

SUPPLY GRILLE SCHEDULE (S.G.)											
NO.	TYPE	CFM RANGE	NECK/FACE SIZE	INLET DUCT DIA.	MAT'L	VOL DMPR	FINISH	FRAME	THROW	MODEL	REMARKS
5-6	LOUVER	0-75	24 X 24	6"	ALUM.	(1)	WHITE	LAY-IN	4-WAY	TMS-AA	"TITUS"
5-8	LOUVER	76-275	24 X 24	8"	ALUM.	(1)	WHITE	LAY-IN	4-WAY	TMS-AA	"TITUS"
5-10	LOUVER	276-375	24 X 24	10"	ALUM.	(1)	WHITE	LAY-IN	4-WAY	TMS-AA	"TITUS"
5-12	LOUVER	375-550	24 X 24	12"	ALUM.	(1)	WHITE	LAY-IN	4-WAY	TMS-AA	"TITUS"
5-14	LOUVER	551-750	24 X 24	14"	ALUM.	(1)	WHITE	LAY-IN	4-WAY	TMS-AA	"TITUS"

- ACCEPTABLE MANUFACTURERS: TITUS, KRUEGER, CARNES, SHOEMAKER.
- NOT ALL SUPPLY GRILLES SCHEDULED ARE USED ON THE PROJECT.
- PROVIDE R-6 MOLDED BACKED INSULATION BLANKET.
- BRANCH DUCT SIZE TO GRILLE SHALL BE SAME SIZE AS NECK UNLESS OTHERWISE NOTED.
- (1) VOLUME DAMPER AT THE GRILLE INDICATED BY A "D" AFTER THE GRILLE DESIGNATION. EXAMPLE: S65D-6 IS S65-6 WITH A DAMPER.

RETURN GRILLE SCHEDULE (RG)										
NO.	TYPE	MAX. CFM	NECK/FACE SIZE	FLEX. DUCT DIA.	MAT'L	VOL DMPR	FINISH	FRAME	MODEL	REMARKS
2-6	EGG CRATE	75	24 X 24	6"	ALUM.	(1)	WHITE	LAY-IN (3)	50F (5)	"TITUS"
2-8	EGG CRATE	250	24 X 24	8"	ALUM.	(1)	WHITE	LAY-IN (3)	50F (5)	"TITUS"
2-10	EGG CRATE	450	24 X 24	10"	ALUM.	(1)	WHITE	LAY-IN (3)	50F (5)	"TITUS"
2-12	EGG CRATE	750	24 X 24	12"	ALUM.	(1)	WHITE	LAY-IN (3)	50F (5)	"TITUS"
2-14	EGG CRATE	1,100	24 X 24	14"	ALUM.	(1)	WHITE	LAY-IN (3)	50F (5)	"TITUS"
2-16	EGG CRATE	1,600	24 X 24	16"	ALUM.	(1)	WHITE	LAY-IN (3)	50F (5)	"TITUS"
2-18	EGG CRATE	2,200	24 X 24	18"	ALUM.	(1)	WHITE	LAY-IN (3)	50F (5)	"TITUS"

- ACCEPTABLE MANUFACTURERS: TITUS, KRUEGER, CARNES, SHOEMAKER.
- NOT ALL RETURN GRILLES SCHEDULED ARE USED ON THE PROJECT.
- PROVIDE MIN. 8" DEEP PLENUM BOX AT ALL RETURN GRILLES (TYP.)
- BRANCH DUCT SIZE TO GRILLE SHALL BE SAME SIZE AS NECK UNLESS OTHERWISE NOTED.
- (1) VOLUME DAMPER AT THE GRILLE INDICATED BY A "D" AFTER THE GRILLE DESIGNATION. EXAMPLE: RG2D-6 IS RG2-6 WITH A DAMPER.
- (3) SURFACE MOUNT BORDER WITH NO SCREW HOLES FOR LAY-IN APPLICATION.
- (5) 1/2 X 1/2 X 1/2 CORE

DUCTWORK AND DUCTWORK INSULATION SCHEDULE							
SERVICE	LOCATION	DUCT MAT'L	SMACNA PRESS. CLASS.	INSULATION		INSUL JACKET	
				RECTANGULAR DUCT	ROUND DUCT		
SUPPLY	SINGLE ZONE SYSTEMS	CONCEALED	GALV. ST.	+1"	1.5" FLEX. F.G.	1.5" FLEX. F.G.	N.R.
RETURN	UPSTREAM OF FAN	CONCEALED	GALV. ST.	-1"	1.5" FLEX. F.G.	1.5" FLEX. F.G.	N.R.
EXHAUST	DOWNSTREAM OF FAN	CONCEALED	GALV. ST.	+1"	1.5" FLEX. F.G. (1)	1.5" FLEX. F.G. (1)	N.R.

