

# 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.



## 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	Serial arrangement	Material of portion in contact	Inside	Impermeable carbon, hard PVC, Fluorocarbon Resin		
			1.5ℓ/min per channel	3ℓ/min		Joint	Polyethylene, O-ring (fluorocarbon rubber)		
	Joints					Rc 1/4			
Outlet gas dew point		1~3°C	1~3°C		Power supply		AC 100V 1.4A 50/60Hz	AC100V 2A 50/60Hz	
Short-term ripple		± 0.1°C	± 0.1°C		Overall dimensions(mm)*1		W200*D167*H250	W236*D167*H255	
Temperature control	Temperature control method	PID linear control			Weight		4kg	5kg	
	Temperature setting accuracy	1.0°C ± 0.5°C	1.0°C ± 0.5°C		Frame material		SUS430		
	Temperature control accuracy	± 0.1°C	± 0.1°C						

\*1: Not including the dimensions of any projections.