DIFFUSER SCHEDULE

SYM.	SIZE	TYPE	DUCT SIZE	MODEL#	FINISH	BOOT SIZE	OPENING SIZE	QTY.
A	24X24	SUPPLY 4 WAY	12"ø	TCD-AA	WHITE	12"ø	T-BAR	18
B*	24X24	SUPPLY 3 WAY	12"ø*	TCD-AA	WHITE	12"ø	T-BAR	4
C	24X24	SUPPLY 2 WAY	10"ø	TCD-AA	WHITE	12"ø	T-BAR	1
D	24X24	SUPPLY 4 WAY	10"ø	TCD-AA	WHITE	10"ø	T-BAR	1
E	12X12	SUPPLY 2 WAY	8"ø	TCD-AA	WHITE	12X12	SIZE + 1/4"	2
F	24X24	SUPPLY 1 WAY	8"ø	TCD-AA	WHITE	12X12	SIZE + 1/4"	1
G	8X8	SUPPLY 1 WAY	6"ø	301FL	WHITE	8X8	SIZE + 1/4"	1
H	24X24	RETURN	18"ø	50F	WHITE	22X22	T-BAR	8
J	24X24	RETURN	12"ø	50F	WHITE	22X22	T-BAR	2
K	12X12	EXHAUST	8"ø	50F	WHITE	12X12	SIZE + 1/4"	2
L	24X24	SUPPLY 2 WAY	8"ø	TCD-AA	WHITE	12X12	SIZE + 1/4"	1

ALL DIFFUSERS SHALL BE MANUFACTURED BY TITUS OR METALAIRE AND 100% ALUMINUM CONSTRUCTION AND MUST BE FASTENED TO THE GRID OR STRUCTURE AS REQUIRED.
* PROVIDE WITH FOUR 14"ø TO 12"ø REDUCERS FOR TOP OF DIFFUSERS
** PROVIDE WITH OPPOSED-BLADE DAMPER

PACKAGE ROOFTOP UNIT SCHEDULE (RTU-1,2,3,4,5)

TAG	RTU-1,3	RTU-2	RTU-4	RTU-5
MANUFACTURER	LENNOX	LENNOX	LENNOX	LENNOX
MODEL	LGH092H4B (7.5 TON)	LGH092H4B (7.5 TON)	LGH120H4B (10 TON)	LGH036S4T (3 TON)
LOCATION, UNIT DIMENSIONS LXW	ROOF, 101" X 60"	ROOF, 101" X 60"	ROOF, 101" X 60"	ROOF, 85" X 47"
TYPE OF HEAT	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS
TOTAL COOLING CAPACITY, MBTU/HR	87.8	87.8	116.9	34.3
SENSIBLE COOLING CAPACITY, MBTU/HR	67.9	67.9	89.6	27.9
ENTERING AIR CONDITIONS, DBF/WB'F	80/67	80/67	80/67	80/67
AMBIENT AIR DB TEMPERATURE, °F	95	95	95	95
SUPPLY AIR, CFM	3000	3275	4000	1200
OUTSIDE AIR, CFM	SEE SCHEDULE	SEE SCHEDULE	SEE SCHEDULE	SEE SCHEDULE
EXTERNAL STATIC PRESSURE, "WG	0.80	0.80	0.80	0.80
SUPPLY FAN NOMINAL POWER, HP	2.0	2.0	3.0	1.0
E.E.R./S.E.E.R.	12.5	12.5	12.0	15.0 (S.E.E.R.)
GAS INPUT MBTU/HR	180	180	240	65
GAS OUTPUT MBTU/HR	144	144	192	52
UNIT WEIGHT, LBS.	1400	1400	1500	900
ELECTRICAL REQUIREMENT, V/PHASE/HZ	208-230/3/60	208-230/3/60	208-230/3/60	208-230/3/60
MINIMUM CIRCUIT AMPERAGE	42.0	42.0	46.0	20.0
MAXIMUM OVER CURRENT PROTECTION	50	50	50	30

ACCESSORIES:
1. ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF
2. 14" HIGH INSULATED ROOF CURB
3. ONE YEAR COMPLETE PARTS AND LABOR WARRANTY
4. ADDITIONAL FOUR YEAR PARTS WARRANTY COVERING COMPRESSORS
5. RETURN AIR SMOKE DETECTOR FACTORY-INSTALLED
6. 2" MERV 4 FILTERS
7. LENNOX NETWORK CONTROLS PANEL, ZONE SENSORS, AND NETWORK CABLE
8. NOTE: CONTACT LENNOX NATIONAL ACCOUNTS @ 800-367-6285 FOR QUOTES

NOTE: COORDINATE RTU PLACEMENT ON SITE PRIOR TO SETTING EQUIPMENT. IF ADJUSTMENT IS NECESSARY, MAINTAIN FRESH AIR INTAKE CLEARANCES.

