

Specification of Local Exhaust Ventilation System

Classification in Appended Table 7						
Name of work process						
Name of substance that local exhaust ventilation is required						
Layout of local exhaust equipment and diagram indicating exhaust systems						
Hood	Number					
	Type	Enclosure type External type (Lateral, downward, upward) Receiver type	Enclosure type External type (Lateral, downward, upward) Receiver type	Enclosure type External type (Lateral, downward, upward) Receiver type	Enclosure type External type (Lateral, downward, upward) Receiver type	Enclosure type External type (Lateral, downward, upward) Receiver type
	Controlled air velocity (m/s)					
	Exhaust air volume (m ³ /min)					
	Drawing that indicates shape and size of hood and its location in relation to emission source					
Design values of local exhaust ventilation system	Pressure loss (hPa) and its calculation method					
	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	Exhaust fan	Maximum static pressure (hPa)	Fan type	Turbo fan Radial fan Limited load fan Airfoil fan Sirocco fan Centrifugal/axial flow fan Mixed flow fan		
		Static pressure of fan (hPa)				
		Exhaust air volume (m ³ /min)				

	Rotation speed (rpm)						Axial fan (with/without guide vane) Others ()				
	Static pressure efficiency (%)										
	Shaft power (kW)										
Fan motor	Type		Rated output (kW)		Phase	Voltage (V)	Rated frequency (Hz)	Rotation speed (rpm)			
Air cleaner	Rated capacity (m ³ /min)				Pressure loss (hPa)		(Rated value) (Design value)				
	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					
Exhaust gas disposal system	Dispersing liquid in gas Dispersing both gas and liquid Dispersing gas in liquid Absorbing method Others ()				Absorbing liquid or absorbent	Water Sodium hydroxide Hydrated lime Ammonia solution Sulfuric acid Activated carbon Others ()		After disposal	Recycle / recovery Incineration Landfill Use of contracted waste disposal firm Others ()		

Notes:

1. For "Classification in Appended Table 7," fill in the number of the applicable item of Appended Table 7 for the relevant local exhaust ventilation system.
2. As regards the local exhaust ventilation system listed in item 24 of Appended Table 7, fill in the applicable category listed in Appended Table 2 of the Ordinance on Prevention of Hazards Due to Dust in "Name of work process."
3. For the column of "Hood," assign a number to each hood, circle the applicable type (and the direction of suction in the case of external type) and fill in necessary data.
4. For the items of "Exhaust fan" under "Specifications of fan, etc. installed," fill in the values at the operating point of the fan excluding "Maximum static pressure." For "Fan type," circle the applicable type.
5. As regards the local exhaust ventilation system listed in item 13 of Appended Table 7, filling in in the items of "Air cleaner" are not required. As regards the local exhaust equipment listed in item 14 or 24 of said table, filling in is required only in "Dust collector" under "Air cleaner."
6. For "Air cleaner," circle the applicable item in "Exhaust gas disposal system," "Absorbing liquid or absorbent" and "After treatment."
7. With respect to "Exhaust gas treatment system" in "Air cleaner," attach a drawing of the system.
8. For any item for which the allocated space is not sufficient, use an attachment and attach it to the form.