POOL DEHUMIDIFICATION UNIT SCHEDULE

MARK	LOCATION/SERVING	SELECTION BASED ON		SUPPLY FAN DATA				EXHAUST/RETURN FAN DATA				UNIT DEHUMIDIFICATION/REHEAT DATA						POOL WATER CONDENSER			GAS FURNACE SECTION				ELECTRICAL DATA			NOTES
		MFR	MODEL	SUPPLY (CFM)	MIN OA (CFM)	ESP (WC)	TSP (WC)	SERVICE	CFM	ESP (WC)	TSP (WC)	EVAPORATION CAPACITY MBH	REHEAT CAPACITY MBH	OUTDOOR WINTER DB	OUTDOOR SUMMER DB/WB	INDOOR DB	INDOOR RH	COIL CAPACITY MBH	DIFF PRESSURE FT H2O	WATER FLOW GPM	MBH INPUT	MBH OUTPUT	STEPS	EAT °F	LAT °F	VOLTS/PH/HZ	MCA	MOCP	
POU-001	PAD/NATATORIUM	POOLPAK	300	24,000	6000	1.0	---	RETURN	25200	0.5	---	826	1041	2.0	95/79	85.0	60%	970	17	120	800	640	FM	---	---	460/3/60	195	225	(1)(2)

NOTES (1) OUTDOOR UNIT INTERLOCKED WITH AIR COOLED CONDENSER ACC-001. PROVIDE 100% ECONOMIZER, 2 INCH 30% FILTERS, CONVENIENCE OUTLET, AND RAIN HOODS ON THE EXHAUST AND OUTSIDE AIR DAMPERS.
(2) WEIGHT = 17,000LBS.

PACKAGED ROOFTOP UNIT SCHEDULE

MARK	LOCATION/SERVING	SELECTION BASED ON		SUPPLY FAN DATA				RELIEF/EXHAUST FAN DATA				UNIT COOLING DATA (NET)						GAS FURNACE SECTION					ELECTRICAL DATA			NOTES
		MFR	MODEL	SUPPLY (CFM)	MIN OA (CFM)	ESP (WC)	TSP (WC)	SERVICE	CFM	ESP (WC)	TSP (WC)	TH MBH	SH MBH	AIR QUANTITY CFM	EAT DB/WB °F	LAT DB/WB °F	AMB. TEMP. °F	MBH INPUT	MBH OUTPUT	STEPS	EAT °F	LAT °F	VOLTS/PH/HZ	MCA	MOCP	
RTU-001	PAD/GYM AND FITNESS	TRANE	SFHD0114P	32,550	2000-5500	2.0	---	RELIEF	31000	1.0	---	1120	781	32550	79.0/66.7	57.5/56.7	95	1000	820	MOD	42.6	65.8	460/3/60	273	300	(1)(2)

NOTES (1) PROVIDE UNIT WITH: 100% MODULATING EXHAUST WITH "STATITRAC" BUILDING PRESSURE CONTROL AND VFD WITH BYPASS; VAV SUPPLY WITH VFD AND BYPASS; 100% ECONOMIZER W/COMPARATIVE ENTHALPY CONTROL; 2-INCH THROWAWAY FILTERS; FACTORY DISCONNECT; PROGRAMMABLE NIGHT SETBACK SENSOR; EXTENDED GREASE LINES; FULLY MODULATING GAS HEAT SECTION; HIGH CAPACITY EVAPORATOR COIL; HIGH EFFICIENCY MOTORS; HINGED ACCESS DOORS; GFI CONVENIENCE OUTLET; ROOF CURB; AND CUSTOM FACTORY FINISH (COLOR BY ARCHITECT).
(2) OUTSIDE AIR QUANTITY SHALL BE CONTROLLED VIA CO2 SPACE SENSOR AND ECONOMIZER CONTROL. MINIMUM OA QUANTITY SHALL RANGE FROM 2000 CFM (UNOCCUPIED) TO 5500 CFM (FULLY OCCUPIED). UNIT SELECTION IS BASED ON 5500 CFM OA. ECONOMIZER SHALL TAKE PRECEDENCE WHEN FREE COOLING IS AVAILABLE.
(3) WEIGHT = 16,590 LBS WITHOUT CURB.

