Stanton Kilns
A Division of Control & Construction Ltd
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Stanton's top-loading & front-loading electric kilns are available in the range of sizes preferred by Schools, Colleges, Studio Potters & Industry. We also manufacture kilns to customers' specifications.

The kilns are craftsman-built using the best quality materials and carry an optional 1 year warranty. Our business has been built on customer recommendation over more than 30 years during which time our designs have been continually developed to offer the highest standards of safety, efficiency & reliability.

We stock a full range of temperature controllers including the user-friendly Stafford Instruments ST range.

Also stocked are temperature trips and a full range of spares & accessories. We can manufacture elements for all makes & types of electric kilns on a rapid turn-around.

Our service department supports our kilns and offers an on-site repair & factory refurbishment service for all makes of electric kilns.

Common Features of the Stanton Kilns range of products

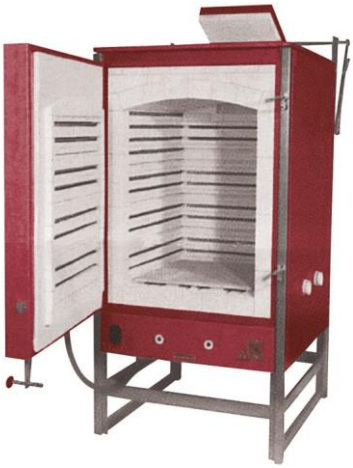
- 1300°C maximum firing temperature
- Double skin casing construction with air gap
- Low density brick construction to all surfaces including lids or doors
- Low energy usage
- Two-tone stove-enamelled case finish
- One year warranty

Top Loading Kilns

Our Firebird 'T' range of top-loading kilns is a 6 model range covering the size range 74 to 297L (2.6 to 10.5 cubic feet). Elements are inserted into each of the four side-walls. Dual gas struts are fitted to all models.

Front Loading Kilns

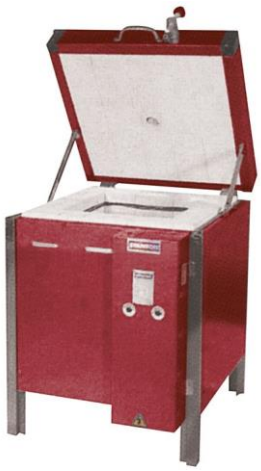
Two ranges are available - the Firebird 'E' range & the Firebird 'K' range



The Firebird 'K' range of front-loading kilns is an 8 model range covering the size range 106 to 708L (3.75 to 25 cubic feet). Elements are inserted into the side walls, back wall, base & door. A roof damper fitted to models of size 283L (10 cubic feet) and above.

T Range

Top Loading Kilns



Features

- Low density, dry lined construction for ease of replacement
- 1300°C firing temperature for all models
- Double skin casing including stainless steel inner panels
- Low kilowatt input for maximum size of chamber
- Dual gas struts fitted to all models
- Two tone, stove enamelled finish casing
- All electrical connections concealed behind hinged front control panel
- Full range of kiln furniture & control equipment available
- One year warranty

Type	Capacity	Firing Chamber			External Dimensions			Weight	kW	Amps	Price
		W	D	H	W	D	H				
	L ft³	mm in	mm in	mm in	mm in	mm in	mm in	kg lb.		1 ph 3 ph	£ Pounds Sterling
T25	74 2.6	381 15	381 15	508 20	673 26.5	783 31	838 33	120 265	5	22 8	1334
T35	106 3.75	475 18	457 18	508 20	737 29	864 34	838 33	124 273	7	30.5 10	1495
T50	145 5.0	533 21	533 21	508 20	813 32	940 37	838 33	142 313	9	39 13	1620
T55	154 5.5	457 18	457 18	737 29	737 29	864 34	1057 42	150 330	10	44 15	1920
T60	210	533	533	737	813	940	1067	159	12	52	2099

	7.5	21	21	29	32	37	42	350		18	
T80	297 10.5	914 36	533 21	610 24	1270 50	1092 43	1245 49	400 882	18	78 26	3340

Note: All prices are ex-works and exclude V.A.T.

Product Description

These kilns have been developed to meet a growing demand for a good quality, efficient top-loading kiln for use at up to 1300°C, operating with a minimum heat loss and a sensible outside casing temperature. The kilns are compact in design with detailed attention paid to both the construction and the quality of materials used. The casing has a double skin with air-gap. The inner skin is stainless steel to give added protection against corrosion. The kiln is fully lined with low density brick, including the lid. The brickwork is of dry lined construction for ease of replacement. The lid is fitted with two gas springs on all models.

