

# UltraNOx Burners Type E 6000-24000 kg/hr

**Cochran is a leading provider of fully engineered heat and energy solutions across the globe. Operating worldwide, the Cochran brand is a globally recognised benchmark for British engineering and manufacturing; a name that stands for unrivalled quality, dependability, durability and premium performance.**

Now, developed from its well-respected and fully proven burner platform, Cochran have launched the new sub-60mg NOx UltraNOx burner range. Fully MCert demonstrated AND accredited, this benchmark standard has been achieved WITHOUT the need for costly Flue Gas Recirculation (FGR) retrofits.

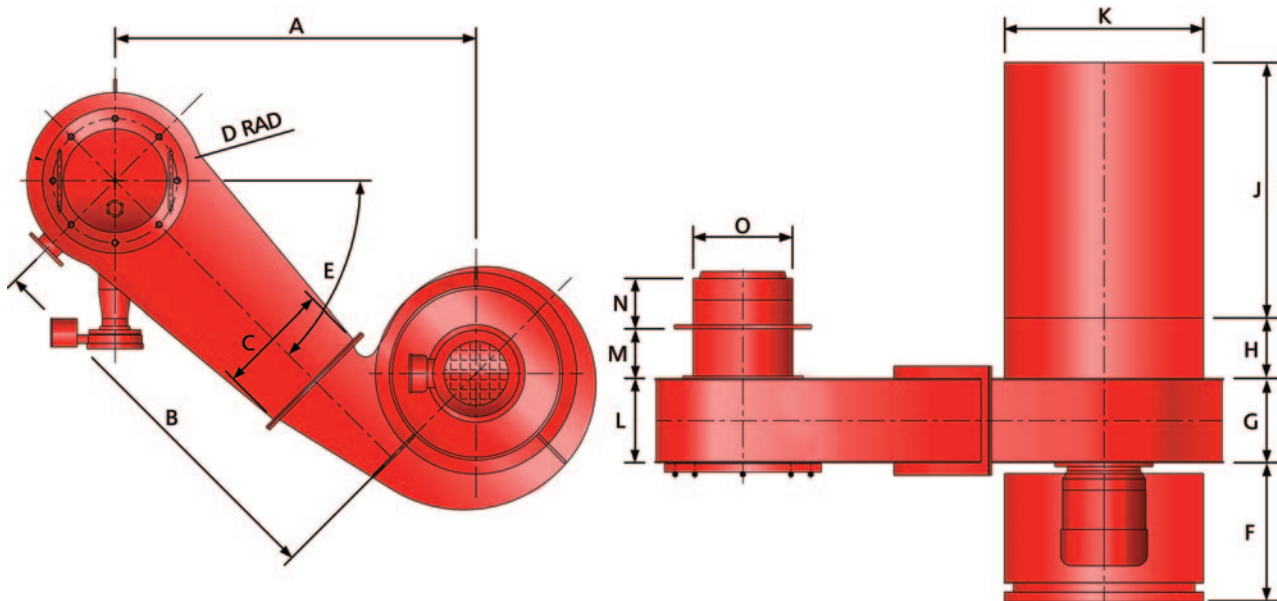
Delivering low operational noise and excellent fuel efficiency across the 1 to 15MW output range, the new sub-60mg NOx UltraNOx has been rigorously tested in the field. For maximum efficiency we recommend operation using Siemens LMV controls matched with Cochran's leading-edge Synergy or Eclipse boilerhouse management technology.

## **Cochran's UltraNOx burners offer the following key features:**

- Delivering from 1 to 17 MW heat output.
- 60mg NOx @3% operating on a typical 1.6MW NHRR furnace - WITHOUT the need for FGR.
- Fully demonstrated MCert AND approved.
- Proven design with extensive real-world testing in the field, and supported by Cochran's network of forty highly experienced UK-based service engineers.
- Available as a rapid combustion head upgrade retrofits to existing boiler plant - significantly cutting NOx emissions and reducing fuel bills.
- Minimum turndown for Type E burners 6:1 gas and 4:1 on fuel oil.
- Ideal for operation using Siemens LMV controls matched with Cochran's leading-edge Synergy or Eclipse boilerhouse management technology.
- Low operational noise, featuring a muffler and air intake silencer as standard.
- Premium spec includes laser cut stainless steel flame plates throughout, quick release connections on fuel lines. All key stainless and aluminium parts CNC machined in-house, ensuring superb quality, fit and ease of commissioning.
- Cochran's famous build quality, designed, developed, manufactured and tested in-house at our UK factory, with a powder coated finish for maximum durability.



# UltraNOx Burners Type E 6000-24000 kg/hr



## UltraNOx Gas and Dual Fired Type E Burners

Boiler Duty	Kg/Hr	6000	7000	8000	9000	10000	12000	14000	16000	18000	20000	22500	24000
Dimensions	A	mm	1666	1295	1457	1363	1387	1493	1631	1658	2170	1988	1919
	B	mm	1709	1400	1540	1500	1534	1671	1711	1810	2326	2115	2066
	C	mm	334	378	378	378	378	588	682	682	682	682	742
	D	mm	295	315	340	365	365	390	440	440	440	440	470
	E	mm	30	45	40	45	45	38	28	33	28	28	30
	F	mm	777	789	635	635	665	727.5	869	869	872	872	914
	G	mm	266	302	302	302	302	318	412	412	412	412	534
	H	mm	258	269	269	269	269	278	280	272	274	274	278
	J	mm	906	1114	1126	1126	1126	1202	1256	1256	1256	1256	1256
	K	mm	553	713	713	713	713	765	780	780	780	780	780
	L	mm	266	302	302	302	302	318	412	412	412	412	534
	M	mm	196	194	240.5	240.5	240.5	242.5	253	253	253	253	253
	N	mm	218	205	205	205	205	205	225	220	215	220	220
	O	mm	327	362	410	410	410	462	512	512	512	512	554

**Options:** Remote monitoring and data logging - accessible via Internet; O<sub>2</sub> Trim; Exhaust Gas Monitoring; and Integral Gas Leak testing.

