

PADDLE FAN PERFORMANCE SCHEDULE									
TAG	AIRFLOW (CFM)	RPM	QTY BLADES 4 DIA(N)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN - BIG ASS FANS		
FF	-	63	6, 6"	WATTS	AMPS	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL
				10		480/3/60	PRODUCTION		BA6-20

AIR DEVICE PERFORMANCE SCHEDULE												
TAG	DUCT SIZE	NECK SIZE (IN)	AIRFLOW (CFM)	SP. LOSS (INWG)	THROUGH	THROUGH	Nc	BASIS OF DESIGN- PRICE				
								DUCT CONN/ N	PATTERN	MODEL		
(A)	10"x5"	10x5	50	0.05	-	-	30	SEE DUG5	SEE DUG5	5DGE		
(B)	16"x10"	16x10	350	0.05	-	-	30	SEE DUG5	SEE DUG5	5DGE		
(C)	17"x12"	17x12	500	0.05	-	-	75	SEE DUG5	SEE DUG5	AMX-3AL		
(D)	9"x9"	9x9	300	0.05	-	-	75	SEE DUG5	SEE DUG5	AMX-3AL		
(E)	30"x12"	-	1300	0.05	-	-	75	SEE DUG5	SEE DUG5	HCD2		
(F)	-	-	-	-	-	-	-	-	-	-		
(AA)	8"x8"	8x8	100	0.05	-	-	30	SEE DUG5	1/2, 45"	630DAL		
(BB)	17"x12"	17x12	400	0.05	-	-	30	SEE DUG5	1/2, 45"	630DAL		
(CC)	16"x16"	16x16	600	0.05	-	-	30	SEE DUG5	1/2, 45"	630DAL		
(DD)	22"x22"	22x22	1000	0.05	-	-	30	SEE DUG5	1/2, 45"	630DAL		

Note: Airflows indicated are maximums. See Drawings for actual airflows.
 * Double-Deflection, extruded aluminum with white finish and opposed blade damper.

PLUMBING FIXTURE CONNECTION SCHEDULE							
TAG	DESCRIPTION	SAN	VENT	CU	HU	GA5	
P1	FLOOR-MOUNTED FV WATER CLOSET	3"	2"	1"	-	-	
P2	RELOCATED ADA WALL-MOUNTED LAVATORY	2"	1 1/2"	1/2"	1/2"	-	
P3	ADA WATERLESS URINAL	2"	1 1/2"	-	-	-	
P4	ADA SHOWER UNIT	2"	1 1/2"	1/2"	1/2"	-	
P4A	ROUGH-IN ONLY FOR FUTURE SHOWER	2"	1 1/2"	1/2"	1/2"	-	
P5	54" SEMI-CIRCULAR WASH-FOUNTAIN	2"	1 1/2"	3/4"	3/4"	-	
P6	RELOCATED SINK FROM BREAK ROOM	2"	1 1/2"	1/2"	1/2"	-	
P7	3 BAY STAINLESS STEEL SINK	2"	1 1/2"	1/2"	1/2"	-	
P8	SINGLE BOWL ADA STAINLESS STEEL SINK	2"	1 1/2"	1/2"	1/2"	-	
-	-	-	-	-	-	-	
ETP	ELECTRONIC TRAP PRIMER	-	-	1/2"	-	-	

MINIMUM SIZE OF BELOW SLAB SANITARY 4 VENT PIPING SHALL BE 2". STAINLESS STEEL SINKS AND TRIM SHALL BE SELECTED BY THE OWNER.

