CHILLED WATER AIR HANDLING UNIT SCHEDULE

GENERAL				SUPPLY FAN							RETURN FAN						PRE FILTER		FINAL FILTER		CHILLED WATER COOLING COIL													ELECTRICAL	GENERAL	
UNIT TAG	AREA	MANUFACTURER	MODEL	SA (CFM)	OA (CFM)	EXTERNAL STATIC (IN.WG.)	QUANTITY	HP (EA)	TYPE	STARTER	RETURN / EXHAUST AIRFLOW (CFM)	EXTERNAL STATIC (IN.WG.)	QUANTITY	HP (EA)	TYPE	STARTER	TYPE	DIRTY FILTER LOSS (IN.WG.)	TYPE	DIRTY FILTER LOSS (IN.WG.)	SENSIBLE (BTUH)	TOTAL (BTUH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	OAT DB (°F)	OAT WB (°F)	MAX ROWS	MAX FPI	EWT (°F)	LWT (°F)	FLOW (GPM)	PIPE SIZE (IN)	V/PH/HZ	WEIGHT (LBS.)	REMARKS
AHU-2	WEST PATIENT ROOMS	JCI	SOLUTION XT	26,000	7,500	3.2	2	30	DIRECT DRIVE PLENUM	VFD	18,500	2.5	2	10	DIRECT	VFD	MERV 11	0.75	MERV 14	1.50	832,195	1,313,420	79.5	66.7	50	49.5	98	79	8	10	42	58	164	4	460/3/60	10,400	SEE ALL

NOTES:
1. UNIT SHALL BE MOUNTED ON 6" BASE RAIL.
2. PROVIDE WITH A SEPARATE VFD FOR EACH FAN MOTOR. MOTOR SHALL BE CONTROLLED FROM REMOTE DUCT MOUNTED PRESSURE SENSOR.
3. TOTAL STATIC PRESSURE OF UNIT SHALL INCLUDE FILTER LOSSES AS SCHEDULED.
4. PROVIDE UV LIGHTS DOWNSTREAM OF THE COOLING COIL.
5. PROVIDE MARINE LIGHTS IN EACH SECTION OF UNIT.
6. PROVIDE FILTER GAUGES ACROSS THE PRE AND FINAL FILTERS.
7. PROVIDE EACH FAN SECTION WITH MANUAL BLANK OFF PLATE TO ISOLATE FAN SECTION FROM THE REST OF THE SYSTEM.
8. ACCESS DOORS SHALL BE PROVIDED IN EACH SECTION OF UNIT AND SHALL OPEN AGAINST PRESSURE.
9. INTEGRATE ALL NEW CONTROL POINTS INTO EXISTING BUILDING AUTOMATION SYSTEM.
10. PROVIDE SEPARATE ELECTRICAL CONNECTION FOR UV LIGHTS AND MARINE LIGHTS.
11. PROVIDE SINGLE POINT CONNECTION FOR EACH FAN MOTOR.
12. PROVIDE (2) DISCONNECTS. (1) FOR THE SUPPLY FANS, AND (1) FOR THE RETURN FANS.

AIR DEVICE SCHEDULE

AIR DEVICE TAG:
A 100 — CFM
MARK
100 – SUPPLY
100R – RETURN
100E – EXHAUST

NOTES:
1. FRAME STYLE SHALL MATCH CEILING TYPE. REFER TO ARCHITECTURAL PLANS.
2. REFER TO AIR DEVICE CONNECTION SCHEDULE FOR NECK AND DUCT RUNOUT SIZE.

DEVICE TAG	MANUFACTURER	MODEL	FACE SIZE	DESCRIPTION
A	TITUS	OMNI	24/24 OR 12/12	SUPPLY, HIGH PERFORMANCE PLAQUE FACE DIFFUSER, 360° PATTERN, ALUMINUM CONSTRUCTION, NECK SIZE PER SCHEDULE, WHITE FINISH.
B	TITUS	PAR	24/24 OR 12/12	RETURN OR EXHAUST, PERFORATED FACE CONSTRUCTED OF ALUMINUM, HINGED FACE FOR EASY CLEANING, STEEL CONSTRUCTION BACK PANEL AND FRAME, NECK SIZE PER SCHEDULE, WHITE FINISH.

AIR DEVICE CONNECTION SCHEDULE

THIS SCHEDULE APPLIES TO SUPPLY, RETURN, AND EXHAUST GRILLES, REGISTERS, AND DIFFUSERS.

AIR QUANTITY (CFM)	DEVICE NECK SIZE	BRANCH DUCT SIZE	
		ROUND DUCT	ALTERNATE RECTANGULAR DUCT
0–100	6"ø	6"ø	8X4
101–210	8"ø	8"ø	10X6
211–380	10"ø	10"ø	10X8
381–600	12"ø	12"ø	12X10
601–900	14"ø	14"ø	16X10
901–1300	16"ø	16"ø	18X12