Heating elements are inserted in all four walls terminating behind the hinged front control panel. All electrical repairs can thus be carried out from the front. All models are available in single phase or 3-phase and neutral operation.

When planning the installation of a kiln attention should be given to the size of the kiln room, floor strength & ventilation requirements. Space should be allowed to enable the kiln to be manoeuvred into position and to meet the minimum clearance distances. The floor must be level and strong enough to support the weight of the kiln and its workload. If sited in an enclosed space forced ventilation is recommended possibly by means of wall mounted fan and airbrick inlet. We would suggest a minimum air volume change value of five per hour whilst kiln is in operation.

Minimum clearance distances are:-
Above: 1000mm 39"
At side: 150mm 6"
At rear: 150mm 6"

E Range

Front Loading Kilns

Features

- Low density brick lining
- 1300°C firing temperature for all models
- Low kilowatt input for maximum size of chamber
- Casing finished in two-tone stove enamel incorporating air gap for low skin temperature
- Door gasket seal
- Full selection of kiln furniture and control equipment available for all models
- One year warranty

Type	Capacity	Firing Chamber			External Dimensions			Weight	kW	Amps	Price
		W	D	H	W	D	H				
	L ft³	mm in	mm in	mm in	mm in	mm in	mm in	kg lb.		1 ph 3 ph	£ Pounds Sterling
E250	74 2.6	381 15	381 15	508 20	660 26	787 31	1524 60	200 441	5	22 8	1639
E350	106 3.75	457 18	457 18	508 20	737 29	864 34	1524 60	210 463	7	30.5 10	1812
E375	127 4.5	457 18	457 18	610 24	737 29	864 34	1727 68	255 563	8	35 12	1869
E400	170 6	457 18	610 24	610 24	737 29	1016 40	1727 68	300 662	12	53 18	2076
E450	227 8	610 24	610 24	610 24	889 35	1016 40	1753 69	360 794	15	66 22	2613

Note: All prices are ex-works and exclude V.A.T.

Product Description

With our 5-model Firebird 'E' range of front-loading kilns we aim to supply a robust & reliable kiln at a competitive price.

These kilns are for use at up to 1300°C, utilising a double-skinned casing construction with air-gap. This ensures that they operate with a minimum heat loss and a sensible outside casing temperature. The kiln is fully lined with low density brick including the door. The door can be specified as right or left-hand opening and is gasket sealed.

The frame design incorporates an integral floor stand. All electrical connections including the rear wall mounted thermocouple can be accessed from the rear of the kiln after removing the rear cover-plate. Heating elements are situated in the 2 sidewalls and the base. All models operate from 230VAC and are available in single phase or 3-phase and neutral versions.

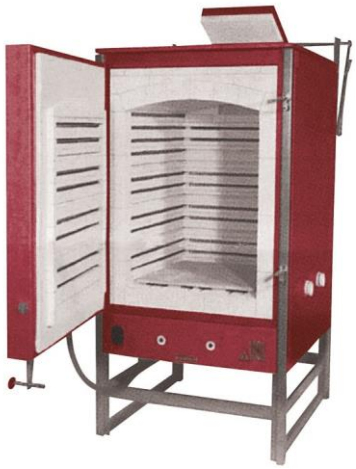
When planning the installation of a kiln attention should be given to the size of the kiln room, floor strength & ventilation requirements. Space should be allowed to enable the kiln to be manoeuvred into position and to meet the minimum clearance distances. The floor must be level and strong enough to support the weight of the kiln and its workload.

If sited in an enclosed space forced ventilation is recommended possibly by means of wall mounted fan and airbrick inlet. We would suggest a minimum air volume change value of five per hour whilst kiln is in operation. Adequate ventilation is essential especially in enclosed situations - forced ventilation is strongly recommended.

