₿ RETURN AIR SUPPLY AIR EXHAUST AIR SUPPLY AIR RETURN AIR DIFFUSER DIFFUSER DIFFUSER GRILLE CONSTRUCTION MATERIAL ALUMINUM STEEL STEEL STEEL STEEL STEEL 유 유 유 유 유 유 유 FINISH WHITE WHITE WHITE WHITE GRILLE SUTIT SUTIT SUIII SUIII SUIII SUTIT FL-15-JT 355RL 355RL 30RL TDC 50F PAR TDC EXPOSED T-BAR CEILING FRAME STYLE WITH A 48" X 24" F. AND 22" X 46" NECK SIZE (1)

EXPOSED T-BAR CEILING FRAME STYLE WITH A 24" X 24" F. AND 22" X 22" NECK SIZE (1,2)

EXPOSED T-BAR CEILING FRAME STYLE WITH A 24" X 24" FAC SIDEWALL GRILLE, HEAVYDUTY 3/8" SPACING, O' DEFLECTION.

CEILING MOUNTED WITH A 12½" X 12½" FACE.

9 X 9 NECK (1)

EXPOSED T—BAR CEILING FRAME STYLE WITH A 24" X 24" FACE. CONTINUOUS FLO DEVICE LOCATIONS WITH ARCHITECT. DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED. (1)
FLOWBAR, JET THROW WITH 1—SLOT 1.5" WIDTET WITH FBPI—30 INSULATED TITUS PLENUM(1) FACE EGGCRATE GRILLE, ALUMINUM, 12" X 12" SURFACE MOUNT.

				D,	DAMPER		
	MARK	ACTUATOR	DUTY	BLADE ACTION	MANUFACTURER	MODEL NUMBER	REMARKS
	D-1	MANUAL BALANCING	UNDER 9" WIDE	N/A	N/A	N/A	SEE SMACNA CONSTRUCTION DETAILS REFERENCED "TYPICA" CONSTRUCTION DETAILS FOR LOW VELOCITY DUCTS."
	D-2	MANUAL BALANCING	OVER 9" WIDE	OPPOSED	RUSKIN	MD-35	MANUAL DAMPER WITH STANDARD CONSTRUCTION FEATURES AND VENTLOCK $\#639$ LOCKING REGULATOR.
	D-3	MOTORIZED	OVER 9" WIDE	OPPOSED	RUSKIN	CD-60	LOW LEAKAGE DAMPER WITH BLADE SEALS
<u> </u>	NOTES:						

MECHANICAL SPECIFICA TIONS

THE EXHAUST FANS SHALL BE MANUFACTURED BY GREENHECK, PENN THE CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES. ALL VOLTAGES AND POWER REQUIREMENTS SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR. CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL AIR CAPPURTENANCES REQUIRED BUT NOT SHOWN SHALL BE PROVIDED. OR COOK.

SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE METAL EXTERNALLY WRAPPED WITH 1-1/2" MINIMUM DUCT INSULATION SEALED WITH BENJAMIN FOSTER 32-14. THE INSULATION SHALL BE MANUFACTURED BY OWENS CORNING, SCHULLER, KNAUF, OR CERTAINTEED. THE INSTALLED R-VALUE OF THE INSULATION SHALL BE R-6 OR BETTER WITH VAPOR BARRIER. THE INSULATION SHALL BE STAPLED ON 6" CENTERS AND SEALED WITH PRESSURE SENSITIVE TAPE. THE R-VALUE MUST BE INDICATED ON THE EXTERIOR SIDE OF THE INSULATION FOR THE CITY INSPECTOR TO VERIFY.

DUCTWORK SHALL BE GALVANIZED SHEETMETAL CONSTRUCTED TO SMACNA STANDARDS FOR 2" WG PRESSURE. EXHAUST DUCTS SHALL BE CONSTRUCTED TO 2" NEGATIVE PRESSURE SEAL ALL SEAMS IN THE DUCT WITH HARDCAST IRON GRIP UNLESS OTHERWISE INDICATED.

