

CAPILLARY THERMOSTATS

The EA Series Thermostats are temperature controls for use in domestic and commercial applications. Temperature is sensed by a hydraulic sensing bulb transmitting a charge to a snap mechanism. A variety of the EA Thermostats are available, including models with function switches that provide additional circuits.

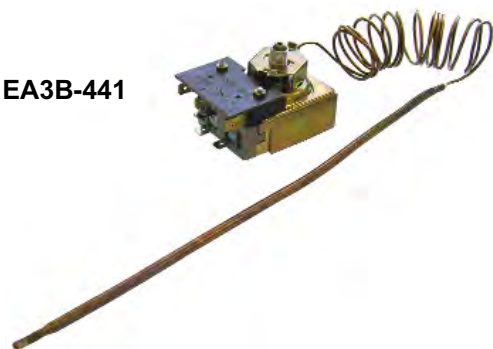

Applications include:

- Domestic ovens
- Commercial ovens
- Commercial fryers
- Water boilers
- Chicken brooders

Design Features:

- Hydraulic sensing blub
- Snap action switching
- Auxiliary switches and alternative circuits available

MODELS AVAILABLE







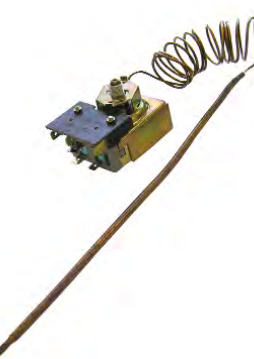

<p>EA3 SERIES</p> <p>Single circuit temperature control for modern domestic ovens.</p> <p>Rating: 20 AMP at 240 VAC</p> <p>Control Type: Snap action switch, single pole, single throw</p> <p>Operation: Hydraulic diastat</p> <p>Temperature: 70 Deg C - 290 Deg C</p> <p>Adjustment: Centre stem calibration</p>		<p>EA3B-441</p> 
<p>EA5 SERIES</p> <p>Commercial version of the EA3 equipped with screw type terminals to allow 25AMP current rating. Normally used for commercial ovens.</p> <p>Rating: 25 AMP at 240 VAC</p> <p>Control Type: Snap action switch, single pole single throw</p> <p>Operation: Hydraulic diastat</p> <p>Temperature: 95 Deg C to 205 Deg C</p> <p>Adjustment: Centre stem calibration</p>		<p>EA5-701</p> 
<p>EA1 SERIES</p> <p>Same as EA5 but with gold plated contacts for such as gas fryers. Use in millivolt, low current applications.</p>		

532-9





Stuffing Box Kit
3/8" BSP



CAPILLARY THERMOSTATS



	<p>EA3-447</p> <p>Thermostat 70-290C 20A</p>		<p>EA3CB-442</p> <p>Thermostat 70-290C Aux switch</p>
	<p>EA3AD-440</p> <p>Thermostat 70-290C Aux switch</p>		<p>EA3D-309</p> <p>Thermostat 70-290C Aux switch</p>
	<p>EA3A-485</p> <p>Thermostat 70-290C Aux switch</p>		<p>EA5-406</p> <p>Thermostat 70-290C Comm. catering</p>
	<p>EA3B-441</p> <p>Thermostat 70-290C Aux switch</p>		<p>EA5-497</p> <p>Thermostat 25A Comm. catering</p>

CAPILLARY THERMOSTATS

	<p>EA5-501</p> <p>Thermostat Robertshaw 25-105C 25A</p>		<p>EA1-770</p> <p>Thermostat Robertshaw 95-205C</p>
	<p>EA5-607</p> <p>Thermostat Robertshaw 15-120C 25A</p>		<p>76-71123-690 76-01125-070</p> <p>Thermostats Pan Sensor</p>
	<p>EA5-701</p> <p>Thermostat Robertshaw 95-205C 25A</p>		<p>55-18064-020</p> <p>Thermostat 50-320C 16A</p>
	<p>101</p> <p>PalNut Adaptor Kit for EA3-447-08</p>		<p>55-18664-020</p> <p>Thermostat 50-320C 16A</p> <p>plus Auxiliary Switch</p>



