

NOTES	
1.	PROVIDE WITH DISCONNECT SWITCH.
2.	PROVIDE WITH PRIMARY AUTOMATIC RESET TEMPERATURE LIMITING CONTROL AND OVERHEAT RESET.
3.	PROVIDE WITH STEP DOWN CONTROL TRANSFORMER (24 VOLT).
4.	HEATER SHALL BE INTERLOCKED WITH EXISTING EMS AND AHU FAN.
5.	BASIS OF DESIGN IS MARKEL PD SERIES. OTHER ACCEPTABLE MANUFACTURERS INDEECO.
6.	PROVIDE WITH AIRFLOW SWITCH.
7.	UNIT SHALL BE CONSTRUCTED FOR OUTDOOR USE. PROVIDE NEMA-3R CONTROL PANEL.

REMARKS:	1. PROVIDE WITH VFD, STARTER AND DISCONNECT. VFD SHALL BE PROVIDED AND MOUNTED BY DIVISION 23. POWER TO VFD BY DIVISION 26.
	2. UNIT SHALL BE CONSTRUCTED FOR OUTDOOR USE.

NOTES

1. MECHANICAL CONTRACTOR SHALL INSTALL SMOKE DETECTOR IN SUPPLY DUCTS. INTERLOCK SMOKE DETECTOR TO SHUT DOWN FANS ON ALARM (BY CONTROLS CONTRACTOR). PROVIDE AND INSTALL DUCT ACCESS DOORS.
2. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED (POWER AND FIRE ALARM) BY THE ELECTRICAL CONTRACTOR.
3. MECHANICAL CONTRACTOR AND UNIT MANUFACTURER SHALL COORDINATE CAREFULLY FOR THE DUCT CONNECTIONS TO THE UNITS. SEE PLANS AND UNIT SECTIONS.
4. OUTLET VELOCITIES OF FANS SHALL NOT EXCEED 2,700 FEET PER MINUTE.
5. UNITS SHALL BE HOSPITAL GRADE DOUBLE WALL CONSTRUCTION WITH 2" THICK SPRAY FOAM PANELS.
6. MAXIMUM AND MAXIMUM COIL FACE VELOCITIES SCHEDULED ARE FOR FULL FACE DESIGN AIRFLOW.
7. PROVIDE UL-555S OPPOSED BLADE SMOKE DAMPER AT THE DISCHARGE OPENING OF THE AIR HANDLER. DAMPER SHALL BE FULL SIZE OF OPENING AND SHALL NOT CONSTRICT AIR FLOW.
8. ACCEPTABLE EQUIVALENT MANUFACTURERS TRANE, YORK AND CARRIER.
9. SUBMIT UNIT COMPONENT STATIC PRESSURE LOSSES TABULATION WITH DIRTY AIR FILTERS.
10. UNIT CASINGS SHALL BE CONSTRUCTED FOR 10" WG PRESSURE.
11. VFD SHALL BE PROVIDED AND MOUNTED BY DIVISION 23. POWER TO VFD BY DIVISION 26. VFD SHALL BE MOUNTED OUTSIDE THE ASSOCIATED FAN SECTION OF THE AIR HANDLER WITH ACCESS DOOR WITH 6"x6" WINDOW.
12. UNIT SHALL CONSTRUCTED FOR OUTDOOR USE.
13. PROVIDE SEPARATE ELECTRICAL CONNECTIONS FOR FAN AND HEATER.

NOTES

1. MANIFOLD BY HUMIDIFIER MANUFACTURER.
2. BASIS OF DESIGN IS ARMSTRONG. ACCEPTABLE MANUFACTURERS ARE DRI-STEEM, AND SPIRAX SARCO.
3. PROVIDE HIGH LIMIT HUMIDISTAT DOWNSTREAM OF DISTRIBUTION MANIFOLD.
4. MANIFOLD SHALL BE INSTALLED IN TEMPORARY DUCTWORK DURING CONSTRUCTION. AFTER CONSTRUCTION OF NEW UNIT, REPLACE MANIFOLD TO MOUNT IN FAN SECTION OF UNIT.

UNIT NUMBER	STEAM-HEATING COIL DATA										PRE-FILTER DATA				AFTER-FILTER DATA			RETURN FAN DATA										AIR TO AIR PLATE HEAT EXCHANGER					NOTES	
	FACE AND BYPASS DAMPERS	HEATING LOAD (MBH)	AIR SIDE DATA				STEAM DATA				PD (IN WG)		MAX FACE VEL (FPM)	EFFICIENCY	PD (IN WG)		EFFICIENCY	CFM FAN SIZED FOR	MINIMUM EXT SP IN WG	FAN TYPE	WHEEL TYPE	MAX OUTLET VEL (FPM)	MIN. HP	VFD REQ'D	ELECTRICAL DATA				PLT HEX REQ'D	EXH CFM	O.A. °F	R.A. °F		MAX S.P LOSS "WC
			EAT (°F) Db	LAT (°F) Db	MAX APD (IN WG)	MAX FACE VEL (FPM)	ENT VAL PRESS	STM (°F) Db	COND. (LB/HR)	MAX FPF															CLEAN	FINAL	CLEAN	FINAL						
7-AHU107	NO	270.2	26.5	55	0.35	650	25.0	267	578.3	120	0.25	0.6	500	MERV 7	0.14	0.50	MERV 13	12,800	3.2	CENT.	BIAF	2,700	20	YES	208	3	60	VFD	VFD	NO	N.A.	N.A.	N.A.	N.A.
7-AHU108	NO	197.9	26.5	55	0.35	650	25.0	267	423.5	120	0.25	0.6	500	MERV 7	0.14	0.50	MERV 13	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	—	—	—	—	—	YES	9,200	26.5	74	1.0	

10. PROVIDE UL-555S OPPOSED BLADE SMOKE DAMPER AT THE DISCHARGE OPENING OF THE AIR HANDLER. DAMPER SHALL BE FULL SIZE OF OPENING AND SHALL NOT CONSTRICT AIR FLOW.
11. PROVIDE SERVICE RECEPTACLE MOUNTED ON EXTERIOR OF UNIT.
12. BASIS OF DESIGN IS TRANE. ACCEPTABLE EQUIVALENT MANUFACTURERS INNOVENT, YORK, AND CARRIER.
13. SCHEDULED MAXIMUM AIR PRESSURE DROP FOR STEAM PREHEAT COIL.
14. SUBMIT UNIT COMPONENT STATIC PRESSURE LOSSES TABULATION WITH DIRTY AIR FILTERS.
15. UNIT CASINGS SHALL BE CONSTRUCTED FOR A MINIMUM OF 10" WG PRESSURE.
16. VFD SHALL BE PROVIDED BY DIVISION 23. POWER TO VFD BY DIVISION 26. SEE PLANS FOR VFD MOUNTING LOCATIONS.
17. EACH FAN SHALL BE PROVIDED WITH AIR FLOW MEASURING DEVICE.
18. PROVIDE WITH ULTRAVIOLET LAMPS FOR 120V/1Ø AT 15 AMPS. CIRCUIT BY ELECTRICAL CONTRACTOR.
18. PROVIDE SECONDARY DRAIN PAN PER DETAIL ON M502.

