AIR HANDLING UNITS

UNIT NO.	SERVICE	SUPPLY FAN CFM	SUPPLY FAN RPM	SUPPLY FAN ESP IN WG.	SUPPLY FAN HP	TOTAL MBH	COOLING COIL SENSIBLE MBH	COOLING COIL EAT (DB) DEG. F	COOLING COIL EAT (WB) DEG. F	COOLING COIL LAT (DB) DEG. F	COOLING COIL LAT (WB) DEG. F	COOLING COIL PD AIR IN WG.	COOLING COIL FACE AREA . SQ. FT	COOLING COIL WATER GPM	COOLING COIL PD WATER (FT)	COOLING COIL EWT DEG. F	COOLING COIL VALVE Cv	HEATING COIL VALVE Cv	HEATING COIL TOTAL MBH	HEATING COIL FACE AREA SQ. FT.	HEATING COIL EAT DEG. F	HEATING COIL LAT DEG. F	HEATING COIL EWT DEG. F	HEATING COIL WATER GPM	HEATING COIL DP WATER (FT)	FILTER SECTION FLAT FILTERS SURFACE AREA SQ.FT	FILTER SECTION TYPE	FILTER SECTION EFF.%	MIXING BOX WITH ANGLE FILTER	ELECTRIC DATA VOLTS	ELECTRIC DATA PH	ELECTRIC DATA HZ	NOMINAL OPERATING WEIGHT LBS	BASIS OF DESIGN MANUF.	BASIS OF DESIGN MODEL NO.	REMARKS
Cleanroom:																																				
AH-CN-01	CLEANROOM BAY	15,000		1.5	15	242	242	80	62	65.1	53.66	0.35	17	48.4	11.3	55	21.9	NA	NA	NA	NA	NA	NA	NA	NA	36		35%		460	3	60	6500	PACE	PCAH-83X86	WITH 35% FILTERS, COOLING COIL,VFD PLUG FAN, SILENCER
AH-CN-02	CLEANROOM BAY	15,000		1.5	15	242	242	80	62	65.1	53.66	0.35	17	48.4	11.3	55	21.9	NA	NA	NA	NA	NA	NA	NA	NA	36		35%		460	3	60	6500	PACE	PCAH-83X86	WITH 35% FILTERS, COOLING COIL, VFD PLUG FAN, SILENCER
AH-CN-03	CLEANROOM BAY	15,000		1.5	15	242	242	80	62	65.1	53.66	0.35	17	48.4	11.3	55	21.9	NA	NA	NA	NA	NA	NA	NA	NA	36		35%		460	3	60	6500	PACE	PCAH-83X86	WITH 35% FILTERS, COOLING COIL, VFD PLUG FAN, SILENCER
AH-CN-04	CLEANROOM BAY	15,000		1.5	15	242	242	80	62	65.1	53.66	0.35	17	48.4	11.3	55	21.9	NA	NA	NA	NA	NA	NA	NA	NA	36		35%		460	3	60	6500	PACE	PCAH-83X86	WITH 35% FILTERS, COOLING COIL, VFD PLUG FAN, SILENCER
AH-CN-05	CLEANROOM BAY	15,000		1.5	15	242	242	80	62	65.1	53.66	0.35	17	48.4	11.3	55	21.9	NA	NA	NA	NA	NA	NA	NA	NA	36		35%		460	3	60	6500	PACE	PCAH-83X86	WITH 35% FILTERS, COOLING COIL, VFD PLUG FAN, SILENCER
AH-CN-06	CLEANROOM BAY	15,000		1.5	15	242	242	80	62	65.1	53.66	0.35	17	48.4	11.3	55	21.9	NA	NA	NA	NA	NA	NA	NA	NA	36		35%		460	3	60	6500	PACE	PCAH-83X86	WITH 35% FILTERS, COOLING COIL, VFD PLUG FAN, SILENCER
AH-CN-07	CLEANROOM BAY	15,000		1.5	15	242	242	80	62	65.1	53.66	0.35	17	48.4	11.3	55	21.9	NA	NA	NA	NA	NA	NA	NA	NA	36		35%		460	3	60	6500	PACE	PCAH-83X86	WITH 35% FILTERS, COOLING COIL, VFD PLUG FAN, SILENCER
AH-CN-08	CLEANROOM BAY	15,000		1.5	15	242	242	80	62	65.1	53.66	0.35	17	48.4	11.3	55	21.9	NA	NA	NA	NA	NA	NA	NA	NA	36		35%		460	3	60	6500	PACE	PCAH-83X86	WITH 35% FILTERS, COOLING COIL, VFD PLUG FAN, SILENCER
MUA-CN-01	CLEANROOM	35,000		1.25	75	3,405	1,550	93	79	52	51.6	1.1	35	425	15	45	166.8	94.8 19.0	2700 542	(PRE-HEAT) (RE-HEAT)	13 53.5	85 68	190 190	108 21.68	3 3	80	SEE REMARKS			460	3	60	20265	PACE YORK	PCAH-120x130	MIX. BOX, 35% PRE-FILTER, 95% FILTER, HEATING COIL ACCESS , COOLING COIL, ACCESS,DX SPACE, ACCESS, HUMID., HEATING COIL, VFD FAN, HEPA FILTER
