

Specification

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Item Model		Cooling and Heating Unit(All Teflon Type)	
		ETN23-N	ETN45-N
Applicable Liquid		HF/BHF/SC1/SC2;Ø1	
Performance	Temperature control range	15 ~ 50 °C (Please ask for the models above 50 °C)	
	Control accuracy	±0.1 °C(depends on conditions) ;Ø2	
	Cooling capacity	280W	460W
	Radiating method	Water-cooled	
	Temp. sensor for control(maker option)	Pt100;U(JIS 0.2class), teflon mold	
	Inside pressure loss (chemical liquid side)	0.01 MPa less(flow volume:20L/min)	
	Inside withstanding water pressure (chemical liquid side)	0.3MPa	
Ambient temperature range		15 ~ 35 °C	
Outlet. Inlet connecting area		3/4"x5/8"xL150(NEW PFA)	
Cooling Water	Volume	5~7L/min	
	Connecting port	3/8"x1/4"xL150(PFA)	
Materials of cooler		PFA, PTFE	
Exterior material		Chloroethylene, ivory	
Mass		Approx. 10kg	Approx. 21kg
External dimensions(W x D x H)		147 X 330 X 220mm	

Item Model		Power Supply Unit	
		ETD232	ETD452
Maximum operating current		Apporx. 4.5A	Approx. 9A
Powersupply		Single-phase 208V, 50/60Hz	

Control method	PID control Auto-tuning	
Protective device	Alarm : 1. Thermomodule deterioration, Wire cut 2. Pt 100SU short, wire cut 3. Abnormal radiation (power supply, heat exchanger) 4. Abnormal temp. control	
Mass	Approx. 5.0Kg	Approx. 10Kg
External dimensions(W X D X H)	140 X 430 X 165mm	165 X 460 X 215mm

∅1. Please ask about the concentration and undesignated liquid.

∅2. Setting temp. 25°C, cooling water temp. 25°C.

∅ Please ask about CE, SEMI.