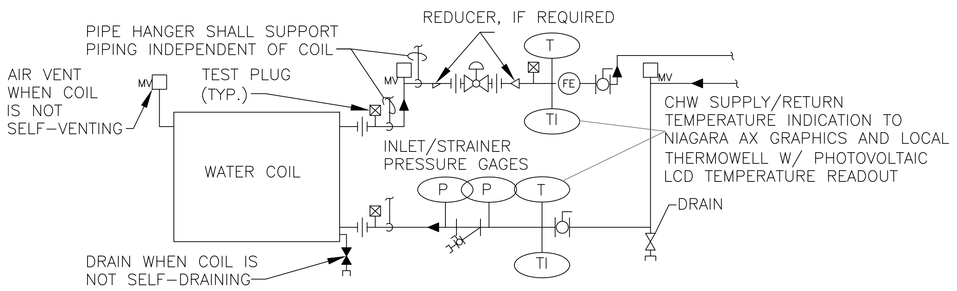
P – Pressure gage
T – DDC Thermometer
TI – Local Thermometer
MV – Manual Air Vent
FE – Flow Element/Circuit Setter



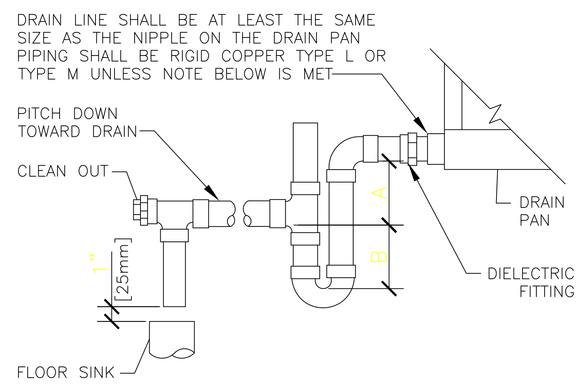
SINGLE COIL

NOTE:

1. WHEN COIL IS INCLUDED IN CASING MOUNTED ON VIBRATION ISOLATORS THE FIRST 2 HANGERS FOR EACH PIPE SHALL BE SPRING & NEOPRENE TYPE. TYPE "H" FOR 4" [100mm]ø PIPE & SMALLER. TYPE "H-P" FOR 5" [125mm]ø PIPE & LARGER.
2. PIPING SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS; NEITHER SHALL IT BLOCK THE SERVICING OF FILTERS, VALES, OR EQUIPMENT.
3. THE FLOW ELEMENT MAY BE INSTALLED IN THE SUPPLY PIPING IF THE REQUIRED MINIMUM UPSTREAM AND DOWNSTREAM DIMENSIONS CANNOT BE OBTAINED IN THE RETURN PIPING.

1 WATER COILS - PIPING CONNECTIONS

NTS



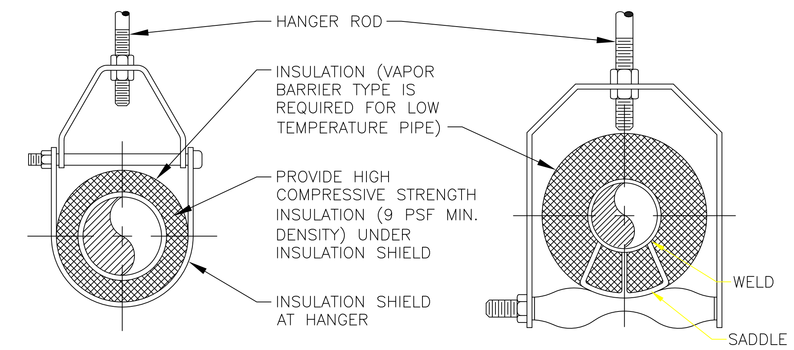
NOTE: 1. CPVC PIPE MAY BE USED ONLY IF APPROVED BY LOCAL VA AND IS INDOORS AND DOES NOT PASS THROUGH RATED BARRIERS.
2. DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED.

