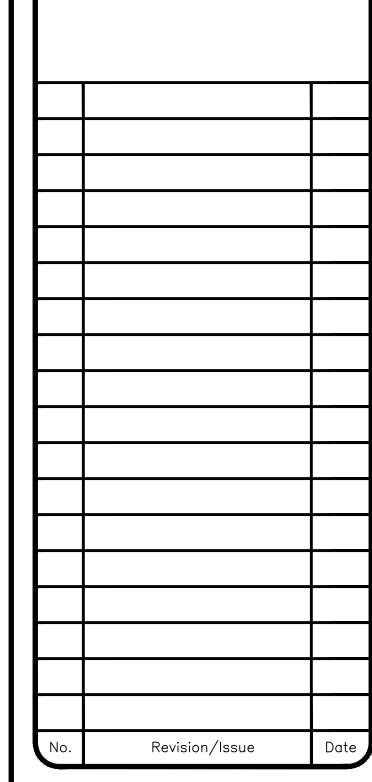


HVAC SPECIFICATIONS

1. PACKAGED DX ROOFTOP UNIT: PROVIDE PACKAGED DX ROOFTOP UNIT BY CARRIER, TRANE, YORK, MAMMOTH, OR MCQUAY. UNIT SHALL HAVE ELECTRIC COOLING AND NATURAL GAS FIRED HEATING WITH CAPACITIES AS SCHEDULED, MICROPROCESSOR BASED CONTROLS, 2 INCH THICK PLEATED MERV 7 FILTERS, AND UNIT MANUFACTURER'S 12 INCH HIGH STEEL ROOF CURB. FANS SHALL HAVE DIRECT DRIVE PSC MOTORS, STATICALLY AND DYNAMICALLY BALANCED AND RATED IN ACCORDANCE WITH THE LATEST EDITION OF ARI STANDARD 430. PROVIDE FANS WITH PERMANENTLY LUBRICATED SEALED BALL BEARINGS AND RUBBER VIBRATION ISOLATOR MOUNTS. COILS SHALL BE RATED IN ACCORDANCE WITH ARI STANDARD 410. UNIT SHALL BE PROVIDED WITH SINGLE POINT ELECTRICAL CONNECTION AND UNIT MOUNTED DISCONNECT SWITCH.

PROVIDE THE FOLLOWING ACCESSORIES:

- 1) FULL ECONOMIZER PACKAGE WITH DRY BULB CONTROL (SET AT 60°F, ADJUSTABLE) WITH WEATHER HOOD, BIRD SCREEN, AND BAROMETRIC RELIEF DAMPER.
- 2) AUTOMATIC CHANGE-OVER THERMOSTAT WITH TAMPER RESISTANT SETPOINT ADJUSTMENTS.
- 3) HINGED FILTER ACCESS DOOR WITH TOOL FREE LATCHES.
- 2. DUCTS SHALL BE SINGLE WALL RECTANGULAR OR ROUND AS INDICATED ON THE PLANS, FABRICATED OF MINIMUM G60 GALVANIZED STEEL AND INSTALLED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARD - METAL AND FLEXIBLE. SEAL DUCTS WITH WATER-BASED FLEXIBLE DUCT SEALANT, DUCTMATE PROSEAL OR EQUAL. ON EXPOSED DUCTS SEALANT SHALL BE APPLIED INTERNALLY AND WIPED CLEAN EXTERNALLY FOR A NEAT FINISHED APPEARANCE.
- 3. INSULATE SUPPLY AIR DUCTS WITH 1.5 INCH THICK FIBERGLASS DUCTWRAP INSULATION WITH A MINIMUM DENSITY OF 0.75 POUNDS PER CUBIC FOOT, WITH THERMAL CONDUCTIVITY K = 0.29BTU-INCH/HR-SF-F AT 75°F. PROVIDE FSK VAPOR BARRIER JACKET. ALL SEAMS SHALL BE SEALED WITH MATCHING 3 INCH WIDE FSK VAPOR BARRIER TAPE WITH PERMANENT ADHESIVE.
- 4. DIFFUSERS, REGISTERS, AND GRILLS SHALL BE OF SIZES, TYPES, AND MOUNTING AS SCHEDULED, FABRICATED OF ALUMINUM OR STEEL WITH WHITE BAKED ENAMEL FINISH.
- 5. LABEL EQUIPMENT WITH DESIGNATION INDICATED ON THE PLANS OR AS DIRECTED BY OWNER. LABELS SHALL BE PERMANENT SELF ADHESIVE OR ENGRAVED PHENOLIC PLASTIC LABELS MINIMUM 3 INCHES HIGH.
- 6. TESTING ADJUSTING AND BALANCING: BALANCE AIR SYSTEMS ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE", ASHRAE 111, NEBB'S "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING OF ENVIRONMENTAL SYSTEMS". OR SMACNA'S "HVAC SYSTEMS - TESTING, ADJUSTING, AND BALANCING". BALANCE ROOFTOP UNIT FAN BY ADJUSTING FAN SPEED TO MEET INDICATED AIR FLOWS. ADJUST VANES ON ADJUSTABLE DIFFUSERS FOR EVEN AIR DISTRIBUTION WITHOUT EXCESSIVE NOISE OR DRAFTS.