AIR COOLED CONDENSER/CONDENSING UNIT SCHEDULE

MARK	SERVING	SELECTION BASED ON		CAPACITY			ELECTRICAL DATA			NOTES
		MFR	MODEL	CAP MBH	COND TEMP	AMBIENT TEMP	VOLTS/PH/HZ	MCA	MOCP	
ACC-001	POU-001	BOHN	BRH-070	1029	120	95	460/3/60	14	20	(1)
ACC-201	CC-201	TRANE	RAUC-C60	736	115	95	460/3/60	123	125	(2)(3)

NOTES (1) CONDENSER WITH FACTORY MOUNTED DISCONNECT. WEIGHT = 1760 LBS.
(2) CONDENSING UNIT WITH FACTORY MOUNTED DISCONNECT AND SUPPLY AIR VAV CONTROL. WEIGHT = 3480 LBS.
(3) UNIT SHALL BE PAINTED SAME COLOR AS AHU-201 (COLOR BY ARCHITECT)

MODULAR AIR HANDLING UNIT SCHEDULE

MARK	LOCATION/SERVING	SELECTION BASED ON		SUPPLY FAN MODULE							EXHAUST/RETURN FAN MODULE						MODULES																								ELECTRICAL DATA			NOTES
		MFR	MODEL	CFM	MIN OA	DISCHARGE	TYPE	TSP (WC)	ESP (WC)	MOTOR HP	SERVICE	CFM	TYPE	TSP (WC)	ESP (WC)	MOTOR HP	MIXING BOX	ECON-OMIZER	EX-HAUST	AIR BLENDER	FLAT FILTER	ANGLED FILTER	BAG FILTER	CART. FILTER	SMALL ACCESS	MED. ACCESS	M/L ACCESS	LARGE ACCESS	SMALL COIL	MED. COIL	M/L COIL	LARGE COIL	MOIST ELIM	FACE/ BYPASS	FACE DAMPER	DIF-FUSER	DISCH PLENUM	INLET HOOD	EXH HOOD	DISCH PLENUM	CUSTOM MODULE	VOLTS/PH/HZ	MCA	MOCP	
AHU-201	ROOF/LOBBY & OFFICES	TRANE	TSCX-30	15,000	6000	VERTICAL	PLUG	5.2	2.4	20	EXHAUST	6000	BI	2.9	.75	.5	2	---	1	---	---	---	---	---	1	1	---	---	CC-201	---	---	---	---	---	---	---	---	---	---	---	ERV-201	460/3/60	---	---	(1)(2)(3)(4)

NOTES (1) PROVIDE UNIT WITH: VAV SUPPLY WITH VFD AND BYPASS; HIGH EFFICIENCY E+ TEFC MOTORS; EXTENDED GREASE FITTINGS; 2-INCH THROWAWAY FILTERS; INSULATED VIBRATION ISOLATION/SEISMIC ROOF CURB; AND FACTORY MOUNTED DDC CONTROLS TO ACHIEVE SPECIFIED SEQUENCE OF OPERATION.
(2) PROVIDE EACH MOTOR SECTION WITH FACTORY MOUNTED DISCONNECT.
(3) WEIGHT = 9982 LBS W/CURB.
(4) CUSTOM FACTORY FINISH (COLOR BY ARCHITECT)

ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	SERVING	SELECTION BASED ON		SUPPLY AIR CFM	SUPPLY AIR PD	EXH AIR CFM	EXH AIR PD	HEAT XFER EFF	COOLING MODE			HEATING MODE			ELECTRICAL DATA			NOTES
		MFR	MODEL						OUTDOOR DB/WB °F	RETURN DB/WB °F	SUPPLY DB/WB °F	OUTDOOR DB/WB °F	RETURN DB/WB °F	SUPPLY DB/WB °F	V/PH/HZ	MCA	MOCP	
ERV-201	AHU-201	TRANE	TSC-30	6000	1.1	6000	1.1	73.3%	95/79	77/67	82/70.5	2/2	70/53	52/42.4	460/3/60	0.8	15	(1)(2)

