

PACKAGE A/C UNIT SCHEDULE		
UNIT DESIGNATION	RTU-2	RTU-1
MANUFACTURER	EXISTING CARRIER	NEW JOHNSON CONTROLS
MODEL NO.	EXISTING	J05ZEE05B2H2BAA4A1
SYSTEM TYPE	DX SYSTEM	DX SYSTEM
SEER/EER	13	14/11.8
NOMINAL TONS	3	5
TOTAL COOLING	36,000	60,500
NET SENSIBLE	EXISTING	34,100
WEIGHT LBS	EXISTING	623
AREA SERVED	KITCHEN	DINING
FAN / COIL SECTION		
TYPE		
TOTAL CFM	1,200	1,275
OUTSIDE AIR CFM	240	470
ENT. AIR (°F)	EXISTING	81.4
E.S.P (IN WG)	EXISTING	0.5
FAN MOTOR H.P.	EXISTING	1.5
DRIVE	EXISTING	BELT
VOLTAGE/PHASE	EXISTING	240/3/60
COIL SIZE (SQ.FT.)	EXISTING	
ROWS/FINS/INCH.	EXISTING	
HEATING CAPACITIES		
CAPACITY BTUH	EXISTING	18,100
TYPE	EXISTING	ELECTRIC
KW/VOLTAGE/PHASE	EXISTING	5/240/3
STAGES/KW EACH	EXISTING	1
CONTROL VOLT	EXISTING	
FILTER SPECIFICATIONS		
TYPE	EXISTING	
SIZE (2")	EXISTING	
QUANTITY	EXISTING	1
CONDENSING SECTION		
TYPE		
REFRIGERANT	EXISTING	410A
COMPR. NO. TYPE	EXISTING	1/SCROLL
COMPRESSOR FLA.	EXISTING	
VOLT/PHASE	EXISTING	240/3/60
FAN #/AMPS/VOLTS/Ø	EXISTING	1/-
MCA *	EXISTING	28.7
MCCP **	EXISTING	35
WEIGHT (LBS)	EXISTING	623
NOTES:		
1- PROVIDE RTU-2 WITH MOTORIZED OUTSIDE AIR DAMPER		
2- PROVIDE 14" N.O.A. 175 MPH RATED WIND CURB FOR RTU-2		
3- PROVIDE RTU-2 WITH ZONE TEMPERATURE SENSOR		
4- PROVIDE RTU-2 WITH FACTORY INSTALLED DISCONNECT SWITCH		
5- PROVIDE RTU-2 WITH PHASE MONITOR		
6- PROVIDE RTU-2 WITH PHASE MONITOR		
7- PROVIDE RTU-2 WITH GALV. BANIZED DRAIN PAN		
8- PROVIDE RTU-2 WITH COIL GUARD		

FAN SCHEDULE		
ITEM #	EF-1	EF-2
MANUFACTURER	GREENHECK	GREENHECK
MODEL	SP-B70	SP-B70
MOUNTING	CEILING	CEILING
AREA SERVED	BATH	BATH
CONDITION OF SERVICE		
CFM	50	50
STATIC PRESSURE (W.G.)	0.25	0.25
RPM (MAX.)	675	675
TIP SPEED (MAX.)		
DRIVE		
DIRECT	X	X
V-BELT		
FAN MOTORS		
WATTS	45	45
VOLTS	115	115
PHASE	1	1
CYCLE	60	60
MOTOR SPEEDS		
TYPE OF MOTOR		
SPECIAL FEATURES		
BIRD SCREEN (MATERIAL)	AL.	AL.
OPTIONS GAGE		
GAGE		
MAT.(AL)(FIBR.GL.)(OTHER)	GALV. STL.	GALV. STL.
SPECIAL COATING		
BUILT IN DISCONNECT		
NOTE:	1,2,3	1,2,3
① PROVIDE BACKDRAFT DAMPER.		
② PROVIDE DISCONNECT SWITCH.		
③ PROVIDE VIBRATION ISOLATORS FOR CEILING HANGING.		

AIR DEVICE SCHEDULE				
TAG	A	B	C	D
MANUFACTURER	TITUS	TITUS	TITUS	TITUS
MODEL	300 FL	300 FL	300 FL	350 FL
TYPE	SUPPLY GRILLE	SUPPLY GRILLE	RETURN GRILLE	RETURN GRILLE
CFM RANGE	264 - 440	170 - 285	0-70	-
NECK SIZE (IN.)	8"	-	5"	-
MODULE SIZE (IN.)	12x12/12x12	12x8/14x10	6x6/6x6	24x24/24x24
BLOW PATTERN	(REFER TO DRAWING)	(REFER TO DRAWING)	(REFER TO DRAWING)	(REFER TO DRAWING)
FRAME/BORDER TYPE	SURFACE	SURFACE	SURFACE	SURFACE
SURFACE FINISH	WHITE	WHITE	WHITE	WHITE
MATERIAL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM
OPTIONS/ACCESSORIES	QBD	QBD	ALUMINUM	ALUMINUM
NOTES	SEE BELOW	SEE BELOW	SEE BELOW	SEE BELOW