- N.R. = NOT REQUIRED
- EXPOSED = VISIBLE FROM OCCUPIED SPACE.
- CONCEALED = HIDDEN FROM VIEW BY WALLS AND CEILINGS.
- MATERIALS:
 - GALV. STEEL: ASTM A653, LOCK FORMING QUALITY, 1.25 OUNCES/ S.F. ZINC COATING (G90 IN ACCORDANCE WITH ASTM A90 BOTH SIDES).
 - ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE SEALED PER IECC 403.2.9.
 - (1) INSULATE FROM 18" UPSTREAM OF THE BACKDRAFT DAMPER TO THE POINT WHERE THE DUCT EXITS THE BUILDING.

ELECTRICAL/STARTER/DISCONNECT SCHEDULE																
SYM.	ELECTRICAL DATA				STARTER				DISCONNECT				REMARKS			
	HP	KW	AMPS	MCA	MOP	VOLT	PH.	TYPE	LOCATION	FURN. BY	AUX. CONTACT	ACCESSORIES		DET.	DISCONNECT	FURN. BY
RTAC-1	-	-	-	19.0	25	208	3	INTEG.	INTEGRAL	EM	-	-	-	3R	EM (4)	-
RTAC-2	-	-	-	31.0	45	208	3	INTEG.	INTEGRAL	EM	-	-	-	3R	EM (4)	-
RTAC-3	-	-	-	25.0	30	208	3	INTEG.	INTEGRAL	EM	-	-	-	3R	EM (4)	-
CEF-1	-	0.08	-	-	-	120	1	(1)	(1)	EC	-	-	-	R	EM	-
CEF-2	-	0.08	-	-	-	120	1	(1)	(1)	EC	-	-	-	R	EM	-
CEF-3	-	0.23	-	-	-	120	1	(2)	(2)	EC	-	-	-	R	EM	-
CEF-4	-	0.23	-	-	-	120	1	(3)	(3)	EC	-	-	-	R	EM	-

- STARTER TYPE:
 - INTEG. = INTEGRAL PROVIDED INTEGRAL WITH EQUIPMENT.
- FURNISHED BY:
 - EM = EQUIPMENT MANUFACTURER
 - HC = HEATING CONTRACTOR
 - EC = ELECTRICAL CONTRACTOR
- ACCESSORIES:
 - HC = HEATING CONTRACTOR
 - PL = LED PL LIGHT
 - PB = PUSH BUTTON
- DISCONNECT:
 - N.R. = NOT REQUIRED
 - R = REQUIRED
 - 3R = NEMA 3R
- REMARKS:
 - REC. = RECEPTACLE
- VERIFY VOLTAGE AND PHASE WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.
- (1) POWER ROUTED THROUGH PRIOR LIGHTING CONTRACTOR, E.C. SEE ELECTRICAL PLANS.
- (2) LOCAL WALL SWITCH PROVIDED BY E.C. TO FURN. BY FAN.
- (3) FAN WIRE TO REVERSE ACTION THERMOSTAT BY E.C.
- (4) DISCONNECT FACTORY MOUNTED AND PREWIRED BY EQUIPMENT MANUFACTURER.

CABINET EXHAUST FAN SCHEDULE (C.E.F.)										
NO.	AREA SERVED	TYPE	CFM	S.P. "W.C.	RPM	MOTOR WATTS	MAX. SONES	DUCT COLLAR SIZE (IN.)	MODEL	REMARKS
1	TOILET RM	CEILING	100	0.38	950	80	2.7	6	SP-B110 (3)	"GREENHECK"
2	TOILET RM	CEILING	100	0.38	950	80	2.7	6	SP-B110 (3)	"GREENHECK"
3	LAB	CEILING	300	0.5	1070	224	4.5	8 X 8	SP-A510	"GREENHECK"
4	MECH RM	CEILING	300	0.5	1070	224	4.5	8 X 8	SP-A510	"GREENHECK"

- ACCEPTABLE MANUFACTURERS: GREENHECK, COOK, PENN-BARRY, CARNES.
- SUPPORT FROM STRUCTURE, ISOLATE FAN AND ASSOCIATED DUCTWORK.
- PROVIDE SPEED CONTROL MOUNTED ON FAN HOUSING. INTERNAL PLUG-IN DISCONNECT AND BACKDRAFT DAMPER
- (3) PROVIDE WHITE ALUMINUM GRILLE.