General Notes

ISSUED FOR

CONSTRUCTION

04/18/2013



511 Congress St., Suite 200, Portland ME 04101 P: (207) 775-5401 F: (207) 772-4762 www.amec.com



Facilities & Engineering 1001 Westbrook ST Portland, ME 04102 207-874-8877

Project Name and Address

Sheet Title LEGEND & SPECIFICATIONS

Project Number: 13-103	Sheet:
Date: Issued For Construction 04/18/2013	$ \mathcal{M}-(\mathcal{M}) $
Scale: Reference Individual Drawings	

DIFFUSER/REGISTER/GRILLE SCHEDULE | NECK | PRESSURE | MANUFACTURER CFM SIZE DROP IN CRITERIA AND MODEL NO | NOTES WC S-1 | 18"x8" | 0.07 | 16 | 0-465 | SIDEWALL TITUS 300FL | 1,2,3 TITUS 300FL 1,3 S-2 6"x6" 0.04 <15 75 CEILING R-1 24"x14" 0.07 14 930 SIDEWALL | TITUS 350R | 3,4 DOUBLE DEFLECTION. PROVIDE WITH OBD.

mm

MNTD

MOCP

MILLIMETERS

PROTECTION

MAKE-UP AIR

MAKE-UP WATER

MAXIMUM OVERCURRENT

MOUNTED

WALL FAN

WPD

WATER GAUGE

WATER HEATER

WIRE MESH SCREEN

WATER PRESSURE DROP

ESP

EVAP

EWT

EXH

EXIST

EXTERNAL STATIC PRESSURE

ENTERING WATER TEMPERATURE

EVAPORATOR

EXPANSION TANK

EXHAUST

EXISTING

ALUMINUM CONSTRUCTION. 4. 35° FIXED HORIZONTAL BLADES

FAN SCHEDULE														
UNIT NO.	FAN TYPE	DRIVE TYPE	CFM	SP IN WG	WATTS	FAN RPM	ELECTRICAL DATA		_	MANUFACTURER AND MODEL NUMBER 1	NOTES			
							VOLTS	PH	HZ					
EF-1	CEILING	DIRECT	76	0.375	54.4	1000	115 1 60		60	COOK GC-142	1,2			
NOTES:														

UNIT NO.	FAN TYPE	DRIVE TYPE	CFM	SP IN WG	WATTS	FAN RPM	l t	DATA	MANUFACTURER AND MODEL NUMBER (1)	NOTES			
							VOLTS	PH	HZ				
EF-1	CEILING	DIRECT	76	0.375	54.4	1000	115	1	60	COOK GC-142	1,2		

	PACKAGED GAS-FIRED ELECTRIC ROOFTOP AIR CONDITIONING UNIT SCHEDULE																						
	FAN DATA					DX COOLING COIL						GAS-FIRED HEAT EXCHANGER							ELECTRICAL		L		
UNIT NO	EER	CF	М	ESP			EAT	LAT	DESIGN	TC/	EVAP	GAS	MIN	EAT	LAT	В	BURNER DATA		VOLTS/			MANUFACTURER	NOTES
		SΔ	MIN	IN WC	RPM	HP	DB/WB	DB/WB	AMB	SC	FAN	TYPE	GAS PRESS	°F	°F	INPUT	OUTPUT	074050	PHASE	MCA	MOCP	AND MODEL	
		SA	OA	"' "			• F	° F	*F	MBH	HP		IN WC			MBH	MBH	STAGES					
RTU-1	11.0	1000	190	0.3	1030	1/2	76.1/65.6	57.5/55.8	95	29.2/20.2	1/6	NG	2	56.2	110	75	59	1	208/1	17.1	25	TRANE Y4CC3 030B 1075A	1-10

1. HIGH EFFICIENCY UNIT.

- 2. PROVIDE WITH AUTOMATIC CHANGE-OVER HEATING/COOLING THERMOSTAT WITH FAN
- PROVIDE WITH FACTORY INSTALLED MODULATING ECONOMIZER WITH DRY BULB CONTROL.
- 4. PROVIDE WITH MINIMUM 12" HIGH ROOF CURB. INSTALL PER RTU MANUFACTURER'S RECOMMENDATIONS.
- 5. PROVIDE WITH BAROMETRIC RELIEF DAMPER

- 6. PROVIDE ECONOMIZER OAI HOOD. 7. PROVIDE UNIT MOUNTED DISCONNECT SWITCH AND POWERED 120 VOLT CONVENIENCE OUTLET
- 8. PROVIDE THROUGH THE BASE ELECTRICAL AND GAS PIPING OPENINGS 9. PROVIDE FAN FAILURE AND CLOGGED FILTER SWITCHES
- 10. GAS-FIRED HEAT EXCHANGER

