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Specializing in Acoustics, Noise & Vibration Control

eNoise Control Model RSB-20 Removable Sound Blanket Specification

Part 1: General

1.1 Work Included

The work consists of furnishing all labor, materials, accessories and equipment necessary to cover all areas shown on the drawings and specified herein with Unger Technologies Baffles.

1.2 Delivery and Storage

Store this product in unopened cartons in a clean, cool, dry interior space. Cartons and product must be protected against marring, water, dirt or damage during delivery and storage.

Part 2: Product

2.1 Product and Manufacturer

eNoise Control RSB-20 Removable Sound Blanket exclusively manufactured by eNoise Control, 297 North 9th Street, Noblesville, IN 46060
Phone: (317).774.1900
Website: www.enoisecontrol.com
Email: info@enoisecontrol.com

2.1.1 Blanket Construction

Blanket construction shall be a double sewn lock stitch with a minimum of 7 stitches per inch. All raw jacket edges will have a tri-fold PTFE Teflon Fiberglass cloth binding. No raw cut jacket edge will be exposed. Stitching will be done with Teflon coated fiberglass thread.

2.1.2 Blanket Overlap

Blanket will overlap mating flanges as well as existing insulation with a minimum of 2" overlap. Where blanket cannot overlap existing oversized insulation, blanket will butt up to existing insulation with a friction closing seam. Open gaps are not acceptable. Blanket diameters which are 2" larger than existing insulation must be capped to eliminate open air void.

2.1.3 Leak Accommodations

To accommodate a leak and detect its origin, blankets will have a low point stainless steel drain grommet or the design will incorporate a mating seam at the low point.

2.1.4 Blanket Insulation Design

When designing blanket insulation for large equipment where a multi-piece construction is necessary, the total number of pieces will be minimized. Any one piece will not exceed 50 lbs. in weight.

2.1.5 ID Plate

For easy identification and location, a stainless steel or aluminum name plate tag is riveted to each blanket piece. 1/8" Embossed lettering shows location, description, size, pressure rating and tag number sequence.

2.1.6 Quilting Pins

To enhance blanket quality and to maintain uniform thickness, stainless steel tufts or pins will be placed at random locations no greater than 18" apart. This will prevent shifting of the insulation. Stainless steel speed washers will secure the quilting pin stem in place.

2.1.7 Minimized Air Void

Equipment and equipment heads are typically a multi-piece design and are installed in tag number sequence. Heat exchanger heads, large vessel flanges and pump housings will be designed in two half sections. Blanket design will conform to the equipment with minimized air void. All valve covers will be a two piece design with a separate body and bonnet.

2.1.8 Standard Fasteners

Blanket insulation will accommodate the following fastening option. A 20 gauge stainless steel wire will be doubled up and twisted in a spiral fashion with a minimum of 5 twists per inch. Wiretwist length will be 16" or longer. The Wiretwist will be secured to the lacing pin at the pin stem. Lacing pin stems will be 14 gauge. Wiretwists will be spaced 6" O.C. along closing seams with matching lacing pins to secure to.

2.1.9 Applications

Valves, Flanges, Pumps, Instrumentation, Flange Fittings, Equipment Heads, All Purpose

2.1.10 Fastening Options

1. Lacing Pins

Stainless Steel Type 304 lacing pins. These pins can either be 12 or 14 gauge. Location of pins on the blanket edge and 8" or less from centerline to centerline.

2. Stainless Steel "D" Ring Strap with Velcro Tab

A three layer fabric strap is double sewn. One strap is a 16" long pulldown strap, the other is a 6" long stationary strap. Both straps are stitched to the outer jacketing of the blanket. The stationary strap includes a 304 stainless steel "D" Ring measuring 1.125" to 1.25" in width. This is placed 1/2" from the closing seam edge. The pulldown strap is placed 3" in from the closing seam edge. Both matching straps are spaced along the closing seam edge no greater than 8" apart. The pulldown strap includes hook-and-loop velcro, measuring at least 1" wide by 6" long, and is perimeter stitched to the strap surface. All closing seams have a 1.5" extended fabric flap, which is placed along the stationary strap side of the closing seam.

3. Velcro Flaps

Velcro hook & loop fastener sewn to an outer jacketing flap. A 2" wide hook will be stitched to the blanket and a 2" wide loop will be stitched to an extended outer jacketing flap. Velcro is rated for temperatures up to 350F.

2.1.11 Assembly Drawing Requirements

Each Unger Technologies Removable Sound Blanket insulation project will include an instruction package shipped with the blanket material. This package will include Assembly Drawings identifying piece location, a Material List of all pieces and Instructions for Installation on how blanket insulation will be installed.

2.1.12 Project Qualifications

All items to be insulated will require a field takeoff prior to bid submittal, and must be reviewed for proper cost estimation. Upon receipt of project contract, each and every item must be accurately measured for retrofitting to existing field conditions and tagged with an aluminum or stainless steel identification tag showing an item number for installation reference. At the time of installation, blanket tag and must match to existing tagging on fitting. No standard blanket designs will be accepted. This will assure good thermal performance.