

World Class

Machines

For

World Class Tyres

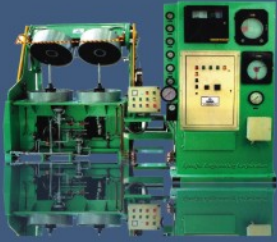


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**SPECIFIC**  
ENGINEERING CORPORATION



Specific Engineering Corporation Pvt Ltd



Tyre Curing Press



Bladder Press



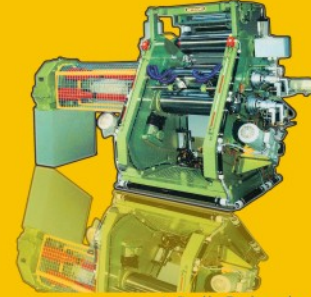
Hot Feed Extruder



Rubber Mixing Mill



Tube Splicer



4-Roll Calendar

Temperature Controller Units

Range of SEC Temperature Controller Units

Steam Heated Models

- 1-Zone Temperature Units
- 2-Zone Temperature Units
- 4-Zone Temperature Units
- Combination of multi-zone units possible

Electrical Heated Models

- 1-Zone Temperature Units
- 2-Zone Temperature Units
- 4-Zone Temperature Units
- Combination of multi-zone units possible

Circulation capacity ranging from 60 lt - 1000lt/ min is available in all the above models with a temperature range from 0°C to 95°C in standard models and 0°C to 140°C in special models.

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4-Zone Temperature Controller Unit



4-Zone Temperature Controller Unit







## Machine Features

SEC compact controller - easy to operate, interfaces compatible microprocessor controller with high setting accuracy.

Easy to understand central operating console with membrane type keypad for data entry, function and disturbance indication.

Digital alphanumeric clear text indication of set and actual values in a 4 line display. Indication of operating and disturbance messages in text form.

Adjustable set point limitation (max. Operating temperature adjustable).

Limit comparator (tolerance monitoring of actual values with alarm report).

Freely selectable ramp function for temperature changes during heating and cooling.

Lowering to safety temperature and pressure relief on shutdown.

Electronic level monitoring with dry-running protection.

Automatic venting.

Y-strainer in the cooling water circuit.

Easy access to all units due to detachable cover.

Parts in contact with water are made up of corrosion resistant material.

Minimum noise emission.