TEMPERATURE MIXING VALVE PERFORMANCE SCHEDULE									
TAG	FLOW RATE (GPM)	INLET CONNECTION (INCHES)	OUTLET CONNECTION (INCHES)	WPD (PSIG)	SET POINT (DEGREES F)	PROVIDE SPARE CARTRIDGE (Y/N)	BASIS OF DESIGN: Leonard "Eco-Mix"		
TMV-1	10.0	3/4"	1"	10	120	N	DOMESTIC HU	INLINE	TM-428A-LF-DT

ELECTRIC WATER HEATER PERFORMANCE SCHEDULE												
TAG	STORAGE (GALS)	INPUT (KW)	RECOVERY (GPH)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN: AO Smith "Conservationist"			MODEL	DIMENSIONS	
				HP	WATTS	V/PH/Hz	SERVICE	FUEL	MODEL	DIMENSIONS		
EUH-1	80	6.0	24.6	-	-	208/3/60	DOM HU	ELECTRIC	DEN-80	60"H x 24"W		

Note: Electric heating elements shall be wired for "non-simultaneous" operation.
 Coordinate sinks and trim with the Owner. Final sink locations to be determined by the Owner.

DX COOLING COIL PERFORMANCE SCHEDULE											
TAG	TOTAL COOLING (MEH)	SENS. COOLING (MEH)	SST (DEGF)	TYPE OF REFRIGERANT	AIRFLOW (CFM)	APD (IN. WG)	ROWS / FFF	E.A.T. DB(F)	E.A.T. WB(F)	L.A.T. DB(F)	SERVICE
CC1	251.8	185.1	45	R-410A	8000	-	-	80	61	55.2	AC-1
CC2	60.4	41.9	45	R-410A	1800	-	-	80	61	51.8	AC-2
CC3	15.5	8.4	45	R-410A	3100	-	-	80	61	51.5	AC-3

Notes:
 1. Cooling performance based on 95°F outside ambient.
 2. Basis of design is Trane.
 3. CC-3 is an Alternate.

PACKAGED ROOFTOP AC UNIT PERFORMANCE SCHEDULE																											
TAG	NOMINAL COOLING (TONS)	MINIMUM O.A. (CFM)	MAXIMUM O.A. (CFM)	FAN	DRIVE	AIRFLOW (CFM)	GAS HEAT (Tph out)	E.S.P. (IN. WG)	RPM	WT. (LBS)	ELECTRICAL REQUIREMENTS			TAG CLG COIL	TAG HEAT RECOV.	SEER (BTU/WATT)	BASIS OF DESIGN: TRANE		DISCHARGE SOUND POWER (dB RE:10 ⁻¹² WATTS) OCTAVE BAND 4 CENTER FREQUENCY (HZ)								
											HP	BHP	MCA	MOCF	V/PH/Hz			1	2	3	4	5	6	7	8		
AC-1	20.0	1600	8000	SUPPLY EXHAUST	BELT	8000	324.0	0.5	653	2409	5.0	3.6	50.0	60	460/3/60	CC-1	N/A	11.0	EER	PRODUCTION	YCD24F	-	-	-	-	-	-
AC-2	5.0	360	1800	SUPPLY EXHAUST	BELT	1800	64.0	0.5	845	999	4	0.51	15.2	20	460/3/60	CC-2	N/A	11.2		2nd FLOOR	YHC061	-	-	-	-	-	
AC-3	10.0	740	3700	SUPPLY EXHAUST	BELT	3700	160.0	0.5	1340	1664	2.0	1.6	22.1	30	460/3/60	CC-3	N/A	12.5	EER	EXISTING PROD.	YHC100	-	-	-	-	-	

Notes:
 1. AC-3 is an Alternate.

ENERGY RECOVERY UNIT SCHEDULE																										
TAG	MINIMUM O.A. (CFM)	MAXIMUM O.A. (CFM)	FAN	DRIVE	AIRFLOW (CFM)	T.S.P. (IN. WG)	E.S.P. (IN. WG)	RPM	WT. (LBS)	ELECTRICAL REQUIREMENTS			* S.A.T. (°F)	** S.A.T. (°F)	TOTAL WINTER EFFECTIVENESS	SOUND POWER (dB RE:10 ⁻¹² WATTS) OCTAVE BAND 4 CENTER FREQUENCY (HZ)										
										HP	BHP	ECM	MCA	MOCF	V/PH/Hz			1	2	3	4	5	6	7	8	
ERV 1	2,900	2,900	SUPPLY EXHAUST	BELT	2,900	-	0.5	1100	126	5.0	3.0	Yes	18.0	25	460/3/60	45.3	78.4	61%	HE3XRT-ECM	SUPPLY	EXHAUST	SUPPLY	EXHAUST	SUPPLY	EXHAUST	SUPPLY

* LwA weighted sound power level based on ANSI S1.4. dBA weighted sound pressure level based on 11.5 dB attenuation per octave band @ 5 feet. Sones calculated based on AMCA 301 @ 5 feet.