CAPILLARY THERMOSTATS

 A photograph of the TU-V501 thermostat, which is a small rectangular metal component with two electrical terminals. It is connected to a long, thin metal capillary tube. A coiled black cable is also visible.	<p>TU-V501</p> <p>Thermostat 30-110C 16A</p>	 A photograph of the TU-V701 thermostat, similar in design to the TU-V501 but with a different capillary tube length and a small electrical component at the end of the tube. A coiled black cable is also visible.	<p>TU-V701</p> <p>Thermostat 50-220C 16A</p>

EA-SERIES THERMOSTAT WIRING DIAGRAMS AND DIAL POSITIONS

CALIBRATION INSTRUCTIONS

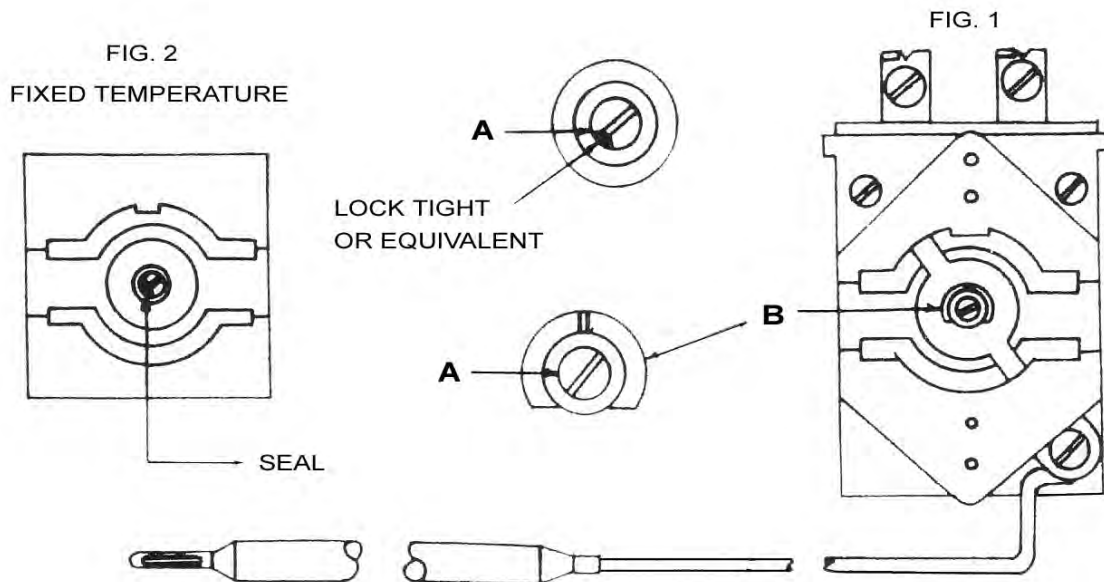
Each thermostat is calibrated at the factory, however if correction is necessary this procedure is to be followed.

FIG. 1 VARIABLE TEMPERATURE

1. Use a potentiometer or a good grade thermometer to determine temperature at the location where temperature is required.
2. Turn dial of thermostat to a medium temperature setting.
3. Allow enough time for temperature to stabilise or until several temperature readings are identical.
4. Remove dial from shaft "B".
5. Turn screw "A" clockwise to decrease or counterclockwise to increase. (These instructions cover all temperature ranges. Examples of approximate values of 1/4 turn of screw "A" for some temperature ranges are given below).
6. Replace dial and reset to original medium temperature setting of step 2.

FIG. 2 FIXED TEMPERATURE

1. Follow procedure as outlined for Fig. 1 except omit steps 2, 4 & 6.
2. Seal must be broken to turn screw "A".
3. Reseal screw "A" with quick setting cement after recalibration.

