

HVAC DESIGN DATA

GENERAL NOTES:
A. OUTDOOR DESIGN CONDITIONS: 92°F DB SUMMER, 74°F WB SUMMER, 6°F DB WINTER. B. DESIGN ALTITUDE: 869 FT.

NOTES:
1. "FLOATING" MEANS THERE IS NO ACTIVE CONTROL.
2. OUTDOOR AIR VENTILATION ONLY.

SPACE NAME / TYPE	INTERIOR DESIGN DATA				SEE NOTE
	SUMMER		WINTER		
	*F DB	% RH (NOTE 1)	*F DB	% RH	
OFFICES	74	55	72	FLOATING	1
TRUCK BAY	NOTE 1	NOTE 1	NOTE 1	FLOATING	2
MECHANICAL ROOMS	NOTE 1	FLOATING	55	FLOATING	2

DUCT CONSTRUCTION, SEALING, AND INSULATION

GENERAL NOTES:
A. REFER TO SPECIFICATIONS FOR DUCT CONSTRUCTION: SHEET METAL DUCT; INTERIOR LINING: EXTERIOR INSULATION; FIBERGLASS DUCTBOARD, ETC. B. DUCT CONSTRUCTION AND SEALING SHALL BE PER LATEST S.M.A.C.N.A. STANDARDS.

NOTES:
1. ROUND SHEET METAL RUN-OUTS TO AIR DEVICES DOWNSTREAM OF VAV BOXES SHALL BE EXTERNALLY INSULATED.
2. RETURN DUCTWORK WITHIN 15' OF AIR HANDLING UNIT SHALL BE INTERNALLY LINED.
3. WATERTIGHT SEAL.
4. INSULATE FROM 24" UPSTREAM OF BACKDRAFT / ISOLATION DAMPER TO PENETRATION OF WALL / ROOF.
5. CONCEALED ROUND RUNOUT DUCTS TO AIR DEVICES MAY BE 1" S.P. CLASS.

DUCT SYSTEM	S.M.A.C.N.A. CLASS.		LEAKAGE CLASS		INTERNALLY LINED	EXTERNAL INSULATION	DOUBLE WALL INSULATED	NOT INSULATED	SEE NOTE
	S.P. CON-STRUCT.	SEAL CLASS	RECT	RND					
SUPPLY DUCTWORK UPSTREAM OF VAV BOXES FOR AHU-1 & 2	+3"	A	8	4	-	•	-	-	-
SUPPLY DUCTWORK DOWNSTREAM OF VAV BOXES AHU-1 & 2	+1"	A	16	8	-	•	-	-	1
MUA DUCTWORK FOR TRUCK BAY	+2"	A	16	8	-	-	-	•	-
RETURN DUCTWORK FOR AHU-1 & 2	-2"	A	16	8	-	•	-	-	2,5
TOILET OR GENERAL EXHAUST DUCTWORK	-1"	A	16	8	-	NOTE 4	-	-	-
EXHAUST DUCTWORK FOR TRUCK BAY	-2"	A	16	8	-	-	-	•	-
RELIEF AIR DUCTWORK	+1	A	16	8	-	NOTE 4	-	-	-
OUTSIDE AIR DUCTWORK	-1"	A	16	8	-	•	-	-	3

ELECTRIC FIN TUBE CONVECTORS

GENERAL NOTES:
A. HEATING CAPACITY BASED ON 60°F ENT. AIR. B. ELECTRICAL SERVICE TO 3-PHASE UNITS SHALL BE 3-WIRE UNLESS NOTED OTHERWISE. C. 3-PHASE COIL LOADS SHALL BE DIVIDED EVENLY ACROSS EACH PHASE. D. ENCLOSURES SHALL INCLUDE ALL ACCESSORIES TO PROVIDE A FINISHED APPEARANCE, SUCH AS END CAPS, FILLERS, ETC. E. VERIFY/COORDINATE CABINET DIMENSIONS, MOUNTING & RECESS REQUIREMENTS PRIOR TO ORDERING. F. RECESSED UNITS SHALL HAVE FOUR(4) SIDE OVERLAP UNLESS NOTED OTHERWISE. G. COORDINATE LINTELS IN MASONRY WALLS FOR FULL & SEMI-RECESSED UNIT WALL OPENINGS.

