

TO APPLIANCE.

— 6" DEEP DIRT POCKET, LINE SIZE.

SECONDARY PUMPING HEATING COIL PIPING

SCHEMATIC WITH 3-WAY VALVE CONTROL

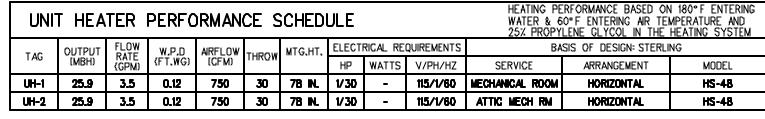
DOWNFEED GAS PIPING

NOTE: APPLIANCES WITH REGULATORS:
LOCATE PIPING SHOWN HEREIN
UPSTREAM OF THE APPLIANCE
REGULATOR, PROVIDE A TEST
PLUE DOWNSTREAM OF THE

CONNECTION DETAIL

REFRIGERANT PIPING AT WALL PENETRATION DETAIL

...\Drawings\m4.1.dgn 05/10/04 04:13:25 PM



EXF	EXPANSION TANK PERFORMANCE SCHEDULE													
TAG	TANK VOLUME	AGCEPTANGE VOLUME	MIN. REQ'D.	MAX. WORK'G. TEMPERATURE	MAX. WORK'G. PRESSURE	WEIGHT	В	ASIS OF DESIGN: TAG	00					
I AU	(GAL)	(GAL)	ACCEPT.VOL. (GAL)	(DEG F)	(PSI)	(LBS)	MOUNTING	SERVICE	MODEL					
ET-1	79.D	43.0	12.5	240	125	300	FLOOR	HWS/R	CBX-30D					
ET-2	8.0	5.0	5.0	240	125	90	FLOOR	IFWH-1	PAX30					

BFP	PEF	RFORM	ANCE	SCHEDU	LE		(DDC) = ((LE DESKANATIONS REFERENCED ARE AS FOLLOW DOUBLE DETECTION CHECKI (DCA) - DOUBLE CHE(PZ) - DOUBLE CHECK W. REDUCED PRESSURE ZO	CK WITH ATMOSPHERIC
TAG	SIZE	FLOW RATE (GPM)	W.P.D (PSI)	MAX. WÖRK'Ğ. TEMPERATURE	MAX. WÖRK'Ğ. PRESSURE	TESTABLE	BASIS OF DES	SIGN: ZURN-WILKINS	
I MG	SIZE	(GPM)	(PSI)	(DEGREES F)	(PSI)	(Y) OR (N)	SERVICE	MODEL	
BFP-1	2"	75.0	15.0	180	175	Y	RPZ	WATER ENTRANCE	975XL
BFP-2	2"	75.0	15.0	180	175	Y	RPZ	WATER ENTRANCE	975XL
BFP-3	1"	•	-	180	175	Y	RPZ	BOILER FILL	975XL

CON	NVECT(OR/F	INTUBE	PERFOR	MANCE :	SCHEDUL	F WATER T	EMP. & 65°F	ENTERING AIR	70°F AVERAGE TEMPERATURE E HEATING SYSTEM
TAG	OUTPUT (MBH/FT)	FLOW RATE (GPM)	MOUNT'G. HEIGHT(IN)	ENCLOSURE	ELEMENT	ENCLOSURE		BASIS OF	DESIGN: STERLIN	IG
1763	(MBH/FT)	(GPM)	HEIGHT(IN)	HEIGHT(IN)	LENGTH(FT)	LENGTH(FT)	TUBE SIZE(IN)	FINS/FOOT	NO. OF TIERS	MODEL
FTR	0,70	2.0	•	9-1/8"		MB	3/4"	55	1	HEATRIM PLUS

*- ELEMENT LENGTH AS REQUIRED TO MEET OUTPUT INDICATED ON DRAWINGS. **- ENCLOSURE LENGTH SHALL BE ELEMENT LENGTH PLUS 12" OR WALL TO WALL (AS INDICATED ON DRAWINGS).

