

APPENDIX

Emissions/ Immissions (V00)



Project: EMR Ltd. European Metal Recycling Ltd.
offer number 1220109-3
Power supply 400V; 50Hz (TN-S)
Layout 100 554.07 (2022-05-26)

VHC - MODE

1) Output emissions:

- EP-01
clean gas after combustion system (RTO), (Step 3)

Pipe diameter	~Ø 550 mm (chimney)
Flow rate	10.000 m ³ /h 11,7 m/s
temperature	150°C
Exit point	to atmosphere

- EP-02
air output from the Step 1 process after activated carbon filter

Pipe diameter	~Ø 6 mm hose
Flow rate	- not Continuously
temperature	20-30 °C
Exit point	inside the building

- EP-03
air from dust suction after filter (In front of RTO)
<10 mg/m³

Pipe diameter	~Ø 400 mm
Flow rate	6.000 – 10.000 m ³ /h 13,3 m/s
temperature	20-30 °C
Exit point	inside the building

- EP-04
partly air from foam suction after filter (PUR foam suction circle)
<10 mg/m³

Pipe diameter	~Ø 400 mm
Flow rate	10.000 m ³ /h 11,7 m/s
temperature	20-30 °C
Exit point	to atmosphere

APPENDIX

Emissions/ Immissions (V00)



Project: **EMR Ltd. European Metal Recycling Ltd.**
offer number 1220109-3
Power supply 400V; 50Hz (TN-S)
Layout 100 554.07 (2022-05-26)

- EP-05
partly air from foam suction after filter (Heavy / Light Separation)
<10 mg/m³

Pipe diameter	~Ø 300 mm
Flow rate	6.000 m ³ /h 11,7 m/s
temperature	20-30 °C
Exit point	Inside the building

- EP-06
high-% oxygen from N2 generator

Pipe diameter	~Ø 300 mm
Flow rate	25 m ³ /h 10 m/s
temperature	20 °C
Exit point	to atmosphere outside of building

- EP-07
high-% R12 only in case of a failure at the filling room / Step 1 - room

Pipe diameter	~Ø 250 mm
Flow rate	1000 m ³ /h 5,6 m/s
temperature	20-30 °C
Exit point	to atmosphere outside of building

Please Note:

The existing Dust Filter from the SDA Plant (QZ and Granulator) are not included, because of missing Data's

APPENDIX

Emissions/ Immissions (V00)



Project: **EMR Ltd. European Metal Recycling Ltd.**
offer number 1220109-3
Power supply 400V; 50Hz (TN-S)
Layout 100 554.07 (2022-05-26)

2) Noise Immission:

The Noise Immissions are average emissions, measured on a comparable plant.

AREA	dBA
Step 1	75
Infeed	75
Shredder RS150	86
separation	87 (inside the housing)
NF separation	74
Al/ Cu and plastic output	72
Iron output	76
Pelletizer	75
Combustion system (RTO)	80

URT Umwelt- und Recyclingtechnik GmbH
Karlstadt, 2202-05-25, Bernhard Biener