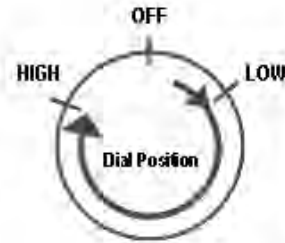
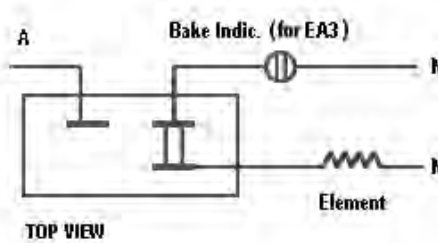


VALUE OF 1/4 TURN OF SCREW "A"

TEMPERATURE RANGE	60°-290°C	90°-205°C	26°-205°C	30°-230°C	15°-120°C	10°-32°C	0°-45°C	120°-445°C
APPROX. TEMP CHANGE	19.5°C	10°C	6.7°C	19°C	9.5°C	3.3°C	5.6°C	19.5°C
TEMPERATURE RANGE	30°-60°C							
APPROX. TEMP CHANGE	5.5°C							

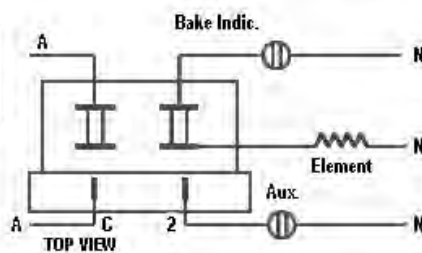
EA THERMOSTAT WIRING DIAGRAMS AND DIAL POSITIONS

**EA3 & EA5
MODELS**

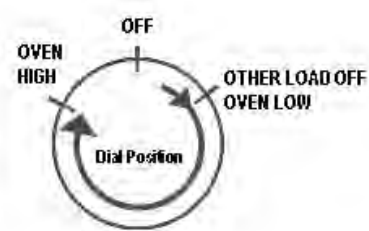
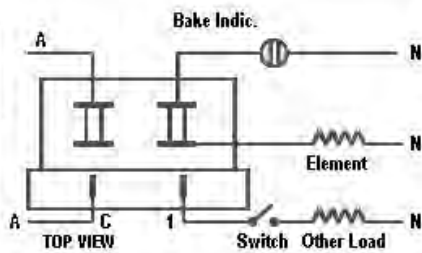
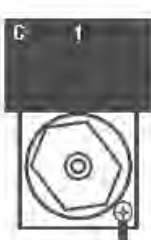


(Note: EA3 has spade terminals – as shown – EA5 has screw terminals)

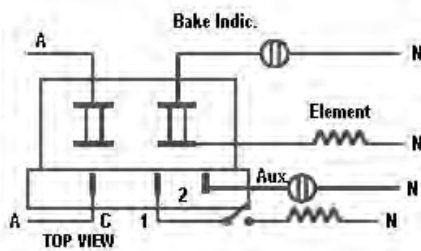
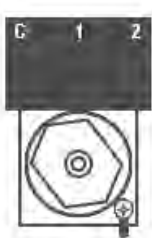
**EA3A
MODELS**



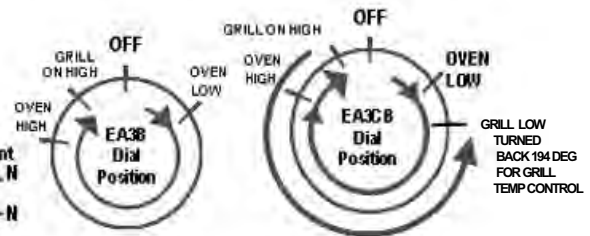
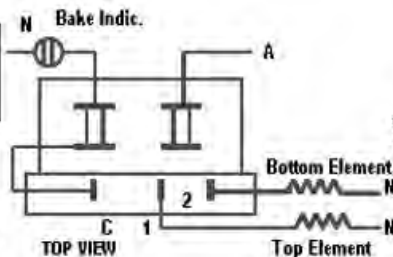
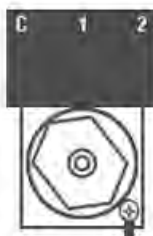
**EA3D
MODELS**



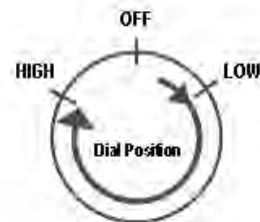
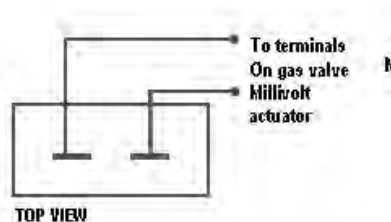
**EA3AD
MODELS**