TAG FLOW RATE (GPM) W.P.D. (FT.WG) Cv FACTOR (Y) OR (N) STRAINER (Y) OR (N) MAX. WORK'G. TEMPERATURE (DEGREES F) MAX. WORK'G. PRESSURE (PSI) BASIS OF DESIGN: TACO AS-1 153.0 0.55 325 N 375 125 HWS/R 4" AC4	AIR	SEPA	RATOF	R PER	FORMAN	ICE SCHE	EDULE							
	TAC	FLOW	W.P.D	Cv	STRAINER	TEMPERATURE		E	BASIS OF DESIGN: TA	/CØ				
AS-1 153.0 0.55 325 N 375 125 HWS/R 4" AC4	I AG	(GPM)	(FT.WG)	FACTOR	(Y) OR (N)			SERVICE	PIPE SIZE(IN)	MODEL				
	AS-1	153.0	0.55	325	N	375	125	HWS/R 4" AC4						

WA	LL/KIC	KSPA	CE HE	ATER	PERFORM	MANCE SO	HEDULE	HEATING PERFORMAI 25% PROPYLENE GL HEATING SYSTEM				
TAG	OUTPUT	FLOW RATE	W.P.D.	AIRFLOW	ENTERING WATER TEMP	ELECTRICAL F	ELECTRICAL REQUIREMENTS BASIS OF DES					
TAG	(MBH)	(GPM)	(FT.WG)	(CFM)	(DEG F)	AMPS	V/PH/HZ	SERVICE	MODEL			
WH-1	3.5	1.0	0.06	5D	180	-	120/1/60	ELECTRICAL ROOM	2004-KSWK			
WH-2	3.5	1.0	0.06	5D	180	-	120/1/60	CHECK-IN	2004-KSWK			
WH-3	3.5	1.0	0.06	5D	180	-	120/1/60	LAUNDRY	2004-KSWK			
WH-4	3.8	2.0	0.30	5D	180	-	120/1/60	UNIT 129	2004-KSWK			
WH-5	3.8	2.0	0.30	5D	180	-	120/1/60	UNIT 214	2004-KSWK			
WH-6	3.8	2.0	0.30	5D	180	-	120/1/60	UNIT 205	2004-KSWK			
WH-7	3.8	2.0	0.30	5D	180	-	120/1/60	UNIT 314	2004-KSWK			
WH-8	3.8	2.0	0.30	5D	180	-	120/1/60	UNIT 305	2004-KSWK			

AIR	AIR DEVICE PERFORMANCE SCHEDULE													
TAG	PANEL SIZE(IN)	NECK	AIRFLOW	SP.LOSS	THROW(L)	THROW(S)	Nc	BASIS	OF DESIGN; MET	ALAIRE				
1712	WxH	SIZE(IN)	(CFM)	(IN.WG.)	THITOMAL	11111411107	110	DUCT GONN.(IN)	PATTERN	MODEL				
A	-	6x6	150	80.0	20-28	8-15	23	see dwgs	see dwgs	5500				
ⅎ	-	12x12	400	0.04	21-33	-	22	see dwgs	see dwgs	5500				
(AA)	10x10	8x8	110	0.01		•	25	see dwgs	see dwgs	\$585				
(BB)	12x12	10x10	220	0.01	-	-	25	see dwgs	SEE DWGS	\$585				

LOI	LOUVER PERFORMANCE SCHEDULE												
TAG	AR FLOW	SP LOSS	AIR VEL.	SIZE	FREE AREA		BLADE ANGLE &	BASIS OF DESIGN: F	Ruskin				
ING	(CFM)	(IN.WG)	(FPM)	(INCHES)	(SQ.FT)	(Y) OR (N)	FRAME DEPTH	SERVICE	MODEL				
L-1	•	-	-	36x24	2.92	Y	35*, 6"	COMBUSTION AIR	ELF6375DX				
L-2	-	-	-	36x24	2.92	Y	35*, 6"	COMBUSTION AIR	ELF6375DX				
L-3	280	0.06	571	18x12	0.49	Y	35*, 6"	EMR VENT	ELF6375DX				
L-4	280	0.06	571	18x12	0.49	Y	35 *, 6*	EMR VENT	ELF6375DX				
L-5	4100	0.06	527	48x42	7.79	Y	35 *, 6*	erv-1 intake	ELF6375DX				
L-6	3050	0.04	391	48x42	7.79	Y	35*, 6"	erv-1 exhaust	ELF6375DX				
L-7	1000	0.06	505	36x18	1.98	Y	35°, 6"	UV-1 INTAKE	ELF6375DX				

