

THERMOELECTRIC DEHUMIDIFIER

Indispensable for dehumidification or for controlling the moisture at a constant level in the gas sampling section of the environmental pollution gas analyzer

This thermoelectric dehumidifier uses KELK's quality thermo module that has a high reputation among users.

Because of its high accuracy, reliability, and convenience, KELK's thermoelectric dehumidifier is indispensable at the pre-processing stage for various gas analyzers as many users have found out. The DH-109-1-R and DH-209-1-R models introduced below are compact and lightweight due to the switching power supply that can easily be housed in the measurement systems casing.

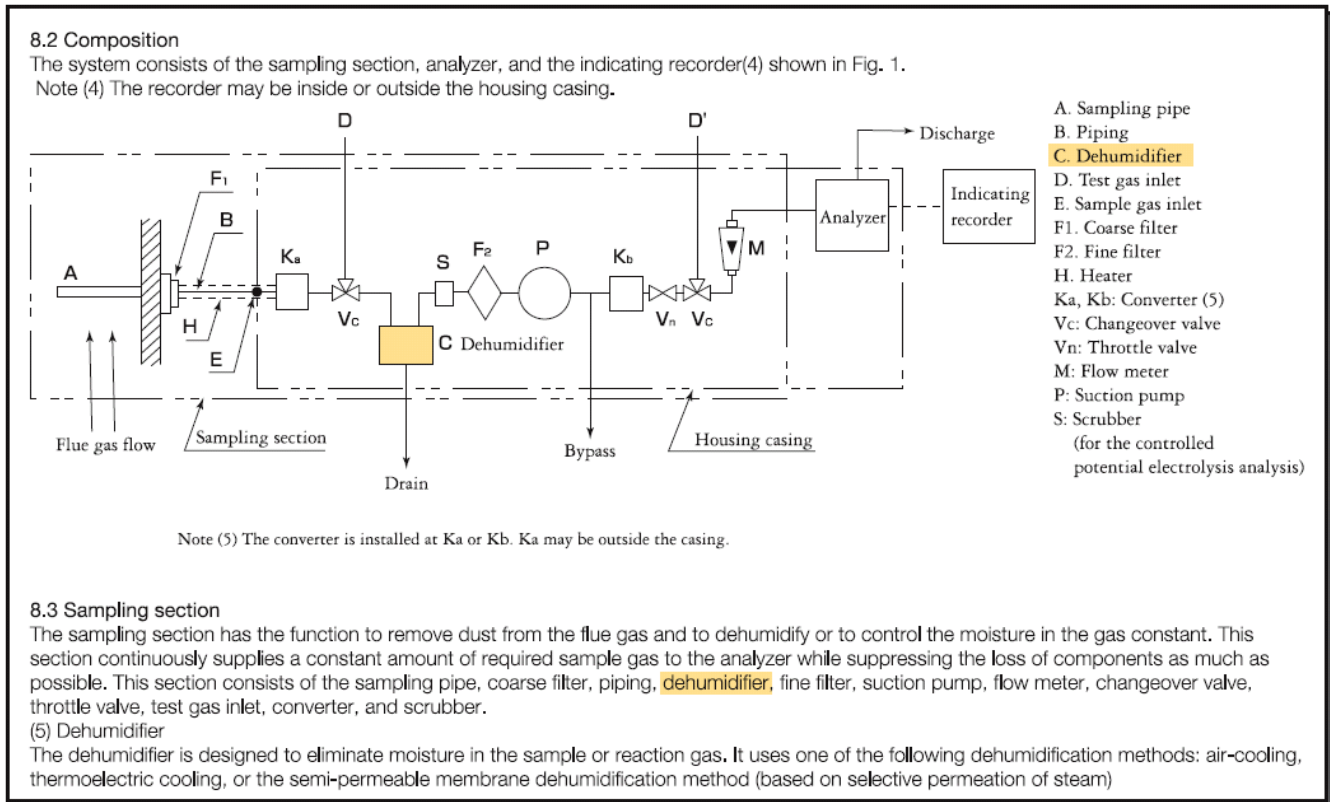
These are RoHS compliant models.



Applications

Application example: Excerpt from JIS B 7982

(Automated measuring systems and analyzers for nitrogen oxides in flue gas)



Specifications

Model		DH-109C-1-R	DH-209C-1-R		Model	DH-109C-1-R	DH-209C-1-R	
Dehumidification performance	Outside air temperature	40°C	Maximum gas flow and outlet gas dew point specified below are guaranteed at this temperature.		No. of channels	Single	Double	
	Inlet gas temperature	40°C			Cooling method	Thermoelectric cooling with thermo module		
	Inlet gas dew point	40°C			Heat radiation method	Forced air cooling, with built-in fan		
	Maximum gas flow	1.5ℓ/min	Parallel arrangement	1.5ℓ/min per channel	Material of portion in contact	Inside	Impermeable carbon, hard PVC, Fluorocarbon Resin	
			Serial arrangement	3ℓ/min		Joint	Polyethylene, O-ring (fluorocarbon rubber)	
	Outlet gas dew point	1~3°C	1~3°C		Joists	Rc 1/4		
Short-term ripple	± 0.1°C	± 0.1°C		Power supply	AC 100V 1.4A 50/60Hz	AC100V 2A 50/60Hz		
Temperature control	Temperature control method	PID linear control				Overall dimensions (mm)*1	W200*D167*H250	W236*D167*H255
	Temperature setting accuracy	1.0°C ± 0.5°C	1.0°C ± 0.5°C		Weight	4kg	5kg	
	Temperature control accuracy	± 0.1°C	± 0.1°C		Frame material	SUS430		

*1: Not including the dimensions of any projections.