FLEXIBLE DUCTWORK TO BE INSULATE WITH R-6 INSULATION. INSULATION SHALL BE UL 181 LABELED. PROVIDE WITH 1" OVERLAP. INSTALL AND SUPPORT PER MANUFACTURERS INSTRUCTIONS. INSULATED FLEXIBLE DUCTWORK TO BE 20/50 RATED FOR SMOKE AND FLAME. MAXIMUM LENGTH SHALL BE 6'-0". THE AIR DEVICES SHALL BE MANUFACTURED BY TITUS,

THE ROOF TOP UNITS W/ ELECTRIC HEAT SHALL BE MANUFACTURED BY TRANE, CARRIER, PROVIDE UNITS WITH FACTORY MOUNTED DISCONNECT HEAD PRESSURE CONTROL TO OPERATE DOWN TO 20°F AMBIENT, AND SHORT CYCLE CIRCUIT. PROVIDE 2" THROW-AWAY FILTERS. PROVIDE COMPRESSOR WITH FIVE YEAR WARRANTY, VIBRATION ISOLATION, SERVICE VALVES, CRANK CASE HEATER, SIGHT GLASS AND FILTER DRYER. PROVIDE UNITS WITH 7-DAY PROGRAMMABLE THERMOSTAT WITH AUTOMATIC CHANGE-OVER AND TEMPERATURE SENSOR. THE CONTRACTOR SHALL INSTALL UNIT PER MANUFACTURER INSTRUCTION. ALL CONTROL WIRING BY MECHANICAL CONTRACTOR.

CONDENSATE DRAIN TO BE PVC WITH DRAINAGE PATTERN FITTINGS. CONDENSATE DRAIN PIPING IN PLENUM AREAS OR BELOW ROOF SHALL BE TYPE "L" COPPER WITH DRAINAGE PATTERN FITTINGS. PROVIDE CLEANOUTS EVERY 50 FEET AND AT EACH CHANGE OF DIRECTION. MAINTAIN POSITIVE SLOPE AND SUPPORT TO PREVENT SAGGING. INSULATE PIPING WITH 3/4" ELASTOMERIC INSULATION FOR ALL PIPE BELOW ROOF. SUPPORT PIPING IN THE VERTICAL. INSULATION TO BE 20/50 FLAME AND SMOKE RATING. CONDENSATE PIPING ON ROOF TO BE SUPPORTED BY 4"x4" PRETREATED REDWOOD BLOCKS AND SPACED 4"-0" ON CENTER AND AT EACH CHANGE OF DIRECTION. SECURE PIPE TO BLOCKS WITH NON CORROSIVE PIPE STRAPPING.

HVAC SUBCONTRACTOR TO OBTAIN A 3RD PARTY CERTIFIED AIR BALANCE TEST AND BALANCE NEWLY INSTALLED EQUIPMENT. MUST BE COMPLETE INSPECTION. FILTERS IN TO BALANCING. CONTRACTOR TO PRIOR TO FINAL

COMPLETION REQUIREMENTS **ENERGY** CODE

THE FOLLOWING REQUIREMENTS ARE MANDATORY FOR COMPLIANCE WITH THE CODE.

DRAWINGS:

CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT WITHIN 90 DAYS AFTER THE CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE RECORD DRAWINGS OF THE ACTUAL INSTALLATION BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER. RECORD DRAWINGS SHALL INCLUDE AS A MINIMUM THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT, GENERAL CONFIGURATION OF THE DUCT AND PIPE DISTRIBUTION SYSTEM INCLUDING SIZES, AND THE TERMINAL AIR OR WATER DESIGN FLOW RATES. MANUALS:

CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT AN OPERATING MANUAL AND A CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT AN OPERATING MANUAL AND A CONSTRUCTION DOCUMENTS OF THE BUILDING OWNER WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE. THESE MANUALS SHALL BE IN ACCORDANCE WITH SYSTEM ACCEPTED STANDARDS (SEE APPENDIX E) AND SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:

AN/COIL

A. SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. OPERATIONS

B. MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.

C. NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY.

D. HVAC CONTROL SYSTEMS MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRED DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD—DETERMINED SET—POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR, FOR DIGITAL CONTROL SYSTEMS, IN PROGRAMMING COMMENTS.