ROOF CAP SCHEDULE									
NO.	SERVICE	TYPE	THROAT	CFM	APD.	SCREEN	DAMPER	MODEL	REMARKS
1	EXHAUST	FLAT	6	100	0.01	BIRD	NO	RCC-7 (1)	"GREENHECK"
2	EXHAUST	FLAT	6	100	0.01	BIRD	NO	RCC-7 (1)	"GREENHECK"
3	EXHAUST	FLAT	10	600	0.09	BIRD	NO	GRS-10 (1)	"GREENHECK"

- ACCEPTABLE MANUFACTURERS: GREENHECK, CARNES
- (1) PROVIDE 14" HIGH ROOF CURB.

ROOFTOP AIR CONDITIONING UNIT SCHEDULE (RTAC)																															
NO.	NOM. TONS	SUPPLY AIR				DIRECT	INDIRECT	RELIEF		COOLING				HEATING				OUTSIDE AIR	SMOKE DETECTOR	CURB HEIGHT BY MFR.		MCA	MOP	VOLT/PHASE	EFFICIENCY			WEIGHT (LBS.)	MODEL	REMARKS	
		CFM	TEMP	SP	HP			BAR.	FAN	EAT DB / WB	MBH CAP.	AMB. TEMP F	NO. COMPR.	NO. STAGES	KW	MBH IN	MBH OUT			NO. STAGES	MIN. CODE				UNIT RATING	TEST PROC.					
1	3	1,025	150	1	DIRECT	INDIRECT	-	X	-	80/67	29.8	110	1	1	-	67	54	2	ECON (2)	NO (1)	14"	(6)	19.0	25	208/3	13.0 SEER	14.0 SEER	ARI 210/240	850	48FC	CARRIER (4)(5)
2	5	1,775	250	1	DIRECT	INDIRECT	-	X	-	80/67	52.0	110	1	1	-	67	54	2	ECON (2)	NO (1)	14"	(6)	31.0	45	208/3	13.0 SEER	14.0 SEER	ARI 210/240	850	48FC	CARRIER (4)(5)
3	4	1,450	200	1	DIRECT	INDIRECT	-	X	-	80/67	41.7	110	1	1	-	67	54	2	ECON (2)	NO (1)	14"	(6)	25.0	30	208/3	13.0 SEER	14.0 SEER	ARI 210/240	850	48FC	CARRIER (4)(5)

- H.C. TO PROVIDE ROOFTOP UNITS AND CURBS. COORDINATE INSTALLATION WITH G.C. CARRIER CONTACT: PAUL WITZ AT Paul.Witz@carrier.utc.com.
- SEE MOTOR SPECIFICATIONS FOR MOTOR REQUIREMENTS.
- PROVIDE WITH "ASHRAE STD 52.2 MERV 8 T.A. FILTERS.
- RTAC DESIGNED TO PREVENT RAIN INTRUSION INTO THE AIRSTREAM WHEN TESTED AT DESIGN AND NO AIRFLOW PER SECTION 58 OF UL 1995.
- PROVIDE UNIT MOUNTED NEMA 3R DISCONNECT, STAINLESS STEEL HEAT EXCHANGER, LIQUID-TIGHT THRU UNIT BASE ELECTRICAL CONNECTION, HINGED ACCESS PANELS AND HINGED DOOR FOR ECONOMIZER.
- PROVIDE WITH CARRIER EDGE PRO PROGRAMMABLE COMMERCIAL THERMOSTAT MODEL 33CS2PP25-03.
- (1) DUCT SMOKE DETECTOR IS NOT REQUIRED PER IMC 606.2.1 AS RETURN AIR FLOW DOES NOT EXCEED 2,000 CFM IN ANY LOCATION AND SYSTEMS DO NOT SHARE COMMON SUPPLY OR RETURN AIR DUCTS.
- (2) PROVIDE ULTRA LOW LEAK CODE COMPLIANT ECONOMIZER WITH FAULT DETECTION, ENTHALPY CONTROL AND BAROMETRIC RELIEF.
- (4) PROVIDE WITH HAIL GUARD FOR CONDENSING COILS.
- (5) PROVIDE EPOXY COATED CONDENSER COIL TO PROVIDE PROTECTION IN COASTAL ENVIRONMENTS.
- (6) PROVIDE MICROMETL CORPORATION SEISMIC CURB MODEL CRBK-SRT12FA-14 SERIES.



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PROJECT INFORMATION

TENANT BUILD-OUT FOR:
ASPEN DENTAL
 ~12150 FRONTAGE ROAD • MURRELLS INLET, SC 29576

PROFESSIONAL SEAL

SHEET DATES

ISSUE DATE MAR. 16, 2020

REVISIONS

NO.	DATE	DESCRIPTION

JOB NUMBER

1860160

SHEET NUMBER

H4.0