

Materials List for:

Construction of a Low-cost Mobile Incubator for Field and Laboratory Use

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Materials

Name	Company	Catalog Number	Comments
Heating foil	Thermo	2115337	Self-adhesive 10x20 cm; Operating voltage 12V; Power 20W
Axial fan	Yen Sun Technology Corp.	FD126025MB	6x6x2.5 cm; Operating voltage 12VDC; Power 1.44W; Max. current consumption 60mA
PID Temperature Controller	Wachendorff Automation GmbH & Co. KG	UR3274S	PID controller 32x74 mm; Universal input for process signals, thermocouples, Pt100; Operating voltage 24 VDC; Outputs (thermostats) 10 A relay, 5 A relay, SSR, RS 485
Temperature sensor Pt100	Conrad	198466	Temperature range -100°C to 200°C; Sensor Pt100, Type FS-400P
Universal enclosure	OKW Gehäuse System	C2012201	Dimensions 200 x 120 x 60 mm
DC/DC converter	Traco Power	TMDC 60-2412	Nominal voltage 24 VDC; Input voltage 9-36 VDC; Output voltage 12 VDC; Max. output current 5 A; Power 60W
AC power adapter	Bicker Elektronik	BET-0612	Output voltage 12 VDC; Max. output current 5 A; Input voltage 115-230 VAC
Spacer	Schäfer Elektromechanik	20/4	Without thread; Thread size M4; Polystyrene; Distance 20 mm
Cable gland	WISKA	10066410	M12 x 1.5 cm; clamping range 3 – 7 mm
Luster terminal	Adels Contact	125312	Nominal current 25 A; Nominal Voltage 500V
Screw M4 x 50	Bossard	1579010	M4 x 50 mm
Screw nut M4	Bossard	1241478	M4
Washer M4	Bossard	1887505	M4
Screw M3 x 25	Bossard	1211099	M3 x 25 mm
Screw nut M3	Bossard	1241443	M3
Washer M3	Bossard	1887483	M3
Support plate	-	-	Insulating material (plastic or other); 28 x 25 cm