



LP 200 – LAMP PROCESSOR

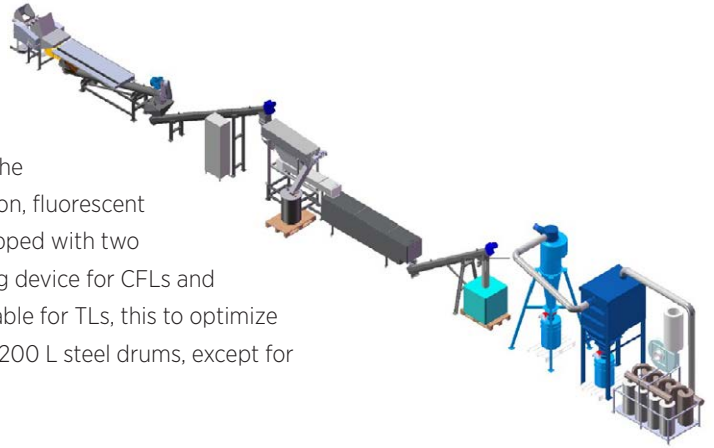
Profitable Recycling of Lamps and Tubes



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GENERAL INTRODUCTION

The MRT Lamp Processor is designed for processing Fluorescent Lamps and tubes of different shapes and types. The machine crushes and separates the material into a glass fraction, fluorescent powder, e-base/socket/end-cap fraction. The machine is equipped with two manual feeding stations, one manual 140 L wheelie-bin turning device for CFLs and pre crushed lamps as well as one manual horizontal feeding table for TLs, this to optimize the output qualities. All material fractions are discharged into 200 L steel drums, except for glass which is discharged in a 1 m³ big-bag.



TECHNICAL SPECIFICATIONS LAMP PROCESSOR (LP 200)

Capacity:

Up to 200 kg/hour input
The material to be processed should be dry, augerable, 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.

Media:

Electrical connection:..... 400 V, 50 Hz (60 Hz option), max. 20 kW
Supply pressure:6 bar dry oil free (dew point 3°C.)
Connection pipe 0.5 inch, thread.

Dimensions:

Length:.....26 000 mm
Width:.....4 100 mm
Height:.....2 500 mm

Operational temperature range:

.....+10 C° - +35 C°

Outputs:

Glass
E-base/socket/end-caps
Fluorescent powder

Hg emission to the atmosphere:

Working area: max 0.020 mg/m³
Exhaust: max 0.020 mg/m³
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.

Exhaust:

Exhaust flow:max 2000 m³/h
Exhaust duct:.....Ø 2000 mm
The process air is discharged through series connected carbon filters.

Residual values Glass fraction:

Hg:.....max 0.1 mg/l (leachate)
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:

1 pc Manual bin turning device (CFL) for 140L wheelie bins
1 pc Horizontal TL feeding table for lamps up to 2400mm
1 pc Crush auger
1 pc Vibration feeder
1 pc Sieve
2 pc Transport auger
1 pc Tumbler
1 pc Fan
8 pcs Carbon filters
1 pc Particle (cartridge) filter
1 pc Powder cyclone

Options:

All-metal separator
Double drum sieve
Magnetic separation system
Powder collection in plastic bags
Powder collection in 30L distiller barrel
Mechanized feeding of TLs up to 2400mm
Process monitoring (remote)
Remote plc access by MRT
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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