MUA-CN-02	CLEANROOM	35,000		1.25	75	3,405	1,550	93	79	52	51.6	1.1	35	425	15	45	166.8	94.8 19.0	2700 542	(PRE-HEAT) (RE-HEAT)	13 53.5	85 68	190 190	108 21.68	3 3	80	SEE REMARKS			460	3	60	20265	PACE	PCAH-120x130	MIX. BOX, 35% PRE-FILTER, 95% FILTER, HEATING COIL ACCESS , COOLING COIL, ACCESS,DX SPACE, ACCESS, HUMID., HEATING COIL, VFD FAN, HEPA FILTER
AH-CN-15	CLEANROOM SUPPORT (1 DCN-CNMS-001)	8,000		1	10-SF 7.5-RF	250	165	77.6	65	55	54.4	0.75	16	31	3.5	45	25.2	39.1	228	15	58.6	85	190	11.5	0.2		SEE REMARKS			460	3	60	6500	YORK	CP-170	WITH RETURN FAN, ECONOMIZER, 30% FILTER, 65% FILTERS, HEATING COIL, ACCESS BOX, COOLING COIL, (1 DCN-CNMS-001)
Office and Labs:																																				
AH-CN-16	OFFICE AREA	22,000		1.5 SUPPLY 0.75 RETURN	25 SUPPLY 10 RETURN	951	708	81.4	67	55	54.4	0.82	46	119	15	45	46.6	31.9	410	46	13	55	190	21	1		SEE REMARKS			460	3	60	17719	YORK	CP-460	WITH RETURN FAN, ECONOMIZER, 30% FILTER, 65% FILTERS, HEATING COIL, ACCESS BOX, COOLING COIL,
AH-CN-17	OFFICE AREA	23,393		1.5 SUPPLY 0.75 RETURN	25 supply 10 RETURN	1,010	742	81.4	67	55	54.4	0.68	53	128	20	45	43.5	28.3	425	53	13	55	190	22	1.4		SEE REMARKS			460	3	60	19543	YORK	CP-530	WITH RETURN FAN, ECONOMIZER, 30% FILTER, 65% FILTERS, HEATING COIL, ACCESS BOX, COOLING COIL, AND SUPPLY FAN. BOTH SUPPLY/RETRUN FANS ON VDFs.
AH-CN-18	COMPUTER ROOM	3,700		0.75	3	75	75	74	60	55	53	0.64	8	9.4	1.5	45	11.7		NA	NA	NA	NA	NA	NA	NA			30%					1600	YORK	AP-80	WITH 30% FILTER, COOLING COIL, AND FAN.
AH-CN-19	LAB N2D	7,107		0.75	5	146	146	74	60	55	53	0.5	15	18	1	45	27.4		NA	NA	NA	NA	NA	NA	NA			30%					2500		AP-150	WITH 30% FILTER, COOLING COIL, AND FAN.
AH-CN-20	LAB N1A	3,287		1.5	5	67	67	74	60	55	53	0.53	7.7	8.5	1	45	12.9		NA	NA	NA	NA	NA	NA	NA		HEPA						1600		AP-80	WITH HEPA FILTER, COOLING COIL, AND FAN.
AH-CN-21	LAB N1C	3,313		0.75	3	68	68	74	60	55	53	0.53	7.7	8.5	1	45	12.9		NA	NA	NA	NA	NA	NA	NA			30%					1600		AP-80	WITH 30% FILTER, COOLING COIL, AND FAN.
AH-CN-22	LAB N4A	3,313		0.75	3	68	68	74	60	55	53	0.53	7.7	8.5	1	45	12.9		NA	NA	NA	NA	NA	NA	NA			30%					1600		AP-80	WITH 30% FILTER, COOLING COIL, AND FAN.
MUA-CN-03	LABS	40,000		1.5	40	2,550	1,518	92	74	55	54.4	0.66	86	318	20	45	108.1	113.4	2950	86	13	55	190	118	2.5		SEE REMARKS			460	3	60	18648	YORK	CP-860	WITH 30%PRE-FILTER, 65% FITLER, HEATING COIL ACCESS, HEATING COIL, ACCESS, HUMIDIFIER, ACCESS COOLING COIL AND VFD FAN.
MUA-CN-04	LABS	40,000		1.5	40	2,550	1,518	92	74	55	54.4	0.66	86	318	20	45	108.1	113.4	2950	86	13	55	190	118	2.5		SEE REMARKS			460	3	60	18648	YORK	CP-860	WITH 30%PRE-FILTER, 65% FITLER, HEATING COIL ACCESS, HEATING COIL, ACCESS, HUMIDIFIER, ACCESS COOLING COIL AND VFD FAN.