**EA3B &
EA3CB
MODELS**




**EA17
MODELS**



PART No	REPLACES				
EA3-447	EA33002	EA3316	EA34240	EA34398	EA34638
	EA33010	EA34005	EA34259	EA34400	EA34654
	EA33037	EA34013	EA34267	EA34419	EA34662
	EA33045	EA34021	EA34275	EA34427	EA34670
	EA33053	EA3403A	EA34283	EA34435	EA34689
	EA33061	EA34048	EA34291	EA34443	EA34697
	EA3307A	EA34152	EA34304	EA3446A	EA34700
	EA33088	EA34160	EA34312	EA34478	EA34718
	EA33096	EA34179	EA34320	EA34486	EA34734
	EA33109	EA34187	EA34339	EA34507	EA34742
	EA33117	EA34195	EA34347	EA34523	EA3475A
	EA33125	EA34208	EA34355	EA34558	EA34806
	EA33133	EA34216	EA34363	EA34574	EA34822
	EA33141	EA34224	EA34371	EA34582	EA34830
	EA3315	EA34232	EA34380	EA34611	
	EA3AD-440	EA3A3011	EA3A4102	EA3A4604	EA3A4920
EA3A3046		EA3A4110	EA3A461	EA3A4938	EA3D4946
EA3A3089		EA3A4137	EA3A4807	EA3A4954	EA3D4962
EA3A4006		EA3A444	EA3A4831	EA3A7004	EA3D497
EA3A4014		EA3A4460	EA3A484A	EA3AD4401	
EA3A4022		EA3A4575	EA3A4874	EA3D4559	
EA3A4030		EA3A4583	EA3A4911	EA3D4823	
EA3A-485	EA3A484A				
	EA3A4858				
EA3B-441	EA3B3038	EA3B3070	EA3B4145	EA3B4436	EA3B4815
	EA3B3054	EA3B4049	EA3B4372	EA3B4452	
	EA3B3062	EA3B4129	EA3B441A	EA3B4591	
EA3CB-442	EA3CB4428	EA3CB4495	EA3CB4890		
	EA3CB4479	EA3CB4567	EA3CB4903		
	EA3CB4487	EA3CB4882	EA3CB4997		
EA3D-309	EA3D3097				
EA5-406	EA54075	EA52037	EA54980		
EA5-497	EA54008	EA54083	EA54147	EA54307	EA59001
	EA54016	EA54091	EA5415	EA54462	EA59046
	EA54024	EA54104	EA54200	EA54921	EA59087
	EA54032	EA54112	EA54243	EA54930	EA59095
	EA54040	EA54120	EA54261	EA54 948	EA59116
	EA54059	EA54139	EA54278	EA54956	EA59124
EA5-501	EA35008	EA35024	EA35040	EA3506	EA35083
	EA35016	EA35032	EA35059	EA35075	EA35091
EA5-607	EA36000	EA36060	EA3610	EA36166	EA36206
	EA36035	EA36078	EA36123	EA36174	EA36502
	EA36043	EA36086	EA36131	EA36182	
	EA36051	EA36094	EA36158	EA3619	
EA5-701	EA37003	EA37062	EA37089		
	EA37046	EA37070	EA37097		

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	<p>EFG-200S</p> <p>Thermostat 50-320C 16A</p>		<p>EFG-201S</p> <p>Thermostat 50-300C 16A</p>
	<p>EFG-204S</p> <p>Thermostat 65-280C 16A</p>		<p>E3A-201S</p> <p>Thermostat 70-310C 16A</p>
	<p>E3A-206S</p> <p>Thermostat 50-265C 16A</p>		<p>E3A-208S</p> <p>Thermostat 80-288C 16A</p>
	<p>NT-243S</p> <p>Thermostat 50-200C 16A</p>		<p>NT-253S</p> <p>Thermostat 50-300C 16A</p>