- NOTES:
- AIR DEVICE SIZES & SCHEDULE AIRFLOW ARE AT THIS SCHEDULE UNLESS OTHERWISE NOTICED ON HVAC FLOOR PLANS.
  - BRANCH & OPTIONAL BRANCH DUCT SIZES ARE AT THIS SCHEDULE UNLESS OTHERWISE NOTICED ON HVAC FLOOR PLANS.
  - MAXIMUM PRESSURE DROP FOR ALL AIR DEVICES SHALL NOT EXCEED 0.10 IN. W.C.
  - COORDINATE WITH ARCHITECT.
  - MAXIMUM NC FOR ALL DEVICES SHALL NOT EXCEED 20.
  - ALL AIR DEVICES SHALL BE ALUMINUM CONSTRUCTION UNLESS OTHERWISE NOTICED.
  - THROW VALUES ARE GIVEN FOR TERMINALS VELOCITIES OF 150, 100 & 50 FPM RESPECTIVELY.

MECHANICAL SYMBOLS (GENERAL)	
-----	ITEMS SHOWN DASHED ARE EXISTING (UNLESS NOTED OTHERWISE)
////	HATCHING INDICATES ITEMS TO BE REMOVED (UNLESS NOTED OTHERWISE)
(X) (X)	KEYED NOTES ON DRAWINGS & SCHEDULES
(X) (X)	REVISIONS
(100)	ROOM NUMBERS
(X) (XXX)	AIR TERMINAL TAGS <sup>X</sup> = AIR DEVICE TYPE <sub>XXX</sub> = AIR QUANTITY (CFM)
XX-1	EQUIPMENT TAGS (XX = MARKS BELOW)
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
BO	BOILER
CC	COOLING COIL
CH	CHILLER
CT	COOLING TOWER
CU	CONDENSING UNIT
EDH	ELEC. DUCT HEATER
EF	EXHAUST FAN
HE	HEAT EXCHANGER
P	PUMP
EDH	ELEC. DUCT HEATER
LVR	WALL LOUVER
EF	EXHAUST FAN
RTU	ROOF TOP UNIT
RF	RETURN FAN
ET	EXPANSION TANK
PCU	PRE-COOLING UNIT
SF	SUPPLY FAN
FH	FUMEHOOD
CWP	CONDENSER WATER PUMP
CHWP	CHILLED WATER PUMP
HC	HEATING COIL
SL	STATIONARY LOUVER
UH	UNIT HEATER
CR	CONDENSATE RECEIVER
PRV	PRESSURE REDUCING VALVE
RHC	REHEAT COIL
HWP	HOT WATER PUMP
FS	FLOW STATION
CS	CHEMICAL SHOT FEEDER
ACCU	AIR COOLED COND. UNIT
ACCH	AIR COOLED CHILLER
SCHW	SECONDARY CHILLED WATER
PCHW	PRIMARY CHILLED WATER
VAV	VAV TERMINAL UNIT
(X) (X)	CONNECTION OF NEW TO EXISTING

DESIGN CRITERIA SCHEDULE	
OUTSIDE DB/WB (SUMMER)	92' / 78°F
OUTSIDE DB (WINTER)	41°F
INDOOR DESIGN DB	75°F
INDOOR DESIGN R.H.	50% (MAX.)
VENTILATION	PER FLORIDA 2014 MECHANICAL CODE
DUCT INSULATION	MIN. R-8.0 SUPPLY & R-6 RETURN DUCT

OUTDOOR AIR CALCULATION							
MARK	SPACE TYPE	SQFT	OCCUPANCY	VENTILATION RATE CFM/PERSON	VENTILATION RATE CFM/SQFT	MINIMUM OUTDOOR AIR REQUIRED	OUTDOOR AIR PROVIDED
RTU-1	DINING	522	44	7.5	0.18	424.0	470
RTU-2	KITCHEN	497	4	7.5	0.18	119.5	240
TOTALS		1019				543.4	710.0
1. OCCUPANT DENSITIES AND VENTILATION RATES BASED ON TABLE 403.3 OF THE FLORIDA MECHANICAL CODE. ACTUAL OCCUPANCY BASED ON INFORMATION PROVIDED BY OWNER AND/OR ARCHITECT.							

