

PID TEMPERATURE CONTROLLER

1. LIST OF PARTS REQUIRED

S.N.	Product name	Vendor	Product number
1	Power Cord, NEMA 5-15 Plug, 9 Feet Long, 0.37" OD, SJTW	McMaster	70355K99
2	Solid Thermocouple Wire, FEP Insulation and Jacket, Type K, 20 Gauge	McMaster	3870K62
3	300V AC/300V DC Terminal Block, Three 30A Circuits, 7/16" Center-to-Center	McMaster	7527K63
4	Panel-Mount Straight-Blade Receptacle, Three-Slot, Female, Grounded, 125V AC	McMaster	7168K1
5	Thermocouple Connector, Panel-Mount, Flat-Pin Female Connection, Type K	McMaster	3869K48
6	Solid state relay	Omega	SSRL240DC25
	Fuse holder	Amazon	FH043-250V (6x30mm) Follow * link below
7	Temperature controller	Omega	CN 7823
8	Crimp terminals	McMaster	https://www.mcmaster.com/crimp-terminals
9	Switch – Single Position Single Throw (SPST)	McMaster	7343K184
10	Heat exchanger	Omega	FHS-1
11	Box	McMaster	75065K12
12	Wires	McMaster	8054T24
13	Screw-Down Cord Grips	McMaster	7798K41
14	Fuse – for temperature controller (2A)	McMaster	7085K52
15	Fuse - heater	¼" diameter trade size	Choose appropriate current rating for application

*https://www.amazon.com/Fuse-Holder-FH043-250V-6x30mm/dp/B00LAPAZC2/ref=sr_1_3?keywords=fh043&qid=1579799646&sr=8-3

2. CONTROLLER PICTURES





