOTES
EF-1BR-A	BROAN	1BR-A	CEILING MOUNTED	SP-B80	50 CFM	0.30 in-wg	30.6 W	115 V	1	60 Hz	LIGHTS	LEVEL 1

TAG	MFR	MODEL NO.	ROOM NAME	SUPPLY CFM	ENTERING AIR TEMP (DB / WB)	LEAVING AIR TEMP (DB / WB)	TOTAL CAPACITY (MBH)	HORSE POWER	VOLTAGE	ELECTRIC HEATER DATA (KW)	MCA	MOCP	WIDTH / HEIGHT / LENGTH	CONDENSER MARK	CONDENSER MODEL	CONDENSER MCA	CONDENSER MOCP	SEER	NOTES
FC-A102	ADP	SM212419	1BR-C	705	75.0 / 62.5	55.0 / 55.0	20860	.5	208 / 1 / 60	3.75 / 1	27.0	30.0	22" x 30" x 20.8"	CU-FC-A101	16ACX24	15.6	20.0	16.0	LEVEL 1

1. PROVIDE WITH PROGRAMMABLE THERMOSTAT WITH REMOTE SENSOR, HUMIDISTAT.
2. COORDINATE MANUFACTURER REQUIREMENTS FOR LONG REFRIGERANT LINES AND ACCESSORIES PRIOR TO CONSTRUCTION.
3. AIR HANDLER UNITS CLEARANCE "36" IN FRONT FOR ELECTRICAL ACCESS PANEL AND "12" MINIMUM CLEARANCE BETWEEN THE OTHER THREE SIDES.
4. PROVIDE WITH UNITS WITH TWO (2) YEAR WARRANTY ON PARTS AND LABOR AND FIVE (5) YEAR WARRANTY ON THE COMPRESSOR
5. PROVIDE AHU UNITS WITH DISCONNECT SWITCH.
6. COORDINATE MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
7. THE CONTRACTOR SHALL DESIGN AND INSTALL A DUCTWORK SYSTEM AS AN ALTERNATIVE, HOWEVER GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS OF DUCTWORK RESULTING FROM ALTERNATE CHANGE DESIGN.
8. CONTRACTOR SHALL COORDINATE EQUIPMENT LOCATION WITH ALL TRADES PRIOR TO INSTALLATION.
9. CONDENSATE PIPING TO BE PROVIDED FROM AHU TO EXISTING SANITARY DRAINAGE AT 1/2" SIZE. GRAVITY DRAINAGE TO BE USED IN LIEU OF CONDENSATE PUMP.
10. A 12"x24" RETURN GRILL SHALL BE LOCATED AT THE AHU CLOSEST AS RETURN, AND A 6"x8" TRANSFER GRILL SHALL BE LOCATED ABOVE BEDROOMS AND BATHROOM DOORS.



REMOVE EXISTING DUCT WORK, REFRIGERATION
PIPING AND REPLACE WITH NEW DUCT WORK, AND
REFRIGERATION PIPING.