Product Pictures



4-Zone Temperature Controller Unit



1-Zone Temperature Controller Unit



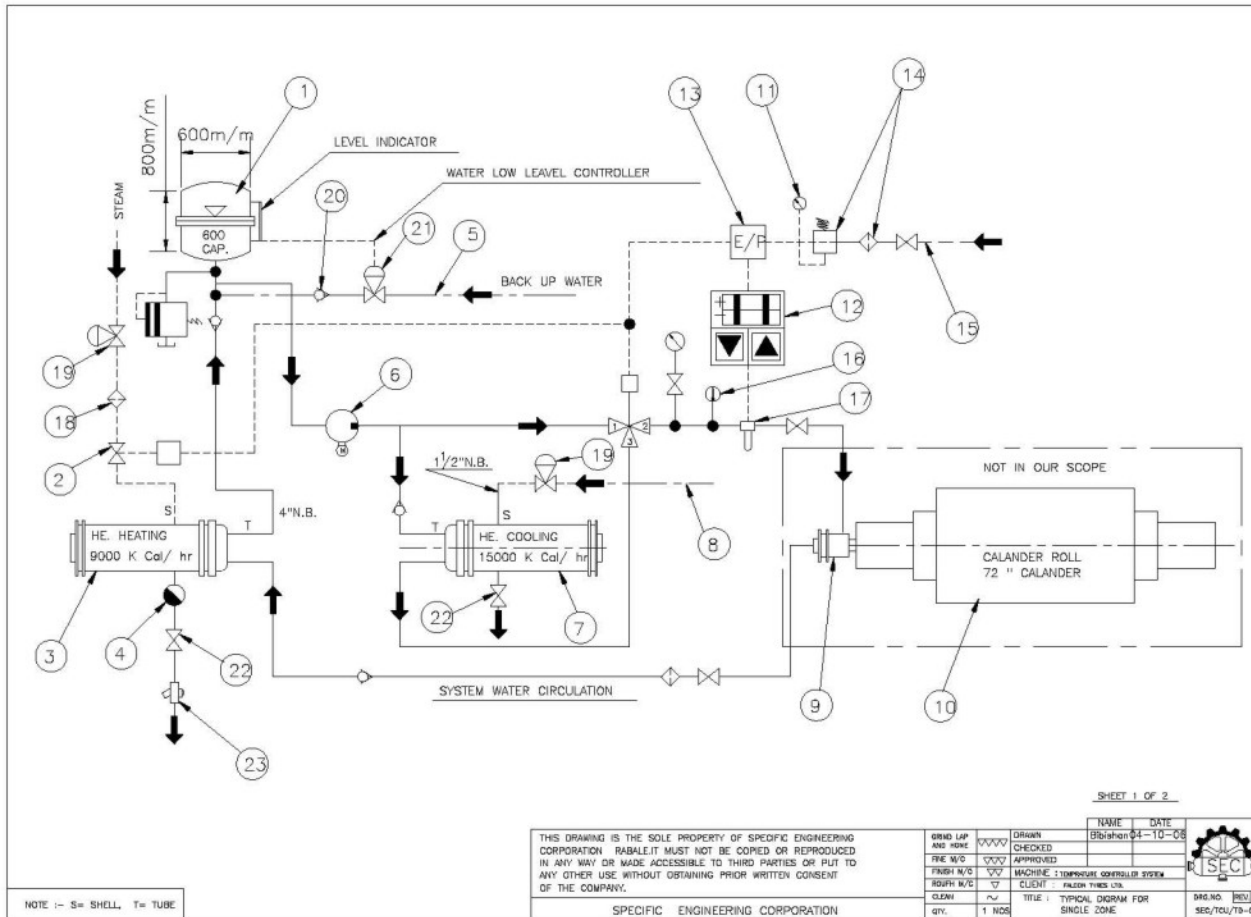
# Temperature Controller Units

## Technical Data Sheet

MODEL	SEC WD - 100	SEC WD - 150	SEC WD - 250	SEC TA - 350	SEC TA - 450
Temperature Range - °C	Up to 140	Up to 140	Up to 140	Up to 95	Up to 95
Heat Carrying Agent	Water	Water	Water	Water	Water
Control Range - °C	0-150*	0-150*	0-150*	Up to 95	Up to 95
Heating Capacity - KW	9	18	18	9	12
Process					
Maximum Flow Rate - Lts / min	80	200	233	60	100
Maximum Pressure - Bar	5.8	5	5.5	3.8	5.0
Pump Drive - Bar	1.3	2	3		2.2
Pump Capacity - KW				0.5	20
Water Cooling					
Req. Cooling Water Quantity - Lts/min	70	70			
Req. Cooling Water Pressure - Bar	3/4	3/4			100
Req. Cooling Water Inlet Temp. - °C	15	15			2/4
Nominal Water cooling Capacity at Cooling Water Temp. 15°C & Circulating Water Temp. at 90°C				23	30
Moulding Training - Ltrs					
Electric Power Supply	415 V, 50 Hz, 3 Phase	415 V, 50 Hz, 3 Phase	415 V, 50 Hz, 3 Phase	415 V, 50 Hz, 3 Phase	415 V, 50 Hz, 3 Phase
Control Voltage - Hz	230 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz
Total Connected Load - KW	10.3	20	21	12	15
Connections					
Circulation Medium Inlet	R1 1/4" BSP inside Thread	R1 1/4" BSP inside Thread	R1 1/2" BSP inside Thread	G 1/2"	R1" BSP inside Thread
Circulation Medium Outlet	R1 1/4" BSP inside Thread	R1 1/4" BSP inside Thread	R1 1/2" BSP inside Thread	G 1/4"	R1" BSP inside Thread
Cooling Water Inlet - inside thread	R 3/4" BSP inside Thread	R 3/4" BSP inside Thread	R 1/2" BSP inside Thread	R 1/2" BSP inside Thread	R 1" BSP inside Thread
Cooling Water Outlet -inside thread	R 3/4" BSP	R 3/4" BSP	R 3/4" BSP	R 3/4" BSP	R 3/4" BSP
Machine Dimensions					
L X W X H - mm	320 X 990 X 750	320 X 990 X 750	990 X 320 X 750	760 X 295 X 600	990 X 320 X 750
Weight - Kg	56	150	75	44	45
Color	Achat - Grey RAL - 7038 Traffic - Grey RAL - 7043	Achat - Grey RAL - 7038 Traffic - Grey RAL - 7043	Orange RAL - 2000 Cream RAL - 1013	Achat - Grey RAL - 7038 Traffic - Grey RAL - 7043	Achat - Grey RAL - 7038 Traffic - Grey RAL - 7043



# Temperature Controller Units



BILL OF MATERIAL	
PART NO.	PART NAME / DESCRIPTION
1.	EXPANSION TANK 600 LT.
2.	CONTROL VALVE
3.	HEAT EXCHANGER FOR HEATING
4.	CONDENSER RETURN
5.	BUILTUP WATER LINE
6.	MONOBLOCK PUMP ( 500 LPM CAP.)
7.	HEAT EXCHANGER FOR COOLING
8.	CHILLED WATER IN AT 30°C ( 100 LPM.)
9.	ROTARY JOINT
10.	CALANDER ROLL
11.	PRESSURE GAUGE
12.	TEPRATURE RECORDER & CONTROLLER ( EUROTHEM MAKE )
13.	E TO P CONVERTOR
14.	F R L
15.	AIR
16.	THERMOWELL
17.	THERMOWELL WITH PROBE
18.	STRAINER
19.	GATE VALVE
20.	CHECK VALVE
21.	SOLONOID VALVE
22.	GLOBE VALVE
23.	STEAM TRAP
24.	3 WAY CONTROL VALVE ( ATD)

SHEET 2 OF 2

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Typical P and I diagram for Steam/Electrically Heated Temperature Controller Units.







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