PACKAGED ROOFTOP UNIT RTU-6 SCHEDULE

Unit Information

Model:	Horizon™ (OAD/N Rev6 - OADG/OANG)	Unit Length:	219 in	Weight Operating:	4018 lb*
Size:	D015	Unit Width:	95 in	*Note: Weight does not include CURB weight. See CURB submittal for actual*	
Quantity:	1	Unit Height:	68 in	**Refrigerant Charge**	
Supply Airflow:	3,000 CFM	Elevation:	0 ft	Circuit 1:	32.5 lbs
Outside Airflow:	1,270 CFM	Ambient Air DB:	95 F		
Minimum Airflow:	1,292 CFM				

Cooling Performance

Gross Total Capacity:	169.2 MBh	Evaporator Face Area:	10.42 sq ft
Gross Sensible Capacity:	108.8 MBh	Evaporator Rows / FPI:	6 / 14
Net Total Capacity:	164.5 MBh	Condenser Face Area:	30 sq ft
Net Sensible Capacity:	104.1 MBh	Condenser Rows / FPI :	2 / 14
Entering Air DB / WB (Coil):	76.8 / 64.2 F	Air Velocity:	287 fpm
Leaving Air DB / WB (Coil):	43.9 / 43.4 F	Coil Air PD:	0.36 in H2O
Leaving Air DB / WB (Reheat):	81.4 / 59.56 F	EER:	13.4
Leaving Air DB / WB (Unit):	83.1 / 60.2 F	Watts:	14748
MRC:	96.47 lb/h	MRE:	6.54 lb/kWh

Heating Performance

Heat Type:	Gas Furnace	Entering Air DB:	63 F
Input Capacity	150 MBh	Leaving Air DB:	100 F
Output Capacity:	120 MBh	Coil Air PD:	0.39 in H2O

Energy Recovery Wheel ERC-3625C-4M

*** TAB Outside airflow through OA Intake to this value*

Summer Conditions			Winter Conditions		
Ventilation Supply		**Outside**	**Ventilation Supply**		**Outside**
Airflow:	1,270 CFM	Airflow: 1,486 CFM**	Airflow:	1,270 CFM	Airflow: 1,486 CFM**
DB:	79.4 F	DB: 92.0 F	DB:	53.5 F	DB: 10.0 F
WB:	65.9 F	WB: 73.0 F	WB:	47.3 F	WB: 8.0 F
PD:	0.39 in H20		PD:	0.39 in H20	
Return		**Exhaust**	**Return**		**Exhaust**
Airflow:	1,270 CFM	Airflow: 1,486 CFM	Airflow:	1,270 CFM	Airflow: 1,486 CFM
DB:	75.0 F	DB: 85.8 F	DB:	70.0 F	DB: 32.1 F
WB:	63.0 F	WB: 69.5 F	WB:	58.0 F	WB: 31.1 F
ESP:	1.00 in H20	ERV PD: 0.39 in H20	ESP:	1.00 in H20	ERV FD: 0.39 in H20
Total Capacity:	32.61 MBH		Total Capacity:	90.68 MBH	
Sensible Capacity:	20.27 MBH	Eff: 0.74	Sensible Capacity:	69.83 MBH	Eff: 0.74
Latent Capacity:	12.34 MBH	Eff: 0.72	Latent Capacity:	20.85 MBH	Eff: 0.71

NOTES:
UNIT MANUFACTURER SHALL BE BASED ON TRANE
1. PROVIDE THE FOLLOWING OPTIONS FOR ALL UNITS:
· HIGH STATIC DRIVE MOTOR. COORDINATE LEFT/RIGHT HAND FAN DRIVE IN FIELD.
· UNITS SHALL BE HIGH EFFICIENCY.
· 100% MODULATING ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL AND ECONOMIZER HOOD.
· OUTSIDE AIR INTAKE DAMPER FOR EACH VARIABLE AIR VOLUME UNIT SHALL BE ARRANGED MODULATE TO MAINTAIN CONSTANT OAI CFM, INDEPENDENT OF VARIABLE SA CFM. PROVIDE AN OUTSIDE AIR INTAKE AIRFLOW MEASURING STATION.
· FURNISH EXTRA DRIVE BELT AND EXTRA FILTER SET FOR EACH UNIT.
· UNIT SHALL BE MOUNTED ON 24" HIGH VIBRATION ISOLATION ROOF CURB.
· POWER EXHAUST FAN, ARRANGED TO RUN IN ECONOMIZER MODE, WITH BAROMETRIC RELIEF WHEN ECONOMIZER IS NOT ENABLED.
· UNIT MOUNTED COMBINATION VFD-STARTER/DISCONNECT WITH BY-PASS.
· PROVIDE MERV-13 FILTERS TO BE SHIPPED LOOSE AND FIELD INSTALLED AT RETURN AIR FILTER RACK.
2. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR ALL UNITS:
· UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.
· ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
· INDIVIDUAL EXTERNAL POWER CONNECTION AT UNIT FOR MAIN UNIT AND POWER EXHAUST FAN, UNIT-MOUNTED DISCONNECT SWITCH, AND FACTORY INSTALLED MOTOR STARTERS. VAV UNITS SHALL HAVE FACTORY MOUNTED VFD'S WITH H-O-A.

