

Emissions to Air

Emission Points

The table below lists the emissions to air generated by the facility. The site layout plan in Annex B-15b Emissions to Air shows the location of these emission points.

Reference	Source	Content of Emission	Abatement Measures	Vent/Stack Height
PS1	Boiler	CO, NOx	None	3.5m
PS2	Generator	COx, Nox, SOx	None (This is only used during maintenance and in emergencies)	2.3m
PS3a	HVAC Production Process Room	Particulate Matter	HEPA Filters (H13 99.95% efficiency)	N/A
PS3b	HVAC Production Rooms Internal	Particulate Matter	None	N/A
PS3c	HVAC Production Rooms	Particulate Matter	None	N/A
PS3d	HVAC Production Rooms	Particulate Matter	None	N/A
PS3e	HVAC Packaging Rooms	Particulate Matter	None	N/A
PS3f	HVAC dispensing room (internal)	Particulate Matter	G4 filter (90% efficiency). Inside the room there is a laminar flow hood which is filtered with H14 filters.	N/A
PS3g	HVAC Sampling Room (internal)	Particulate Matter	G4 filter (90% efficiency). Inside the room there is a laminar flow hood which is filtered with H14 filters.	N/A
PS3h	Production equipment exhaust			
	Fluid Bed Drier	Particulate Matter	Polyester filter (mesh size 19µm).	1.4m

			50kg maximum mixture of excipient and APIs. If there is a problem with the filters an alarm is given off and shuts down the equipment.	
	Coater	Particulate Matter	2-stage HEPA Filter (H14 99.995% efficiency)	1.08m

Boiler and Generator details

	Boiler	Generator
Rated Thermal Input / Energy Output	0.607 kW	0.94MW/360 kW
Year of Manufacture	2005	2005
Stack Height	3.5 metres	2.3 metres
Fuel Type	LPG	Diesel
Annual Fuel Consumption (2019)	18.84 tonnes	0.40 tonnes

Emissions monitoring frequency

Reference	Description	Pollutants being monitored(limits)	Current Emission Limits	Frequency
PS1	Boiler	CO NOx	50 mg/ m ³ 110 mg/m ³	6 months
PS2	Generator	n/a	n/a	n/a
PS3 a-g	HVAC exhausts	n/a	n/a	n/a

PS3h	Fluid Bed Dryer	n/a	n/a	n/a
	Coater	n/a	n/a	n/a