Supplementary Table 1. Steady-state operating conditions of the FBC unit

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| Operating Condition | *Qc* (kg/s) | *F*1 (Nm3/s) | *P* (MW) | *TB* (K) |
| A | 3.01 | 3.69 | 24.39 | 1051.60 |
| B | 3.12 | 3.73 | 25.28 | 1069.51 |
| C | 3.25 | 3.77 | 26.33 | 1091.14 |
| D | 3.37 | 3.80 | 27.31 | 1111.58 |
| E | 3.43 | 3.82 | 27.79 | 1121.26 |