ROOFTOP DIRECT EXPANSION (DX) EQUIPMENT

MARK	SERVES	TOTAL S.A. (CFM)	O.A. (CFM)	E.S.P. (IN WG)		AUX. ELEC. HEATER (KW)	MIN. EER *EER	REFR.	BASIS OF DESIGN	WEIGHT (LBS.)	NOMINAL TONNAGE	MINIMUM COOLING CAPACITY						REMARKS							
												TOTAL (MBH)	SENS (MBH)	LAT (MBH)	Ent. Tdb (°F)	Ent. Twb (°F)	Lvg. Tdb (°F)	Lvg. Twb (°F)	1	2	3	4	5	6	7	8
RTU-1	RETAIL	5,000	1,250	0.50	59.24	50.0	10.8	R-410a	SOTCD1-4	1,075.0	12.5	148.3	109.4	38.9	79.5	67.3	58.5	57.5	X	X	X	X	X	X	X	X
RTU-2	WAREHOUSE	5,000	1,150	0.50	57.72	50.0	10.8	R-410a	SOTCD1-4	1,075.0	12.5	150.9	110.2	40.7	79.1	67.0	58.0	57.0	X	X	X	X	X	X	X	X

NOTES (APPLY TO ALL):

A. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL POWER INFORMATION.

B. SUBMITTED UNIT CAPACITIES SHOULD BE WITHIN +/-10% OF SCHEDULED CAPACITIES.

C. DESIGN IS BASED ON PRODUCTS BY CARRIER. ACCEPTABLE ALTERNATES SHALL BE BY TRANE, LENNOX, DAIKIN, OR JCI. SHOULD AN ALTERNATE MANUFACTURER BE PROVIDED, THE MECHANICAL CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR COORDINATING EQUIPMENTS ELECTRICAL CHARACTERISTICS WITH THE ELECTRICAL CONTRACTOR.

D. ALL UNITS SHALL BE INSTALLED WITH AN ELECTRONIC WATER LEVEL DETECTOR IN THE PRIMARY DRAIN PAN. THE WATER LEVEL DETECTOR SHALL BE INSTALLED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE AND LOWER THAN THE DRAIN PAN OVERFLOW RIM. THE WATER LEVEL DETECTOR SHALL BE WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER.

REMARKS (APPLY AS SCHEDULED):

1. NON POWERED WEATHER PROOF GFCI RECEPTACLE.
2. FACTORY DISCONNECT SWITCH.
3. AIRSIDE ENTHALPY ECONOMIZER WITH MOTORIZED RETURN AND OUTDOOR AIR DAMPERS.
4. POWERED EXHAUST. POWERED EXHAUST SHALL RUN ONLY WHEN UNIT IS IN ECONOMIZER MODE.
5. CURB ADAPTER REQUIRED. COORDINATE DIMENSIONS IN FIELD PRIOR TO ORDER.
6. 2 STAGE COOLING.
7. LOW AMBIENT COOLING KIT.
8. FIELD PROVIDED AND FIELD INSTALLED SMOKE DETECTOR. SMOKE DETECTOR SHALL BE MOUNTED IN THE RETURN DUCT.

FAN SCHEDULE

MARK	DUTY	TYPE	CFM	E.S.P. (IN WG)	MOTOR (W / hp)	DRIVE	MAX. NOISE (SONES)	CONTROL BY	BASIS OF DESIGN MODEL	REMARKS 1	2	3	4
EF-A	EXHAUST	CEILING CABINET	140	0.5	150	DIRECT	3.5	SWITCHED WITH LIGHTS	GREENHECK SP	X	X	X	

NOTES (APPLY TO ALL):

A. SEE ELECTRICAL PLANS FOR POWER CHARACTERISTICS.

B. DESIGN IS BASED ON PRODUCTS BY GREENHECK. ACCEPTABLE ALTERNATES SHALL BE BY LOREN COOK, TWIN CITY, PENN BARRY.

REMARKS (APPLY AS SCHEDULED):

1. FAN SPEED CONTROLLER.
2. FACTORY DISCONNECT SWITCH/PLUG.
3. GRAVITY BACKDRAFT DAMPER.

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	NOISE CRITERIA @ MAX CFM	MODEL
RG2424	EGGCRATE GRILLE	24x24	24x24	25	TITUS 50F
RS1212	EGGCRATE GRILLE	12x12	12x12	25	TITUS 50F
SCP06	SUPPLY CEILING PLAQUE DIFFUSER	24x24	6Ø	25	TITUS OMNI
SCP10	SUPPLY CEILING PLAQUE DIFFUSER	24x24	10Ø	25	TITUS OMNI

A. AIR DEVICE (I.E. DIFFUSERS, REGISTERS AND GRILLES) COLOR SELECTION SHALL BE MADE BY ARCHITECT. CONTRACTOR SHALL SUBMIT COLOR/FINISH CHARTS FOR ARCHITECTURAL REVIEW AND SELECTION.
B. THE CONTRACTOR SHALL COORDINATE AIR DEVICE FRAME AND/OR SUSPENSION TYPE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