FAN PERFORMANCE SCHEDULE														
TAG	AIRFLOW (CFM)	T.S.P. (INWG)	NOISE (SONES)	FRPM	DRIVE	ELECTRICAL REQUIREMENTS					SERVICE	ARRANGEMENT	MODEL	
						HP	BHP	VFD	AMPS	V/PH/Hz	WEIGHT (LB)			
EF-1	400	0.214	1.2	1550	DIRECT	-	-	-	-	120/1/60	-	-	ROOF	-
EF-2	150	0.25	2.8	1300	DIRECT	-	-	-	-	120/1/60	15	Server Room	ROOF	(G) G-080-D

UNIT HEATER PERFORMANCE SCHEDULE												
TAG	OUTPUT (MBH)	FLOW RATE (GPM)	WPD (FT.WG)	AIRFLOW (CFM)	ROWS	MTG. HT.	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN: Reznor		
							HP	WATTS	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL
UHI	49.8	-	-	769	-	9'-0"	0.03	-	120/1/60	-	HORIZONTAL	UDAP 60

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
GLR	GLYCOL LOOP WATER RETURN PIPING (GLR)	EXP	EXPANSION LOOP	PS	DUCT STATIC PRESSURE SENSOR	AAV	AUTOMATIC AIR VENT	DEG F	DEGREES FAHRENHEIT	FT	FEET	NC	NOISE CRITERION	SF	SUPPLY FAN
GLS	GLYCOL LOOP WATER SUPPLY PIPING (GLS)	BFP	BACKFLOW PREVENTER (BFP)	PG	PRESSURE GAGE WITH GAGE COCK	AD	ACCESS DOOR	DFD	DOUBLE FIRE DAMPER	FTR*	FINTUBE RADIATION TAG	NIC	NOT IN CONTRACT	SG*	SUPPLY GRILLE TAG
LWR	LOOP WATER RETURN PIPING (LWR)	CV	CHECK VALVE	TM	THERMOMETER IN WELL	AF	ABOVE FINISHED FLOOR	DIA	DIAMETER	GA	GAGE	NIS	NOT TO SCALE	SP	STATIC PRESSURE
LWS	LOOP WATER SUPPLY PIPING (LWS)	AV	AIR VALVE	WFS	WATER FLOW SWITCH	AHU*	AIR HANDLING UNIT TAG	DIW	DOWN IN WALL	GAL	GALLONS	OA	OUTSIDE AIR	SP*	SUMP PUMP TAG
CA	COMPRESSED AIR PIPING (CA)	AVS	AUTOMATIC VALVE (ADJUSTABLE)	PS	PRESSURE SWITCH OR SENSOR	AMS	AIRFLOW MONITORING STATION	DN	DOWN	GRWH*	GAS FIRED WATER HEATER TAG	OBD	OPPOSED BLADE DAMPER	SR*	SUPPLY REGISTER TAG
CD	CONDENSATE DRAIN PIPING (CD)	AVC	AUTOMATIC VALVE CONTROL VALVE	AMS*	AMPERES	AP	ACCESS PANEL	DTS/R	DUAL TEMP. WATER SUPPLY/RETURN	GPH	GALLONS PER HOUR	OD	OUTSIDE DIAMETER	SQFT	SQUARE FEET
AR	ACID RESISTANT PIPING (AR)	RV	RELIEF VALVE (RV)	ETS	EMERSION TEMPERATURE SENSOR	APD	AIR PRESSURE DROP	EA	EXHAUST AIR	GPM	GALLONS PER MINUTE	OED	OPEN ENDED DUCT	TEMP.	TEMPERATURE
VAC	VACUUM PIPING (VAC)	AV	AUTOMATIC VALVE (ADJUSTABLE)	DS	DUCT MOUNTED SMOKE DETECTOR	AS*	AIR SEPARATOR TAG	EAT	ENTERING AIR TEMPERATURE	HC*	HEATING COIL TAG	ORWH*	OIL FIRED WATER HEATER TAG	TEMP.	TEMPERATURE
T	ELECTRICALLY HEAT TRACED PIPING (T)	BV	BALL VALVE	RTS	ROOM TEMPERATURE SENSOR	ATC	AUTOMATIC TEMPERATURE CONTROL	EDS	ENTERING DRY BULB	HDFD*	HEAVY DUTY FLOOR DRAIN TAG	OPD	OVERCURRENT PROTECTIVE DEVICE	TMV*	THERMOSTATIC MIXING VALVE TAG