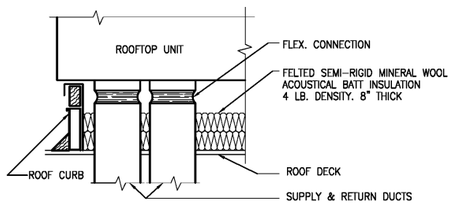
FAN SCHEDULE

UNIT NUMBER	EF-1	EF-2	EF-3	EF-4	SF-1
AREA SERVED	HOOD-1	HOOD-2	HOOD-3	RESTROOMS	HOODS
MANUFACTURER	CAPTIVE AIRE	CAPTIVE AIRE	CAPTIVE AIRE	CAPTIVE AIRE	CAPTIVE AIRE
MODEL	DU85HFA	NCA16HPFA	DU85HFA	DR12HFA	A2-G15
CFM	1250	2300	2100	375	2825
STATIC PRESSURE, "WG	1.75	1.25	1.25	0.375	1.0
FAN HORSEPOWER	0.75	1.0	0.75	0.18	1.5
DRIVE	DIRECT	BELT	DIRECT	DIRECT	BELT
RPM	1442	1223	1419	1165	716
ELECTRICAL V/PHASE/HZ	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60
ACCESSORIES	B,D,E,I,J,K,L	B,D,E,I,J,K,L	B,D,E,I,J,K,L	A,B,C,D,F,G,K,L	A,B,C,D,E,G,H,I,L

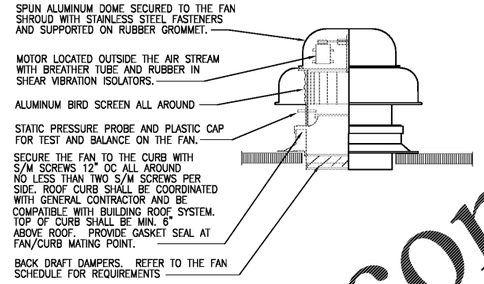
NOTES/ACCESSORIES
A. ALUMINIZED BIRDSCREEN
B. SAFETY DISCONNECT SWITCH
C. GRAVITY BACKDRAFT DAMPER
D. AMCA SEAL & U.L. CERTIFIED
E. HINGE KIT FOR CLEANOUT
F. PROVIDE WITH ROOF CURB
G. INTERLOCK WITH SALES FLOOR LIGHTS
H. ENSURE 10' – 0" MINIMUM CLEARANCE FROM EXHAUSTS AND VENTS
I. INTERLOCK PER NFPA 96 AND LOCAL CODES
J. ROOF CURB FOR DISCHARGE >40" ABOVE SURFACE OF ROOF
K. ENSURE 10' – 0" MINIMUM CLEARANCE FROM AIR INTAKES
L. COORDINATE WITH MANUFACTURER FOR FINAL SELECTION
M. SEE DRAWING H1 & H2 FOR KITCHEN HOOD FAN DETAILS.

AIR BALANCE SCHEDULE

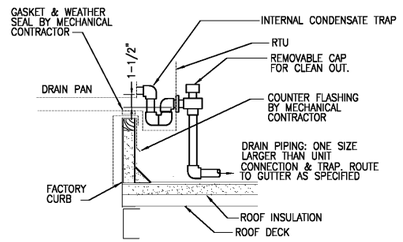
TAG	SUPPLY AIR	OUTSIDE AIR	RETURN AIR	EXHAUST AIR	BLDG. PRESSURE	% OUTSIDE AIR
RTU-1	3000 CFM	750 CFM	2250 CFM		+ 750 CFM	25
RTU-2	3275 CFM	750 CFM	2525 CFM		+ 750 CFM	23
RTU-3	3000 CFM	750 CFM	2250 CFM		+ 750 CFM	25
RTU-4	4000 CFM	1000 CFM	3000 CFM	---	+ 1000 CFM	25
RTU-5	1200 CFM	300 CFM	900 CFM	---	+ 300 CFM	25
EF-1	---	---	---	1250 CFM*	- 1250 CFM	---
EF-2	---	---	---	2300 CFM*	- 2300 CFM	---
EF-3	---	---	---	2100 CFM*	- 2100 CFM	---
EF-4			---	300 CFM	- 300 CFM	
SF-1	---	2825 CFM	---	---	+ 2825 CFM	---
TOTAL	14,475 CFM	6375 CFM	10,925 CFM	5,950 CFM	+ 425 CFM	24.5



