

EXPANSION TANKS								
MARK	SYSTEM SERVED	LOCATION	APPROX SYSTEM VOLUME (GAL)	SYSTEM TEMPERATURE MIN (F)	SYSTEM TEMPERATURE MAX (F)	INITIAL PRESSURE IN TANK (PSI)	MAX OPERATING PRESSURE (PSI)	BLADDER ST VLE TANK VOLUME (GAL)
ET-HHW	HEATING HOT WATER	BASEMENT	510	47	180	30	60	37
ET-CHW	CHILLED WATER	BASEMENT	200	47	56	30	60	23

AIR SEPERATOR SCHEDULE							
MARK	LOCATION	SYSTEM SERVED	PIPE SIZE (IN)	FLOW (GPM)	WATER PD (FT)	WEIGHT (LBS)	NOTES
AS-CHW	PENTHOUSE	CHILLED WATER	4	235	0.72	165	1
AS-HHW	BASEMENT	HEATING HOT WATER	4	140	0.94	125	1
NOTES:							
1. PROVIDE WITH STRAINER.							

DESIGN CONDITIONS					
DESIGN CONDITIONS	SUMMER			WINTER	
	TEMPERATURE		RELATIVE HUMIDITY	TEMP	RELATIVE HUMIDITY
	"Fdb	"Fwb	%	"Fdb	%
OUTDOOR DESIGN CONDITIONS	91	77	53	43	NA
OUTDOOR DEHUMIDIFICATION DESIGN CONDITION	88	80	71	43	NA
INDOOR AREA TEMPERATURE/HUMIDITY SETPOINTS					
CLASSROOMS / CONFERENCE ROOMS	75	63	50	70	30
CORRIDORS	75	63	50	70	30
COMMUNICATION ROOMS	77	64	50	-	-
DATA CENTER	70	60	55	65	30
LOUNGES	75	63	50	70	30
ELECTRICAL ROOMS	86	66	50	-	-
OFFICES	75	63	50	70	30
TOILETS	77	64	50	70	30
WAITING AREAS	75	63	50	70	30
ALL OTHER SPACES	75	63	50	70	30

VAV AIR TERMINAL UNIT SCHEDULE - HOT WATER REHEAT - AHU-1																	
MARK	NOMINAL SIZE	AIRFLOW		MAX. TOTAL UNIT PRESSURE DROP	SPACE NOISE CRITERIA (NC)	HEATING AIRFLOW	ENTERING AIR TEMP.	HOT WATER HEATING COIL			COIL CAPACITY	HOT WATER PIPING RUNOUT SIZE	CONTROL TYPE	CONTROL SEQUENCE	BASIS OF DESIGN		
		MAXIMUM	MINIMUM					ENTERING WATER TEMP.	LEAVING WATER TEMP.	HEATING WATER FLOW					MANUFACTURER	MODEL NUMBER	NOTES
TU1-01	6	240 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-02	6	240 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-03	6	240 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-04	6	240 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-05	6	270 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-06	6	270 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-07	6	270 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-08	6	270 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-09	6	315 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-10	6	320 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-11	6	325 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-12	6	320 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-13	6	325 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-14	6	340 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	4,000 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-15	10	710 CFM	710 CFM	0.25 in-wg	35	280 CFM	55.0 °F	180 °F	160 °F	3.0 GPM	27,000 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-10	1-4
TU1-16	8	415 CFM	415 CFM	0.25 in-wg	35	180 CFM	55.0 °F	180 °F	160 °F	2.0 GPM	15,800 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-08	1-4
TU1-17	6	130 CFM	130 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	4,900 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-06	1-4
TU1-18	6	120 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-19	6	85 CFM	30 CFM	0.25 in-wg	35	25 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-20	14	1900 CFM	1900 CFM	0.25 in-wg	35	610 CFM	61.6 °F	180 °F	160 °F	5.0 GPM	72,200 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-14	1-4
TU1-21	6	100 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.0 GPM	3,800 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-06	1-4
TU1-22	6	180 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.0 GPM	3,800 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-06	1-4
TU1-23	10	1060 CFM	320 CFM	0.25 in-wg	35	320 CFM	55.0 °F	180 °F	160 °F	1.5 GPM	12,200 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-10	1-4
TU1-24	8	590 CFM	180 CFM	0.25 in-wg	35	180 CFM	55.0 °F	180 °F	160 °F	1.0 GPM	6,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-08	1-4
TU1-25	6	60 CFM	60 CFM	0.25 in-wg	35	20 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-06	1-4
TU1-26	6	280 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-27	6	230 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-28	6	100 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-29	6	100 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-31	14	1810 CFM	1810 CFM	0.25 in-wg	35	600 CFM	61.6 °F	180 °F	160 °F	5.0 GPM	68,700 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-14	1-4
TU1-32	6	300 CFM	300 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	1.5 GPM	11,400 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-06	1-4
TU1-33	6	80 CFM	80 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,000 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-34	6	90 CFM	80 CFM	0.25 in-wg	35	180 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,000 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU1-35	6	120 CFM	80 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,000 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
NOTES:																	
1. ALL AIR TERMINAL UNITS SHALL BE PRESSURE INDEPENDENT TYPE WITH VELOCITY RESET CONTROLLERS.																	
2. HOT WATER REHEAT COIL SHALL HAVE A MAXIMUM WATER PRESSURE DROP OF 3.0 FT. WG.																	
3. PROVIDE WITH ARI 880 RATED MAXIMUM DAMPER LEAKAGE OF 2% NOMINAL AIRFLOW AT 3 INCH W.G. INLET STATIC PRESSURE.																	
4. INSTALL UNIT WITH CLEARANCE FOR ELECTRICAL AND MAINTENANCE ACCESS. PROVIDE CEILING ACCESS PANEL WHERE NEEDED FOR ACCESS TO UNIT.																	
5. PROVIDE SPACE PRESSURE CONTROLLER AND DISPLAY, PRESSURE DIFFERENTIAL SENSORS, AND INTERLOCKS TO MAINTAIN REQUIRED SPACE PRESSURE DIFFERENTIAL. SEE CONTROLS SHEETS.																	

VAV AIR TERMINAL UNIT SCHEDULE - HOT WATER REHEAT - AHU-2																	
MARK	NOMINAL SIZE	AIRFLOW		MAX. TOTAL UNIT PRESSURE DROP	SPACE NOISE CRITERIA (NC)	HEATING AIRFLOW	ENTERING AIR TEMP.	HOT WATER HEATING COIL			COIL CAPACITY	HOT WATER PIPING RUNOUT SIZE	CONTROL TYPE	CONTROL TYPE	BASIS OF DESIGN		
		MAXIMUM	MINIMUM					ENTERING WATER TEMP.	LEAVING WATER TEMP.	HEATING WATER FLOW					MANUFACTURER	MODEL NUMBER	NOTES
TU2-01	6	340 CFM	105 CFM	0.25 in-wg	35	105 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	4,000 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU2-02	6	325 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU2-03	6	325 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU2-04	6	320 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU2-05	6	320 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU2-06	6	230 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU2-07	6	240 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU2-08	6	220 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU2-09	6	240 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU2-10	6	240 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU2-11	6	240 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU2-12	6	240 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU2-13	6	240 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU2-14	6	240 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU2-15	8	435 CFM	435 CFM	0.25 in-wg	35	180 CFM	55.0 °F	180 °F	160 °F	2.0 GPM	16,500 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-08	1-4
TU2-16	10	725 CFM	725 CFM	0.25 in-wg	35	280 CFM	55.0 °F	180 °F	160 °F	3.0 GPM	27,500 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-10	1-4
TU2-17	6	395 CFM	120 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	4,600 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU2-18	10	650 CFM	650 CFM	0.25 in-wg	35	195 CFM	55.0 °F	180 °F	160 °F	3.0 GPM	24,700 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-10	1-4
TU2-19	6	80 CFM	80 CFM	0.25 in-wg	35	21 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,000 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-06	1-4
TU2-20	8	180 CFM	180 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	1.0 GPM	6,800 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-08	1-4
TU2-21	12	1160 CFM	1160 CFM	0.25 in-wg	35	400 CFM	61.6 °F	180 °F	160 °F	5.0 GPM	44,100 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-12	1-4
TU2-23	6	170 CFM	100 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	3,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-06	1-4
TU2-24	12	1255 CFM	400 CFM	0.25 in-wg	35	400 CFM	61.6 °F	180 °F	160 °F	2.0 GPM	15,200 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-12	1-4
TU2-25	8	665 CFM	200 CFM	0.25 in-wg	35	200 CFM	55.0 °F	180 °F	160 °F	1.0 GPM	7,600 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-08	1-4
TU2-26	16	2430 CFM	2430 CFM	0.25 in-wg	35	800 CFM	61.6 °F	180 °F	160 °F	5.0 GPM	92,300 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-16	1-4
TU2-27	8	520 CFM	180 CFM	0.25 in-wg	35	180 CFM	55.0 °F	180 °F	160 °F	1.0 GPM	6,800 Btu/h	3/4"	DDC	VAV	PRICE INDUSTRIES	SDV-08	1-4
TU2-28	6	290 CFM	290 CFM	0.25 in-wg	35	100 CFM	55.0 °F	180 °F	160 °F	0.5 GPM	11,000 Btu/h	3/4"	DDC	CV	PRICE INDUSTRIES	SDV-06	1-4
NOTES:																	
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