LMHDT Suggested Specification & Configuration

LMHDT UNIT

Furnish and install Krueger model LMHDT dual duct (variable or constant air volume) terminal units of the sizes shown in the plans.

Terminals shall be certified by use of the AHRI Standard 880 Certification Program and carry the AHRI seal.

Unit casing shall be constructed of not less that 22 gage galvanized steel and shall include an integral temperature mixing chamber and mixing baffle for a 20:1 mixing ratio of hot and cold airstreams. All inlet collars shall accommodate standard spiral and flex duct sizes. Unit discharge shall be flanged for field attachment to downstream ductwork.

- **(Optional)** 20 Gage Galvanized Steel Unit Construction: Unit casing shall be constructed of not less than 20 gage galvanized steel. All inlet collars shall accommodate standard spiral and flex duct sizes. Unit discharge shall be slip and drive for field attachment to downstream ductwork.

Unit labels shall be adhered to each unit including model, size, airflow (CFM), balancing chart, and tagging data.

Control air damper assemblies shall be constructed of heavy gage steel with solid shafts rotating in self lubricating Delrin® bearings. Damper shafts shall be marked on the end to indicate damper position. Damper blades shall incorporate a flexible gasket for tight airflow shutoff and operate over a full 90° rotation.

LMHDT unit shall be equipped with a factory installed airflow sensing device. Provide a K4 LineaCross, four quadrant, multi-point center averaging sensor with an amplified signal.

- **(Optional)** Provide a linear, multi-point, velocity averaging sensor with an amplified signal.

Provide balancing taps to allow for easy airflow verification.

The radiated and discharge attenuation factors for the specified NC levels shall be based on either room absorption, plus an environmental adjustment factor or the attenuation factors from AHRI Standard 885-08 Appendix E, which includes room absorption, environmental adjustment factor, duct insertion, end reflection and duct branching.

Access panel shall be the entire bottom casing panel for viewing of damper components.

CASING LINERS

Unit casing shall be lined with 1/2" thick, 1 1/2 lb. dual density fiberglass insulation that meets UL 181 and NFPA 90A. Insulation shall be attached to the unit casing by adhesive and weld pins.

- **(Optional)** 1" Thick Insulation: Unit casing shall be lined with 1" thick, 1 1/2 lb. dual density fiberglass insulation that meets UL 181 and NFPA 90A. Insulation shall be attached to the unit casing by adhesive and weld pins.
- **(Optional)** Cellular Insulation: Unit casing shall be lined with glued and riveted 1/2" or 1" thick, 1 1/2 lb. density, smooth surface, polyolefin, closed-cell foam insulation for fiber free application. Cellular insulation meets UL 181 and NFPA 90A and does not support mold or bacteria growth. Insulation shall be attached to the unit casing by adhesive and weld pins.
- **(Optional)** Steriliner Insulation: Unit casing shall be lined with 13/16" thick, 4 lb. density, rigid board insulation with nylon reinforced foil covering insulation fibers that meets UL 181 and NFPA 90A. Liner shall be attached to unit casing by adhesive and weld pins with full-seam-length Z-strips to enclose and seal the insulation cut edges.
- **(Optional)** Sterilwall Insulation: Unit casing shall be lined with 1/2" or 1" thick, 1 1/2 lb. dual density fiberglass insulation that meets UL 181 and NFPA 90A, enclosed between the unit casing and a non-perforated internal sheet metal cover extending over the fiberglass insulation, as well as covering the liner cut edges.
- **(Optional)** Perforated Doublewall Insulation: Unit casing shall be lined with 1/2" or 1" thick, 1 1/2 lb. dual density fiberglass insulation, (additional options: 1/2" or 1" thick, 1 1/2 lb. density foil reinforced fiberglass insulation or 13/16" thick, 4 lb. density, rigid board insulation with fiber reinforced foil covering) that meets UL 181 and NFPA 90A, enclosed between the unit casing and a perforated internal sheet metal cover extending over the fiberglass insulation, as well as covering the liner cut edges.
- **(Optional)** No Liner: Unit casing shall be equipped with no internal insulation liner.

LMHDT Suggested Specification & Configuration

1. SERIES: (XXXXX)
LMHDT - Dual Duct Terminal Unit with Attenuator and Mixing Baffle

2. SENSOR TYPE: (XX)
1A - Linear Averaging, Hot Inlet and Discharge
1B - Linear Averaging, Cold Inlet and Discharge
1C - Linear Averaging, Cold Inlet and Hot Inlet
1D - Linear Averaging, Cold Inlet, Hot Inlet and Discharge
3A - K4 LineaCross, Hot Inlet and Discharge
3B - K4 LineaCross, Cold Inlet and Discharge
3C - K4 LineaCross, Cold Inlet and Hot Inlet
3D - K4 LineaCross, Cold Inlet, Hot Inlet and Discharge

3. LINER TYPE: (X)
0 - Standard
1 - 1" Liner
2 - Steriliner
3 - No Liner
4 - Sterilwall with 1/2" Dual Density
6 - 1/2" Foil Encapsulated
8 - Sterilwall with 1" Dual Density
9 - 1" Foil Encapsulated
A - Perforated Doublewall with 1/2" Dual Density
B - Perforated Doublewall with 1" Dual Density
C - Perforated Doublewall with 1/2" Foil Encapsulated
D - Perforated Doublewall with 1" Foil Encapsulated
E - Perforated Doublewall with Steriliner
F - 1/2" Cellular
H - 1" Cellular

4. UNIT CASING CONTROLS: (XX)
Cold Inlet On:
0L - Left-hand Side, 22 Gage
2L - Left-hand Side, 20 Gage
0R - Right-hand Side, 22 Gage
2R - Right-hand Side, 20 Gage

5. INLET CODE: (XX) (XX)
04 - 4"
05 - 5"
06 - 6"
07 - 7"
08 - 8"
09 - 9"
10 - 10"
12 - 12"
14 - 14"
16 - 16"

6. CONTROL TYPE: (X)
D - Digital Controls *
A - Analog Controls
P - Pneumatic Controls

7. UNIT ACCESSORIES: (X) (X) (X)
0 - None
S - Hanger Brackets
D - Disconnect for Controls
G - 24-24 VAC Transformer
H - 120-24 VAC Transformer
J - 208-24 VAC Transformer
K - 240-24 VAC Transformer
L - 277-24 VAC Transformer
Z - No Discharge Duct Assembly

** Digital controls are supplied by others; mounted by Krueger.*

SAMPLE CONFIGURATION: LMHDT - 1A - 6 - 0R - 06 - 06 - D - S - H