NOTES (1) INTEGRAL WITH AHU-201. PROVIDE FACTORY MOUNTED DISCONNECT. (2) CUSTOM FACTORY FINISH (COLOR BY ARCHITECT)

COOLING COIL SCHEDULE

MARK	SERVICE	TOTAL HEAT MBH	SENS HEAT MBH	CFM	FACE VEL FPM	EAT DB/WB °F	LAT DB/WB °F	APD IN WC MAX	SUCTION °F	LIQUID °F	REFRIG TYPE	NOTES
CC-201	AHU-201	736	576	15,000	517	87/68	52/51.9	1.0	42	115	R-22	(1)

NOTES (1) ARI CERTIFIED PERFORMANCE WITH INTERTWINED CIRCUITING.

FAN SCHEDULE

MARK	SERVING	TYPE	SELECTION BASED ON		CFM	ESP IN WC	RPM	DRIVE TYPE	MOTOR DATA		NOTES
			MFR	MODEL					HP	VOLTS/PH/HZ	
EF-001	GENERAL EXHAUST	IN-LINE	COOK	100SQN150	750	0.5	1548	DIRECT	1/6	115/1/60	(1)
EF-002	POOL MECHANICAL	IN-LINE	COOK	120SQN100	900	0.25	1119	DIRECT	1/6	115/1/60	(1)(2)
EF-003	DRYER VENT	IN-LINE	COOK	70SQN120	100	0.25	3140	DIRECT	1/20	115/1/60	(5)
CF-001	PH-001 COMBUSTION	IN-LINE	LOCHINVAR	CPN099O	--	--	--	--	12.6A	115/1/60	(3)
CF-002	DWH-001 COMBUSTION	WALL	LOCHINVAR	CF300	--	--	--	--	4.3A	115/1/60	(4)

NOTES (1) PROVIDE UNIT WITH BACKDRAFT DAMPER, VARIABLE SPEED CONTROLLER, SPRING HANGER ISOLATERS AND FACTORY MOUNTED DISCONNECT.
(2) UNIT SHALL HAVE FACTORY APPLIED BAKED PHENOLIC COATING.
(3) COMBUSTION FAN PROVIDED BY BOILER MANUFACTURER, INTERLOCK W/PH-001.
(4) COMBUSTION FAN PROVIDED BY BOILER MANUFACTURER AND PLUMBING CONTRACTOR, INTERLOCKED W/DWH-001.
(5) PROVIDE BACKDRAFT DAMPER AND UNIT MOUNTED VARIABLE SPEED CONTROLLER. INTERLOCK WITH DRYER.

PUMP SCHEDULE

MARK	SERVING	SELECTION BASED ON		GPM	HEAD FT. WATER	RPM	MOTOR DATA		NOTES
		MFR	MODEL				HP	V/PH/HZ	
P-001	POU-001	TACO	1634	120	25	1750	1	460/3/60	(1)
P-002	PH-001	LOCHINVAR	CPN099O	90	15	1750	1/2	115/1/60	(1)(2)

NOTES (1) ALL BRONZE CONSTRUCTION, TEFC STANDARD EFFICIENCY MOTOR.
(2) BYPASS PUMP PROVIDED BY BOILER MANUFACTURER, INTERLOCKED W/PH-001.

WATER HEATER SCHEDULE - NATURAL GAS

MARK	SERVING	SELECTION BASED ON		INPUT MBH	OUTPUT MBH	FUEL CONN. SIZE	WATER CONN. SIZE	COMB INLET SIZE	VENT SIZE	ELECTRICAL DATA		NOTES
		MFR	MODEL							AMPS	V/PH/HZ	
PH-001	POOL	LOCHINVAR	CPN099O	990	881.1	1-1/2"	2"	10"	10"	21.8	115/1/60	(1)

NOTES (1) UNIT SHALL BE EQUIPPED WITH A FACTORY MOUNTED EXTERNAL BYPASS WITH AN ALL BRONZE PUMP (P-002), AN ALARM BELL, MANUAL RESET HIGH LIMIT, CUPRO-NICKEL HEAT EXCHANGER, AND POWERED VENT CAP (CF-001) FOR HORIZONTAL VENTING.

