Labplant UK Ltd
Unit 1B Hunmanby Ind. Estate
Hunmanby, North Yorkshire,
YO14 0PH
Tel: 01723 892262
Email: sales@labplantuk.com

SDS2061 WET SCRUBBER UNIT

This unit provides additional filtering at the exhaust of the spray dyer, for either SD-06 or SS-07.

It is usually factory integrated during the manufacture of the spray dryer, but suitable fittings can be supplied for retro mounting externally of the spray dryer. These can be made to the customer's specifications.

The unit separates by means of two thumb screws, allowing access for cleaning, if the wet scrubber is built into the spray dryer, the top of the unit is fixed, whilst the lower half of the unit can be removed.

Inside the bottom half of the unit, the air inlet from the cyclone is offset so the wet scrubber is centralised in the spray dryer, it is fitted with a flanged hood to prevent water ingression down into the cyclone.

2m lengths of hoses are supplied with jubilee clips. The water outlet of the unit can be recycled into the original solution supply. Alternatively, it can be collected in a separate vessel for use at another time.

OPERATING INSTRUCTIONS

The recommended flow rate of water is 15 - 20 litres per hour at a pressure of 20 -40 PSI. You will need to adjust this to give a suitable spray/drop size. Too high a pressure will result in very small droplets that can be carried up into the exhaust system.

Connect the water supply through the 1/2" clear hose to the top inlet. The Yellow 3/4" outlet hose connects to the bottom outlet.

The filter pads should capture a large amount of the scrubber debris during operation, they can then be removed and washed out after operation.

DO NOT run the spray dryer at temperatures of greater than 150 degrees centigrade with the filter pad fitted, without spraying water onto them first.

Please note, spray drying is an evaporative process (usually with water as the carrier) and produces water vapour.

During the 'wet scrubbing' process there is a considerable reduction in the temperature to the exhaust gas. This results in condensation in the exhaust duct from the 'wet scrubber', provision should be made to effectively collect this condensate.

Labplant UK Ltd
Unit 1B Hunmanby Ind. Estate
Hunmanby, North Yorkshire,
YO14 0PH
Tel: 01723 892262
Email: sales@labplantuk.com

The inlet is at the top.

The outlet is at the bottom.