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Newbie Works, Annan, Dumfries & Galloway, UK DG12 5QU.

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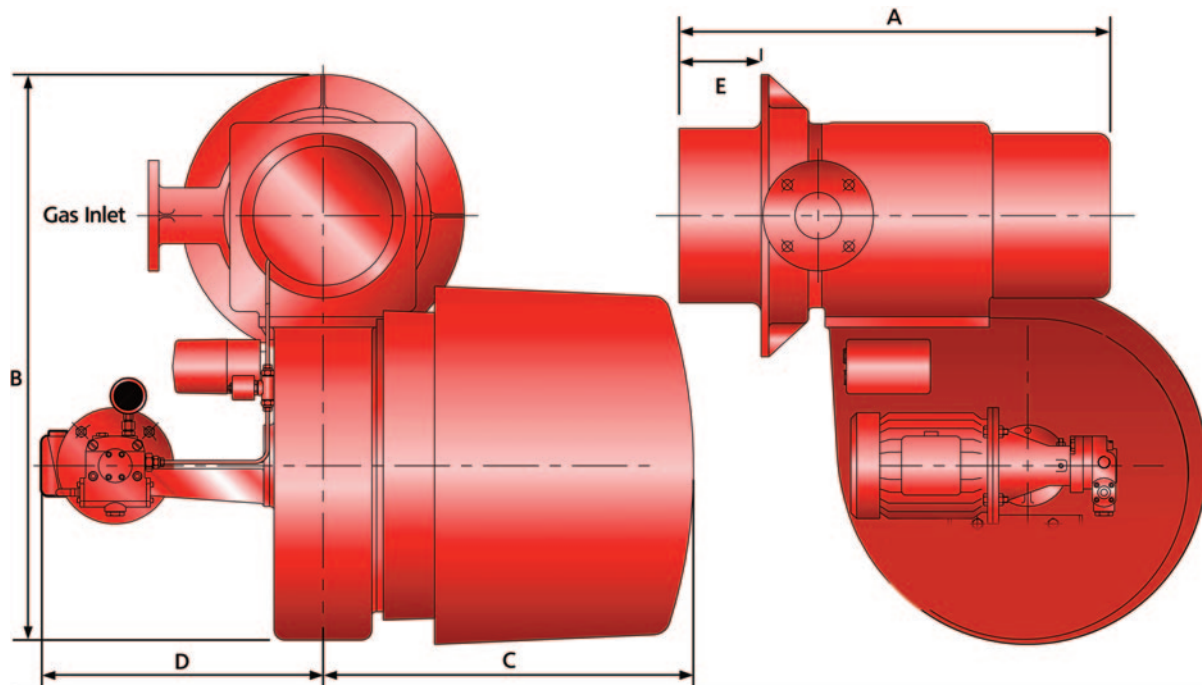
# UltraNOx Types S and T

# 1000-5600 kg/hr

The UltraNOx Types S and T burners feature Cochran's unique combustion head, efficient combustion and low NO<sub>x</sub> throughout the firing range. Fully modulating options available throughout the range on all fuel types and combinations. Digital combustion systems can be incorporated into the burner control package.

### Cochran's UltraNOx Types S and T burners offer the following key features:

- Suitable for firing oil or gaseous fuels, or for dual oil/gas firing, providing maximum flexibility.
- Fully modulating on gas firing, options for two or three stage stepped combustion, or fully modulating when oil firing.
- Unique combustion head delivers efficient fuel combustion and low NO<sub>x</sub> emissions throughout the firing range.
- Digital combustion systems can be incorporated into the burner control package.
- Suitable for operation and control using modern boiler management systems, such as Cochran's touchscreen Synergy and Eclipse boilerhouse operation technology.
- Subject to other plant and equipment within the boilerhouse, Types S and T burners are MCPD compliant.
- Variable speed drives options are available.



### UltraNOx Gas and Dual Fired Type E Burners

Burner Type			16 Type S	17 Type S	17 Type T	23 Type T	23M Type T
Dimensions	A	mm	827	876/851	907	1074	1060
	B	mm	684	729	729	932	916
	C	mm	595	620	678	853	855
	D	mm	420	420	483	388	340
	E	mm	166	166/141	141	141	178
Maximum Input		kW	1650	3100	3100	3980	4300
Turndown			2.0 : 1	2.0 : 1	3.0 : 1	3.0 : 1	3.0 : 1
Typical Noise Level - dBa 1m from Burner			80	83/84	83/84	84-87	84-87
Approximate Burner Weight		Kg	184	220	230	250	240

**Options:** Remote monitoring and data logging - accessible via Internet; O<sub>2</sub> Trim; Exhaust Gas Monitoring; and Integral Gas Leak testing.

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