E. A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING SUGGESTED SET POINTS. SECTION 6.7.2 — 2008 HOUSTON COMMERCIAL ENERGY CONSERVATION CODE

DUCTS SEALING:
DUCTWORK AND PLENUMS SHALL BE SEALED IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA METHOD A. SECTION 6.4.4.2.1 — 2008 HOUSTON COMMERCIAL ENERGY CONSERVATION CODE

EXCEPTION:
FACTORY INSTALLED PLENUMS, CASINGS OR DUCTWORK FURNISHED AS A PART OF HVAC EQUIPMENT TESTED AND RATED IN ACCORDANCE WITH 6.4.1 SECTION 6.4.4.1.2 — 2008 HOUSTON COMMERCIAL ENERGY CONSERVATION CODE. INSULATION: ALL SUPPLY AND RETURN DUCTS AND PLENUMS INSTALLED AS PART OF AN HVAC AIR DISTRIBUTION SYSTEM SHALL BR THERMALLY INSULATED IN ACCORDANCE WITH THE TABLE 6.4.4.1.1

SYSTEM BALANCE:

CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT ALL HVAC SYSTEMS BE BALANCED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS (SEE APPENIX E) CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT A WRITTEN BALANCE REPORT BE PROVIDED TO THE OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER FOR HVAC SYSTEMS SERVING ZONES WITH A TOTAL CONDITIONED AREA EXCEEDING 5000 FT2 SECTION 6.7.2.3.1 – 2008 HOUSTON COMMERCIAL ENERGY CONSERVATION CODE. NOTE: PROVIDE THE EXISTING ROOF DECK INFORMATION TO DETERMINE IF R—6 OR R—8 INSULATION TO BE USED FOR THE DUCTS AND FLEX.

CORRIDOR
LOBBY
STORAGE ROOM
OFFICE
SALES FLOOR

AIR REQUIRED

164.2 CFM 340 CFM

31 CFM 6.75 CFM 4.75 CFM 61.2 CFM 63.5 CFM

CORRIDOR
LOBBY
STORAGE ROOM
OFFICE
COMPUTER ROOM
SALES FLOOR

OCCUPANCY

(2006 UNIFORM I

CULATIONS HOUSTON AMENDMENTS)