TERMINAL UNIT SCHEDULE

MARK	SERVING	SELECTION BASED ON		INLET SIZE	PRIMARY CFM (MAX./MIN.)	FAN CFM	ESP IN WC	MAX STATIC @INLET IN WC	MAX NC	FAN HP	FAN V/PH/HZ	ELECTRIC REHEAT COIL DATA						NOTES
		MFR	MODEL									MINIMUM CAPACITY MBH	EAT °F	LAT °F	KW	STEPS	V/PH/HZ	
FTU-001	ARTS & CRAFTS 106	TRANE	VSEF-1206	12"ø	1200/400	1200	.25	1.5	40	1/2	277/1/60	23.9	62.0	80.4	7.0	3	480/3/60	(1)
FTU-002	MULTI-PURPOSE 102	TRANE	VSEF-1206	12"ø	1800/600	1800	.25	1.0	40	1/2	277/1/60	30.7	62.0	77.8	9.0	3	480/3/60	(1)
FTU-003	MULTI-PURPOSE 101	TRANE	VSEF-1206	12"ø	1800/600	1800	.25	0.5	40	1/2	277/1/60	30.7	62.0	77.8	9.0	3	480/3/60	(1)
FTU-004	STAY & PLAY 109	TRANE	VSEF-1206	12"ø	1500/600	1500	.25	0.5	45	1/2	277/1/60	34.2	60.8	81.9	10.0	3	480/3/60	(1)
FTU-005	CONFERENCE 113	TRANE	VSEF-0802	8"ø	300/0	500	.25	1.0	35	1/8	277/1/60	5.1	68.0	77.5	1.5	1	480/3/60	(1)
FTU-006	OFFICES 115-117	TRANE	VSEF-1005	10"ø	1000/100	1000	.25	1.5	40	1/2	277/1/60	13.7	66.2	78.9	4.0	2	480/3/60	(1)
FTU-007	OFFICE AREA 119	TRANE	VSEF-1005	10"ø	700/200	1200	.25	1.5	40	1/2	277/1/60	15.4	65.0	76.9	4.5	3	480/3/60	(1)
FTU-008	WET MP 118	TRANE	VSEF-0803	8"ø	750/250	750	.25	1.0	45	1/3	277/1/60	15.4	62.0	81.0	4.5	1	480/3/60	(1)
FTU-009	CONCESSIONS 120/121	TRANE	VSEF-0501	5"ø	350/50	350	.25	1.0	45	1/8	277/1/60	3.4	65.4	74.5	1.0	1	480/3/60	(1)
FTU-010	FAMILY SHOWER 143	TRANE	VSEF-0602	6"ø	300/0	600	.25	0.5	45	1/8	277/1/60	5.1	68.0	75.9	1.5	1	480/3/60	(1)
FTU-011	WOMEN'S LOCKER 144	TRANE	VSEF-1005	10"ø	600/0	1300	.25	0.5	45	1/2	277/1/60	10.2	68.0	75.3	3.0	2	480/3/60	(1)
FTU-012	MEN'S LOCKER 148	TRANE	VSEF-1005	10"ø	600/0	1300	.25	0.5	45	1/2	277/1/60	10.2	68.0	75.3	3.0	2	480/3/60	(1)