CONT	ROL V	/ALVE	SCHEDU	LE	
TAG	FLOW RATE (GPM)	Cv	VALVE SIZE (IN)	TYPE	SERVICE
V-1	125.0	101.0	3" FLANCE	3-WAY, MIXING	HWS/R RESET
V-2	2.0	2.2	1/2" SCREW	2-WAY, 2-POSITION	FTR-1
V-3	10.0	12.0	1" SCREW	3-WAY, MIXING	HC-1

TAG	DESCRIPTION	SAN	VENT	CW	HW
P-1	FLOOR MOUNTED FV WC	3"	2"	1/2"	•
P-1A	ADA FLOOR MOUNTED FV WC	3"	2"	1/2"	-
P-2	COUNTERTOP LAV	1-1/2"	1-1/2"	1/2"	1/2"
P-2A	ADA COUNTERTOP LAV	1-1/2"	1-1/2"	1/2"	1/2"
P-3	SINGLE BOWL SS KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-4	ADA SINGLE BOWL SS KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-5	ADA DOUBLE BOWL SS KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-6	SHOWER	2"	1-1/2"	1/2"	1/2"
P-6A	ADA SHOWER	2"	1-1/2"	1/2"	1/2"
P-7	24"x24" MOP BASIN	3"	2"	1/2"	1/2"
P-8	WASHING MACHINE	2"	1-1/2"	1/2"	1/2"
FD-1	FLOOR DRAIN	as noted	2"	-	-

FD-1 I	<u>floor dr</u>	AN			as in	DTED	2"	-		-
				ANITARY 8					-	
NOTE: I	FIXTURES	WITH (T)	DESIGNA	TION (i.e.,	P-3(T)	SHALL	HAVE	TRAP	PRIM	ÆRS.
ALL	FLOOR D	rains sh	all havi	e primed '	TRAPS					

	<u> </u>	BEN ENG	NET INEE	T ERI	NG
--	----------	------------	-------------	----------	----

Beanett Road, P.O. Box 297, Freeport, Maine O4O32 Tel - (2O7) 865-9475 Pex - (2O7) 865-1800 Email - office@beouttenginsering.act

CAB	INET	UNIT	HEATE	ER PE	RFOF	WATER & 7		IN 180°F ENTERING EMPERATURE AND HEATING SYSTEM					
TAG	OUTPUT	FLOW RATE	W.P.D	AIRFLOW	THROW	MTG.HT.	ELECT	RICAL REG	QUIREMENTS	BASIS OF DESIGN; STERLING			
TAG	(MBH)	(GPM)	(FT.WG)	(CFM)	HINOW	(FEET)	HP	WATTS	V/PH/HZ	SERVICE	ARRANGEMENT	MODEL	
CUH-1	16.9	2.0	D. 26	335	•	FLOOR	1/15	-	120/1/6D	STAIR +1	FLOOR	FI-1050-03	
CUH-2	16.9	2.0	D. 26	335	•	FLOOR	1/15	-	120/1/6D	STAIR +2	FLOOR	FI-1050-03	
CUH-3	12.0	2.0	0.24	185=	•	FLOOR	1/15	-	120/1/6D	CORRIDOR 122	FLOOR	FI-1050-02	
CUH-4	12.0	2.0	0.24	185=	•	FLOOR	1/15	-	120/1/6D	CORRIDOR 123	FLOOR	FI-1050-02	
CUH-5	16.9	2.0	D. 26	335	-	FLOOR	1/15	-	120/1/6D	Vestibule 101	FLOOR	FI-1050-03	
CUH-6	12.0	2.0	0.24	185=	-	FLOOR	1/15	-	120/1/6D	CORRIDOR 216	FLOOR	FI-1050-02	
CUH-7	12.0	2.0	0.24	185=	-	FLOOR	1/15	-	120/1/6D	CORRIDOR 216	FLOOR	FI-1050-02	
CUH-B	12.0	2.0	0.24	185=	•	FLOOR	1/15	-	120/1/6D	ELEV. LOBBY 202	FLOOR	FI-1050-02	
CUH-9	12.0	2.0	0.24	185=	-	FLOOR	1/15	-	120/1/6D	3RD FLR CORRIDOR	FLOOR	FI-1050-02	
CUH-10	12.0	2.0	0.24	185=	•	FLOOR	1/15	-	120/1/6D	3RD FLR CORRIDOR	FLOOR	FI-1050-02	
z - L(OW FAN S	SPEED .											

