

AIR HANDLING UNIT SCHEDULE																										
MARK	MAKE	MODEL	SUPPLY AIRFLOW		SUPPLY FAN E.S.P.		SUPPLY FAN POWER		RETURN FAN E.S.P.		RETURN FAN POWER		MINIMUM O/A		HEAT INPUT		FILTERS	COOLING CAPACITY			MAXIMUM DIMENSIONS (WxDxH)		NOTES			
			(cfm)	(L/s)	("w.c.)	(Pa)	(hp)	(kW)	("w.c.)	(Pa)	(hp)	(kW)	(cfm)	(L/s)	(%)	(Btu/h)		(kW)	(Btu/h)	(kW)	(tons)	(mm)		(in)		
AHU	1	DAIKIN	CAH037GDDM	21000	9911	1.50	373	20.00	14.91	0.75	187	15.00	11.19	1750	826	8.3	315000.0	92	MERV 8 & 13 Pleated	478006.0	140	39.8	208/360	2250x487x3650	90x192x146	

DIFFUSER & GRILLES SCHEDULE			
MARK	MAKE	MODEL	NOTES
S	1	XXx8/LBPH26C/187/B12	1
S	2	10'24x24/SCD31/3C/B12	
S	3	6'24x24/SCD31/3C/B12	
S	4	ND/16/SD	
R	1	6x8/80F/A/B12	
R	2	8x8/80F/A/B12	
R	3	12x12/80F/A/B12	
R	4	16x20/ATG18F/B15	
R	5	24x8/80F/A/B12	
O	E	OPEN ENDED DUCT	

1. Continuous linear bar grille. Confirm exact length on site prior to ordering.

HEAT/ENERGY RECOVERY VENTILATION UNIT SCHEDULE																					
MARK	MAKE	MODEL	ZONE SERVED	SUPPLY AIRFLOW		EXHAUST AIRFLOW		SUPPLY FAN E.S.P.		SUPPLY FAN POWER		EXHAUST FAN E.S.P.		EXHAUST FAN POWER		DESIGN WEIGHT		MAXIMUM DIMENSIONS (WxDxH)		NOTES	
				(cfm)	(L/s)	(cfm)	(L/s)	("w.c.)	(Pa)	(hp)	(kW)	("w.c.)	(Pa)	(hp)	(kW)	(kg)	(lbs)	(mm)	(in)		
ERV	1	Tempff	RGSP-2700	AHU-1	1750	826	1750 CFM	826 L/s	0.75	187	1.48	1.10	1.50 in-wg	373 Pa	1.48 hp	1.10 kW	582	1283	1510x1050x2100	60x42x83	

CHILLER SCHEDULE												
MARK	MAKE	MODEL	WORKING FLUID	COOLING CAPACITY			ELECTRICAL	MCA	FLA	IPLV	NOTES	
				TOTAL (Btu/h)	(kW)	(tons)						
CH	1	DAIKIN	AG2045E	R-410A	500400.0	146.7	41.7	208/360	228 A	216 A	15.4 kW	1

1. AIR COOLED CHILLER COMPLETE WITH REMOTE EVAPORATER LOCATED IN MECHANICAL ROOM.

CONDENSING UNIT SCHEDULE													
MARK	MAKE	MODEL	ZONE SERVED	COOLING CAPACITY			ELECTRICAL	DESIGN WEIGHT	MAXIMUM DIMENSIONS (WxDxH)		NOTES		
				(Btu/h)	(kW)	(tons)			(mm)	(in)			
CU	1	Mitsubishi Electric	A18NH43(BS)	IT ROOM	18000.0	5	1.5	208/1	37	82	800X300X600	32X12X24	1

1. Unit to be complete with ultra low ambient cooling kit.

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE												
MARK	MAKE	MODEL	NOMINAL SIZE	INLET DIA.	OUTLET DIM.	DESIGN AIR VOLUME		MINIMUM AIR VOLUME		MAXIMUM AIR VOLUME		NOTES
						(cfm)	(L/s)	(cfm)	(L/s)	(cfm)	(L/s)	
VAV	1	Price	SDV Size 12	12	16X15	1710	807	450	212	1600	850	1
VAV	2	Price	SDV Size 06	6	12x6	426	206	116	66	300	142	1

