



# DILUTING SAMPLER

**S**tack sampler is an easy to use device that provides accurate pre-dilution of high temperature gas emissions with nitrogen or zero-air to minimize condensation inside the sample bag. Dilution is achieved inside the 35 mm flue heated probe and can be controlled from 1:1 to 1:305 in 14 steps.

## ► CAPABILITIES

If hot gasses emitted from a stack are directly placed in a PTFE, Tedlar or Nalophan bag they begin to develop condensation. These small droplets of water absorb many of the critical components that contribute to the overall composition and odour of the sample.

The stack diluting sampler eliminates this problem by mixing the stack air with dry clean nitrogen so that the moisture can't condense inside the bag.

The mixing happens inside the probe and since the probe becomes the same temperature as the stack air, there is no chance of the sample developing condensation before being mixed with nitrogen.

## ► OPERATION

1. Attach the sample bag.
2. Open the valve on the nitrogen micro-tank.
3. Select the desired dilution from 1:3 to 1:305.
4. Adjust the flow rate if time sampling is desired.
5. Insert the probe into stack and allow a minute for it to reach the same temperature as the stack gases.
6. Press the trigger and wait for the sample bag to fill up.



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DS5

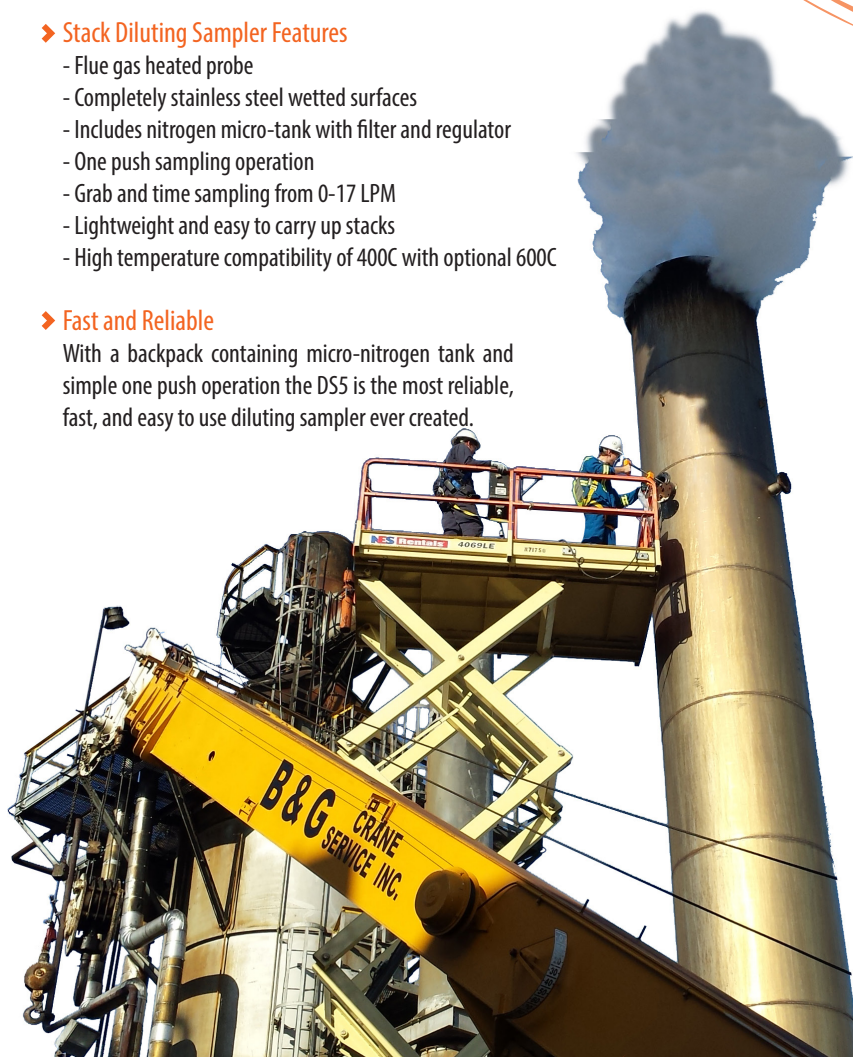
# DILUTING SAMPLER

## Stack Diluting Sampler Features

- Flue gas heated probe
- Completely stainless steel wetted surfaces
- Includes nitrogen micro-tank with filter and regulator
- One push sampling operation
- Grab and time sampling from 0-17 LPM
- Lightweight and easy to carry up stacks
- High temperature compatibility of 400C with optional 600C

## Fast and Reliable

With a backpack containing micro-nitrogen tank and simple one push operation the DS5 is the most reliable, fast, and easy to use diluting sampler ever created.



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