UNIT TYPE	A	B
DRAW THRU	2" [50mm] PLUS X	X
BLOW THRU	1" [25mm] MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

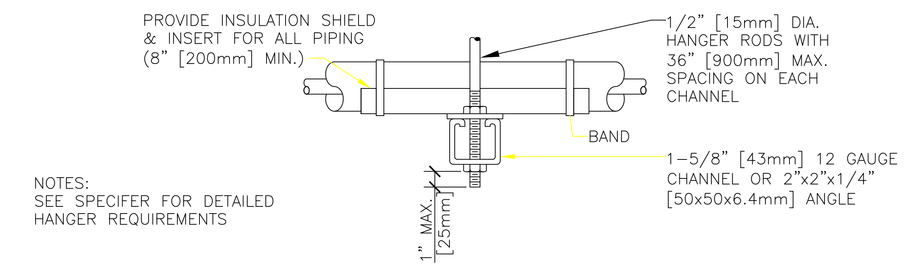
2 AIR HANDLING UNIT DRAIN TRAP DETAIL

NTS



ADJUSTABLE CLEVIS HANGER TYPE 1 – SEE SPECIFICATIONS

ADJUSTABLE CLEVIS HANGER TYPE 43 – SEE SPECIFICATIONS



NOTES:
SEE SPECIFER FOR DETAILED HANGER REQUIREMENTS

SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. [453KG] UNIFORM LOAD

MAXIMUM PIPE/TUBING SUPPORT SPACING																	
NOM. SIZE	IN. [mm]	THRU 3/4 THRU [20]	1 [25]	1 1/4 [32]	1 1/2 [40]	2 [50]	2 1/2 [65]	3 [75]	4 [100]	5 [125]	6 [150]	8 [200]	10 [250]	12 [300]	14 [350]	16 [400]	18 [450]	20 [500]	24 [600]
PIPE	FT. [mm]	7 [2100]	7 [2100]	7 [2100]	9 [2700]	10 [3000]	11 [3400]	12 [3700]	14 [4100]	16 [4900]	17 [5200]	19 [5800]	22 [6700]	23 [7000]	25 [7600]	27 [8200]	28 [8500]	30 [9100]	32 [9600]
TUBING	FT. [mm]	5 FT [1500]	6 [1800]	7 [2100]	8 [2400]	8 [2400]	9 [2700]	10 [3000]	12 [3700]	13 [4000]	14 [4100]	16 [4900]	– –	– –	– –	– –	– –	– –	– –
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.																			

3 PIPE HANGERS

NTS

Unitary Computer Room Unit

DESIGNATION	REFERENCE PRODUCT	SERVES	AIRFLOW RATE @.2" ESP CFM	ELEC. DATA (SERVICE,SINGLE POINT) VOLTS	PHASE	AMPS	MFCB	Capacity@ 75° DB, 61°F WB return air, kBTUH	CHW Flow Rate	EWT/ELT	REMARKS :
Liebert-3	Liebert MODEL "CW051"	OIT Server Room 201B-52	9300	460	3	46.7	60	236.7	51.2 GPM	45/55	Options: Upflow, 2-way standard pressure CHW valve, centrifugal fan, smoke detector, non-locking type disconnect, spare set of return air filters, Electric reheat, infrared humidifier, IntelliSlot Unity card, remote temperature and humidity sensors, liquitect sensor, rear return air
Liebert-2	Replace Existing MODEL UH075A-CAM	OIT Server Room 201B-52		460	3		60	10 Ton nominal			Options: Upflow, dX, centrifugal fan, smoke detector, non-locking type disconnect, spare set of return air filters, Electric reheat, infrared humidifier, IntelliSlot Unity card, remote temperature and humidity sensors, liquitect sensor
Liebert-1	Replace Existing MODEL U147C-AAM	OIT Server Room 201B-52		460	3		60	10 ton nominal			Options: Upflow, 2-way standard pressure CHW valve, centrifugal fan, smoke detector, non-locking type disconnect, spare set of return air filters, Electric reheat, infrared humidifier, IntelliSlot Unity card, remote temperature and humidity sensors, liquitect sensor

REVISIONS:	DATE

Dept. of Veterans Affairs
Medical Center
1011 Honor Heights Drive
Muskogee, OK. 74401

APPROVED: Medical Center Director
APPROVED: Assoc. Medical Center Director
APPROVED: Chief of Staff
APPROVED: Chief, Engineering Service
APPROVED: Chief, OIT
APPROVED: Safety Manager
APPROVED: Industrial Hygenist
APPROVED: Energy Manager
APPROVED: Infection Control Nurse
APPROVED: President AFGE 2250
APPROVED:
APPROVED:

DRAWING TITLE: Details and Schedule
PROJECT TITLE: Bldg. 52 OIT Server Room Backup Cooling
DATE: 31JUL2015
SCALE: NTS
PROJECT NO.: 623-16-108
CONTRACT NO.:
DESIGNED BY:
DRAWN BY: B. Short
CHECKED BY:
DRAWING NO.: M-2
DWG. 3 OF 3
BUILDING NO.: 52
AUTOCAD FILE NAME: 62316108 M-2
LOCATION: V.A.M.C MUSKOGEE, OK.

DEPARTMENT OF VETERANS AFFAIRS