



MECHANICAL SYM	BRANCH DUCT SIZE CHART								~					
DUCT (DUCTV	VORK)			SL	JPPLY		RE	TURN	_		ابه ۲۰۰۰ میں ۲۰۰۰ میں			
SUPPLY AIR DIFFUS	ER - ARROWS INDICATE ERN SHOWN EQUALS 4-WAY.	CFM		BRANCH DUCT SIZE(Ø")			BRANCH DUCT SIZE(Ø")		א")	15		<u>e</u> rf		a book to the second
RETURN AIR DEVICE		0-100		6		,	8			13-				
EXHAUST DEVICE		101-150		8			10		_	C.		-11X/1	ļ	
SUPPLY AIR SLOT D		151-250		8			10							10'
ROUND DUCT. DIAM	ETER INDICATED IN INCHES.	251-380		1	10		12		_			alver the yes	AT T	
20"X12" RECTANGULAR DUC FIRST NUMBER IS S	T. SIZE INDICATED IN INCHES,	381-550		12			14		_	<u> </u>			1	
	TO FLEX	751-950		14			16		_		9 –	ø	<u> </u>	
SINGLE LINE SUPPL		NTERIOR HE	LIX SHALL	BE ALUMINUM. 35				_				, ,		
								Ī	•					
SPIN-IN TAKE OFF-FI			•			PIED	UNOCC	UPIED		-		୍ରା	ТД	Ę.
		MARK	SERVICE	& LOCATION	COOLING	HEATING	COOLING	HEATING	6 %RH	_	-			r .
RETURN AIR DUCT.		(11)	RETAIL S	TORE	78	72	80	60	55	_				
RELIEF OR EXHAUS	T AIR DUCT.		RETAIL S		78	72	80	60	55	-				
DIFFUSER/GRILLE L <u>24x24,CD</u> - TYPE/DESIGNAT	ABEL:	VOTES:		TORE	10	13	00	00	55					Survey of
- AIRFLOW (CFM) - NECK SIZE (INCI	HES)	1. CONTRACTOR SHALL COORDINATE EXACT OPERATIONAL TIMES WITH OWNER/MANAGER PRIOR TO PROGRAMMING.									Although states	Ô		1
90 DEGREE DUCT EI	LBOW.	REFERENCE NOTES								8	E		ø	-AT
RADIUS DUCT ELBO ROUND OR RECTAN	W - GULAR.													
RECTANGULAR DUC	T BRANCH TAKE-OFF	1 PROVIDE THE PIPE SUPPORTS FOR ALL PVC CONDENSATE PIPING SPACING AT A MINIMUM 4'-0" ON CENTER PER FBCM										ļ		
		SECTION 305.4. SUPPORTS EQUAL TO KNUCKLEHEAD WITH PIPE CLAMP.						1 Y. 1			4			
FLEX DUCT (DIFFUS	ER CONNECTION).			ALL NEW RO		UNITS V		E-FABR	ICATED		44			
ROUND DUCT BRAN	CH TAKE-OFF FROM N WITH CONICAL TAP.											1		
DUCT SIZE TRANSIT	10N.				ATIONS,	AND OF	ENING S		<u>-</u>		F		ø"(- AT
		ME	MBERS	AND EQUIF	PMENT C	URBS.	2.110						1	
SA DUCT, SPIN-IN DA TO AIR DEVICE WITH	AMPER, FLEX DUCT		INTAIN AKE. CO	10 FOOT CL ONTRACTO	EARANC		1 ANY FR FY AND	ESH A	IR AIN A 2!	5	1		¥Ц	
220 REQUIRED CFM		FO	OT RAD AKE.	IUS FROM	THE ADJ	ACENT	ENANT'	S FRES	SH AIR					
		∕₅∖co	NDENS	ATE DRAIN	SHALL B		SE TO P	ROPE	२					
	JP		CATION	PER FBCP	SECTION	N 314.2.1				8	1.111 M	Lilijandan kolože	and and a second	a da
	DOWN	6 FOI	'NER SH R NEW	IALL COOR	DINATE	WITH ST VIDED C	RUCTUF	RE ENG & GET	SINEER		ł	Lat. 14	<u></u>	hatialanda
RELIEF OR EXHAUS	T AIR DUCT UP	API RO	PROVAL OF.	BEFORE F	PLACING	ROOF		S ON T	THE		1			
RELIEF OR EXHAUS	T AIR DUCT DOWN													
	DROP (RISE) IN DUCT								R	OOF TO	OP A/C	UNIT S	SCHE	DUL
	JCT									VB)	WB)			
	DUCT							3H)	MBH)	(DB/V)(DB/			2
TURNING VANES		Mark						ty (ME	ac. (I	o.(F) (np.(F)		er kW	ing kV
DUCT EXTRACTOR			cturei	<u>_</u>	į	otal	A	apacit	e Cap	Temp	ir Ter	M.G.	Powe	Heat
SPLITTER DAMPER/	W NECK SIZE		anufa		-	FM T ₆	0 M	otal C	ldisne	nt. Air	av. A	S.P.(/stem	ectric