Minimum clearance distances are:-

Above:	750mm	30"
At sides:	150mm	6"
At rear:	450mm	18"

K Range Front Loading Kilns



Features

- Low density brick lining
- Elements situated in door, back wall, sidewalls & base
- 1300°C firing temperature for all models
- Low kilowatt input for maximum size of chamber
- Casing finished in two tone stove enamel incorporating air gap to ensure low skin temperature
- Door gasket seal
- Ventilation via roof damper on K501-565
- Full selection of kiln furniture and control equipment available for all models
- One year warranty

Type	Capacity	Firing Chamber			External Dimensions			Weight	kW	Amps	Price
		W	D	H	W	D	H				
	L ft³	mm in	mm in	mm in	mm in	mm in	mm in	kg lb.		1 ph 3 ph	£ Pounds Sterling
K351	106 3.75	457 18	457 18	508 20	737 29	940 37	1524 60	227 500	7	30.5 10	2032
K376	127 4.5	457 18	457 18	610 24	737 29	940 37	1727 68	272 600	8	35 12	2192
K401	170 6	457 18	610 24	610 24	737 29	1092 43	1727 68	300 662	12	53 18	2560
K451	227 8	610 24	610 24	610 24	889 35	1118 44	1753 69	372 820	15	66 22	3025
K501	283 10	610 24	610 24	762 30	889 35	1118 44	1829 72	399 880	18	78 26	3670
K551	425	610	915	762	965	1473	1905	600	22	96	5302

	15	24	36	30	38	58	75	1323		32	
K561	510 18	610 24	915 36	915 36	965 38	1473 58	2057 81	700 1543	26	113 38	5759
K565	708 25	762 30	915 36	1016 40	1143 45	1499 59	2007 79	1200 2646	36	157 52	7038

Note: All prices are ex-works and exclude V.A.T.

Product Description

The Firebird 'K' 8-model range of front-loading kilns is a natural extension to our popular 'E' range but with additional steelwork and increased insulation. Additional elements are situated in door & back wall for even distribution of heat. Manual roof dampers are fitted to models K501-K565 (optional extra for other models). The dampers can be fully automated at additional cost.

These kilns are for use at up to 1300°C, utilising a double-skinned casing construction with air-gap. This ensures that they operate with a minimum heat loss and a sensible outside casing temperature. The kiln is fully lined with low density brick including the door. The door can be specified as right or left-hand opening and is gasket sealed.

The frame design incorporates an integral floor stand. All electrical connections including the rear wall mounted thermocouple can be accessed from the rear of the kiln after removing the rear cover-plate. Heating elements are situated in sidewalls, back wall, base & door. All models operate from 230VAC and are available in single phase or 3-phase and neutral versions.

All models are covered by our standard 1-year warranty. An optional 2 year warranty is available, subject to a chargeable service visit at the 12 month period.

When planning the installation of a kiln attention should be given to the size of the kiln room, floor strength & ventilation requirements. Space should be allowed to enable the kiln to be manoeuvred into position and to meet the minimum clearance distances. The floor must be level and strong enough to support the weight of the kiln and its workload. If sited in an enclosed space forced ventilation is recommended possibly by means of wall mounted fan and airbrick inlet. We would suggest a minimum air volume change value of five per hour whilst kiln is in operation. Adequate ventilation is essential

especially in enclosed situations - forced ventilation is strongly recommended.

Minimum clearance distances are:-

Above:	750mm	30"
At sides:	150mm	6"
At rear:	450mm	18"

Item	Description	Price £ Pounds Sterling
D550	Damper motor only	225.00
HS8	Harting 8 pin instrument socket	25.00
HS15	Harting 15 pin instrument socket	POA
HP15	Harting 15 pin instrument plug	POA
FC10	Flexible cable to suit above (per metre)	6.00
CC3	3m controller cable fitted with Harting style 8 way plug	38.00

Note: All prices are ex-works and exclude V.A.T.

	Thermocouples	Price £ Pounds Sterling
TC1-R	Type 'R' 152mm (6") below flange (disk head)	80
TC2-R	Type 'R' 152mm (6") below flange (angle head)	95
TC3-R	Type 'R' 228mm (9") below flange (angle head)	110
TC4-R	Type 'R' 280mm (11") below flange (angle head)	130
TC1-S	Type 'S' 152mm (6") below flange (disk head)	p.o.a
TC2-S	Type 'S' 152mm (6") below flange (angle head)	p.o.a
TC3-S	Type 'S' 228mm (9") below flange (angle head)	p.o.a
TC4-S	Type 'S' 280mm (11") below flange (angle head)	p.o.a