			-ACE.(1)		ACE.(1)	FACE	FACE	-ACE.(1)			
EF-1	MARK		i>	GENE 1.		RTU-3	RTU-2	RTU-1	MARK		
<u>-</u>			LOSS. CO MINIMUM NON-SER CLEARANC CLEARANC MANUFAC CONTROL MAINTAIN	GENERAL NOTES: 1. EXTERNAL DAMPERS, AND UNIT		3 2,000	2 3,400	1 3,400	ļ		
CASHIER	LOCATION		ORDINATE RECOMMEI RECOMMEI VICE SIDE FOR FOR DOORS DOORS MINIMUM	STATIC F AND DUC CASING I		200	340	340	M AIR CFN	INDOOR AIR	
ĒR	TION		MINIMUM RECOMMENDED CLEARANCE AROUND ROOFTOP UNIT IS 12 INCHES ON MINIMUM RECOMMENDED CLEARANCE AROUND ROOFTOP UNIT IS 12 INCHES ON NON—SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY ROOFTOP UNIT CLEARANCE FOR CONDENSER AIR FLOW AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON ROOFTOP UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.	RAL NOTES: EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL		0.70	1.10	1.10	SUPPLY OUTSIDE EXT. STATIC AIR CFM AIR CFM PRESSURE (IN. W.C.)	₹ AIR FAN	
100	CFM		RICIAN. RICIAN. ANCE ARC NCHES ON AIR FLOW AIR FLOW AUM CLEA UNIT FOF CLEARANC	CLUDES I		0.90	2.17	2.17	HORSE POWER (BHP)		P
1,100	MAXIMUM RPM		JUND ROO JUN	OSSES DUER COILS		80.0	80.0	80.0	AIR TE NTERING DRY BULB		ACK
0.35	EXT. STATIC PRESSURE (IN. W.C.)		FTOP UNIT SIDES. M SIDES. M MMENDED REQUIREI , MAINTEN, VUIRED BY	JE TO DUI WHERE A STATIC PR		67.0	67.0	67.0	AIR TEMPERATURE (*F) ENTERING ENTERING OUTDOOR DRY BULB WET BULB AMBIENT		PACKAGED
			MEEL YOU AINTAIN MI BY ROOFI) TO OPER ANCE, AND NEC.	CTWORK, A		95.0	95.0	95.0	E (°F) OUTDOOR AMBIENT		
1/6 115	HORSE CU POWER CH		2 INCHES ON N MINIMUM OOFTOP UNIT OPEN ACCESS AN AND INSPECTION.	IR DEVICES, DIRTY FILTER DO OBTAIN TOTA		62.3	102.1	102.1	MIN. TOTAL MIN. CAPACITY C. (MBH)	COOLING	RO
115/1/60	CURRENT CHARAC.	_	AND ON.	S, LTER TOTAL		48.1	76.7	76.7	CAPACIT (MBH)		OFT
LIGHT	LOCALLY SWITCHED BY	FAN	6. 5.4.4.	REMARKS: 1. PRO 2. PRO SEP		-/13.0	11.2	11.2	IBLE MINIMU TY EER		ROOFTOP UNIT
			PROVIDE PROVIDE PROVIDE THIS DEV BECOMES MECHANIC UNIT IS P	RKS: PROVIDE UNIT WITH PROVIDE UNIT WITH SEPARATE CIRCUIT.		0 1	2	2	NUMBER OF STAGES		IND
1	INTERLOCKED WITH		PROVIDE UNIT WITH LO PROVIDE A 7 DAY PROPROVIDE A WATER LEVER THIS DEVICE SHALL SIBECOMES RESTRICTED. MECHANICAL CONTRACTONIT IS PROVIDED WIT			66.5	66.5	66.5	ENTERING AIR TEMP. (*F)		•
ROOF MOUNTED	FAN TYPE		PROVIDE UNIT WITH LOW AMBIENT CONTROL. PROVIDE A 7 DAY PROGRAMMABLE THERMOSTAT. PROVIDE A WATER LEVEL SENSING DEVICE (FLOW SWITCH) IN THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE APPLIANCE IN THE EVENT THE PRIMARY DRAIN LINE BECOMES RESTRICTED. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL COSTS IF ALTERNATE UNIT IS PROVIDED WITH GRATER ELECTRICAL CHARACTERISTICS THEN SHOWN.	DISCONNECT SWITCH & ROOF CURB. FACTORY MOUNTED GFCI RECEPTACLE FOR ELECTRICIAN TO WIRE		48.0	96.0	96.0	IIN. SENSIBLE MINIMUM NUMBER ENTERING MIN.CAPACITY CAPACITY OF AIR OUTPUT (MBH)	GAS HEATING	GAS HEAT
			THERMOS THERMOS DEVICE (APPLIAN ONSIBLE I ECTRICAL	WITCH &		80	80	80	AGA EFFICIENCY (%)		HEA
GREENHECK	MANUFACTURER		STAT. FLOW SWITC CE IN THE -OR ALL EL CHARACTER	ROOF CURE		460/3/60	460/3/60	460/3/60	CURRENT CHARAC.	ELECTRICAL REQUIREMENTS	T
			H) IN THEVENT TO	3. _E FOR		15.5	21.9	21.9	MCA N	REQUIREN	
8B	MODEL NUMBER		HE PRIM. HE PRIM COSTS HEN SHO	ELECTRIC		25 YS	25 YS	25 YS	MOCP B		
(1,2	REM		ary draii ary drai if alter dwn.	M TO W		YSC060 1,2	YSC102 1,2	YSC102 1,2		STINITS	
(1,2,3,4)	REMARKS		N PAN. N LINE NATE	WIRE TO		1,2,3,4,5,6	1,2,3,4,5,6	1,2,3,4,5,6	REMARKS		