DUCT MOUNTED HE	ATING COIL	RTU-1	∑ Carrier	≥ 50TC-A07	E A2B50A0	2400	0 200	Ĕ 73.20	ഗ് 56.25	ய் 77.5/65.1	ے 55.7/55.1	ші 0.5	රා 5.05	<u>田</u> 4.9
DUCT (DUCTWORK	() CONT.	RTU-2 RTU-3	Carrier Carrier	50TC-A07 50KCA06	A2B50A0 A2B50A0	2400 2000	200 ⁻ 200	73.20	56.25 -	77.5/65.1	55.7/55.1 -	0.5	5.05 5.05	4.9
	IMIDIFIER	Rema	arks:											
MOTORIZED DAMPE	R	1. 2.		Provide 1 Provide s	" thick 30 moke det	% throwa	way filter	. farr 30 ct in acc)/30 or e cordance	qual. e to section	606 of FE	BCM 6th	edition 2	2017.
DAMPER TYPE:				initiate a s alarm con	supervisor trol syste	ry signal <mark>m , smol</mark>	to the bui	lding fir <mark>or shall i</mark>	e alarm initiate s	control pan upervisory	el. the sur signal to a	oply fan s audible/vi	shall be c isual sign	de-en <mark>nals f</mark>
OPPOSITE BLADE M	ANUAL DAMPER	<mark>3.</mark>		than 6 fee Provide 2	et aff. com 4 v contro	ply with ply for a pr	nfpa 90a (ogramma	<mark>chapter</mark> Ible 24,	6, secti 7-day ti	on 6.4.4.3. me clock t's	and FBC stat or con	M 6th edi nbination	ition 201 of therm	<mark>7 sec</mark> nosta
FD/AD FIRE DAMPER W/AC	CES DOOR R W/ACCES DOOR	4		to determ	i, capabilit ine the nu	ty of setb Imber of	ack to 55 stages re	of(heat) quired f) and 85 or heati	ng or coolin	day clock ig to provi	, 2 hour c de accura	ate temp	t over peratu
FD4 FIRE DAMPER		4. 5.		N/A. Outside a	ir for vent	ilation ar	e calculat	ed usin	g florida	building co	ode chapte	er 4 FBCI	M 6th ed	lition 2
		ο. 7. ջ		N/A.				natch		of compros	sor			
BAROMETRIC BY-PA	SS DAMPER (BBD) R (BDD)	0. 9. 10	Provide 5 minute time delay to prevent short cycling of compressor. Provide phase loss protection for three phase units. Water lovel monitoring device shall be installed inside primary drain pap of down flow unit is									in acc		
EXISTING TO REMAI	N	11		provisions Provide a	s for the ir	Installation	of secor	ndary or	auxiliar	y drain. t high press	sure switc	h and lo	w amhie	ant he
	VE	12.		Model Nu	mber for a	AC units	are provi	de to es	stablish	standard of	quality ar	id necess	sary spe	cifica
	E INSTALLED									AIR DIS	TRIBUT	TON S	CHED	ULE
								(ALL	SYMBO	DLS SHOW	N ARE NO	OT NECE	SSARIL	Y US
CD CONDENSATE DRAIN	(COLD) GRAVITY	Mark						otion						
REFRIGERANT HOT C	D LINE							escriț						
	OUS	CD		Ceiling	Diffuser -	Square a	nd Recta	ngular v	vith opp	osed blade	volume da	amper.		Al
SD DUCT SMOKE DETEC	TOR	DG			Trans	fer Grille	fixed 45°	' angle,	Blade w	rith 1/2" spa	acing.			Alı
T SPACE THERMOSTA	r –	EAL RAG		Exhaust A	Air Louver	, Flange	Frame wit Equ	th Bird S crate Re	Screen, [*] eturn	Wind Driver	n Rain typ	e Louver		Alı
H HUMIDISTAT		REG-1					Spiral D	uct Grill	e Retur	<u> </u>				Al
	SOR						Opilal D			•				
T SPACE THERMOSTA	T WITH REMOTE SENSOR	Rema	arks:	Paint f	lat black i	nside of	ducts beh	ind grill	es. prov	ide duct co	llar with a	ll grilles.		