NOTES:
1. ENCLOSURE EXTENDING WALL-TO-WALL SHALL BE FIELD MEASURED PRIOR TO ORDERING.
2. MOUNTING HEIGHT TO BOTTOM OF UNIT UNLESS NOTED OTHERWISE ON FLOOR PLANS. 3. BASIS OF DESIGN: RAYWALL, F3712-060.
4. DISCONNECT SWITCH PROVIDED BY HC.

MARK	DESCRIPTION	MOUNTING	HEATING		ELECTRICAL SERVICE				APPROX. CABINET DIMENSIONS				THERMOSTAT			
			CAPACITY(MBH)	KW	VOLTAGE - PHASE	FULL LOAD AMPS (FLA)	MIN CIRCUIT AMPS (MCA)	MAX OVER CURRENT PROTECTION (MOCP)	INTEGRAL DISCONNECT	LENGTH (NOTE 1)	DEPTH	HEIGHT	RECESS	MOUNTING HEIGHT (AFF. NOTE 2)	UNIT MOUNTED	WALL MOUNTED
EFT-1	SUPPLEMENTAL HEAT	WALL MOUNT	4250	1.25	208-1	6	-	-	60"	6"	12"	0"	0'-6"	-	•	2,3,4

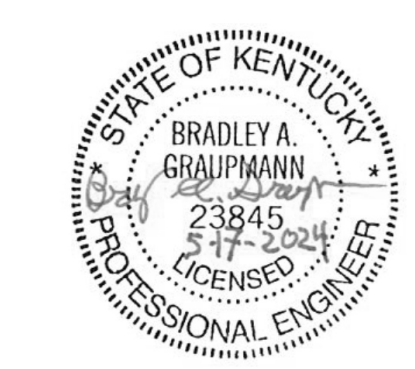
ELECTRIC UNIT HEATERS

GENERAL NOTES:
A. HEATING CAPACITY BASED ON 60°F ENT. AIR. B. ELECTRICAL SERVICE - SINGLE POINT POWER CONNECTION WITH INTEGRAL CONTROLS TRANSFORMER. ADEQUACY OF LISTED CIRCUIT SIZE MUST BE VERIFIED BY H.C. AND UNIT SUPPLIER. COST FOR INCREASE OR CHANGE OF ELECTRICAL SERVICE FOR EQUIPMENT SELECTED SHALL BE BORNE BY H.C. C. ELECTRICAL SERVICE TO 3-PHASE UNITS SHALL BE 3-WIRE UNLESS NOTED OTHERWISE. D. 3-PHASE COIL LOADS SHALL BE DIVIDED EVENLY ACROSS EACH PHASE. E. VERIFY / COORDINATE CABINET DIMENSIONS, MOUNTING & RECESS REQUIREMENTS PRIOR TO ORDERING. F. RECESSED UNITS SHALL HAVE FOUR(4) SIDE OVERLAP UNLESS NOTED OTHERWISE. G. COORDINATE LINTELS IN MASONRY WALLS FOR FULL & SEMI-RECESSED UNIT WALL OPENINGS.

NOTES:
1. MOUNTING HEIGHT TO BOTTOM OF UNIT, UNLESS NOTED OTHERWISE ON FLOOR PLANS. 2. UNIT SHALL OPERATE WHEN SPACE TEMPERATURE FALLS BELOW 60°F. 3. DISCONNECT SWITCH PROVIDED BY E.C. 4. BASIS OF DESIGN TPI - FIF5105N

MARK	DESCRIPTION	MOUNTING	FAN		HEATING		ELECTRICAL SERVICE				APPROX. CABINET DIMENSIONS				THERMOSTAT									
			CFM	MOTOR (HP) (WATTS)	ELECTRONICALLY COMMUTATED	CAPACITY(MBH)	KW (MIN)	KW (MAX)	STAGES	VOLTAGE - PHASE	FULL LOAD AMPS (FLA)	MIN CIRCUIT AMPS (MCA)	MAX OVER CURRENT PROTECTION (MOCP)	MINIMUM SCCR (AMPS)	INTEGRAL DISCONNECT	WIDTH	DEPTH	HEIGHT	RECESS	MOUNTING HEIGHT (AFF. NOTE 1)	VIBRATION ISOLATOR TYPE	UNIT MOUNTED	WALL MOUNTED	SEE NOTE
ECH-1	ISOLATION HEAT	SUSPENDED	400	-	-	5	5	5	1	208-1	24.1	25	30	5K	-	24"	6"	12"	0"	9'-0"	-	•	-	1,2,3,4

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