BOIL	ER PE	ERFOR	MANC	E SCH	EDULE	•						
TAC	I-B-R R	ATINGS*	D.O.E	FIRING	ANN. FUEL	BOILER	ELECT	RICAL REG	QUIREMENTS		BASIS OF DESIGN: SMITH	
TAG	GROSS×	NET×	INPUT (MBH)	(GAL/HR)	EFFIC.	SECT'NS	HP	WATTS	V/PH/HZ	SERVICE	BURNER MAKE	MODEL
B-1	575.0	500.0	•	725.0	•	5	1/3	-	115/1/60	HWS/R	POWER FLAME JR30A	G19A-W-
B-2	575.0	500.0	-	725.0	•	5	1/3	-	115/1/60	HWS/R	POWER FLAME JR30A	G19A-W-

TAG	FLOW	HEAD	IMPEL.	BDM			ELECTF	RICAL REQL	IREMENTS	5	BAS	IS OF DESIGN: TACO	
I AU	RATE (GPM)	(FT.WG)	SIZE	RPM	EFF ½	HP	BHP	WATTS	AMPS	V/PH/HZ	SERVICE	ARRANGEMENT	MODEL
CP-1	125.0	50.0	8.55	1760	44	5.0	3.53	-	-	208/3/60	HWS/R	VERT INLINE	KV1509
CP-2	125.0	50.0	8.55	1760	44	5.0	3.53	-	-	208/3/60	HWS/R	VERT INLINE	KV1509
CP-3	28.Q	30.0	5.60	175D	49	0.75	0.43	-	-	115/1/60	IFWH-1	NLNE	1619
CP-4	10.0	15.0	-	3450	-	1/3	-	-	-	115/1/60	ERV-1	NLNE	IL112
CP-5	4.D	15.0	-	3250	-	1/25	-	-	0.79	115/1/60	HW RECIRC	NLNE	DDBB=
CP-6	77.Q	15.0	5.56	1760	61	1	0.47	-	-	208/3/80	B-1	VERT. INLINE	KV2006
CP-7	77.0	15.0	5.56	1760	61	1	0.47	-	-	208/3/60	B-2	VERT. INLINE	KV2006

T.4.0	AIRFLOW	T.S.P	NOISE	BBU	DDIVE		ELECTE	RICAL REQU	JIREMENTS		BASIS OF DESIGN: (N) - NUTONE,(G) - GREENH
TAG	(CFM)	(IN.WG)	(SONES)	RPM	DRIVE	HP	BHP	WATTS	AMPS	V/PH/HZ	SERVICE	ARRANGEMENT	MODE
EF-1	130	0.25	5.5	1018	DIRECT	-	-	55	0.78	115/1/60	KITCHEN EXHAUST	CEILING	(N) B3
EF-2	85	0.30	3.0	-	DIRECT	-	-	-	0.65	115/1/60	TOILET 112	CEILING	ON) QT
EF-3	85	0.30	3.0	-	DIRECT	-	-	-	0.65	115/1/60	JAN CLOSET 116	CEILING	OND QT
EF-4	85	0.30	3.0	-	DIRECT	-	-	-	0.65	115/1/60	OFFICE 102	CEILING	ON) QT
EF-5	85	0.30	3.0	-	DIRECT	-	-	-	0.65	115/1/60	STAFF OFFICE 203	CEILING	ON) QT
EF-6	85	0.30	3.0	-	DIRECT	-	-	-	0.65	115/1/60	OFFICE 301	CEILING	ON) QT
IF-7	220	0.50	-	-	DIRECT	-	-	-	0.80	115/1/60	CRAWLSPACE EXHAUST	NLINE	ON) IL2
EF-8	220	0.50	-	-	DIRECT	-	-	-	0.80	115/1/60	CRAWLSPACE EXHAUST	NLINE	ON) IL2
EF-9	260	0.30	5.4	1550	DIRECT	1/20	0.03	-	-	115/1/60	EMR VENT	NLINE	(G) SQ-(
SF-1	435	0.40	7.4	1550	DIRECT	1/10	0.07	-	-	115/1/60	MECHANICAL RM VENT.	NLINE	(G) SQ-
SF-2	220	0.50	-	-	DIRECT	-	-	-	0.80	115/1/60	CRAWLSPACE SUPPLY	NLINE	OD IL2
SF-3	220	0.50	-		DIRECT	-	-	-	0.80	115/1/60	CRAWLSPACE SUPPLY	NLINE	ON) IL2

