

PLUMBING FIXTURE CONNECTION SCHEDULE					
TAG	DESCRIPTION	SAN	VENT	CW	HU
P-1	FLOOR MOUNTED TT WC	3"	2"	1/2"	-
P-1A	ADA FLOOR MOUNTED TT WC	3"	2"	1/2"	-
P-2	VANITY TOP LAVATORY	2"	2"	1/2"	1/2"
P-2A	ADA WALL HUNG LAVATORY	2"	2"	1/2"	1/2"
P-3	ROLL-IN SHOWER	2"	2"	1/2"	1/2"
P-4	DOUBLE BOUL. SS KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-5	WASHING MACHINE HOOK-UP	3"	2"	3/4"	3/4"
P-6	MOP BASIN	2"	1-1/2"	1/2"	1/2"
FD	FLOOR DRAIN (W/ TRAP PRIMER)	3"	2"	1/2"	-

MINIMUM SIZE OF BELOW SLAB SANITARY 4 VENT PIPING SHALL BE 2".
TRAP PRIMERS ON FLOOR DRAINS SHALL BE CONNECTED TO THE NEAREST FIXTURE.

SPLIT-SYSTEM AIR CONDITIONER PERFORMANCE SCHEDULE															
* - AT ARI CONDITIONS OF 85°F AMBIENT/61°F INDOOR WB															
TAG	TOTAL COOLING (MBH)	AIRFLOW (CFM)	MOISTURE REMOVAL (PINTS/HR)	COND. DRAIN (IN)	SEER (BTU/WATT)	SOUND RATING (DB)	WEIGHT (LBS)	REFRIGERANT PIPE SIZE (IN)		ELECTRICAL REQUIREMENTS			BASIS OF DESIGN - DAIKIN		
								LIQUID	GAS	MCA	MAX FUSE	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL
SAC-1	12.0	254	-	3/4"	14.0	42	16	1/4"	3/8"	-	-	208/1/60	EMR	WALL	FTXNIZKEVJU

SPLIT-SYSTEM CONDENSING UNIT PERFORMANCE SCHEDULE													
* - AT ARI CONDITIONS OF 95°F AMBIENT, 80°F DB, 61°F WB													
TAG	TOTAL COOLING (MBH)	REFRIGERANT	CONDENSER AIRFLOW (CFM)	MINIMUM AMBIENT TEMP (°F)	FOOTPRINT DIMENSION (INCHES)	OPERATING WEIGHT (LBS)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN - DAIKIN			
							MCA	MAX FUSE	V/PH/Hz	COMP. STAGING	SOUND (BEL)	SERVICE	MODEL
SCU-1	12.0	R-410A	-	0°	26x11	66	1.0	15.0	208/1/60	-	50	SAC-1	RKNIZKEVJU

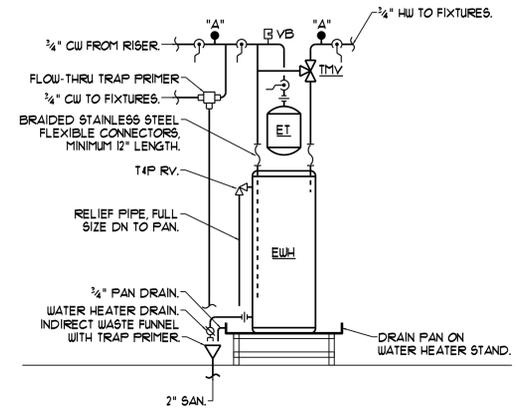
AIR DEVICE PERFORMANCE SCHEDULE										
TAG	PANEL SIZE (IN)	NECK SIZE (IN)	AIRFLOW (CFM)	SPLOSSES (IN.WG.)	THROW (L)	THROWS (S)	Nc	BASIS OF DESIGN - (P) PRICE, (A) AIR CONCEPTS		
								DUCT CONN (IN)	PATTERN	MODEL
(A)	12x6	12x6	125	0.05	-	-	15	12x6	3/4", 0", DD	(P) 1620D
(B)	12x8	12x8	225	0.05	-	-	15	12x8	3/4", 0", DD	(P) 1620D
(C)	12"φ	6"φ	150	0.05	-	-	15	6"φ	-	(A) 8PD-06
(AA)	-	12x6	100	0.05	-	-	30	SEE DWGS	3/4", 45°	(P) 1630D
(BB)	-	12x12	150	0.05	-	-	15	SEE DWGS	3/4", 45°	(P) 1630D
(CC)	-	32x12	650	0.05	-	-	15	SEE DWGS	3/4", 45°	(P) 1630D

PROVIDE ALL AIR DEVICES WITH OPPOSED BLADE DAMPERS.
PROVIDE DUCT MOUNTED SUPPLY AIR DEVICES WITH SPIRAL DUCT FRAME (SDF).