MAKE-UP AIR UNIT SCHEDULE

DESIGNATION	MAU-1
LOCATION	ROOF
AREA SERVED	VESTIBULE
MANUFACTURER	GREENHECK
MODEL	IGX-108-H12-C
WEIGHT OF UNIT (LBS)	825 (+/-5%)
WEIGHT OF ROOF CURB (LBS)	122
UNIT ORIENTATION	HORIZONTAL
INTERLOCKED	–
DESIGN DATA:	
SUPPLY AIR (CFM)	800
OUTDOOR AIR (CFM)	800
SUMMER OA TEMP (°F) DB/WB	89.7/77.0
WINTER OA TEMP (°F)	12.8°
GAS-FIRED INDIRECT FURNACE:	
E.A.T./L.A.T. (°F)	13.0/105.4
GAS INPUT/OUTPUT (MBH)	100.0/80.0
SUPPLY FAN:	
DESIGN AIRFLOW (CFM)	800
BHP/HP	0.22/0.33
RPM	1014
ESP/TSP (IN H_2O)	0.5/0.543
ELECTRICAL DATA:	
VOLTS/Ø/Hz	115/1/60
MCA/MOCP	12/15

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS:
· 100% OUTSIDE AIR UNIT.
· INTAKE HOOD WITH BIRD SCREEN AND MOTORIZED DAMPER.
· INDIRECT GAS-FIRED FURNACE WITH 8:1 CONTROL MODULATION.
· HORIZONTAL DISCHARGE SUPPLY AIR OUTLET.
· UNIT SHALL BE MOUNTED ON 24" HIGH VIBRATION ISOLATION ROOF CURB. HEIGHT INCLUDES BASE CURB AND VIBRATION ISOLATION RAILS.)
· EXTRA DRIVE BELT AND FILTER SET.
2. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS:
· SINGLE POINT EXTERNAL POWER CONNECTION AT UNIT, FACTORY INSTALLED UNIT-MOUNTED DISCONNECT SWITCH, & FACTORY INSTALLED MOTOR STARTERS.
· ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
· UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.

DUCTLESS SPLIT-SYSTEM AC UNIT SCHEDULE

INDOOR/OUTDOOR UNIT DESIGNATION	AC-A/ACC-A
MANUFACTURER	DAIKIN
NOMINAL COOLING CAPACITY (TONS)	1.5
COOLING CAPACITY (BTU/HR)	18,000
CFM (H/M/L/SL)	716/605/467/395
SEER/EER	18.5/12.5
RS PIPE SIZE (IN)	½
RL PIPE SIZE (IN)	¼
CONDENSATE DRAIN PIPE SIZE (IN)	¾
ELECTRICAL DATA (CONNECTION AT OUTDOOR UNIT):	
VOLTS/Ø/Hz	208-230/1/60
MCA/RLA/MOP	13.4/13/20
INDOOR EVAPORATOR UNIT DATA	
LOCATION	IT 157A
MODEL	FTK18AXVJU
HEIGHT x WIDTH x DEPTH (IN)	$11^{1}\frac{1}{16}$"x39½"x11½"
WEIGHT (LBS)	31
TYPE	WALL MOUNTED
OUTDOOR CONDENSING UNIT DATA:	
LOCATION	ROOF
MODEL	RK18AXVJU
HEIGHT x WIDTH x DEPTH (IN)	$27^{13}\frac{13}{32}$"x36⅝"x$13^{13}\frac{13}{16}$"
WEIGHT (LBS)	99
REFRIGERANT TYPE	R-104A