CAPILLARY THERMOSTATS

Part No.	Current Rating	Auxiliary Switch	Adjustable Shaft	Solid Shaft	Universal Fit	Capillary Length	Bulb Length	Bulb Thickness	Screw Mount	Nut Mount	Temperature Range
E3A-201S	16Amp	✓		✓		1400mm	144mm	3.0mm		✓	70-310C
E3A-206S	16Amp			✓		1400mm	150mm	2.0mm		✓	50-265C
E3A-208	16Amp			✓		1400mm	150mm	2.0mm		✓	80-288C
E3A-209	16Amp			✓		1400mm	150mm	2.0mm			80-288C
EA1-770	9.5mV		✓	✓		900mm	146mm	9.5mm	✓		95-205C
EA3-447S	20Amp				✓	2250mm	295mm	4.8mm	✓		70-290C
EA3A-485S	20Amp	✓	✓			1400mm	295mm	4.8mm		✓	70-290C
EA3AD-440S	20Amp	✓			✓	1800mm	295mm	4.8mm		✓	70-290C
EA3B-441S	20Amp	✓			✓	1400mm	295mm	4.8mm		✓	70-290C
EA3CB-442S	20Amp	✓			✓	1400mm	295mm	4.8mm		✓	70-290C
EA3D-309S	20Amp	✓	✓			1400mm	295mm	4.8mm		✓	70-290C
EA5-406S	25Amp		✓			1800mm	98mm	9.5mm	✓		70-290C
EA5-497S	25Amp		✓			1800mm	295mm	4.8mm	✓		70-290C
EA5-501S	25Amp		✓			1200mm	146mm	9.5mm	✓		25-120C
EA5-607S	25Amp		✓			1800mm	114mm	9.5mm	✓		15-120C
EA5-701S	25Amp		✓		*	900mm	146mm	9.5mm	✓		95-205C
EB3-507S	25Amp		✓			1220mm	98.4mm	9.5mm	✓		15-120C
EFG-200S	16Amp	Light, Fan		✓		1000mm	150mm	3mm		✓	50-320C
EFG-201S	16Amp	Light, Fan		✓		1000mm	150mm	3mm		✓	50-300C
EFG-202S	16Amp	Light, Fan		✓		1400mm	150mm	3mm		✓	50-300C
EFG-204S	16Amp	✓		✓		1000mm	150mm	3mm		✓	65-280C

* Includes Stuffing Gland $\frac{3}{8}$ BSP.

532-9	Stuffing Gland Kit
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CAPILLARY THERMOSTATS

Part No.	Current Rating	Auxiliary Switch	Adjustable Shaft	Solid Shaft	Universal Kit	Capillary Length	Bulb Length	Bulb Thickness	Screw Mount	Nut Mount	Temperature Range
55-13544-010						1430mm	77mm	6mm			238C
55-18022-020S						870mm	147mm	6mm			30-120C
55-18064-020S	16Amp			✓		1430mm	160mm	3mm	✓		50-320C
55-18664-020S	16Amp	✓		✓		1450mm	160mm	3mm	✓		50-320C
76-01125-070S				✓						✓	
76-71123-690S				✓						✓	
TU-V501	16Amp					1400mm					30-110C
TU-V701	16Amp					1400mm			Stuffing Bush		50-220C

55-18064-020S



















76-71123-690S



Part No.	Current Rating	Auxiliary Switch	Adjustable Shaft	Solid Shaft	Universal Kit	Capillary Length	Bulb Length	Bulb Thickness	Screw Mount	Nut Mount	Temperature Range
NT-182S	16Amp			✓		1000mm	90mm	6mm	✓		30-110C
NT-243S	16Amp			✓		1000mm	55mm	6mm	✓		50-200C
NT-252S	16Amp			✓		850mm			✓		50-320C
NT-253S	16Amp			✓		1550mm	150mm	2mm	✓		50-300C
SP-031S	16Amp	Safety Overtemp		✓		1400mm			✓		232C
NT-111S	16Amp	Spa		✓		350mm	85mm	6mm			20-40C
NT-122S	16Amp	Hot Water		✓		850mm	98mm	6mm	✓		50-83C

KNOBS

			
105	196-9	277-7	MD-252ZT
			
263-8	264-6	D-6193-5-A	MD-252
			
266-2	267-0	D-6193-7-A	P800
			
271-8	272-6	D6193-8A	TYJ-KNOB-6333

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