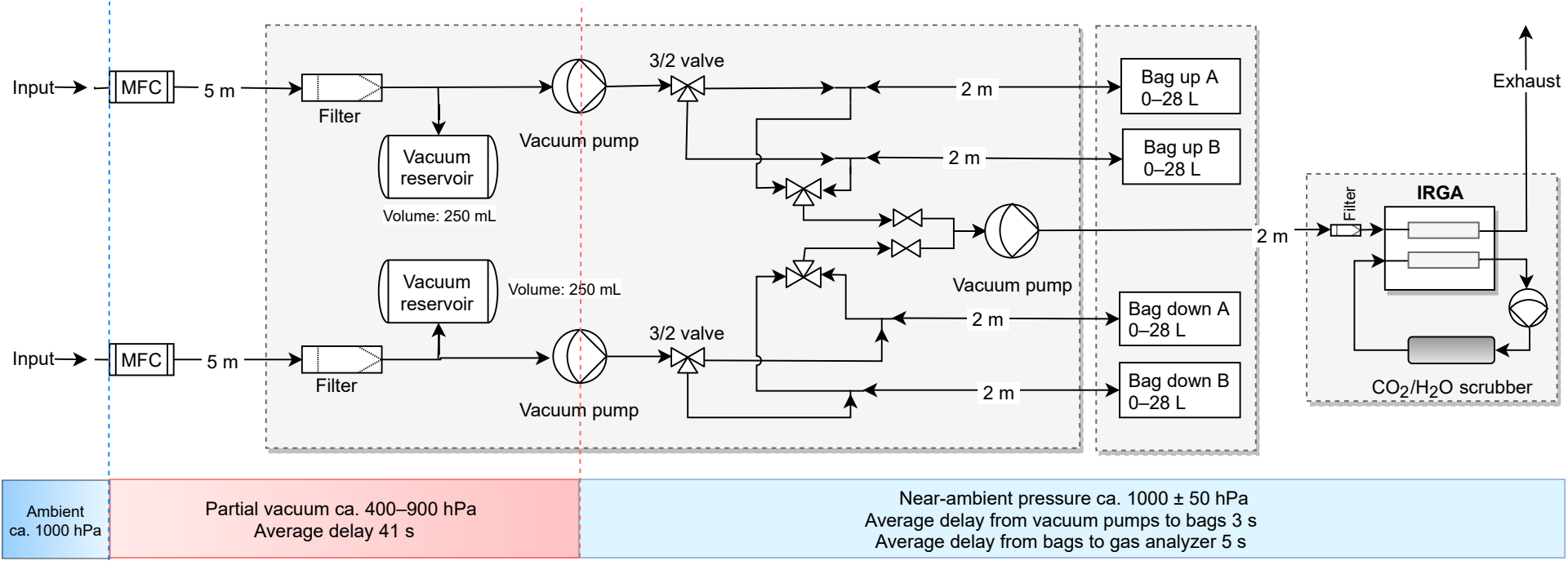
Input
MFC
5 m
Filter
Vacuum reservoir
Volume: 250 mL
Vacuum pump
3/2 valve
2 m
Bag up A 0–28 L
Bag up B 0–28 L
Vacuum pump
Bag down A 0–28 L
Bag down B 0–28 L
Input
MFC
5 m
Filter
Vacuum reservoir
Volume: 250 mL
Vacuum pump
3/2 valve
2 m
2 m
Exhaust
Filter
IRGA
CO_2/H_2O scrubber
Ambient ca. 1000 hPa
Partial vacuum ca. 400–900 hPa
Average delay 41 s
Near-ambient pressure ca. 1000 ± 50 hPa
Average delay from vacuum pumps to bags 3 s
Average delay from bags to gas analyzer 5 s