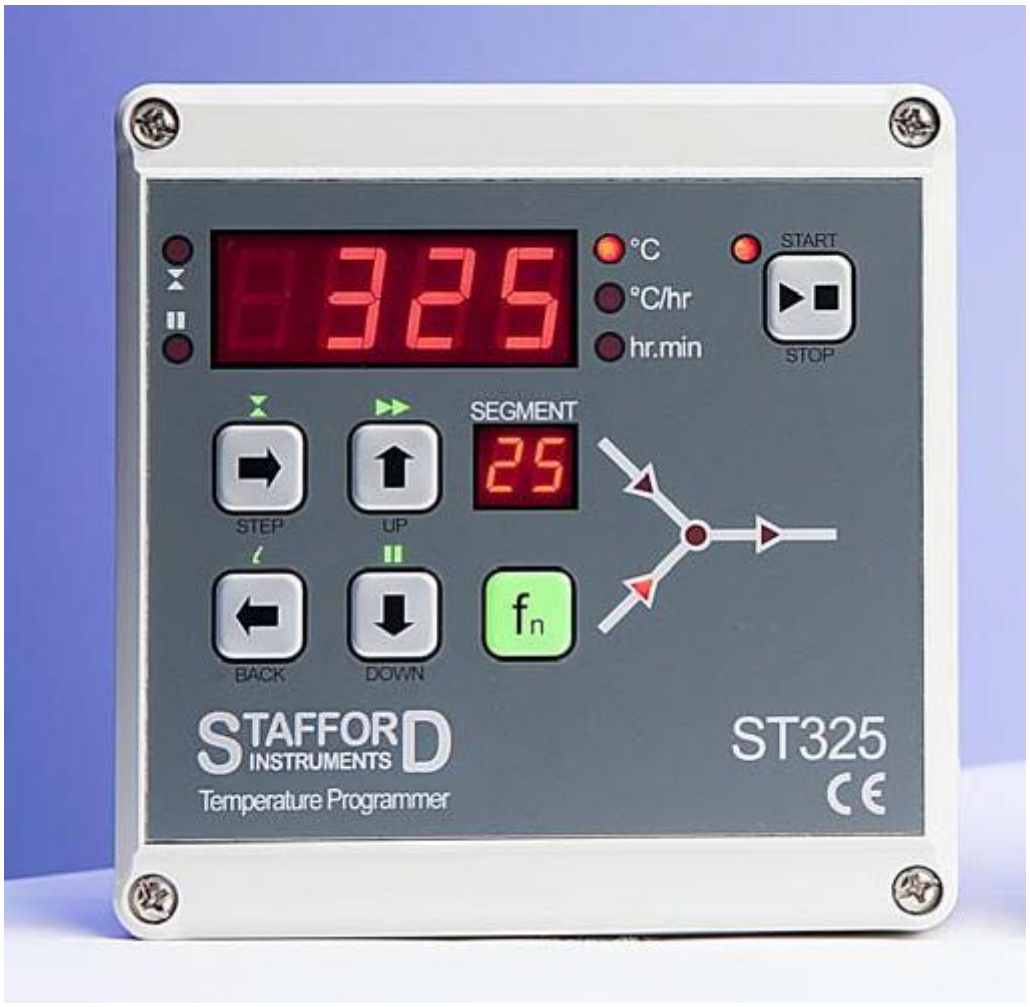
Note: All prices are ex-works and exclude V.A.T.

Please contact us for sizes & types not shown here.

The Stafford Instruments ST Range

Common Features

- Alphabetic display for user-friendly operation
- Status display shown during firing
- Attractive wall-mounted enclosure sealed to IP65
- Control range up to 1310°C
- Delayed start facility
- R,K,N & S thermocouple types (field selectable)
- Thermocouple burn-out detection
- Heater element failure detection
- Continuous self-checking of internal operation
- Intelligent power-failure recovery
- Year 2000 compliant
- Optional internal over-temperature trip module (field installable)