THERMOSTAT/HUMID	DISTAT	2. 3.		See ar Provid	chitectura e surface	al ceiling mount b	plan for fr order for	ame typ hard ce	be. iling.			0		
PNEUMATIC TUBING	OR CONTROL WIRING	4. 5.		Provid Insulat	e with ple ed plenur	num. n.			-					
A DRAWING NOTE REF	ERENCE									FXHΔ				IF
										-////				
				Ľ					fe			of wat		
M-2 SECTION MARK & PA	GE	Mark		acture			ON		k Ra	Ē	5	thes c		
OCCUPANCY SENSOR.	NECTION			lanuf:		-	lodel		vir Flo	ncatic		P. inc	Md	
	N	EF-1		<u>≤</u> Greenhec	k	SP	A90	75	CFM	RESTR	ROOM	0.20	900	2
		Rema	arks:	Operat	te with wa	all switch								
		2. 3.		Operat Operat	te with Oc te with tim	cupancy ner switch	sensor a າ.	nd Ove	rrides S	witch.				
REFER TO	/BER	4. 5.		Provid Provid	e Speed (e support	Controlle Rods an	rs. d Vibratic	on Isolat	tor.					
	$\mathbf{\tilde{\mathbf{x}}}$	6.		Provid	e Bird Sci	reen Prot	ection.							
	$\left(\begin{array}{c} 3\\ \overline{M4.01} \end{array} \right)$	7.		Provid	e vveatne	r Hood.								
SHEET NUMBER	M4.01	7. 8. 9.		Provid Provid Contra	e Weathe e Backdra ictor shall	er Hood. aft Damp coordina	er (BDD). ite voltage	e select	ion with	this Projec	t provide t	ransform	ner if nec	essa













RTU-1 / RTU-2/RTU-3												
AREA CLASS	SIFICATION	SQ.FT	OCCUPANCY	Rp [CFM/PERSON]	Ra [CFM/SF]	EXHAUST RATE [CFM/SF]		CALCULATION				
SALE /	AREA	2400	36	7.5	0.12	-		36 PERSONS x 7.5 CFM/PERSON + 2400 SF x 0.12 CFM/SF				
STOR	AGE	221	-	-	0.06	-		221 SF x 0.06 CFM/SF				
								TOTAL OUTSIDE AIR REQUIRED [CFM]				
								TOTAL OUTSIDE AIR PROVIDED [CFM] (RTU-1)+(RTU-2)+(RTU-3) (200)+(200)+(200)				
PROJECT OUTDOOR DESIGN CONDITION							Pf					
DESIGN LOCATION	SUMMER MAXIMUM SUMMER MAXIMUM DESIGN TEMPERATURE (°F) DB HUMIDITY (RH%)			WI TEM	NTER MINIMU	JM (°F)	SPACE SERVED	DESIGN	1			