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS FOR EACH UNIT:
· 0° LOW AMBIENT CONTROLS.
· HARD WIRED REMOTE CONTROLLER
· WIND BAFFLE
· INTEGRAL CONDENSATE PUMP PACKAGE AT INDOOR UNIT
2. FIELD SUPPLIED LOCAL DISCONNECT SWITCH AT INDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. FIELD SUPPLIED WEATHERPROOF LOCAL DISCONNECT SWITCH AT OUTDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
4. SINGLE POINT EXTERNAL POWER CONNECTION FOR EACH INDOOR/OUTDOOR SET OF UNITS SHALL BE AT THE OUTDOOR UNIT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING FROM THE OUTDOOR UNIT TO THE INDOOR UNIT.
5. THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL WIRING BETWEEN THE OUTDOOR UNIT AND INDOOR UNIT.
6. PROVIDE ALL REQUIRED MOUNTING BRACKETS, ETC. FOR WALL HUNG INSTALLATION

EQUIPMENT NOTES

1. MOTORIZED DAMPERS: SHALL BE LOW LEAKAGE TYPE RUSKIN MODEL CD40, 4" DEEP EXTRUDED ALUMINUM AIRFOIL DAMPER. DAMPER SHALL HAVE OPPOSED BLADES, MOTOR AND LINKAGE. DAMPERS SHALL BE 120V/1ϕ/60Hz, 3 AMPS MAX. FURNISH DISCONNECT SWITCH.
2. BACK-DRAFT DAMPERS: SHALL BE RUSKIN MODEL BD6, HEAVY DUTY BACK-DRAFT DAMPER, EXTRUDED ALUMINUM FRAME & DAMPER. DAMPER SHALL HAVE PARALLEL BLADES. SIZE AS INDICATED ON PLAN. PROVIDE SPC STATIC PRESSURE CONTROL.
3. VOLUME CONTROL DAMPERS: FOR ALL ROUND & RECTANGULAR VOLUME CONTROL DAMPERS THAT ARE LOCATED ABOVE INACCESSIBLE CEILINGS, PROVIDE CABLE OPERATED DAMPERS. ROUND DAMPERS SHALL BE YOUNG BOWDEN MODEL 5020-CC. RECTANGULAR DAMPERS SHALL BE MODEL 830-CC2. CABLE CONTROLS SHALL BE MODEL 270-275 FOR CONCEALED LOCATIONS & MODEL 270-896C FOR LOCATIONS WHERE CABLES TERMINATE IN FINISHED SPACES. COORDINATE LOCATIONS IN THE FIELD.
4. SIDEWALL SUPPLY AIR REGISTERS: SHALL BE BASED ON TITUS MODEL 300FL, ALUMINUM CONSTRUCTION, WITH 3/4" SPACING, DOUBLE DEFLECTION AIRFOIL BLADES, OPPOSED BLADE VOLUME DAMPER IN NECK, SIZE AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. FRAME SHALL BE SUITABLE FOR LAY-IN OR SURFACE MOUNTING AS REQUIRED. COORDINATE WITH ARCH PLANS.
5. RETURN & EXHAUST AIR REGISTERS: SHALL BE BASED ON TITUS MODEL 355FL, 1/2" SPACING, 35° FIXED DEFLECTION, ALL ALUMINUM CONSTRUCTION, AIRFOIL BLADES WITH OPPOSED BLADE VOLUME DAMPERS, SIZE AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL, COLOR SHALL BE WHITE. FRAME SHALL BE SUITABLE FOR SURFACE MOUNT OR LAY IN. COORDINATE WITH ARCH PLANS.
6. ELECTRIC UNIT HEATER (UH-A): SHALL BE BASED ON MODINE MODEL HER-30C-3101, RATED AT 3kW, 380 CFM, 10.2 MBH, 208/3/60 WITH 25° TEMP. RISE & 12' THROW. PROVIDE THE FOLLOWING OPTIONS. FAN GAURD, AIR DEFLECTION LOUVER, SUMMER FAN SWITCH, HEAT PURGE FAN DELAY SWITCH, DISCONNECT SWITCH & WALL THERMOSTAT.
7. RETURN & EXHAUST AIR REGISTERS: SHALL BE TITUS MODEL 355FL, 1/2" SPACING, 35° FIXED DEFLECTION, ALL ALUMINUM CONSTRUCTION, AIRFOIL BLADES WITH OPPOSED BLADE VOLUME DAMPERS, SIZE AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL, COLOR SHALL BE WHITE. FRAME SHALL BE SUITABLE FOR SURFACE MOUNT OR LAY IN. COORDINATE WITH ARCH PLANS.
8. ALL HVAC EQUIPMENT SHALL HAVE 3" HIGH BLACK LAMACOID NAME PLATES WITH WHITE ENGRAVED LETTERS PERMANENTLY FASTENED TO EQUIPMENT. TYPICAL FOR ALL PUMPS AND HVAC EQUIPMENT