EXHAUST FAN (EF) / SUPPLY FAN (SF) SCHEDULE

UNIT No.	SERVICE	FAN CAPACITY (CFM)	STATIC PRESS. (IN.WG)	FAN TYPE	FAN SPEED (RPM)	WHEEL DIA. (IN)	DRIVE	MOTOR ELECTRICAL DATA BHP	HP	VOLTS	PH	HZ	RPM	WEIGHT. LBS	BASIS OF DESIGN MFR.	MODEL No.	REMARKS
EF-CN-01	LAB EXHAUST	40000	4.5	CENTRIFUGAL	700	54	BELT	35	40	460	3	60		2500	GREENHECK	54AFSW	CENTRIFUGAL BLOWER, SPARKPROOF.
EF-CN-02	LAB EXHAUST	40000	4.5	CENTRIFUGAL	700	54	BELT	35	40	460	3	60		2500	GREENHECK	54 AFSW	CENTRIFUGAL BLOWER, SPARKPROOF.
EF-CN-03	DELETED!!				DCN-CNMS-001 (1)		DCN-CNMS-001 (1)	DCN-CNMS-001 (1)								DCN-CNMS-001 (1)	
EF-CN-04	CLEANROOM HEAT EXH.	15000	4	CENTRIFUGAL	1146	33	BELT	12.65	15	460	3	60		1000	GREENHECK	33AFSW	CENTRIFUGAL BLOWER, VFD MOTOR, SPARKPROOF
EF-CN-05	CLEANROOM HEAT EXH.	15000	4	CENTRIFUGAL	1146	33	BELT	12.65	15	460	3	60		1000	GREENHECK	33AFSW	CENTRIFUGAL BLOWER, VFD MOTOR, SPARKPROOF
EF-CN-06	CLEANROOM SCRUBBED EXH.	22000	7	CENTRIFUGAL	1137	42.5	BELT	36	40	460	3	60	1800	1500	HARRINGTON	HPCA-4025	CENTRIFUGAL BLOWER, VFD MOTOR, FRP.
EF-CN-07	CLEANROOM SCRUBBED EXH.	(1) 22,000	7	CENTRIFUGAL	1137	42.5	BELT	36	40	460	3	60	1800	1500	HARRINGTON	HPCA-4025	CENTRIFUGAL BLOWER, VFD MOTOR, FRP.
EF-CN-08	BATHROOM EXHAUST DCN-CNMS-001	3,150	0.8	CENTRIFUGAL	1055	16	BELT	0.34	1	460	3	60		200	PENN	DX16B	ROOF EXHAUSTER
EF-CN-09	PENTHOUSE-ELEC.	3000	0.25	CENTRIFUGAL	825	16	BELT	0.42	1/2	460	3	60		200	PENN	DX16B	ROOF EXHAUSTER
EF-CN-10	PENTHOUSE	3000	0.25	CENTRIFUGAL	825	16	BELT	0.42	1/2	460	3	60		200	PENN	DX16B	ROOF EXHAUSTER
EF-CN-11	DI ROOM, B1-7-2	6000	0.25	CENTRIFUGAL	685	24	BELT	0.87	1	460	3	60		220	PENN	DX24B	ROOF EXHAUSTER
EF-CN-12	HAZ MAT, B1-7-5	116	0.25	CENTRIFUGAL	835	6	BELT	0.04	1/4	120	1	60	1750	80	PENN	DX06B	ROOF EXHAUSTER, SPARKPROOF
EF-CN-13	NOT USED!!																
