



Allison Transmission Machinery and Equipment Specification Document

Mist Collect Stand Alone

Document ID: **SPEC-AT-MIST COLLECT ALONE**

Revision History

Revision Date	Version No.	Revision Description	Paragraph Affected	Revised By
6-25-2008	0.0.1	Initial Release	All	C. Tyra
6-17-2009	0.0.2	Added verbiage "All mist collectors shall be floor mounted."		C. Tyra

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Specification

1 Introduction

This document contains the site specific requirements for Allison Transmission.

1.0 Scope of Document

1.1 Affected Equipment

2 Applicable Documents

2.0 Order of Precedence

All applicable laws and regulations are in effect unless a specific exemption is obtained from the appropriate governmental agency and Allison Transmission, Inc. Order of precedence shall be the strictest of all requirements unless stated otherwise in this document by call out.

2.1 Industry Standards

- NFPA70 y2008 “National Electrical Code”
- NFPA79 y2007 “Electrical Standard for Industrial Machinery”

2.2 Allison Transmission Documents

- SPEC-AT-MIST COLLECT MULTI – Mist Collect Multi-Connect System Specification

2.3 Other Documents

3 Requirements

Mist collection shall be required on all wet machining and process support equipment. This includes washers that have a vent stack or open sides or are flow thru style or that operate at or above 100° Fahrenheit.

Smoke and or dust collection shall be required on all dry machining and process support equipment that will generate smoke or dust.

Written deviation requests will be considered under the following circumstances:

- 1. If a piece of machinery or equipment does not create Operator exposure to metal working fluid aerosol, dust or smoke particles that exceeds 0.5mg/m³ as an 8 hour TWA, a collection system may not be required.**
- 2. Collection systems may not be required (or allowed) on Heat Treat Furnances.**

Submitting a deviation request does not equate to approval of the request. Any request for deviation must be approved by both the Allison Project Engineer and an Allison Health and Safety Representative.

Where required, the collector unit shall be capable of all machine coolant mist applications such as oil, mineral seal, water soluble, semi-synthetic, and synthetic coolants.

All ductwork systems are required to be schedule 40 PVC pipe. All ductwork systems shall be solid from the equipment to the collector. No flexible duct shall be allowed.

All collectors shall be Donaldson Torit Model WSO with first stage pre-filter appropriate for the application, second stage filters appropriate for the application, and third stage filters of the DOP type.

The machine tool or equipment supplier shall contact Donaldson Company Industrial Air Filtration applications engineering for proper sizing of the unit; duct size and best source capture point location.

All mist collectors shall be floor mounted.

All mist collectors shall be furnished with a P-Trap installed in the drain of the collector.

Mist collectors shall have an electrical disconnect mounted on them.

In Place of Magna Helic Gages, all collectors shall have connections for a manometer for measuring the pressure drop across the filters.

APPENDICES

4 Appendix A

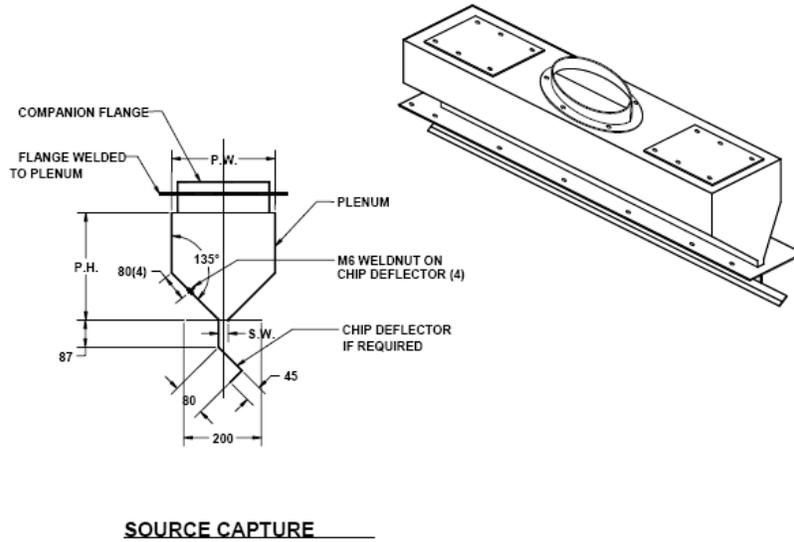


Figure 1: Linear Slot Capture and Preferred Source Capture Connection

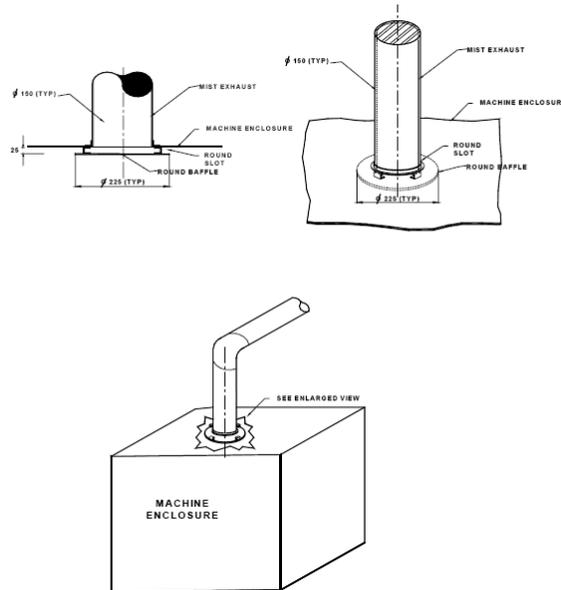


Figure 2: Baffled Round Source Capture and Secondary Style of Source Capture