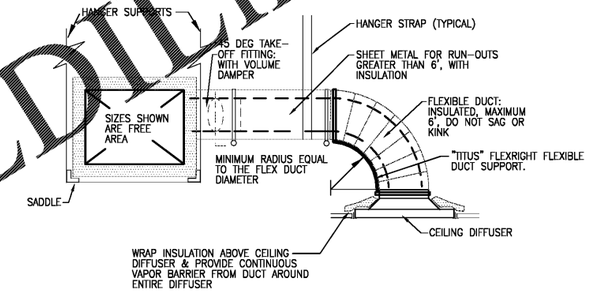
ROOFTOP UNIT MOUNTING DETAIL
NOT TO SCALE



CENTRIFUGAL ROOF EXHAUST FAN
NOT TO SCALE

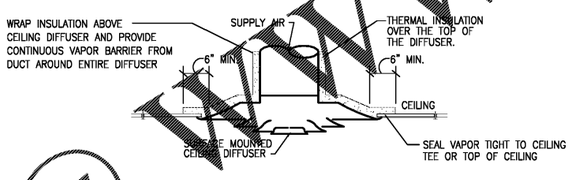


CONDENSATE DRAIN DETAIL
NOT TO SCALE

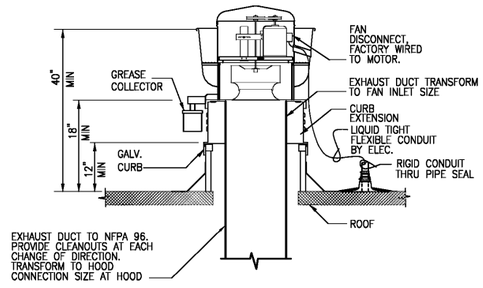


NOTE:
1. HANGER SUPPORTS SHALL BE PER SMACNA AND APPLICABLE SPECIFICATIONS.
2. ELBOWS SHALL BE SQUARE NECK (SAME IN AND OUT DIMENSION) WITH 2" DOUBLE THICKNESS TURNING VANES.
3. OFFSETS SHALL NOT EXCEED 30° ANGLE, AND SHALL NOT REDUCE THE FREE AREA OF THE DUCT.
4. TRANSITIONS SHALL NOT EXCEED 1:3 RATIO (4" TRANSITION PER FOOT SINGLE SIDED TRANSITION, AND 8" PER FOOT DOUBLE SIDED TRANSITION).
5. RECTANGULAR BRANCH CONNECTIONS SHALL BE 45° ENTRY TYPE, WITH METAL SLEEVE AND CLINCH LOCK CONNECTION. ENTRY LENGTH SHALL BE 25% OF BRANCH DUCT WIDTH.
6. ROUND BRANCH DUCT CONNECTIONS SHALL BE SPIN-IN FITTINGS, DAMPER AND HANDLE.

DUCT DETAIL
NOT TO SCALE



DIFFUSER DETAIL:
NOT TO SCALE



GREASE EXHAUST FAN SECTION
NOT TO SCALE

ELECTRIC WALL HEATER SCHEDULE

MARK	LOCATION	TYPE	WATTS	DIMENSIONS	VOLTS/PH/HZ	FLA	MODEL	NOTES
EWH	RISER ROOM	WALL	2000	17.5"Wx25"H	208/1/60	9.6	3450 SERIES	1,2

NOTES:
1. PROVIDE WITH DISCONNECT SWITCH & INTEGRAL ADJUSTABLE THERMOSTAT.
2. PROVIDE WITH SURFACE MOUNTING SLEEVE.

SELECTIONS ARE BASED ON MARKEL; EQUAL PRODUCTS: QMARK, RAYWALL

Order Plans @ WWW.LDILine.com

R-2002	
DATE	RELEASE
04.17.20	FOR CONSTRUCTION
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CHECKED BY:	MM
DRAWN BY:	TB

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ALABAMA
No. 37256-E PROFESSIONAL
ENGINEER
MATTHEW RYAN MERCER
4/22/2020

J.E. BRISCOE WAY & MADISON BLVD. MADISON, MADISON COUNTY ALABAMA
PROJECT: R-2002
DATE: 04/17/20

Bojangle's RESTAURANT

MECHANICAL SCHEDULES & DETAILS

M-4