FAN PERFORMANCE SCHEDULE													
TAG	AIRFLOW LOW/HIGH (CFM)	TSP (IN.WG.)	NOISE (SONES)	RPM	DRIVE	ELECTRICAL REQUIREMENTS				BASIS OF DESIGN - (G) GREENHECK, (F) FANTECH			
						HP	BHP	WATTS	AMPS	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL
EF-1	410	0.2	-	2550	DIRECT	-	-	119	114	120/1/60	BATHROOM VENTILATION	INLINE	(F) FG-8
EF-2	210	0.2	-	2100	DIRECT	-	-	12	0.68	120/1/60	VENTILATION	INLINE	(F) FG-6
DBF	141	0.5	-	2800	DIRECT	-	-	83	0.13	120/1/60	DRYER BOOSTER FAN	INLINE	(F) DBF4XLT

DBF SHALL BE A MINIMUM OF 6FT AWAY FROM DRYERS.
PROVIDE EACH UNIT WITH MOUNTED/WIRED SPEED CONTROLLER.

ELECTRIC WATER HEATER PERFORMANCE SCHEDULE							
TAG	STORAGE (GALS)	RECOVERY @ 100°F	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN - HTP	
			HP	WATTS	V/PH/Hz	SERVICE	MODEL
EWH	30.0	-	-	4500	208/1/60	APT DHW	EV-30



ELECTRIC WATER HEATER PIPING SYSTEM SCHEMATIC NTS

TYPICAL OF ONE PER APARTMENT PLUS COMMON AREA.
CONDENSATE DRAINS FROM UNIT AHUS SHALL BE PIPED TO THIS I.W. FUNNEL.

MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND

NOTE - USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET.
SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
— CA —	COMPRESSED AIR PIPING (CA)	⊗	BACKFLOW PREVENTER (BFP)	⊕	PRESSURE GAGE WITH GAGE COCK	AAV	AUTOMATIC AIR VENT	EDB	ENTERING DRY BULB	I-B-R	INSTITUTE OF BOILER AND	RLA	RUNNING LOAD AMPS		
— C —	CONDENSATE DRAIN PIPING (C)	⊙	CHECK VALVE	⊖	THERMOMETER IN WELL	AD	ACCESS DOOR	EDC	ELECTRIC DUCT COIL TAG		RADIATOR MANUFACTURERS	RPM	REVOLUTIONS PER MINUTE		
— CTR —	COOLING TOWER RETURN PIPING (CTR)	⊗	BALANCING VALVE (ADJUSTABLE)	⊕	WATER FLOW SWITCH	AFF	ABOVE FINISHED FLOOR	EER	ENERGY EFFICIENCY RATIO	IFUH	INDIRECT FIRED WATER HEATER TAG	RPS	REVOLUTIONS PER SECOND		
— CTS —	COOLING TOWER SUPPLY PIPING (CTS)	⊙	AUTOMATIC FLOW CONTROL VALVE	⊖	PRESSURE SWITCH OR SENSOR	AHU	AIR HANDLING UNIT TAG	EF	EXHAUST FAN TAG	IN	INCHES	RPZ	REDUCED PRESSURE ZONE		
— CWR —	CHILLED WATER RETURN PIPING (CWR)	⊗	RELIEF VALVE (RV)	⊕	IMMERSION TEMPERATURE SENSOR	AMS	AIR FLOW MONITORING STATION	EFF	EFFICIENCY	IV	INTAKE VENT TAG	RR	RETURN REGISTER TAG		
— CWS —	CHILLED WATER SUPPLY PIPING (CWS)	⊙	BALL VALVE	⊖	DUCT MOUNTED SMOKE DETECTOR	AMPS	AMPERES	EG	EXHAUST GRILLE TAG	L	LOUVER TAG	RTU	ROOM TEMPERATURE SENSOR		
— FOR —	FUEL OIL RETURN PIPING (FOR)	⊗	BALL VALVE	⊕	ROOM TEMPERATURE SENSOR	AP	ACCESS PANEL	ER	EXHAUST REGISTER TAG	LAT	LEAVING AIR TEMPERATURE	RV	RELIEF VALVE		
— FOS —	FUEL OIL SUPPLY PIPING (FOS)	⊙	3/4" BALL VALVE WITH 3/4" HOSE END	⊖	THERMOSTAT OR SENSOR ON WALL	APD	AIR PRESSURE DROP	ESP	EXTERNAL STATIC PRESSURE	LB	POUNDS	RUL	RAINWATER LEADER		
— G —	GAS PIPING (G)	⊗	GATE VALVE	⊕	TSTAT OR SENSOR W/ TAMPERPROOF GUARD	AS	AIR SEPARATOR TAG	ET	EXPANSION TANK TAG	LD	LINEAR DIFFUSER TAG	SA	SUPPLY AIR		
— HWR —	HOT WATER RETURN PIPING (HWR)	⊙	PRESSURE REDUCING VALVE	⊖	MANUAL AIR VENT	ATC	AUTOMATIC TEMPERATURE CONTROL	EUB	ENTERING WET BULB	LTHUS/R	LOW TEMPERATURE HOT WATER	SAN	SANITARY (DRAIN & WASTE)		
— HWS —	HOT WATER SUPPLY PIPING (HWS)	⊗	FUSIBLE VALVE	⊕	NOTE TAG (NUMBER)	B	BOILER TAG	EUH	ELECTRIC WATER HEATER TAG	LRA	LOCKED ROTOR AMPS	SD	SMOKE DAMPER		
— RL —	REFRIGERANT LIQUID PIPING (RL)	⊙	STRAINER W/ BLOWDOWN BALL VALVE	⊖	AIR DEVICE TAG (LETTER) WITH CFM	BD	BYPASS DAMPER TAG	EUT	ENTERING WATER TEMPERATURE	LUCCO	LOW WATER CUTOUT	SEER	SEASONAL ENERGY EFFICIENCY RATIO		
— RG —	REFRIGERANT GAS PIPING (RG)	⊗	2-WAY CONTROL VALVE	⊕	ROOM NUMBER	BFP	BACKFLOW PREVENTER TAG	EXG	EXISTING	LUT	LEAVING WATER TEMPERATURE	SF	SUPPLY FAN		
-----	SANITARY PIPING BELOW FLOOR (SAN)	⊙	SOLENOID VALVE	⊖	TURNING VANES	BHP	BRAKE HORSEPOWER	EXH	EXHAUST	MAX	MAXIMUM	SG	SUPPLY GRILLE TAG		
-----	SANITARY PIPING ABOVE FLOOR (SAN)	⊗	3-WAY CONTROL VALVE	⊕	DUCT W/MANUAL DAMPER	BTU	BRITISH THERMAL UNITS PER HOUR	FC	FLEXIBLE CONNECTION	MBH	THOUSANDS OF BTU PER HOUR	SP	STATIC PRESSURE		
-----	SANITARY VENT PIPING	⊙	3-WAY CONTROL VALVE (TOP VIEW)	⊖	DUCT W/FLEXIBLE CONNECTION (FC)	CBH	COUNTER BALANCED DAMPER	FCO	FLOOR CLEANOUT	MCA	MINIMUM CIRCUIT AMPACITY	SP	SUMP PUMP TAG		