	MARK	LOCATION	CFM	MAXIMUM RPM	EXT. STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHARAC.	LOCALLY SWITCHED BY	INTERLOCKED WITH	FAN TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
	EF-1	CASHIER 109	100	1,100	0.35	1/6	115/1/60	LIGHT	ı	ROOF MOUNTED	GREENHECK	GB	(1,2,3,4)
YPICAL	EF-2	JEWELERS 111	550	1,200	0.45	1/4	115/1/60	WALL	ı	ROOF MOUNTED	GREENHECK	GB	(1,2,3,4)
5 5	EF-3	LOAN COUNTER	85	1,100	0.35	1/6	115/1/60	LIGHT	ı	ROOF MOUNTED	GREENHECK	GB	(1,2,3,4)
?	EF-4	TOILET 122	75	800	0.25	50(W)	115/1/60	LIGHT	ı	CEILING	GREENHECK	Sp	(2,5)
	EF-5	TOILET 121	75	800	0.25	50(W)	115/1/60	LIGHT	ı	CEILING	GREENHECK	SP	(2,5)
	EF-6	JANITOR 123	75	800	0.25	50(W)	115/1/60	ПСНТ	ı	CEILING	GREENHECK	Sp	(2,5)
DS01													
	GENERAL NOTES:	<u>IOTES:</u>						REMARKS: 1.	PROVIDE MOTORIZED DAMPER	DAMPER.			
S	1. EXTERNAL DAMPERS, AND UNIT	EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL	ACLUDES LODED TO E	OSSES DUE ER COILS W	TO DUCTWOR HERE APPLICATIC PRESSUR	ABLE. DIR	VICES, TY FILTER	2	REFER MANUFACTUF ROOF MOUNTED BE PROVIDE WITH ROO	REFER MANUFACTURER FOR INSTALLATION GUIDE. ROOF MOUNTED BELT DRIVEN DOWNBLAST CENTRIFUGAL EXHAUST FAN PROVIDE WITH ROOF CURB AND ELECTRICAL DISCONNECT SWITCH.	ON GUIDE. AST CENTRIFUGAL TRICAL DISCONNEC	EXHAUST FAN. T SWITCH.	
SARY	2. MININ AND OPEN	INCREASE HORSEPOWER AS REQUIRED TO MEET TOUR TOTAL PRESSOR PRESSORE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET TOUR TOTAL PRESSOR LOSS. COORDINATE WITH ELECTRICIAN. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIT AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.	RICIAN. RICIAN. ANCE ARO SIDES. MAIN JOORS ON ELECTRIC.	OND UNIT IS TAIN MINIMI TOR SELECTION OF THE PROPERTY OF THE P	12 INCHES 12 INCHES M CLEARANC SERVICE, MAIN CE AS REQUII	ON NON- E AS REC VITENANCE,	VICE SII	ί ν	PROVIDE BACK DRAFT DAMPER.	YFT DAMPER.			
오'	3. FAN	FAN SHALL BE CENTRIFUGAL, BELT DRIVEN TYPE UNLESS OTHERWISE SCHEDULED.	BELT DRIVE	IN TYPE UNI	ESS OTHERW	ISE SCHE	DULED.						