FOR	FUEL OIL RETURN PIPING (FOR)	AV	AUTOMATIC VALVE (ADJUSTABLE)	TS	THERMOSTAT OR SENSOR ON WALL	B*	BOILER TAG	EDC*	ELECTRIC DUCT COIL TAG	HP	HORSEPOWER	PHEN	PENETRATION	TSP	TOTAL STATIC PRESSURE
FOS	FUEL OIL SUPPLY PIPING (FOS)	AV	AUTOMATIC VALVE (ADJUSTABLE)	TS*	TSTAT OR SENSOR W/ TAMPERPROOF GUARD	BD*	BOILER TAG	EER	ENERGY EFFICIENCY RATIO	HRV*	HEAT RECOVERY VENTILATOR TAG	PF*	PENETRATION	TYF	TYPICAL
G	GAS PIPING (G)	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV	TEMPERATURE VALVE	BP*	BACKFLOW PREVENTER TAG	EF*	EFFICIENCY	HU	HOT WATER	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	UH*	UNIT HEATER TAG
HWR	HOT WATER RETURN PIPING (HWR)	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	BHP	BACKFLOW PREVENTER TAG	EG*	EFFICIENCY	HUS/R	HOT WATER SUPPLY AND RETURN	PSIG	POUNDS PER SQUARE INCH GAGE	VAV*	VARIABLE AIR VOLUME BOX TAG
HWS	HOT WATER SUPPLY PIPING (HWS)	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	BTUH	BRITISH THERMAL UNITS PER HOUR	ER*	EXHAUST REGISTER TAG	IAQ	INDOOR AIR QUALITY SENSOR	FVC	FOLYVINYL CHLORIDE (PIPE)	VB	VACUUM BREAKER
RL	REFRIGERANT LIQUID PIPING (RL)	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	CBD	COUNTER BALANCED DAMPER	ESP	EXTERNAL STATIC PRESSURE	I-B-R	INSTITUTE OF BOILER AND RADIATOR MANUFACTURERS	RA	RETURN AIR	VCP	VENTILATION CONTROL PANEL
RG	REFRIGERANT GAS PIPING (RG)	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	CC*	COOLING COIL TAG	ET*	EXTERNAL STATIC PRESSURE	RD	ROOF DRAIN	RD	ROOF DRAIN	VIF	VARIABLE FREQUENCY INVERTER DRIVE
SB	SANITARY PIPING BELOW FLOOR (SAN)	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	CD	CUBIC FEET PER MINUTE	EW*	ENTERING WATER TEMPERATURE	RIWH*	RECOMMENDED DUAL ELEMENT RUBE AMPS	RDE	RECOMMENDED DUAL ELEMENT RUBE AMPS	VTR	VENT THRU ROOF
SA	SANITARY PIPING ABOVE FLOOR (SA)	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	CHLR*	CHILLER TAG	EW*	ENTERING WATER TEMPERATURE	RIWH*	RECOMMENDED DUAL ELEMENT RUBE AMPS	RDM	RADIANT FLOOR MANIFOLD TAG	VPH/Hz	VOLTS/PHASES/HERTZ
RLW	RAINWATER LEADER ABOVE SLAB (RLW)	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	CLN	CLEANOUT	EW*	ENTERING WATER TEMPERATURE	RIWH*	RECOMMENDED DUAL ELEMENT RUBE AMPS	RG*	RETURN GRILLE TAG	WB	WET BULB
