

BPD – BATCH PROCESS DISTILLER

Fully automatic and safe Mercury Recovery Technology



GENERAL INTRODUCTION

The Batch Distillers are designed for processing all kinds of lamp waste, electrical devices, mercury button cell batteries, thermometers in addition to heavy mercury contaminated wastes with a higher content of organic substances such as mercury zinc batteries, dental amalgam, medical wastes, sludge and wastes from the military and chemical industry.

The process is fully automatic which makes it extremely safe, and removes 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.

WORLD NEWS

The new BPD 1000, the largest batch process distiller available, will allow users to increase batch size significantly. The increase in efficiency will have positive effect on profitability.



BPD 100

TECHNICAL SPECIFICATIONS BATCH PROCESS DISTILLERS

Model:	BPD 100	BPD 2x100	BPD 200	BPD 2x200	BPD 1000
Capacity:	4 x 25 l/batch	2 x 4 x 25 l/batch	4 x 50 l/batch	2 x 4 x 50 l/batch	4x250 l/batch
Process time, full batch:	10 – 24 hrs	10 – 24 hrs	12 – 32 hrs	12 – 32 hrs	18 – 72 hrs
Electrical connection:	400V, 50Hz, 5-core cable, max. 35 kW, 100 A	400V, 50Hz, 5-core cable, max. 50 kW, 125 A	400V, 50Hz, 5-core cable, max. 40 kW, 125 A	400V, 50Hz, 5-core cable, max. 75 kW, 125 A	400V, 50Hz, 5-core cable, max. 40 kW, 125 A
Compressed air:	Max 250 m ³ /batch	Max 250 m ³ /batch	Max 300 m ³ /batch	Max 500 m ³ /batch	Max 300 m ³ /batch
Oxygen:	10 – 15 m ³ /batch	15 – 20 m ³ /batch	12 – 15 m ³ /batch	20 – 30 m ³ /batch	60 – 75 m ³ /batch
Dimensions:					
Length:	3 000 mm	4 200 mm	3 800 mm	4 500 mm	3 800 mm
Width:	1 600 mm	2 500 mm	2 000 mm	3 000 mm	2 000 mm
Height:	3 800 mm	3 800 mm	3 800 mm	3 800 mm	3 800 mm
Operational temp range:	+10 C° – +35 C°	+10 C° – +35 C°	+10 C° – +35 C°	+10 C° – +35 C°	+10 C° – +35 C°
Hg content after distillation:*	Max. 0.1 mg/l	Max. 0.1 mg/l	Max. 0.1 mg/l	Max. 0.1 mg/l	Max. 0.1 mg/l

*Hg content values have to be confirmed by using Leachate procedure in accordance with SS-EN 12457-2.

PURCHASE SPECIFICATIONS AND ADDITIONABLE OPTIONS

The purchase will include the following components:

- Dome
- Combustion chamber
- Condenser
- Vacuum system
- Exhaust fan
- Cooling fan
- Carbon filters
- Control system
- Crane pillar and telpher
- Cooling unit
- Distiller barrels
- MRT Premium™ Connect

Options:

- UPS unit
- Extra distiller barrels
- Transformer for alternative electrical connection

EEC Conformity:

The equipment is manufactured in accordance with:

- EEC Directive on Machinery (2006/42/EG)
- EEC Directive on Low Voltage (2014/35/EG)
- EEC Directive on Electromagnetic Compatibility, EMC (2014/30/EG)

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