FTU-013	AEROBICS MP 151	TRANE	VSEF-1406	14"ø	2400/900	2100	.25	1.0	45	1/2	277/1/60	41.0	64.6	82.6	12.0	3	480/3/60	(1)
VAV-001	VESTIBULE 128	TRANE	VCEF-06	6"ø	250/250	---	---	1.5	45	---	---	10.2	50.0	87.9	3.0	1	480/3/60	(2)
VAV-002	VESTIBULE 100	TRANE	VCEF-06	6"ø	250/250	---	---	0.5	45	---	---	8.5	50.0	81.6	2.5	1	480/3/60	(2)
VAV-003	HALL 103	TRANE	VCEF-08	8"ø	450/450	---	---	1.0	45	---	---	17.1	50.0	85.1	5.0	1	480/3/60	(2)
VAV-004	BREAKROOM 110	TRANE	VCEF-08	8"ø	550/210	---	---	1.0	40	---	---	8.5	50.0	87.6	2.5	1	480/3/60	(2)
VAV-005	LOBBY 127	TRANE	VCEF-14	14"ø	2400/1200	---	---	1.5	45	---	---	54.8	50.0	92.2	16.0	3	480/3/60	(2)
VAV-006	LOUNGE 125	TRANE	VCEF-14	14"ø	2400/1200	---	---	1.0	40	---	---	54.8	50.0	92.2	16.0	3	480/3/60	(2)
VAV-007	ROOMS 145-147	TRANE	VCEF-06	6"ø	400/400	---	---	0.5	50	---	---	10.2	50.0	73.7	3.0	1	480/3/60	(2)
VAV-008	PUMP ROOM 152	TRANE	VCEF-08	8"ø	850/850	---	---	0.5	45	---	---	13.7	60.0	74.9	4.0	2	480/3/60	(2)
VAV-009	HALL 137	TRANE	VCEF-08	8"ø	590/590	---	---	0.5	45	---	---	13.7	60.0	83.0	4.0	2	480/3/60	(2)
VAV-010	EAST GYM 134	TRANE	VCEF-24RT	24"x16"	8000/3000	---	---	0.5	45	---	---	122.8	60.0	97.5	36.0	3	480/3/60	(3)
VAV-011	WEST GYM 134	TRANE	VCEF-24RT	24"x16"	8000/3000	---	---	0.5	45	---	---	122.8	60.0	97.5	36.0	3	480/3/60	(3)
VAV-012	EAST FITNESS 201	TRANE	VCEF-24RT	24"x16"	7000/2500	---	---	0.5	45	---	---	75.1	60.0	87.6	22.0	3	480/3/60	(3)
VAV-013	WEST FITNESS 201	TRANE	VCEF-24RT	24"x16"	7000/2500	---	---	0.5	45	---	---	75.1	60.0	87.6	22.0	3	480/3/60	(3)
VAV-014	FITNESS ADDITION	TRANE	VCEF-24RT	24"x16"	5800/2300	---	---	0.5	45	---	---	78.5	60.0	91.1	23.0	3	480/3/60	(3)(4)