EF-CN-14	HAZ MAT, B1-7-7	188	0.25	CENTRIFUGAL	835	6	BELT	0.04	1/4	120	1	60	1750	80	PENN	DX06B	ROOF EXHAUSTER, SPARKPROOF
EF-CN-15	HAZ MAT, B1-7-8	527	0.75	CENTRIFUGAL	1390	8	BELT	0.25	1/3	120	1	60	1750	80	PENN	DX08B	ROOF EXHAUSTER, SPARKPROOF
EF-CN-16	HAZ MAT, B1-7-4	116	0.25	CENTRIFUGAL	835	6	BELT	0.04	1/4	120	1	60	1750	80	PENN	DX06B	ROOF EXHAUSTER, SPARKPROOF
EF-CN-17	RECEIVING, B1-7-10	600	0.25	CENTRIFUGAL	1150	6	BELT	0.14	1/4	120	1	60	1750	80	PENN	DX06B	ROOF EXHAUSTER
EF-CN-18	MG SETS, B1-7-12	4,800	0.25	CENTRIFUGAL	600	24	BELT	1	3	460	3	60	1750	220	PENN	DX24B	ROOF EXHAUSTER
EF-CN-19	CR TRANSFORMERS, B-6-51	9,000	0.25	CENTRIFUGAL	640	30	BELT	1.49	2	460	3	60	1750	250	PENN	DX30B	ROOF EXHAUSTER
EF-CN-20 (1 DCN-CNMS-001)	HAZ MAT, B1-7-8	527	0.75	CENTRIFUGAL	1390	8	BELT	0.25	1/3	120	1	60	1750	80	PENN	DX08B	ROOF EXHAUSTER, SPARKPROOF

HOT WATER UNIT HEATER SCHEDULE

TAG	LOCATION	Btu/Hr	Supply Air CFM	EWT deg. F	LWT deg.F	Water Flow GPM	PD Ft H2O	LAT deg. F	Motor Electric Data HP	RPM	Volts	Phase	Hz	REMARKS
UH-CN-01	FIRE RISER, LEVEL 1	15,000	815	190	150	1	0.03	–	1/20	1550	115	1	60	TRANE 60-S
UH-CN-02	MECH. ROOM	36,000	1,500	190	150	2.21	0.15	–	1/8	1550	115	1	60	TRANE 100-S
UH-CN-03	RECEIVING	47,000	1,760	190	150	2.5	0.15	–	1/8	1550	115	1	60	TRANE 100-S
UH-CN-04	MG SETS	15,000	815	190	150	1	0.03	–	1/20	1550	115	1	60	TRANE 60-S
UH-CN-05	TRANSFORMER RM	15,000	815	190	150	1	0.03	–	1/20	1550	115	1	60	TRANE 60-S
UH-CN-06	ELEVATOR RM.	15,000	815	190	150	1	0.03	–	1/20	1550	115	1	60	TRANE 60-S
UH-CN-07	ELECTRICAL RM.	15,000	815	190	150	1	0.03	–	1/20	1550	115	1	60	TRANE 60-S

NOTES: 1. MINIMUM MOUNTING HEIGHT OF UNIT HEATER 10-0" (TO BOTTOM OF UNIT) ABOVE FINISHED FLOOR.
2. ADJUSTABLE DEFLECTOR BLADES, TEFC MOTOR WITH THERMAL OVERLOAD PROTECTION.

