

PURITAN COOLANT/OIL RECOVERY SYSTEM

High Speed Disc Centrifuge System with Pasteurizer

Removes Tramp Oil and Solids and Provides Biological Control

The Puritan Recovery System removes tramp oil, fine solids and controls bacteria in machine tool coolants. The system employs the Integrated Fluid Recovery (IFR) approach of high speed liquid/liquid/solid centrifugation working in concert with other components, such as a precise feed pump and a pasteurizer. The IFR system removes solids, tramp oil and odors and controls biological activity. The Puritan provides total fluid recovery.

The heart of the Puritan System is the Mitsubishi OP-12, high speed disc solid bowl centrifuge. The processing capacity is 60 gallons/hour (up to 90 gallons/hour on cutting oils).

The Puritan is ideal for batch recovery of machine tool fluid from drums or totes.

The Puritan is backed by Sanborn Technologies' Process Guarantee.



PURITAN RECOVERY SYSTEM

FEATURES

Extremely High Quality Purification

- Removes metallic and non-metallic fines down to 1 micron
- Separates tramp oils down to one quarter of one percent (.0025)
- Reduces coolant waste by removing the entrained coolant in the tramp oil and rag layer

Versatile Plantwide Application

- Single system can serve multiple coolants in multiple locations
- Can process a wide array of coolants and oils

Simple and Efficient Operation

- Efficient, single-pass processing yields completely purified fluid
- Systems are delivered prepiped, prewired and pretested

BENEFITS

Dramatic Direct Cost Savings

- Reduces fluid waste disposal costs up to 99%
- Reduces new fluid purchases
- Reduces use of hazardous chemical biocides

Improved Quality and Productivity

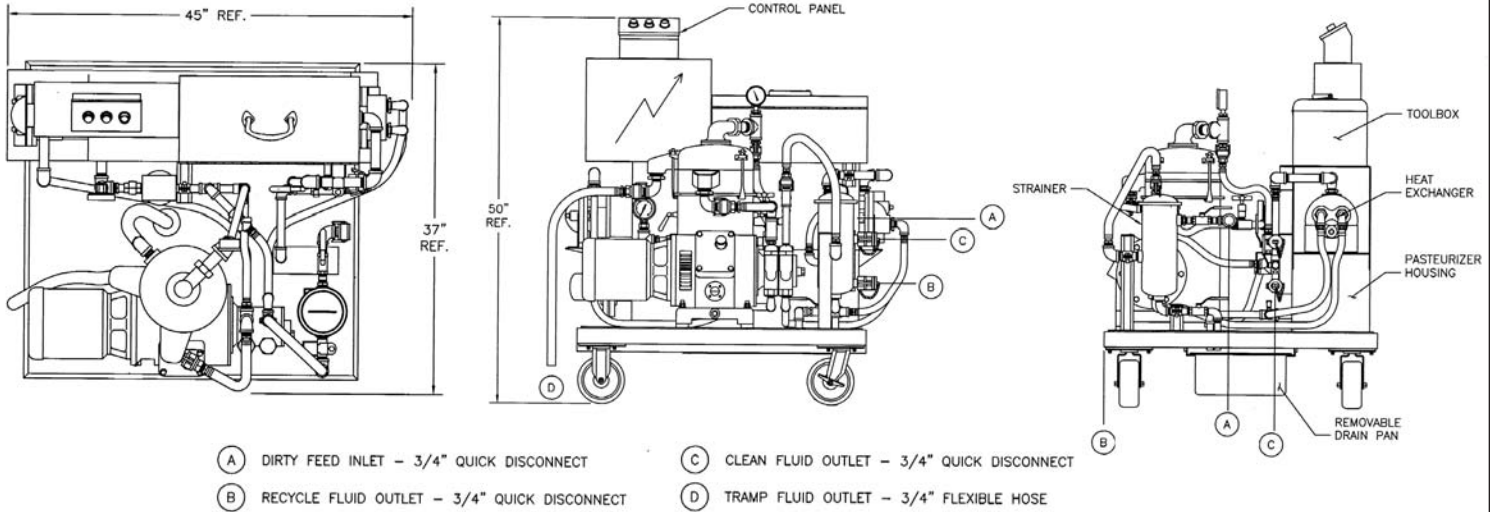
- Cuts machine downtime for sump cleanouts
- Improves tool efficiency and product quality
- Reduces worker dermatitis and exposure to toxic biocides

Important Environmental Benefits

- Reduces liability for manifesting and storing dirty fluid
- Meets tightening discharge standards for oily wastes



PURITAN SYSTEMS



GENERAL SPECIFICATIONS

DIMENSIONS (L x W x H) 45" X 37" X 50"

MACHINE WEIGHT 500 lbs.

FLUID INPUT:

COOLANT 60 GPH

OIL 90 GPH

UTILITY REQUIREMENTS ELECTRICAL - 460 VAC

3 PH, 60 HZ, 30 AMP

CONTROL AND

INDICATING PANEL NEMA 12 ENCLOSURE

PASTERIZATION OF COOLANT

Flash Pasteurization of coolant is a safe, economical, non-chemical method of controlling bacteria, mold, yeast and fungi that cause coolant rancidity. The technology has been used successfully in hundreds of customer locations for decades. The thermostatically controlled low-watt density heater also provides:

- Improved separation of solids and tramp oil.
- Improved cleanliness inside the centrifuge for reduced maintenance.
- Removal of any dissolved gases such as H₂S.
- Reduced disposal of recoverable coolant entrained in the rag layer (coolant/tramp oil interface).

An optional heat exchanger in the system allows for heat transfer from the discharged clean fluid to incoming dirty fluid, minimizing energy usage and lowering the fluid temperature to reduce biological regrowth and to keep the sump temperature from increasing.



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