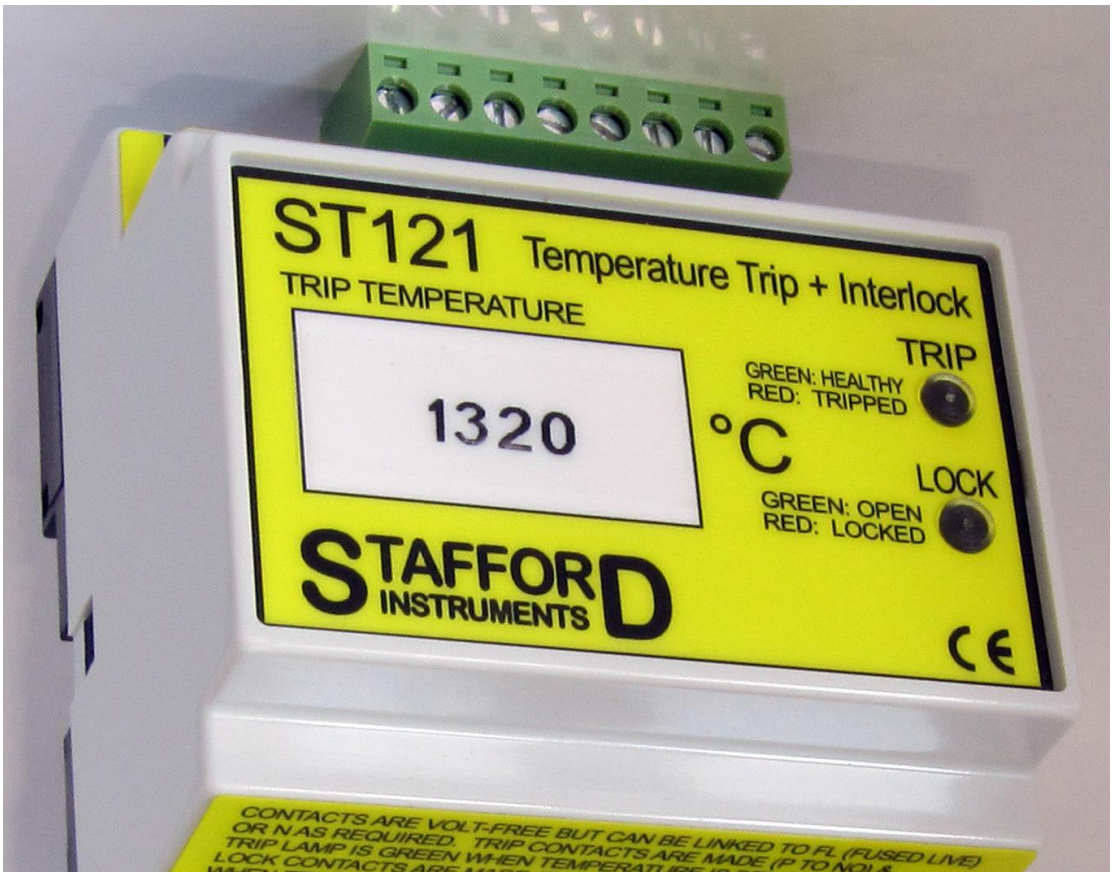


Model Features

Model	Description	Price £ Sterling
ST312	This is a single programme controller designed for pottery firing. It has 2 fully adjustable ramps followed by a soak. It is based on the ST302 controller with the following features added: larger display, alarm buzzer (sounds in the event of an error condition), energy used (kWh) feature, selectable thermocouple types (R, S, K & N), programme pause and segment advance.	200
ST314	This is a single programme controller designed for glass firing. It can also be used for pottery firing. The programme has up to 9 segments. Each segment is 1 fully adjustable ramp followed by an optional soak. The ramp can either be a controlled heating or a controlled cooling ramp- the ramp type is clearly shown on the mimic display. For simple pottery firing 2 segments will be used. For glass or glazing more segments are available to give complex firings of up to 9 heating or cooling ramps and 9 soaks. The maximum soak time is 99 hours 59 minutes.	215
ST325	This is a fully-programmable multi-stage 32 program controller. Each program can have up to 32 ramps & 32 soaks. Ramps may be heating or cooling with ramp rates in the range 1°C/hr to 998°C + full.	265

Over-Temperature Trip Module

The ST121 is an independent over-temperature trip module designed solely for internal fitment to the din rail of the kiln. It is an optional safety device designed to protect kilns from over-firing. It behaves like a resettable heat fuse. Operation of the trip is indicated by a series of beeps which indicate the type of fault



Other Controllers Stocked

Model	Description	Price£ Sterling
ST315	This is a 9 programme variant of the ST314 controller. This is currently the most popular model as it is capable of both pottery and complex glass firing.	225
ST316	This is a 9 programme controller designed for pottery firing. Each programme has up to 9 segments. Each segment is 2 fully adjustable ramps followed by a soak. It is similar in concept to the ST303(linking) controller- however linking is not required on the St316 due to the availability of multiple segments. For simple pottery firing only one segment will be used but more segments are available for more complex firing e.g. crystal glazing. The controller is capable of both controlled heating and controlled cooling so could be used for glass, but we recommend the ST314 or ST315 for glass as the mimic panel clearly shows if the controller is heating or cooling.	230
ST121	Optional DIN rail mounted temperature trip unit	99

Note: All prices are ex-works and exclude V.A.T.

Information package last updated 30/05/2014

In line with the Stanton policy of product enhancement, model specification and colour of kiln may differ from those illustrated.

E&OE.