- MECHANICAL INSTALLATION IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SEVENTH EDITION (2020), THE FLORIDA CODE, PLUS ALL LOCAL CODES, INCLUDING ANY HAVING JURISDICTION.
2. THE GENERAL NOTES ARE PART OF THE DESIGN SET AND THERE IS ANY CONFLICT BETWEEN THE DESIGN NOTES, SPECIFICATIONS OR THE FLORIDA BUILDING CODE, THE STRICTER REQUIREMENTS SHALL TAKE PRECEDENCE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING UTILITIES ARE CORRECT. CAREFULLY REMOVE EXISTING SPIRAL DUCTWORK AND REUSE EXISTING DUCT WORK WHEREVER POSSIBLE.
4. REMOVE EXISTING HVAC EQUIPMENT AS REQUIRED. COORDINATE WITH ELECTRICAL CONTRACTOR TO DISCONNECT POWER TO HVAC EQUIPMENT BEING REMOVED.
5. COORDINATE NEW WALL OPENING LOCATION AND SIZE WITH GENERAL CONTRACTOR.
6. PROVIDE ALL NECESSARY AND OPTIONAL, HARDWARE, FITTINGS, ETC/SCHEMS, ETC. AS REQUIRED TO ASSURE THE SYSTEM WORKS PROPERLY.
7. USE 4" CONCRETE PAD FOR CONDENSERS IN GROUND AND PROVIDE HURRICANE TIE DOVENS.
8. PIPES AND DUCT ROUTING SHOWN IS SCHEMATIC IN NATURE. HVAC CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS, INCLUDING DOWNS DUCTS REQUIRED, FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS SPECIFIED. WHEN LOCATED IN THE FIELD, WORK SHALL BE COORDINATED WITH EXISTING UTILITIES WHICH ARE TO REMAIN IN PLACE.
9. COORDINATE WITH ALL OTHER TRADES PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND MATERIALS.
10. COORDINATE DIFFUSER, REGISTERS AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN AND OTHER TRADES.
11. DUCT TO BE SUPER DUCT JOINS MANUFACTURED FIBERGLASS WITH R4.17 THERMAL INSULATION OR EQUAL. ALL SUPER DUCT JOINS SHALL FOLLOW R4.17 MANUFACTURER'S GUIDELINES. ALL EXPOSED OUTSIDE DUCT TO BE INSULATED WITH ALL NECESSARY MANUFACTURER FITTINGS. PROVIDE AIR EXTRACTORS WHERE NECESSARY.
12. THERMOSTATS SHALL BE PROGRAMMABLE WITH HUMIDITY CONTROL AND MOUNTED AT INCHES ABOVE FINISHED FLOOR OR CEILING.
13. DUCT SIZES ARE SHOWN MINIMUM INCH CLEAR DIMENSIONS. COORDINATE FOR DUCT INSULATION THICKNESS AT POINT OF INTERSECTION WITH OTHER TRADES PRIOR TO INSTALLATION.
14. AIR INTAKES SHALL BE INSTALLED A MINIMUM 10' (FEET) FROM OUTSIDE EXHAUST AIR OUTLETS.
15. SEAL ALL DUCTWORK JOINTS WITH DUCT SEALANT PER MANUFACTURER'S REQUIREMENTS AND PER THE FLORIDA BUILDING CODES.
16. PROVIDE TESTING AND BALANCE IN ACCORDANCE WITH ASHRAE OR NEBS STANDARDS. TEST AND BALANCE CONTRACTOR SHALL HAVE A COPY OF PLAN IN ACCORDANCE WITH ASHRAE OR NEBS STANDARDS. TEST AND BALANCE CONTRACTOR SHALL PROVIDE TEST AND BALANCE IN ACCORDANCE WITH ASHRAE OR NEBS STANDARDS. BALANCE ALL EQUIPMENT AND DUCTWORK PRIOR TO TURNING VAV'S TO 50% OF DESIGN.
17. OUTSIDE AIR INTAKES AND EXHAUST AIR OUTLETS SHALL BE GALVANIZED SHEETMETAL MANUFACTURED ACCORDING TO AIAA004.
18. ALL DIFFUSERS SHALL HAVE A MANUAL VOLUME DAMPER AT DUCT CONNECTION WHENEVER SHOWN ON THE DRAWING OR NOT.
19. CONNECT ALL CONDENSATE DRAIN TO STORM DRAIN, DRYWELL, OR OUTSIDE DRAIN WITH CONDENSATE - COORDINATE WITH ELECTRICAL CONTRACTOR PLUMBING CONTRACTOR SHALL DEVELOP AND SUBMIT LINEUP WITH LOCAL CONTRACTOR.
20. ALL RECTANGULAR DUCT ELBOWS, 45° OR LARGER SHALL HAVE TURNING VANES IN THEM.
21. PROVIDE ALL OUTSIDE AIR TAKE DUCTS WITH TWO POINT (SPRING) ROTATED SPRING MOTORIZED DAMPER AND MANUAL VOLUME DAMPER.
22. CONDENSATE DRAIN PIPING SHALL BE PVC, INSULATED WITH 1/2" THICK AMPLEX-18 SLOPED IN 1/8" PER LINEAR FOOT.



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MECHANICAL FLOOR PLAN