AIR BALANCE SCHEDULE						
UNIT	O/A (+)	MAKEUP AIR (+)	E/A (-)	PRESSURE/CFM	R/A (-)	S/A (+)
RTU-1	470	-	-	(+) 470	430	1,275
RTU-2	240	-	-	(+) 240	960	1,200
EXHAUST HOOD	-	-	3,251	(-) 3,251	-	-
MAKEUP HOOD	-	2,601	-	(+) 2,601	-	-
BATHROOMS EXHAUST	-	-	100	(-) 100	-	-
TOTAL	(+) 710	(+) 2,601	(-) 3,351	(+) 110	(-) 1,390	(+) 2,475

MECHANICAL ABBREVIATIONS	
ACC	AIR COOLED CONDENSER
AHU	AIR HANDLER UNIT
A/C	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
[AP]	ACCESS PANEL
ATM.	ATMOSPHERE
BHP	BRAKE HORSE POWER
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB
dB	DECIBELS
DDC	DIRECT DIGITAL CONTROL
DN.	DOWN
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
E/A	EXHAUST AIR
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
EWI	ENTERING WATER TEMPERATURE
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSE POWER
HZ	HERTZ
IN. W.G.	INCHES OF WATER GAUGE
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MD	MOTORIZED DAMPER
NC	NORMALLY CLOSED
NK.	NECK
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OBD	OPPOSED BLADE DAMPER
O/A	OUTDOOR AIR
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PH.	PHASE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH (GAUGE PRESSURE)
R/A	RETURN AIR
RH	RELIEF HOOD
RTU	ROOF TOP UNIT
SF	SUPPLY FAN
S/A	SUPPLY AIR
SP	STATIC PRESSURE
TDE	TOP DUCT ELEVATION
TEMP.	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP.	TYPICAL
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE

MECHANICAL SHEET INDEX	
M0.1	MECHANICAL LEGENDS, NOTES, SCHEDULES & SHEET INDEX
M1.1	MECHANICAL FLOOR & ROOF PLAN
M2.1	MECHANICAL DETAILS
M3.1	MECHANICAL SPECIFICATIONS

MECHANICAL SYMBOLS (HVAC)	
(X) (X)	TYP. SUPPLY AIR CEILING DIFFUSER. SHADING INDICATES BLOCKED QUADRANT(S) FOR 1, 2 OR 3-WAY BLOW.
(X) (X)	RETURN AIR GRILLE
(X) (X)	EXHAUST AIR GRILLE
(X) (X)	EXHAUST FAN
(X) (X)	SIDEWALL REGISTER/GRILLE
(X) (X)	FLEXIBLE DUCT (10 FT. MAX. LENGTH)
(X) (X)	RIGID ROUND DUCTWORK TO DIFFUSER
(X) (X)	HUMIDITY SENSOR
(X) (X)	WALL MOUNTED TEMPERATURE SENSOR
(X) (X)	WALL MOUNTED COMB. TEMPERATURE & HUMIDITY SENSOR
(X) (X)	WALL MOUNTED CARBON DIOXIDE SENSOR
(X) (X)	DUCT MOUNTED TEMPERATURE SENSOR
(X) (X)	FIRE DAMPER
(X) (X)	45° SIDE TAKEOFF FITTING TO DIFFUSER, WITH MANUAL VOLUME DAMPER. OUTLET DIAMETER OF FITTING IS EQUAL TO DIFFUSER NECK.
(X) (X)	DUCT SIZE DESIGNATION. SIDE SHOWN IS FIRST DIMENSION. SIZE SHOWN IS INTERNAL CLEAR OPENING. SHEET METAL SIZE MUST BE INCREASED FOR INTERNAL INSULATION WHERE SPECIFIED. (Ø = ROUND DUCT, = FLAT OVAL DUCT)
(X) (X)	TURNING VANES (NUMBER OF VANES SHALL BE BASED ON ACTUAL DUCT SIZE, NOT ON SCHEMATIC SYMBOL ON DRAWING)
(X) (X)	RETURN, EXHAUST OR OUTSIDE AIR DUCT
(X) (X)	DISCHARGE OR SUPPLY DUCT
(X) (X)	FLEXIBLE DUCT CONNECTION
(X) (X)	VOLUME DAMPER (MANUAL)
(X) (X)	MOTORIZED CONTROL DAMPER
(X) (X)	ANGLED DROP IN DUCT
(X) (X)	ANGLED RISE IN DUCT
(X) (X)	SPACE RELATIVE PRESSURE RELATIONSHIP. LACK OF SYMBOL INDICATES NEUTRAL PRESSURE.
* NOTE: NOT ALL SYMBOLS USED	

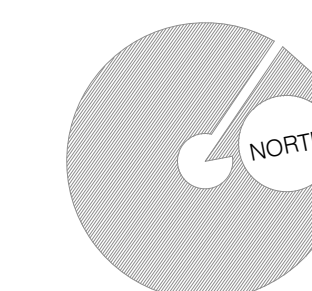
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Issued Date:

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**MECHANICAL NOTES**

AS NOTED

PROGRESS SET/NFC 03/04/2016

**M 0.1**