TERMINAL UNIT SCHEDULE - HOT WATER REHEAT

UNIT TAG	AHU SYSTEM NUMBER	MANUFACTURER	MODEL	BOX TYPE	MAX CFM	MIN CFM	S.P. AT INLET (IN) W.G.	MAX. P.D. THRU BOX (IN) W.G.	BOX INLET SIZE (IN)	DUCT RUNOUT TO BOX		HOT WATER HEATING COIL								ELECTRICAL	REMARKS
										ROUND	ALTERNATE RECTANGLE	EAT (°F)	LAT (°F)	BTUH	EWT	LWT	GPM	BRANCH PIPE SIZE	FRICTION LOSS (FT. OF HEAD / 100 FT.)	POWER VOL/PH/HZ	
TU-2-1	AHU-2	TITUS	DESV	VAV	350	210	1.0	.2	6	8	-	55	95	9,072	130	110	0.9	1/2	0-5.0	120/1/60	1,2,3,4
TU-2-2	AHU-2	TITUS	DESV	VAV	350	210	1.0	.2	6	8	-	55	95	9,072	130	110	0.9	1/2	0-5.0	120/1/60	1,2,3,4
TU-2-3	AHU-2	TITUS	DESV	VAV	500	300	1.0	.2	8	10	-	55	95	12,960	130	110	1.3	3/4	1.5-5.0	120/1/60	1,2,3,4
TU-2-4	AHU-2	TITUS	DESV	VAV	350	210	1.0	.2	6	8	-	55	95	9,072	130	110	0.9	1/2	0-5.0	120/1/60	1,2,3,4
TU-2-5	AHU-2	TITUS	DESV	VAV	500	300	1.0	.2	8	10	-	55	95	12,960	130	110	1.3	3/4	1.5-5.0	120/1/60	1,2,3,4
TU-2-6	AHU-2	TITUS	DESV	VAV	350	210	1.0	.2	6	8	-	55	95	9,072	130	110	0.9	1/2	0-5.0	120/1/60	1,2,3,4
TU-2-7	AHU-2	TITUS	DESV	VAV	525	320	1.0	.2	8	10	-	55	95	13,824	130	110	1.4	3/4	1.5-5.0	120/1/60	1,2,3,4
TU-2-8	AHU-2	TITUS	DESV	VAV	1175	710	1.0	.5	10	12	16x8	55	95	30,672	130	110	3.1	3/4	1.5-5.0	120/1/60	1,2,3,4
TU-2-9	AHU-2	TITUS	DESV	VAV	360	220	1.0	.2	6	8	-	55	95	9,504	130	110	0.9	1/2	0-5.0	120/1/60	1,2,3,4
TU-2-10	AHU-2	TITUS	DESV	VAV	300	180	1.0	.2	6	8	-	55	95	7,776	130	110	0.8	1/2	0-5.0	120/1/60	1,2,3,4
TU-2-11	AHU-2	TITUS	DESV	VAV	300	180	1.0	.2	6	8	-	55	95	7,776	130	110	0.8	1/2	0-5.0	120/1/60	1,2,3,4
TU-2-12	AHU-2	TITUS	DESV	VAV	300	180	1.0	.2	6	8	-	55	95	7,776	130	110	0.8	1/2	0-5.0	120/1/60	1,2,3,4
TU-2-13	AHU-2	TITUS	DESV	VAV	300	180	1.0	.2	6	8	-	55	95	7,776	130	110	0.8	1/2	0-5.0	120/1/60	1,2,3,4
TU-2-14	AHU-2	TITUS	DESV	VAV	300	180	1.0	.2	6	8	-	55	95	7,776	130	110	0.8	1/2	0-5.0	120/1/60	1,2,3,4
TU-2-15	AHU-2	TITUS	DESV	VAV	300	180	1.0	.2	6	8	-	55	95	7,776	130	110	0.8	1/2	0-5.0	120/1/60	1,2,3,4
TU-6-1	AHU-6	TITUS	DESV	VAV	800	480	1.0	.35	10	12	16x8	55	95	20,736	130	110	2.1	3/4	1.5-5.0	120/1/60	1,2,3,4,5
TU-6-2	AHU-6	TITUS	DESV	VAV	1700	1020	1.0	.5	12	14	22x8	55	95	44,064	130	110	4.4	1	1.6-5.0	120/1/60	1,2,3,4,5
TU-6-3	AHU-6	TITUS	DESV	VAV	600	360	1.0	.2	8	10	-	55	95	15,552	130	110	1.6	3/4	1.5-5.0	120/1/60	1,2,3,4,5
TU-6-4	AHU-6	TITUS	DESV	VAV	400	240	1.0	.2	6	8	-	55	95	10,368	130	110	1.0	3/4	1.5-5.0	120/1/60	1,2,3,4,5

NOTES:
1. CONTROLS SHALL BE MOUNTED BY MANUFACTURER.
2. PROVIDE CONTROL VOLTAGE TRANSFORMER.
3. PROVIDE HOT WATER REHEAT COIL WITH MODULATING 2-WAY CONTROL VALVE UNLESS NOTED OTHERWISE ON PLANS.
4. THE CONTRACTOR IS REQUIRED TO RENAME THE TU TAGS TO MATCH THE EXISTING FACILITY NAMING CONVENTION. THIS INCLUDES THE BAS PROGRAM AND THE PHYSICAL BOX TAGS.
5. ADD TERMINAL UNIT TO EXISTING AHU GRAPHICS ON THE BAS.

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Rio Grande REGIONAL HOSPITAL
An HCA Affiliated Hospital

3rd Floor
INPATIENT
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SCHEDULES - MECHANICAL

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