— RUL —	RAINWATER LEADER ABOVE SLAB (RUL)	⊗	4-WAY CONTROL VALVE (TOP VIEW)	⊕	LAGGED DUCT	CC	COOLING COIL TAG	FD	FIRE DAMPER	MIN	MINIMUM	SR	SUPPLY REGISTER TAG		
— CW —	COLD WATER PIPING (CW)	⊙	2 BUTTERFLY VALVES W/SINGLE ACTUATOR	⊖	DUCT W/SQUARE-TO-ROUND TRANSITION	CFM	CUBIC FEET PER MINUTE	FD	FLOOR DRAIN TAG	NC	NOISE CRITERION	SQFT	SQUARE FEET		
— HW —	HOT WATER PIPING (HW)	⊗	BUTTERFLY VALVE W/ACTUATOR	⊕	FLEXIBLE DUCT	CHLR	CHILLER TAG	FLA	FULL LOAD AMPS	NIC	NOT IN CONTRACT	ΔT	TEMPERATURE DIFFERENTIAL		
— RHW —	RECIRCULATED HOT WATER PIPING (RHW)	⊙	TRIPLE-DUTY VALVE	⊖	MOTOR OPERATED DAMPER	CO	CLEANOUT	FOR	FUEL OIL RETURN	NTS	NOT TO SCALE	TEMP	TEMPERATURE		
—] —	PIPE CAP	⊙	UNION	⊖	CONVECTOR TAG	CONV	CONVECTOR TAG	FOS	FUEL OIL SUPPLY	OA	OUTSIDE AIR	TCP	TEMPERATURE CONTROL PANEL		
→	DIRECTION OF FLUID FLOW	⊙	PIPE FLANGE	⊖	AIRFLOW OUT	CUH	CABINET UNIT HEATER TAG	FFHB	FROST PROOF HOSE BIBB	OD	OFFSHOD BLADE DAMPER	TMV	THERMOSTATIC MIXING VALVE TAG		
↘	ELBOW UP	⊙	PUMP WITH FLANGES	⊖	AIRFLOW IN	CF	CIRCULATING PUMP TAG	FFM	FEET PER MINUTE	OD	OUTSIDE DIAMETER	TSP	TOTAL STATIC PRESSURE		
↙	ELBOW DOWN	⊙	BASE MOUNTED PUMP	⊖	DIAMETER OR FLAT OVAL	CT	COOLING TOWER TAG	FS	FLOOR SINK TAG	OED	OPEN ENDED DUCT	TYP	TYPICAL		
— T —	PIPE TEE UP	⊙	CARTRIDGE TYPE INLINE PUMP	⊖	FIRE DAMPER	Cv	VALVE COEFFICIENT	FTR	FINTUBE RADIATION TAG	OFU	OIL FIRED WATER HEATER TAG	UH	UNIT HEATER TAG		
— T —	PIPE TEE DOWN	⊙	VERTICAL INLINE PUMP	⊖	ROUND OR FLAT OVAL DUCT DOWN	CW	COLD WATER	GA	GAGE	OPD	OVERCURRENT PROTECTIVE DEVICE	VAV	VARIABLE AIR VOLUME BOX TAG		
— R —	PIPE REDUCER	⊙	FLEXIBLE PIPE CONNECTION (FC)	⊖	ROUND OR FLAT OVAL DUCT UP	CHWS/R	CHILLED WATER SUPPLY AND RETURN	GA	GALLONS	P	PLUMBING FIXTURE TAG	VB	VACUUM BREAKER		
— G —	PIPE WITH GUIDE	⊙	STEAM TRAP	⊖	SUPPLY DIFFUSER	DB	DRY BULB	GAL	GALLONS	PENETN	PENETRATION	VFD	VARIABLE FREQUENCY INVERTER DRIVE		
— X —	PIPE WITH ANCHOR	⊙	WATER HAMMER ARRESTOR	⊖	RETURN GRILLE	dB RE	DECIBELS RELATIVE TO	GUH	GAS FIRED WATER HEATER TAG	FF	FADDLE FAN TAG	VTR	VENT THRU ROOF		
— Y —	BUTTERFLY VALVE	⊙		⊖	STEAM TRAP	DC	DOUBLE CHECK	GPH	GALLONS PER HOUR	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	VPH/Hz	VOLTS/PHASES/HERTZ		
— Y —	OS 4 Y GATE VALVE	⊙		⊖	WATER HAMMER ARRESTOR	DCA	DOUBLE CHECK ATMOSPHERIC	GPM	GALLONS PER MINUTE	PSIG	POUNDS PER SQUARE INCH GAGE	WB	WET BULB		
		⊙		⊖		DEG F	DEGREES FAHRENHEIT	GUH	GAS UNIT HEATER TAG	PVC	POLYVINYL CHLORIDE (PIPE)	WCO	WALL CLEANOUT		
		⊙		⊖		DIA	DIAMETER	HC	HEATING COIL TAG	RA	RETURN AIR	UG	WATER GAGE		
		⊙		⊖		DN	DOWN IN WALL	HP	HORSEPOWER	RD	ROOF DRAIN	WPD	WATER PRESSURE DROP		
		⊙		⊖		DN	DOWN	HRV	HEAT RECOVERY VENTILATOR TAG	RDE	RECOMMENDED DUAL ELEMENT FUSE AMPS	USA	WIRE SIZING AMPS		
		⊙		⊖		EA	EXHAUST AIR	HU	HOT WATER	RFM	RADIANT FLOOR MANIFOLD TAG	UTD	WATER TEMPERATURE DROP		
		⊙		⊖		EAT	ENTERING AIR TEMPERATURE	HUS/R	HOT WATER SUPPLY AND RETURN	RG	RETURN GRILLE TAG	W	WITH		
		⊙		⊖						RHW	RECIRCULATED HOT WATER	ZD	ZONE DAMPER TAG		

Prepared For:



Consulting Engineer:



Architect:

Project:

Revisions:

Date: 16 September 2013

Scale: 1/8" = 1'-0"

LEGENDS, SCHEDULES AND DETAILS

M2