VENTILATION SCHEDULE (PER ASHRAE 62.1)

Zone RETAIL

System Primary Airflow: 3,900 CFM (Vps) | Average Outdoor Air Fraction: 0.362 (Xs) | Occupant Diversity: 1 (D) | Zone Air Distribution Effectiveness: 0.8 (Ez) | Primary Air Fraction to Zone: (Ep) | Secondary Air Fraction to Zone: (Er)

Uncorrected Air Intake: 5,020 CFM (Vou) | System Ventilation Efficiency: 0.86 (Ev) | Min. Outside Air Required: 5,260 CFM (Vot) | Fraction of Supply Air to Zone from Outside Zone: 1 (Fa) | Fraction of Supply Air to Zone from Fully Mixed Primary Air: (Fb) | Fraction of Outdoor Air to Zone from Outside Zone: (Fc)

Room Information

Room	Room Type	People Outdoor Air: Rate (CFM/person) Rp	People Pz	People Total (CFM) Rp*Pz	Area Outdoor Air: Rate (CFM/ft2) Ra	Area Az	Area Total (CFM) Ra*Az	Breathing Zone Outside Airflow (CFM) Vbz	Zone Outdoor Airflow (CFM) Voz	Zone Discharge Airflow (CFM) Vdz	Discharge Outdoor Air Fraction Zd	Zone Ventilation Efficiency Evz
CASH	Office-Office	5	1	5	0.06	120	8	13	16	120	0.133	1.24
INTERIOR RETAIL	Retail-General Sales	7.5	18	135	0.12	2570	308	444	555	2,250	0.246	1.13
INTERIOR RETAIL	Retail-General Sales	7.5	129	968	0.12	19800	2310	3280	4100	10200	0.402	0.96
MINOR	Office-Office	5	1	5	0.06	120	8	13	16	88	0.183	1.21
SIDE EXTERIOR	Retail-General Sales	7.5	11	85	0.12	1520	183	266	333	1190	0.28	1.1

VENTILATION SCHEDULE (PER ASHRAE 62.1)

Zone RTU-2 WAREHOUSE

System Primary Airflow: 5,000 CFM (Vps) | Average Outdoor Air Fraction: 0.23 (Xs) | Occupant Diversity: 1 (D) | Zone Air Distribution Effectiveness: 0.8 (Ez) | Primary Air Fraction to Zone: (Ep) | Secondary Air Fraction to Zone: (Er)

Uncorrected Air Intake: 1,150 CFM (Vou) | System Ventilation Efficiency: 0.888 (Ev) | Min. Outside Air Required: 1,150 CFM (Vot) 0.23 | Fraction of Supply Air to Zone from Outside Zone: (Fa) | Fraction of Supply Air to Zone from Fully Mixed Primary Air: (Fb) | Fraction of Outdoor Air to Zone from Outside Zone: (Fc)

Room Information

Room	Room Type	People Outdoor Air: Rate (CFM/person) Rp	People Pz	People Total (CFM) Rp*Pz	Area Outdoor Air: Rate (CFM/ft2) Ra	Area Az	Area Total (CFM) Ra*Az	Breathing Zone Outside Airflow (CFM) Vbz	Zone Outdoor Airflow (CFM) Voz	Zone Discharge Airflow (CFM) Vdz	Discharge Outdoor Air Fraction Zd	Zone Ventilation Efficiency Evz
BREAK RM	General-BreakRoom	5	3	15	0.06	300	19	34	45	395	0.105	1.12
CARPET DEPARTMENT	Retail-General Sales	7.5	28	210	0.12	4060	488	696	873	2,860	0.305	0.906
JAN	General-Storage	0	0	0	0.12	51.6	7	7	9	66	0.136	1.08
MEN	General-Restroom	0	0	0	0	119	0	0	0	66	0	1.23
WAREHOUSE	Misc-Warehouses	0	0	0	0.06	3000	181	181	226	1550	0.146	1.08
WOMEN	General-Restroom	0	0	0	0	119	0	0	0	66	0	1.23

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REVISIONS

NO.	DESCRIPTION

OLLIE'S BARGAIN OUTLET
SPAULDING VILLAGE
1424 NORTH EXPRESSWAY, SUITE 146, 147A
GRIFFIN, GORGIA 30223

PROJECT

GEORGIA REGISTERED PROFESSIONAL ENGINEER JENNIFER LYNN DUCHINE No. 034608

SEAL

SEPTEMBER 24, 2018
100% CONSTRUCTION DOCUMENTS
RELEASE DATE

SCHEDULES

DRAWING TITLE

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Drawn By: AC
Checked By: JD
PROJECT # 18-2671
M-003
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