9. VAV BOXES: SHALL BE BASED ON TITUS DESV SINGLE DUCT, COOLING ONLY OR COOLING/HOT WATER HEATING AS INDICATED WITH DIGITAL ELECTRONIC PRESSURE INDEPENDENT CONTROLS SUPPLIED BY CONTROLS CONTRACTOR AND MOUNTED BY THE TERMINAL UNIT MANUFACTURER. CONTROL ENCLOSURE SHALL NOT EXCEED 10.25" HEIGHT FOR A LOW HEIGHT OPTION.CONTROLS SHALL BE COMPATIBLE WITH PNEUMATIC INLET VELOCITY SENSORS SUPPLIED BY THE TERMINAL MANUFACTURER. THE SENSOR SHALL BE MULTI-POINT CENTER AVERAGING TYPE, WITH A MINIMUM OF FOUR MEASURING PORTS PARALLEL TO THE TAKE-OFF POINT FROM THE SENSOR. SENSORS WITH MEASURING PORTS IN SERIES ARE NOT ACCEPTABLE. THE SENSOR MUST PROVIDE A MINIMUM DIFFERENTIAL PRESSURE SIGNAL OF 0.03 INCH WG. AT AN INLET VELOCITY OF 500 FPM. THE TERMINAL CASING SHALL BE MINIMUM 22-GAUGE GALVANIZED STEEL, INTERNALLY LINED WITH 1-INCH MATTE FACED, NATURAL FIBER INSULATION THAT COMPLIES WITH UL 181 AND NFPA 90A. THE LINER SHALL COMPLY WITH ASTM G21 AND G22 FOR FUNGI AND BACTERIAL RESISTANCE. FIBERGLASS SHALL NOT BE ACCEPTED. THE TERMINAL MANUFACTURER SHALL PROVIDE A CLASS II 24 VAC TRANSFORMER AND DISCONNECT SWITCH; BOX SHALL BE U.L. LISTED AND LABELED. ELECTRICAL CONTRACTOR SHALL INSTALL & PROVIDE POWER/CIRCUITRY TO DISCONNECT SWITCH AND TRANSFORMER.AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL VAV BOX CONTROLS & CONTROL WIRING.MAXIMUM RADIATED NC< 30, MAXIMUM DISCHARGE NC< 28.COORDINATE RIGHT HAND / LEFT HAND CONNECTIONS AND CONTROL PANEL IN FIELD.
10. LINEAR DIFFUSERS AND LINEAR RETURNS, LD / LR, SHALL BE TITUS MODEL FL-10 HIGH-THROW WITH TITUS PLENUM, 1" SLOT WIDTH, 1 SLOT, 50 CFM/LF @ 0.136 STATIC PRESSURE, NC<25 AND 12-15-21 THROW AT 150-100-50 FPM VELOCITIES. FINISH SHALL BE A BAKED ANODIC ACRYLIC PAINT, COLOR AS SELECTED BY ARCHITECT. BORDER SHALL BE TYPE 22 (TAPE & SPACKLE). PROVIDE 1" THICK INSULATED PLENUM SIMILAR TO TITUS MODEL FBPI FOR EACH LENGTH OF LD AS SHOWN ON PLAN. REFER TO PLAN FOR ACTIVE SECTIONS AND TOTAL DIFFUSER LENGTHS.
11. REFRIGERANT PIPE INSULATION: SHALL BE AP ARMAFLEX PIPE INSULATION, 3/4" THICK UNSLIT, TO BE INSTALLED BEFORE FINAL CONNECTION. FIELD FABRICATE FITTING INSULATION WITH MITER-CUTS. ALL BUTT JOINTS AND SEAMS ARE TO BE SEALED WITH ARMSTRONG 520 ADHESIVE. ALL INSULATION INSTALLED OUTDOORS SHALL BE COATED WITH ARMSTRONG ARMAFLEX FINISH, AS PER THE MANUFACTURERS RECOMMENDATIONS.
12. PIPE INSULATION JACKETING: SHALL BE WHITE ZESTON 2000 PVC COVERS FOR PIPING AND FITTINGS. JACKET ALL PIPING AND FITTING THAT ARE EXPOSED IN ANY ROOM.
13. PIPE LABELS: SHALL BE SETON ULTRA-MARK WEATHER RESISTANT FOR OUTDOOR APPLICATION AND OPTI-CODE FOR INDOOR APPLICATION. LETTERS AND ARROWS SHALL BE 2 1/2" HIGH AND SHALL BE WHITE ON A GREEN BACKGROUND AND SHALL CONFORM TO ANSI AND OSHA STANDARDS. APPLY OVER INSULATION ONLY.
14. BI-POLAR IONIZATION: PROVIDE THREE (3) PLASMA AIR NEEDLEPOINT BI-POLAR IONIZERS, MODEL 7403, UL2998. MODULES SHALL BE POWERED VIA 1 POLE, 20 AMP CIRCUIT BPI MODULES SHALL BE INSTALLED ON RTU-1 SUPPLY AIR DISCHARGE MAIN, UPSTREAM OF ALL BRANCH TAPS. INTERLOCK BPI MODULES WITH SUPPLY FAN SWITCH.