NOTES (1) SERIES FLOW FAN POWERED TERMINAL UNIT WITH 1/2" FOIL FACED INSULATION, 24 VOLT CONTROL TRANSFORMER, MERCURY CONTACTOR, AIRFLOW SWITCH, DDC CONTROLLER AND ZONE SENSOR.
(2) SINGLE DUCT VARIABLE VOLUME UNIT WITH 1/2" FOIL FACED INSULATION, 24 VOLT CONTROL TRANSFORMER, MERCURY CONTACTOR, AIRFLOW SWITCH, DDC CONTROLLER AND ZONE SENSOR.
(3) SINGLE DUCT VARIABLE VOLUME UNIT WITH 1/2" FOIL FACED INSULATION, 24 VOLT CONTROL TRANSFORMER, MERCURY CONTACTOR, AIRFLOW SWITCH, FACTORY DISCONNECT, DDC CONTROLLER AND ZONE SENSOR.
(4) PROVIDE IF FITNESS ADDITION ALTERNATE IS ACCEPTED

AIR DEVICE SCHEDULE

MARK	SELECTION BASED ON		DIFFUSER/SLOT					REGISTER/GRILLE	DAMPER	MOUNTING	PATTERN	FINISH	MATERIAL	NOTES
	MFR	MODEL	MODULE SIZE	NECK SIZE	LENGTH	NO. SLOTS	SLOT WIDTH	NOMINAL DUCT SIZE						
S-1	TITUS	PAS-AA	24x24	SEE PLAN	--	--	--	SEE PLAN	--	T-BAR	SEE PLAN	WHITE	ALUMINUM	
S-2	SEIHO	NT	8"ø	SEE PLAN	--	--	--	SEE PLAN	--	DUCT	SEE PLAN	ANODIZED	ALUMINUM	
S-3	TITUS	PAS-AA	12x12	SEE PLAN	--	--	--	--	OBD	PLASTER	--	WHITE	ALUMINUM	(1)(6)
S-4	TITUS	301FL	--	--	--	--	--	SEE PLAN	OBD	WALL	SEE PLAN	WHITE	ALUMINUM	(1)
S-5	TITUS	CT-PP-O	--	6" WIDE	--	--	--	SEE PLAN	OBD	--	--	ANODIZED	ALUMINUM	(1)(3)(4)(5)
S-6	ANEMOSTAT	LBD-R	--	--	SEE PLAN	2	3/4"	--	--	DUCT	--	WHITE	ALUMINUM	
S-7	TITUS	PAS-AA	24x24	SEE PLAN	--	--	--	--	OBD	PLASTER	--	WHITE	ALUMINUM	(1)(6)
S-8	ANEMOSTAT	DJ-1	11x11	8"ø	--	--	--	--	OBD	DUCT	SEE PLAN	WHITE	ALUMINUM	(1)
S-9	ANEMOSTAT	DJ-2	11x22	(2) 8"ø	--	--	--	--	OBD	DUCT	SEE PLAN	WHITE	ALUMINUM	(1)
S-10	ANEMOSTAT	DJ-3	11x33	(3) 8"ø	--	--	--	--	OBD	DUCT	SEE PLAN	WHITE	ALUMINUM	(1)
R-1	TITUS	PAR-AA	24x24	22x22	--	--	--	--	--	T-BAR	--	WHITE	ALUMINUM	(7)(4)
R-2	TITUS	PAR-AA	12x12	10x10	--	--	--	--	--	T-BAR	--	WHITE	ALUMINUM	(7)(4)
R-3	TITUS	350FL	--	SEE PLAN	--	--	--	SEE PLAN	--	WALL	--	WHITE	ALUMINUM	(4)
R-4	TITUS	350RL	--	SEE PLAN	--	--	--	SEE PLAN	--	WALL	--	WHITE	STEEL	(2)(4)
E-1	TITUS	PAR-AA	24x24	SEE PLAN	--	--	--	SEE PLAN	OBD	PLASTER	--	WHITE	ALUMINUM	(1)(4)(6)
E-2	TITUS	PAR-AA	12x12	6"ø	--	--	--	--	OBD	PLASTER	--	WHITE	ALUMINUM	(1)(4)(6)
E-3	TITUS	1700L	--	--	--	--	--	SEE PLAN	OBD	DUCT	--	WHITE	ALUMINUM	(1)
E-4	TITUS	PAR-AA	24x24	SEE PLAN	--	--	--	SEE PLAN	--	T-BAR	--	WHITE	ALUMINUM	
E-5	TITUS	8SS	--	--	--	--	--	SEE PLAN	OBD	DUCT	--	MILL	304 SS	(1)

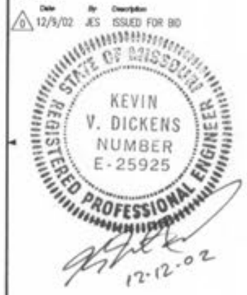
NOTES (1) OBD - OPPOSED BLADE DAMPER MOUNTED IN COLLAR
(2) 16 GAUGE HEAVY DUTY GRILLE W/REINFORCED CONSTRUCTION
(3) PROVIDE A TYPE 13 BORDER WITH TYPE AG-35 OPPOSED BLADE DAMPER
(4) AREA VISIBLE BEHIND GRILLE SHALL BE PAINTED FLAT BLACK
(5) AR- PROVIDE CONTINUOUS LENGTH AS REQUIRED WITH ALIGNMENT STRIPS AND COORDINATE WITH ARCHITECTURAL SILL DETAIL
(6) PROVIDE SURFACE MOUNTING TRIM FRAME FOR PLASTER APPLICATION
(7) PROVIDE SOUND TRAP PER DETAIL B1, DWG H601

JE JACOBS

333 North Broadway, Saint Louis, Missouri 63102-2121

Revisions

Date	By	Description
0 12/9/02	JES	ISSUED FOR BID



RENAUD SPIRIT CENTER
For the City of O'Fallon - Missouri

Key Plan

Scale

Jacobs Project No: F0W43800

Drawing Title
HVAC
SCHEDULES

Date: DECEMBER 9, 2002

Designed By: K. DICKENS | Drawing No.:
Drawn By: J. STILWELL | H002
Checked By: K. DICKENS