1. COMPLETE WITH INTEGRAL 3FT DISCHARGE ATTENUATOR. PROVIDE 120 SECOND ACTUATOR AND THERMOSTAT WITH LCD DISPLAY.

AIR CONDITIONING UNIT SCHEDULE													
MARK	MAKE	MODEL	ZONE SERVED	COOLING CAPACITY			ELECTRICAL	DESIGN WEIGHT	MAXIMUM DIMENSIONS (WxDxH)		NOTES		
				(Btu/h)	(kW)	(tons)			(mm)	(in)			
AC	1	Mitsubishi Electric	A18HA (L)	IT ROOM	18000.0	5	1.5	1-phase 208/230V 60Hz	13	29	900X250X300	36X10X12	

SILENCER SCHEDULE																							
MARK	MAKE	ZONE SERVED	NOMINAL SIZE	DESIGN AIR VOLUME		VELOCITY	W		H		L1		L2		INSERTION LOSS (dB)					NOTES			
				(cfm)	(L/s)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz		2000 Hz	4000 Hz	
S	1	Price Industries	AHU-1 SUPPLY	RSA-V4470	21000	9911	850 FPM	7'-2"	7'-2"	2'-8"	2'-8"	10'-0"	10'-0"	0'-0"	0'-0"	10	19	30	29	29	16	15	
S	2	Price Industries	AHU-1 RETURN	REA-36V12	19000	8967	880 FPM	6'-4"	6'-4"	3'-0"	3'-0"	5'-0"	5'-0"	5'-0"	5'-0"	15	21	34	36	40	39	34	1
S	3	Price Industries	AHU-1 SUPPLY	REA-36V30-EW	4100	1935	950 FPM	2'-0"	2'-0"	2'-4"	2'-4"	5'-0"	5'-0"	2'-0"	2'-0"	16	27	39	44	53	44	37	1

1. ELBOW SILENCER

LOUVER SCHEDULE											
MARK	MANUFACTURER	MODEL	WIDTH		HEIGHT		MAXIMUM RATED AIRFLOW		MAXIMUM ALLOWABLE PRESSURE DROP		Description_ese
			in	mm	in	mm	CFM	L/s	0.14 in-wg	0.14 in-wg	
L	1	PRICE	156"	3960	36"	910	20900 CFM	9854	0.14 in-wg	0.14 in-wg	LOUVER COMPLETE WITH 1/2" BIRD SCREEN AND MOTORIZED DAMPER. FACTORY BAKED ENAMEL FINISH. COORDINATE COLOUR WITH PRIME CONSULTANT.
L	2	PRICE	84"	2130	126"	3250	23500 CFM	11091	0.12 in-wg	0.12 in-wg	LOUVER COMPLETE WITH 1/2" BIRD SCREEN AND MOTORIZED DAMPER. FACTORY BAKED ENAMEL FINISH. COORDINATE COLOUR WITH PRIME CONSULTANT.
L	3	PRICE	30"	760	16"	410	1000 CFM	472	0.14 in-wg	0.14 in-wg	LOUVER COMPLETE WITH 1/2" BIRD SCREEN AND MOTORIZED DAMPER. FACTORY BAKED ENAMEL FINISH. COORDINATE COLOUR WITH PRIME CONSULTANT.
L	4	PRICE	16"	410	16"	410	560 CFM	264	0.14 in-wg	0.14 in-wg	LOUVER COMPLETE WITH 1/2" BIRD SCREEN AND MOTORIZED DAMPER. FACTORY BAKED ENAMEL FINISH. COORDINATE COLOUR WITH PRIME CONSULTANT.

FAN SCHEDULE								
MARK	MAKE	MODEL	FAN E.S.P.	AIRFLOW	FAN POWER	ELECTRICAL	NOTES	
								F
F	2	Fantech	FG 12	0.50 in-wg	500 CFM	0.26 hp	120/60/1	1
F	3	Fantech	FG 12	0.50 in-wg	500 CFM	0.26 hp	120/60/1	1

1. ORDER FAN w/ SPEED CONTROLLER.

BOILER SCHEDULE																			
MARK	MAKE	MODEL	WORKING FLUID	INPUT CAPACITY		OUTPUT CAPACITY		DESIGN FLOW	MINIMUM FLOW	T. IN	T. OUT	PRESSURE DROP	MAX OPERATING PRESSURE	ELECTRICAL	DESIGN WEIGHT		MAXIMUM DIMENSIONS (WxDxH)		NOTES
				(GAL.)	(L/hrs)	(GAL.)	(L/hrs)								(GAL.)	(L/hrs)	(kg)	(lbs)	
B	1	HydroTherm	KN-4	Hot Water	399000 Btu/h	369000 Btu/h	28 GPM	7 GPM	90 °F	140 °F	1.00 FT	100.00 psi	120/60/1	375	827	689x559x1248	27x22x49		
B	2	HydroTherm	KN-4	Hot Water	399000 Btu/h	369000 Btu/h	28 GPM	7 GPM	90 °F	140 °F	1.00 FT	100.00 psi	120/60/1	375	827	689x559x1248	27x22x49		

