



# LP HVF – LAMP PROCESSOR

Cleaner fractions and better business

WORLD NEWS!



LP HVF 200



## GENERAL INTRODUCTION

MRT primary focus has always been to prevent Mercury from entering into the environment when recycling Mercury containing products/substances. Still maintaining the highest level of safety the next generation of MRT lamp processors focusses on generating even more value through better and more recyclable fractions. In the new LP HVF series the e-base and end cap fractions are further processed and refined in order to sort out valuable material. As an added bonus an option is to adapt the Lamp Processor to also treat LED lamps.



### TECHNICAL SPECIFICATIONS LP HVF SERIES

| Model:                                     | LP HVF 200                                   | LP HVF 400                                 | LP HVF 600                                 |
|--|--|--|--|
| <b>Capacity:*</b>                          | 200 kg/hour input                            | 400 kg/hour input                          | 600 kg/hour input                          |
| <b>Electrical connection:</b>              | 400V, 50Hz<br>(60 Hz option)<br>Max. 35 kW   | 400V, 50Hz<br>(60 Hz option)<br>Max. 35 kW | 400V, 50Hz<br>(60 Hz option)<br>Max. 45 kW |
| <b>Compressed air:</b>                     | 700 l/min                                    | 700 l/min                                  | 900 l/min                                  |
| <b>Dimensions:</b>                         |  |  |  |
| Length:                                    | 26 000 mm                                    | 30 000 mm                                  | 25 000 mm                                  |
| Width:                                     | 7 500 mm                                     | 8 000 mm                                   | 11 000 mm                                  |
| Height:                                    | 5 200 mm                                     | 5 200 mm                                   | 5200 mm                                    |
| <b>Operational temp range:</b>             | +10 C° - +35 C°                              | +10 C° - +35 C°                            | +10 C° - +35 C°                            |
| <b>Hg emission into the atmosphere:**</b>  |  |  |  |
| Working area:                              | Max 0,020 mg/m <sup>3</sup>                  | Max 0,020 mg/m <sup>3</sup>                | Max 0,020 mg/m <sup>3</sup>                |
| Exhaust:                                   | Max 0,020 mg/m <sup>3</sup>                  | Max 0,020 mg/m <sup>3</sup>                | Max 0,020 mg/m <sup>3</sup>                |
| <b>Exhaust:***</b>                         |  |  |  |
| Exhaust flow:                              | Max 2000 m <sup>3</sup> /h                   | Max 2000 m <sup>3</sup> /h                 | Max 2000 m <sup>3</sup> /h                 |
| Exhaust duct:                              | Ø 200 mm                                     | Ø 200 mm                                   | Ø 200 mm                                   |
| <b>Residual values Glass fraction:****</b> | Max. 0,1 mg/l (leachate)                     | Max. 0,1 mg/l (leachate)                   | Max. 0,1 mg/l (leachate)                   |
| <b>Outputs, all models:</b>                | Glass, metal, plastic and fluorescent powder |  |  |

\* The material to be processed should be dry, augeable, without dirt and free from all kind of packaging. And of such kind and condition as is intended and expected for the application of the equipment. For limitations, health and safety and environmental protection provisions, see operations manual.

\*\* The room has to be ventilated by fresh air not less than 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 machine itself generates only negligible amounts of mercury concentration in the room during operation.

\*\*\* The process air is discharged through series connected carbon filters.

\*\*\*\* Hg content values have to be confirmed by using leachate procedure in accordance with SS-EN12457-2. 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:

- Bin turning device (CFL) for 140L wheelie bins
- Horizontal TL feeding table for lamps up to 2400mm
- Crush auger
- Vibration feeder
- Sieve
- E-base and End caps Shredder
- Transport Auger
- Hopper
- Electrostatic Separator
- Transport auger
- Tumbler
- Fan
- Carbon filters
- Particle (cartridge) filter
- Powder cyclone
- MRT Premium™ Connect

#### Options:

- Double drum sieve
- Powder collection in plastic bags
- Powder collection in 30L distiller barrel
- Mechanized feeding of TIs up to 2400mm
- 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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