

## Specification of Push-pull Ventilation System

Name of work process			
Name of substance that the ventilation is required			
Type and air flow direction of push-pull system		Type	Closed type (blower (available / not available)) / open type
		Air flow direction	Down flow, diagonal flow, horizontal flow, others ( )
Layout of push-pull ventilation system and diagram indicating supply and exhaust ventilation systems			
Hood, etc.	Opening area of air supply unit (m <sup>2</sup> )		Opening area of exhaust unit (m <sup>2</sup> )
	Supply flow velocity (m/s)		Exhaust flow velocity (m/s)
	Air blow rate (m <sup>3</sup> /min)		Exhaust flow rate (m <sup>3</sup> /min)
	Drawings indicating structure of air blow hood, section hood and booth		
		Air supply side	Exhaust side
Design values of push-pull ventilation system	Pressure loss (hPa) and calculation method used		
	Velocity pressure difference between inlet and outlet of fan (hPa)		
	Static pressure difference between inlet and outlet of fan (hPa)		
Specifications of fan, etc. installed	Blower, etc.	Fan type	Turbo fan, radial fan, limited-load fan, airfoil fan, sirocco fan, centrifugal axial-flow fan, mixed-flow fan, axial fan (with/without guide vane), others ( )
		Maximum static pressure (hPa)	
		Static pressure of fan (hPa)	
		Supply and exhaust flow rates (m <sup>3</sup> /min)	
		Rotation speed (rpm)	
		Static pressure efficiency (%)	
		Shaft power (kW)	

	Fan motor	Type		
		Rated output (kW)		
		Phase		
		Voltage (V)		
		Rated frequency (Hz)		
		Rotation speed (rpm)		
Dust collector	Availability and type of dust collector installed in front of air cleaner	With dust collector (type:            ) Without dust collector		
	Main system		Dust collection method	
	Shape and size			
	Dust collection capacity (g/h)		Dust cleaning mechanism	Available (automatic / manual) Not available

- Notes:
- For “Type etc. of push-pull ventilation system,” circle the applicable items.
  - As regards a push-pull ventilation system that does not use a blower, the “Air supply side” column is not required to fill in.
  - Indicate dimensions in drawings indicating the structure of an air supply hood, exhaust hood and booth.
  - If the ventilation area is other than the area covered by the segment of a line connecting any point of the opening area of an air supply hood and any point of the opening area of an exhaust hood, clarify such ventilation area.
  - For “Fan type,” circle the applicable type. For the items other than “Maximum static pressure,” enter the values at the operating point of the fan.
  - As regards the push-pull ventilation system specified in item 13 of Appended Table 7, the columns of dust collector” is not required to fill in.
  - For any item for which the allocated space is not sufficient, use an attachment and attach it to the form.