AIR & AIR SEDIMENT SEPARATOR SCHEDULE								
MARK	MAKE	MODEL	FLOW	ALLOWABLE PRESSURE DROP	CONNECTION		NOTES	
					(in)	(mm)		
AS	1	Bell & Gossett	RL-3N	98	6	0' - 3"	76	

HOT WATER TANK SCHEDULE											
MARK	MAKE	MODEL	HEAT INPUT	TEMPERATURE RISE		DESIGN WEIGHT		MAXIMUM DIMENSIONS (WxDxH)	ELECTRICAL	NOTES	
				(°F)	(°C)	(kg)	(lbs)				
DWH	1	Rheem	95DVLN	199900 Btu/h	80	112	37	82	18x10x27 in	120/160	

UNIT HEATER SCHEDULE												
MARK	MAKE	MODEL	HEATING CAPACITY		COIL FLOW		COIL HEAD		AIR VOLUME		NOTES	
			(Btu/h)	(kW)	(GPM)	(L/S)	(ftH2O)	(kPa)	(cfm)	(L/s)		
UH	1	STERLING	VS-104	35000.0	10.26	7	0.44	0.44	1.32	1528	721	

PUMP SCHEDULE											
MARK	MAKE	MODEL	FLOW	HEAD	MOTOR	ELECTRICAL	DESIGN WEIGHT		NOTES		
							(kg)	(lb)			
P	1	Bell & Gossett	eccocirc XL 70-145	78 GPM	50 FT	2.00 hp	208V	18	39	1	
P	2	Bell & Gossett	eccocirc XL 70-145	78 GPM	50 FT	2.00 hp	208V	18	39	1	
P	3	Bell & Gossett	eccocirc XL 65-130	32 GPM	29 FT	0.50 hp	208V	12	26	2	
P	4	Bell & Gossett	eccocirc XL 65-130	32 GPM	29 FT	0.50 hp	208V	12	26	2	
P	5	Bell & Gossett	eccocirc XL B 20-35	3 GPM	10 FT	0.08 hp	115V	9	20	4	
P	6	Little Giant	ESP33M	34 GPM	10 FT	0.33 hp	115V	9	20	3	
P	7	Little Giant	ESP33M	34 GPM	10 FT	0.33 hp	115V	9	20	3	

1. PUMPS OPERATE IN PARRALLEL DURING COOLING AND DUTY STANDBY ON HEATING.
 2. PUMPS OPERATE DUTY STANDBY.
 3. PROVIDE DUPLEX CONTROLLER, TIE ALARM TO DDC.
 4. RECIRCULATION ON/OFF TIED TO DDC.

WATER SOFTENER SCHEDULE												
MARK	Model	Manufacturer	Description	Inlet Diameter	Outlet Diameter	Tank Volume	Design Flow Rate	Voltage	Phase	Weight	Notes	
												WS

EXPANSION TANK SCHEDULE															
MARK	MAKE	MODEL	TYPE	SYSTEM VOLUME		TANK VOLUME		ACCEPTABLE VOLUME		FIELD CHARGE		DESIGN WEIGHT		NOTES	
				(GAL.)	(L/hrs)	(GAL.)	(L/hrs)	(GAL.)	(L/hrs)	(psi)	(kPa)	(kg)	(lbs)		
ET	1	Bell & Gossett	D-40	Diaphragm	330.0	1249.2	21.7	82.1	11.3	42.8	15.00	103.42	119	262	
ET	2	Bell & Gossett	PT-5	Diaphragm	4.0	15.1	2.0	7.6	0.9	3.4	55.00	379.21	5	11	

VARIABLE FREQUENCY DRIVE SCHEDULE						
MARK	MAKE	MODEL	SIZE (HP)	SIZE (KW)	VOLTAGE	NOTES
VFD	2	ABB, Inc.	ACH550	15	11.2	208/360

HUMIDIFIER SCHEDULE									
MARK	MAKE	MODEL	SERVES	Minimum Output		Maximum Water Pressure	POWER	ELECTRICAL	NOTES
				(Btu/hr)	(Lbs/hr)				
HU	1	Nortec	NH-EL 075	15.0	75.0	80.00 psi	28.1 kW	208/360	1

1. Complete with steam distribution and short abortion manifold. Match AHU interior width and height.

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 April 20, 2016

SCALE

hvac & plumbing
 schedule
M7.1