MOTORIZED DAMPERS

TAG	LOCATION	SIZE ft	ACTUATOR
MD-CN-01	ELEVATOR RM.	4x3	ELECTRIC
MD-CN-02	ELECTRICAL RM.	4x3	ELECTRIC
MD-CN-03	TRANSFORMER RM	8x4	ELECTRIC
MD-CN-04	MECH. ROOM	6x4	ELECTRIC
MD-CN-05	RECEIVING	2x2	ELECTRIC
MD-CN-06	MG SETS	5x4	ELECTRIC

Note: Damper to match location of wall louver. See Arch. Dwgs.

PUMP SCHEDULE

UNIT No.	SERVICE	CASING TYPE	GPM	HEAD (FT. WTR.)	MINIMUM EFFICIENCY %	BHP	MOTOR ELECTRICAL DATA HP	Volts V	Phase Ph	Cycle Hz	RPM	SIZE SUCTION (INCHES)	DISCH. (INCHES)	BASIS OF DESIGN MFR.	MODEL No.	REMARKS
P-CN-01	CLEAN ROOM AIR HANDLERS	CENTRIFUGAL	250	75	70	6.3	7.5	460	3	60	1750	3	2 1/2	PACO		VFD
P-CN-02	CLEAN ROOM AIR HANDLERS	CENTRIFUGAL	250	75	70	6.3	7.5	460	3	60	1750	3	2 1/2	PACO		VFD
P-CN-03	PROCESS COOLING WATER	CENTRIFUGAL	300	250	65	28	40	460	3	60	3500	3	2 1/2	PACO		
P-CN-04	PROCESS COOLING WATER	CENTRIFUGAL	300	250	65	28	40	460	3	60	3500	3	2 1/2	PACO		