				GENER 1. E A P P 2. N 2. N	FCU-1	MARK	
				GENERAL NOTES: 1. EXTERNAL SI DAMPERS, AI AND UNIT CA PRESSURE L COSS. COORI LOSS. COORI 2. MINIMUM REC AND 30 INCI OPEN ACCES INSPECTION.	290/224	SUPPLY AIR CFM HIGH/LOW	
				TATIC PRESING MUST ASING MUST OSS. INCREDINATE WITH COMMENDED ON SEARCH ON S	ı	OUTSIDE AIR CFM	
				AL NOTES: EXTERNAL STATIC PRESSURE INCLUDE: DAMPERS, AND DUCT MOUNTED HOT V AND UNIT CASING MUST BE ADDED TO PRESSURE LOSS. INCREASE HORSEPO LOSS. COORDINATE WITH ELECTRICIAN. MINIMUM RECOMMENDED CLEARANCE / AND 30 INCHES ON SERVICE SIDES. I DPEN ACCESS AND CONTROL DOORS NSPECTION. MAINTAIN MINIMUM ELECT	0.001	EXT. STATIC HORSE PRESSURE POWER (IN. W.C.)	FAN
				DES LOS: T WATER TO EXTE POWER A AN. E AROUN S. MAINTA RS ON UT ECTRICAL	13(W)	HORSE	
	_			SES DUE TO COILS WHE COILS WHE STATE STATE IS REQUIRED UNIT IS UNIT FOR SECLEARANCE	13(W) 115/1/60	CURRENT CHARAC.	
RV-1	MARK			D DUCTWOR RE APPLICA IC PRESSUF D TO MEET D TO MEET NUCHES CLEARANC RVICE, MAIN AS REQUIF	75	AIR TEMPERATURE ENTERING ENTER DRY BULB WET BI	
225	CFM			EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESS PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESS LOSS. COORDINATE WITH ELECTRICIAN. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SAND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.	62.5	ERATURE (°F) ENTERING WET BULB	
0.001	MAX. S.P. (IN.)			EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.	8,600	MIN. TOTAL CAPACITY (BTUH)	8
2.25	THROAT AREA (SQ. FT.)	RE		<u>REMARKS:</u> 1. CARR REFRI	ı	MIN. SENSIBLE CAPACITY (BTUH)	COOLING
GR	GREENHECK MODEL NO.	RELIEF VENT		<u>RKS:</u> CARRIER WALL MOUNTED AIR HANDLER MODEL 40GXC009 OR APPROVED REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.	-/16.0	E MINIMUM EER/ SEER	
GRSR	IHECK DEL).	VE		S TO BE	_	NUMBER OF STAGES	
		H		R HANDLER SIZED PER		ENTERING AIR TEMP. (*F)	
EF-(4,5,6)	SERVES			MODEL 4 MANUFAC	NO	MINIMUM CAPACITY (BTUH)	ELECT
6)	0 ,			OGXC009 TURER'S F	NO HEATING	NUMBER OF STAGES	ELECTRIC HEATING
				OR APPR REQUIREMI		S B	ရ
(1,2)	REMARKS			OVED EQUAL. ENTS.		CURRENT CHARAC.	
	G		AS1	JAL.	(1)	REMARKS	

		조	YELIET VENI		
ARK CFM	MAX. S.P. (IN.)	THROAT AREA (SQ. FT.)	GREENHECK MODEL NO.	SERVES	REMARKS
V-1 225	0.001	2.25	GRSR	EF-(4,5,6)	(1,2)
<u>(EMARKS:</u>) PROVIDE WITH ROOF CURB.) PROVIDE WITH BIRD SCREEN	OF CURB. RD SCREEN.				

	AIR (AIR COOLED CONDENSING UNI	ED CC	ONDE	NSIN	G UN	П
MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (F)	MINIMUM EER/ SEER	NUMBER OF STAGES	CURRENT CHARAC.	RELATED UNIT MARK	REMARKS
CU-1	8,600	95	16	<u> </u>	115/1/60	FCU-1	(1,2)
GENERAL NOTES:	TES: M RECOMMENDED	CLEARANCE ARO	UND ROOFTOP	UNIT IS 12	INCHES ON NO	N-SERVICE SIDE	S AND 30 INCHES ON
SERVICE MANUFA SERVICE	E SIDES. MAINTAI ACTURER. MAINTAI E, MAINTENANCE,	N MINIMUM CLEAN MINIMUM CLEAN AND INSPECTION	ARANCE FOR ARANCE AS RE	CONDENSER QUIRED TO (NIMUM ELEC	AIR FLOW AS FOR ACCESS A	RECOMMENDED AND CONTROL I	SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.
REMARKS:							

		1	<u> </u>	_	
REGISTRATION # F-4111	10930 W. Sam Houston Parkway N., Suite 900 Houston, Texas 77064 (281) 664-1900	HOUSTON DALLAS/FT. WORTH BATON ROUGE	KALMANS MARSHALL ENGINEERING, NC.		KME PROJECT # 030ff0f3
	Suite 900 -1900	ATON ROUGE			

PROVIDE WITH LOW AMBIENT COOLING CONTROL AND CARRIER MODEL 38GXC009 OR APPROVED EQUAL.

MECHANICAL SCHEDULES

CHECKED BY

DRAWN BY PROJECT NO. 08.31.2011 1102100

1014 West Gray Street Houston, Texas 77019

Shaw's Jewelers

Shaw's Jewelers West Gray 1021 West Gray Ave. Houston, Texas

Hermes Architets

Members A.I.A. Houston, Texas 77027

1177 West Loop South, Ste. 500 Tel. 713-785-3644 www.hermesarchitects.com

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