CW	COLD WATER PIPING (CW)	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	CO	CARBON DIOXIDE SENSOR	EW*	ENTERING WATER TEMPERATURE	RIWH*	RECOMMENDED DUAL ELEMENT RUBE AMPS	RLA	RETURN GRILLE TAG	WCO	WALL CLEANOUT
HU	HOT WATER PIPING (HU)	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	CONV*	CONVECTOR TAG	EW*	ENTERING WATER TEMPERATURE	RIWH*	RECOMMENDED DUAL ELEMENT RUBE AMPS	RLA	RETURN GRILLE TAG	WG	WATER GAGE
RAW	RECIRCULATED HOT WATER PIPING (RAW)	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	CUH*	CABINET UNIT HEATER TAG	EW*	ENTERING WATER TEMPERATURE	RIWH*	RECOMMENDED DUAL ELEMENT RUBE AMPS	RLA	RETURN GRILLE TAG	UPD	WATER PRESSURE DROP
PC	PIPE CAP	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	CP*	CIRCULATING PUMP TAG	EW*	ENTERING WATER TEMPERATURE	RIWH*	RECOMMENDED DUAL ELEMENT RUBE AMPS	RLA	RETURN GRILLE TAG	USA	WIRE SIZING AMPS
DF	DIRECTION OF FLUID FLOW	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	CT*	COOLING TOWER TAG	EW*	ENTERING WATER TEMPERATURE	RIWH*	RECOMMENDED DUAL ELEMENT RUBE AMPS	RLA	RETURN GRILLE TAG	WTD	WATER TEMPERATURE DROP
EL	ELBOW UP	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	CV	VALVE COEFFICIENT	EW*	ENTERING WATER TEMPERATURE	RIWH*	RECOMMENDED DUAL ELEMENT RUBE AMPS	RLA	RETURN GRILLE TAG	W	WITH
ED	ELBOW DOWN	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	CW	COLD WATER	EW*	ENTERING WATER TEMPERATURE	RIWH*	RECOMMENDED DUAL ELEMENT RUBE AMPS	RLA	RETURN GRILLE TAG	ZD*	ZONE DAMPER TAG
ET	PIPE TEE UP	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	CHWS/R	CHILLED WATER SUPPLY AND RETURN	EW*	ENTERING WATER TEMPERATURE	RIWH*	RECOMMENDED DUAL ELEMENT RUBE AMPS	RLA	RETURN GRILLE TAG		
ETD	PIPE TEE DOWN	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	DB	DRY BULB	EW*	ENTERING WATER TEMPERATURE	RIWH*	RECOMMENDED DUAL ELEMENT RUBE AMPS	RLA	RETURN GRILLE TAG		
FR	PIPE REDUCER	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	DB RE	DECIBELS RELATIVE TO	EW*	ENTERING WATER TEMPERATURE	RIWH*	RECOMMENDED DUAL ELEMENT RUBE AMPS	RLA	RETURN GRILLE TAG		
FG	PIPE WITH GUIDE	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	DC	DOUBLE CHECK	EW*	ENTERING WATER TEMPERATURE	RIWH*	RECOMMENDED DUAL ELEMENT RUBE AMPS	RLA	RETURN GRILLE TAG		
FA	PIPE WITH ANCHOR	AV	AUTOMATIC VALVE (ADJUSTABLE)	TV*	TEMPERATURE VALVE	DC*	DOUBLE CHECK ATMOSPHERIC	EW*	ENTERING WATER TEMPERATURE	RIWH*	RECOMMENDED DUAL ELEMENT R				