INDI	RECT-	FIRE	D WA	TER HE	ATER	PERFO	RMANC	E SC	CHEDU	JLE			
TAG	STORAGE	INPUT	WPD (FT.WG)	1ST HOUR 90°F RISE	WORKING	INLET CW TFMP	INLET HW TEMP	ELECT	RICAL RE	QUIREMENTS	BAS	IS OF DESIGN: SUPER	STÖR
I AG	(GALS)	(GPM)	(FT.WG)	(GPH)	(PSIG)	(DEG F)	HW TEMP (DEG F)	£	WATTS	V/PH/HZ	SERVICE	FUEL	MODEL
FWH-1	119.0	28.0	12.7	637.0	150.0	40.0	180.0	-	-	-	DOMESTIC HW	HWS/R	SSU-119C-D

	HEA	TING	COIL F	PERFO	RMAN	ICE SC	CHEDU	LE							* - B	ASED ON	25% PROPYLEN BASIS OF		
1	TAG	OUTPUT {MBH)×	SIZE {AREA} (SQ.FT.)	FLOW RATE (GPM)	W.P.D (FT.WG)	WATER VELOCITY (FPS)	E.W.T. (°F)	L.W.T. (°F)	ROWS	TURBS (Y/N)	HTG. AIR FLOW (CFM)	A.P.D {IN.WC]	E.A.T. (*F)	L.A.T. (*F)	FIN TYPE	FPF	MODEL	VALVE	SERVICE
	HC-1	141.0	B.5	10.0	0.70	-	180.0	150.0	1	•	4100	0.11	40.0	72.0	-	120	5WQ1001B	V-3	ERV-1
1																			

CON	NDENS	ING UN	NIT PERF	ORMANO	CE SCI	HEDULE	,						F 95°F AMBIENT/45 MPRESSOR DISPLACE	
	NOMINAL COOLING (TONS)	TOTAL COOLING (MBH)×	REFRIGERANT		AMBIENT	FOOTPRINT DIMENSION (INCHES)	WEIGHT		TRICAL REQ		COMP. STAGING**	BASIS OF DESIGN: SOUND (dB(A))		MODEL
CU-1	2.5	28.3	R-22	2470	55	27x27	166	18.0	30.0	208/1/60	Q-100	78.0	UV-1	TTB030

SPLI	T-SYS	TEM CO	NDENSIN	IG UNI	T PERF	ORMAN	CE :	SCHEDU	JLE			BO°F AMBIENT/67° PRESSOR DISPLACEN	
TAG	TOTAL	REFRIGERANT	CONDENSER AIRFLOW	MINIMUM AMBIENT	FOOTPRINT DIMENSION	OPERATING WEIGHT	ELEC	TRICAL REQ	UIREMENTS	BAS	IS OF DESIGN: M	ITSUBISHI	
1710	(MBH)*	KET KIOLIV III		TEMP(*F)	(INCHES)	(LBS)	MCA	MAX FUSE	V/PH/HZ	COMP. STAGING**	SOUND (dB(A))	SERVICE	MODEL
CU-2	24.0	R-22	-	32°	34x12	207.D	16.0	15.0	208/1/60	0-100	55.0	SAC-2	PU24EK
CU-3	12.5	R-22	-	32*	34x12	105.0	11.0	15.0	208/1/60	0-100	50.0	SAC-1	PU12EK