DIFFUSER, GRILLE AND REGISTER SCHEDULE

TYPE	SERVICE	FACE SIZE IN	NECK SIZE IN	SLOT SIZE IN	MATERIAL	MODEL NUMBER	CEILING TYPE	SPEC SECTION	MANUFACTURER	REMARKS
A	SUPPLY	24x24	ROUND NECK	N/A	STEEL	PDS	SEE ARCH CEILING PLANS		TITUS W/ AG-75 DAMPER	
B	SUPPLY	12x24	ROUND NECK	N/A	STEEL	PDS	SEE ARCH CEILING PLANS	15855	TITUS W/ AG-75 DAMPER	
C	RETURN/EXHAUST	24x24	SEE PLAN	N/A	STEEL	PDR	SEE ARCH CEILING PLANS	15855	TITUS	
C1	RETURN/EXHAUST	24x24	ROUND NECK	N/A	STEEL	PDR	SEE ARCH CEILING PLANS	15855	TITUS	
D	SUPPLY	48	SEE PLAN	(3) 1"	STEEL	TBDI-80	SEE ARCH CEILING PLANS	15855	WITH INLET PLENUM	
D1	SUPPLY	48	SEE PLAN	(2) 3"	STEEL	FL-60-2-HT	SEE ARCH CEILING PLANS	15855	WITH INLET PLENUM	
E	SUPPLY	48	ROUND NECK	(2) 1	STEEL		SEE ARCH CEILING PLANS	15855	TITUS W/ AG-75 DAMPER	
F	SUPPLY	24X48	12"	N/A	SEE SPEC	FFU	SEE ARCH CEILING PLANS	15930	MW-ZANDER	
G	SUPPLY	PLANS	SEE PLANS	N/A	STEEL	TMR-26	SURFACE MOUNTED	15855	TITUS W/ INTEGRAL VD	
H	SUPPLY	SEE PLANS	12"	N/A	SEE SPEC	HEPA	SEE ARCH CEILING PLANS	15887	FLANDERS	
I	SUPPLY	SEE PLANS	SEE PLAN	3/4	STEEL	300 RL	SEE ARCH CEILING PLANS	15855	TITUS DOUBLE DEFLECTION W/	AG-15 DAMPER
J	SUPPLY	SEE PLANS	SEE PLAN	N/A	STEEL	JFA	SURFACE MOUNTED	15855	DOUBLE DEFLECTION W/ AG-35	DAMPER
K	TRANSFER	SEE PLANS	SEE PLAN	3/4	STEEL	350 RL	SEE ARCH CEILING PLANS	15855	DOUBLE DEFLECTION W/ AG-15	DAMPER
L	DOOR GRILLE	SEE PLANS	SEE PLAN	1/2	STEEL	T-700L	SEE ARCH CEILING PLANS	15855	DOUBLE DEFLECTION W/ AG-15	DAMPER
M	SUPPLY, DRUM LOUVER	SEE PLANS	SEE PLANS	N/A	ALUMINUM	DL	N/A	15855	TITUS	WITH SS OPPOSED BLADE DAMPER
N	SUPPLY, REGISTER	SEE PLANS	SEE PLAN		STAINLESS STEEL 304L	300-RL-SS	N/A	15855	TITUS	WITH SS OPPOSED BLADE DAMPER
O	RETURN REGISTER	SEE PLANS	SEE PLAN		STAINLESS STEEL 304L	350RL-SS	N/A	15855	TITUS	
P	SUPPLY, REGISTER	SEE PLANS	SEE PLAN		STEEL	300-RL	N/A	15855	TITUS	WITH OPPOSED BLADE DAMPER
Q	RETURN REGISTER	SEE PLANS	SEE PLAN		STEEL	350-RL	N/A	15855	TITUS	
R	RETURN PLENUM	SEE PLANS	NOT APPLICABLE	(1) 1"	STEEL	TBR-30	SEE ARCH CEILING PLANS	15855	TITUS	
R1	RETURN PLENUM	SEE PLANS	NOT APPLICABLE	(2) 1"	STEEL	TBR-30	SEE ARCH CEILING PLANS	15855	TITUS	
R2	RETURN PLENUM	SEE PLANS	NOT APPLICABLE	(1) 3/4"	STEEL	TBR-30	SEE ARCH CEILING PLANS	15855	TITUS	
R3	RETURN PLENUM	SEE PLANS	NOT APPLICABLE	(2) 1 1/2"	STEEL	TBR-30	SEE ARCH CEILING PLANS	15855	TITUS	

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NUMBER OF SECTION OR DETAIL
DRAWING ON WHICH SECTION OR DETAIL IS SHOWN OR TAKEN
SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY
CHANGE CONTROL SYSTEM
ENGINEERING PROCEDURE

REV	CHANGE TYPE	CHANGE CONTROL SYSTEM	CHANGE REQUEST NUMBER	DESCRIPTION	DSN	CHK	DEPT
0				CERTIFIED FOR CONSTRUCTION – 12/9/02	JG	BWJ	

REVISION OR ISSUE PURPOSE

DATE	PE	DATE	PJ	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE
									BWJ	105869	12/9/02

REVISION APPROVALS

ST	CV	EC	EE	EM	IE	M	PD	SE	AR
BZ	AW	BWJ	AK	IM	DM	–	BWJ	–	TW

SQUAD CHECK

RPE
REV. DATE
DRAWING APPROVALS

DSN
DRW
CHK
DEPT
PE CLG
PJ JS
REQ
UTB JRL

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UT-BATTELLE, LLC. ◆ Oak Ridge, Tennessee

PROJECT NAME:
CENTER FOR NANOPHASE MATERIALS SCIENCES

HVAC SCHEDULES

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	H	X	X	8	8610		1	1	D	U

51	52	53	A/E DRAWING NUMBER:	REV
NC	NA		H9.11.40	0

AutoCAD