

# Chapter 11: Dry Cleaning

	<b>Chapter 11</b>
	Dry Cleaning

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**What is Dry Cleaning?**

A process for cleaning fabrics in which the articles are washed in a non-aqueous solvent and then dried in a heated air stream

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**Dry Cleaning Steps**

- Washing
- Extraction
- Drying

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### Dry Cleaning Solvents

- Perchloroethylene
- Petroleum solvents

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### Industry Classes

- Commercial
- Industrial
- Coin operated

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### Equipment Types

- Transfer
- Dry-to-Dry

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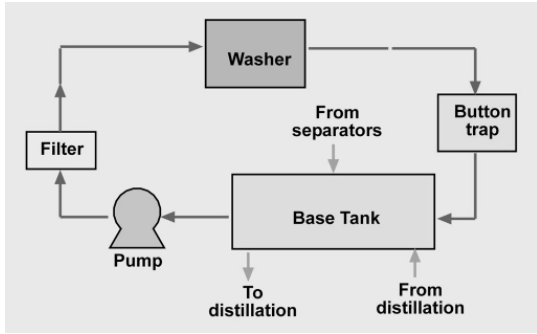
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# Chapter 11: Dry Cleaning

## Washing Process



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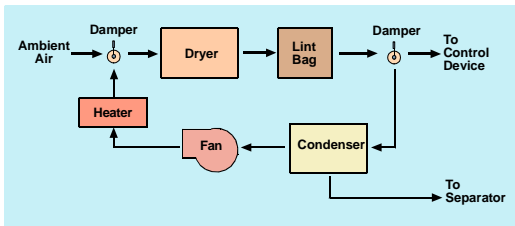
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## Drying Process



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## Solvent Filtering

- Powder filters
- Cartridge filters

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## Chapter 11: Dry Cleaning

### Solvent Distillation

- Perchloroethylene: 250°F at 1 atm
- Petroleum: 225-235°F at -22 to -27 in. Hg
- Still boil down

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### Emission Control Techniques

- Fugitive emission control
- Carbon adsorption
- Condensation
- Azeotropic vapor recovery

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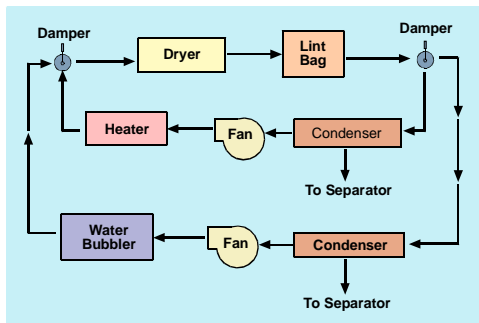
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### Azeotropic Drying Process



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Emission Regulation

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Process Inspection

- Review records maintained by source
  - Solvent purchases
  - Internal inspection audits
  - Monitoring checks
  - Maintenance records
- Check for vapor leaks
- Check for liquid leaks

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