UNI	T VEN	ITILA	TOR F	PERFC	RMANCE	SC	HEDL	ILE									ON 180°F EWT WITH L & 30°F MIXED EA	
TAA	AIRFLOW	Û.A.	E.S.P.	FAN			HEATING	COIL D	ATA	DX COOLING CO	DIL DATA			ELECT	RICAL RE	QUIREMENTS	BASIS OF [DESIGN: AAF
TAG	AIRFLÓW (CFM)	CFM	E.S.P. (IN.WG)	FAN RPM	COIL TYPE	EAT	MBH≖	GPM	WPD(IN.WG)	TOTAL COOLING (MBH)	SENSIBLE (MBH)	EDB	EWB	HP	FLA	V/PH/HZ	SERVICE	MODE
UV-1	1000	540	0.10	-	2-ROW	30.0	86.4	4.0	2.4	28.3	20.0	79.9	67.9	1/4	-	115/1/80	COMMUNITY RM.	S07:

SPLII	T-SYS	IEM A	IR CON	DITION	ER PE	RFUR	MANCE	SCHEDL					* - AT ARI CONDITI	ONS OF 85°F AMBIENT/6	5°F INDOOF
TAG	TOTAL COOLING (MBH)*	AIRFLOW	MOISTURE REMOVAL (PINTS/HR)	COND. DRAIN (IN)	EER	SOUND RATING (db(A))	WEIGHT	REFRIGERANT	PIPE SIZE (IN)	ELEC	TRICAL REQU	JIREMENTS	BASI	S OF DESIGN: MITSUBISHI	
TAG	(MBH)*	(CFM)	(PINTS/HR)	(IN)	(BTUH/ WATT)	(db(A))	(LBS)	LIQUID	GAS	MCA	MAX FUSE	V/PH/HZ	SERVICE	ARR ANGEMENT	MODE
SAC-1	12.6	490	3.8	%	10.3	45.0	37.0	1/2	%	1.0	15.0	115/1/60	LOBBY	WALL	PK12F
SAC-2	24.0	710	7.2	%	10.3	48.0	53.0	1/2	3/4	1.0	15.0	115/1/60	COMMUNITY RM	WALL	PK24F

EN	ERGY I	RECOV	'ERY	VENTIL	ATOR PE	RFORMANC	E SCHEDULI	E													BASIS	OF DESIGN; GREENHECK
TAG	EXHAUST AIR	SUPPLY	EXHAUST E.S.P	SUPPLY E.S.P		WINTE	R		HEATING		SUMM	ER		COOLING	PH	IYSICAL DIN	IENSIONS	(IN)	ELEC	TRICAL REQ	UIREMENTS	MODEL
I AG	(ĈFM)	(ĈFM)	(IN.WC)	{IN.WC}	OUTSIDE AIR	ROOM EXHAUST	OA AFTER WHEEL	EFF %	COIL	OUTSIDE AIR	ROOM EXHAUST	OA AFTER WHEEL	EFF %	COIL	WIDTH	LENGTH	HEIGHT	WEIGHT	MCA	MOCP	V/PH/HZ	MODEL
ERV-1	2/15/	4100	0.75	125	-10.0°F DB	72.0 °F DB	39.9 °F DB	60.B	HC-1	- *F DB	- ⁴F D⊟	- ⁴F D8			66.0	B6.0	68.5	2300	72 E	45.0	208/3/60	ERH-45H-15
ERV-I	3050 4100	0.75	125	-11.0°F WB	25.0 % RH	33.6 * F WB	OV.B	HC-I	- ⁴F WB	- / RH	- °F WB	•	_	00.0	B0.0	00.5	2300	32.6	49.0	208/3/60	EKH-43H-13	



🔲 Architecture

Value Dealgn

Portland, NE 0410 Phone: (207)774-444

Fax: (207)774-4016

www.CWSerch.com

| **8 pace Planning** 🔲 434 Cumberland Avenue

> ☐ Dwner: YC PORTLAND L.P. C/O AVESTA 307 CUMBERLAND AVI PORTLAND, MAINE 04101

YORK-CUMBERLAND HOUSING DEVELOPMENT

|207| 553-7777

LOGAN PLACE PORTLAND, MAINE

01.409 SRO ☐ Drawing Title: MECHANICAL AND

PLUMBING SCHEDULES AND DETAILS

AS NOTE JANUARY 14, 2004

Revisions

Drawing Number: