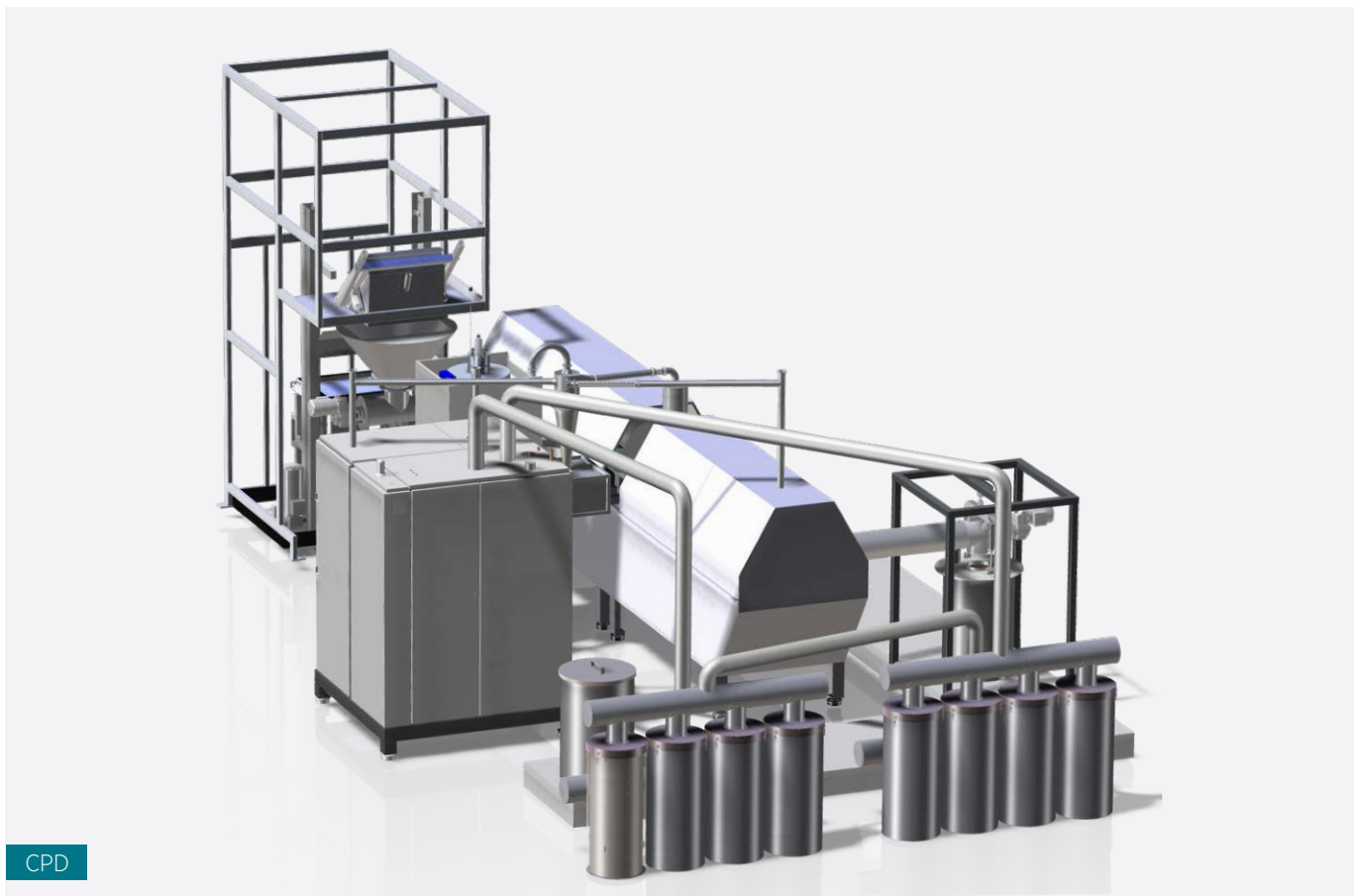




CPD – CONTINUOUS PROCESS DISTILLER

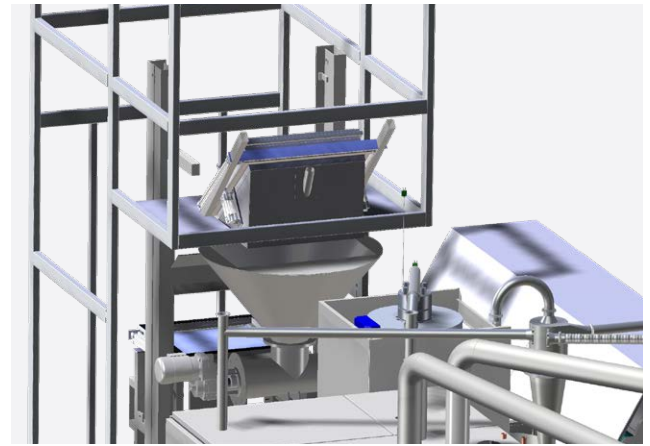
24/7 safe Mercury Recovery Processing



GENERAL INTRODUCTION

The Continuous Process Distiller is designed for processing all kinds of mercury contaminated waste. The process is fully automatic which makes it extremely safe by minimizing the risk of human error. All essential functional parameters such as pressure, temperature and process time are adjusted to conform to the waste treated. This enables optimum efficiency.

The CPD is designed for 24/7 operation and is particularly suitable when having large volumes of the same material to process.



TECHNICAL SPECIFICATIONS CONTINUOUS PROCESS DISTILLER (CPD)

| | | | |
|-------------------------------|----------------------------------|--|--|
| Capacity: | 600-1500 kg/24h input | Operational temp range: | +10 C° - +35 C° |
| Electrical connection: | 400V, 50Hz, max. 55 kW | Hg emission into the atmosphere:* | |
| Compressed air: | Max 500 l/minute | Inside the room: | Max 0,025 mg/m ³ |
| Oxygen: | Approx. 1,5 m ³ /hour | Hg emission in the exhaust:** | |
| Dimensions: | | Exhaust: | Max 0.010mg/m ³ |
| Length: | 11 000 mm | Exhaust flow: | Max 500m ³ /h |
| Width: | 6 500 mm | Hg content after distillation*** | |
| Height: | 3 800 mm | Hg: | Max 0.1 mg/kg (US TCLP) Max 2 ppm (ICP) |

* The room has to be ventilated by fresh air at least 3 exchanges/h. The Hg concentration is mainly depending on how waste is handled in the room and how maintenance work on the equipment is executed. The CFL processor itself generates only negligible amounts of mercury concentration in the room during operation.

** The process air is discharged through two series connected carbon filters. To be able to meet the exhaust criteria it is important that the saturation of the carbon is checked regularly and replaced if increased Hg levels are detected.

*** The conditions for that the above presented Hg values are kept within the guaranteed max values, are that the fluorescent tubes are dry and have been stored indoors prior to the process and that the MRT instructions for the operation of the plant always are followed.

PURCHASE SPECIFICATIONS AND ADDITIONABLE OPTIONS

The purchase will include the following components:

- 1 pc 200 l automatic turning device
- 1 pc adaptor for 30 l distiller barrel
- 1 pc adaptor for 60 l distiller barrel
- 1 pc feeding auger
- 1 pc heat chamber feeding auger
- 1 pc heat chamber feeding auger (heated)
- 1 pc outlet auger (cooled)
- 1 pc Automatic discharge barrel system
- 1 pc combustion chamber
- 1 pc condenser
- 1 pc fan
- 3 pc carbon filters
- 1 pc electrical cabinet
- 1 pc PLC
- 1 pc cooling unit
- 1 pc plc access by MRT
- MRT Premium™ Connect

Options:

- Condenser flushing system
- Condenser drainage pump
- Nitrogen supply
- Modified Layout

EEC Conformity:

- The equipment is manufactured in accordance with:
- EEC Directive on Machinery (2006/42/EG)
- EEC Directive on Low Voltage (2006/95/EG)
- EEC Directive on Electromagnetic Compatibility, EMC (2004/108/EG)

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