FAN SCHEDULE

DESIGNATION	TX-1	TX-2	TX-3	TX-4	EF-1
LOCATION	ROOF	ROOF	ROOF	ROOF	ROOF
AREA SERVED	MEN T103	WOMEN T102	STAFF T150	STAFF WC 78	BASEMENT EMR
MODEL	G-070-VG	G-095-VG	G-060-VG	G-060-VG	G-070-VG
CFM	250	350	50	100	200
BHP	0.03	0.05	0.01	0.01	0.02
HP	1/15	1/8	1/100	1/100	1/15
FAN RPM	1,684	1,190	1,188	1,476	1,366
SP (IN H_2O)	0.375	0.375	0.2	0.25	0.25
VOLTS/Ø/Hz	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60
INTERLOCK	-	-	-	-	-

NOTES:
FANS BASED ON GREENHECK
1. ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
2. FURNISH RUBBER IN SHEAR OR SPRING VIBRATION ISOLATORS AS PER THE SPECIFICATION.
3. FURNISH WALL MOUNTED SPEED CONTROLLER OR THERMOSTAT AS INDICATED ON PLAN.
4. FURNISH MOTOR AND BELT GUARDS FOR ALL EXTERNAL MOTOR DRIVES.
5. FURNISH 24" HIGH ROOF CURB FOR ALL ROOFTOP FANS.
6. MOTOR STARTER & DISCONNECT SWITCH FOR EACH FAN SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR. EACH ROOFTOP FAN SHALL BE FURNISHED WITH WEATHERPROOF UNIT-MOUNTED LOCAL DISCONNECT SWITCH.
7. FURNISH MOTORIZED BACK-DRAFT DAMPER IN ROOF CURB FOR ALL ROOFTOP FANS.

CEILING DIFFUSER SCHEDULE

DESIGNATION	CD-1	-		
MODEL	OMNI			
MAX CORE VEL (FT/MIN)	550			
MAX NC	25			
CONSTRUCTION	STEEL			
FRAME	LAY-IN			
DEFLECTION	4 WAY			
FACE SIZE	24x24 / 12x12			
	CFM RANGE	NECK SIZE Ø	CFM RANGE	NECK SIZE Ø
	0-100	6"		
	101-200	8"		
	201-350	10"		
	351-450	12"		
	451-600	14"		
	601-700	15"		

NOTES:
1. CEILING SUPPLY DIFFUSERS ARE BASED ON TITUS.
2. ALL DIFFUSERS SHALL BE EQUIPPED WITH AN OPPOSED BLADE VOLUME DAMPER.
3. COORDINATE COLOR SELECTION WITH ARCH PLANS.
4. SUPPLY DIFFUSERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED, CONTRACTOR TO COORDINATE.
5. ALL LAY-IN DIFFUSERS SHALL HAVE A MODULE SIZE OF 24x24. FACE SIZES SHOWN IN SCHEDULE ARE FOR SURFACE MOUNT DIFFUSERS. NECK SIZES VARY ACCORDING TO THE SCHEDULE.
6. DIFFUSER BLOW PATTERN IS AS SHOWN ON DRAWINGS.

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New City Library

New City Library

New City Library Addition & Renovation

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VMDO Project Number

Checked By RG
Drawn By AMB

DRAWING NOT FOR CONSTRUCTION

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	DESIGN DEVELOPMENT	07.09.2021

MECHANICAL SCHEDULES

M-601

DESIGN DEVELOPMENT
07.09.2021