

UltraNOx Type E Burners

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 UltraNOx E burner range. Fully MCPD Compliant and Hydrogen ready, this benchmark standard has been achieved without the need for Flue Gas Recirculation (FGR). FGR can be offered to further reduce NOx emissions now, or in the future.

Delivering low emissions and excellent fuel efficiency across the output range, the new UltraNOx has been rigorously tested in the field.

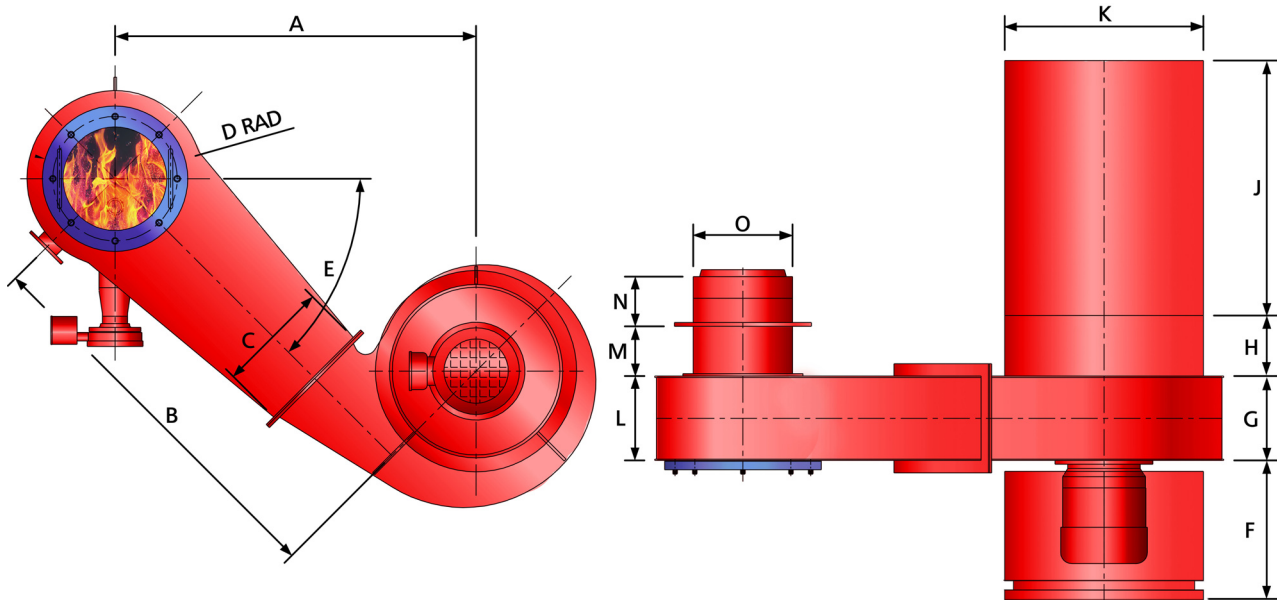
Cochran's UltraNOx burners offer the following key features:

- Fully MCPD compliant and 100% hydrogen ready burner delivering from 4 to 19 MW burner net heat output.
- Suitable for firing Distillate oil, gaseous fuels, including Hydrogen, or triple fuel firing, providing maximum flexibility.
- From 50 mg/Nm³* NOx @3% O₂, without the need for FGR or as low as 20 mg/Nm³* with FGR.
- Minimum turndown for Type E burners 8:1 gas and 5:1 on Distillate oil.
- Low operational noise, featuring a muffler and air intake silencer as standard.
- For maximum efficiency and flexibility, the UltraNOx can be offered with all leading combustion control systems.
- Modular options for VSD, O₂ trim, sequencing and remote monitoring are also available.
- Available as a rapid combustion head upgrade retrofit for legacy Cochran burners - significantly cutting NOx emissions and reducing CAPEX.
- 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.
- Proven design with extensive real-world testing in the field and supported by Cochran's network of highly experienced UK-based service engineers. Cochran's famous build quality, designed, developed, manufactured and tested in-house at our UK factory, with a powder coated finish for maximum durability.
- Bespoke design solutions and applications available.



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UltraNOx Gas and Dual Fired Type E Burners

Boiler Duty KG/HR		6000	7000	8000	9000	10000	12000	14000	16000	18000	20000	22500	24000
Equiv. Burner Net Heat Input to Boiler	KW	4298	5015	5731	6448	7164	8597	10030	11463	12895	14328	16119	17194
Cochran Frame Reference		7	10	12	14	15	17	18	18	18a	20	22	24
Dimensions	A	1666	1295	1457	1363	1387	1493	1631	1658	2170	1988	1919	1919
	B	1709	1400	1540	1500	1534	1671	1711	1810	2326	2115	2066	2066
	C	334	378	378	378	378	588	682	682	682	682	742	742
	D	295	315	340	365	365	390	440	440	440	440	470	470
	E	30	45	40	45	45	38	28	33	28	28	30	30
	F	777	789	635	635	665	727.5	869	869	872	872	914	1020
	G	266	302	302	302	302	318	412	412	412	412	534	542
	H	258	269	269	269	269	278	280	272	274	274	278	278
	J	906	1114	1126	1126	1126	1202	1256	1256	1256	1256	1256	1256
	K	553	713	713	713	713	765	780	780	780	780	780	780
L	AS G	AS G	AS G	AS G	AS G	AS G	AS G	AS G	AS G	AS G	AS G	AS G	AS G
M	196	194	240.5	240.5	240.5	242.5	253	253	253	253	253	253	
N	218	205	205	205	205	205	225	220	215	220	220	220	
O	327	362	410	410	410	462	512	512	512	512	554	554	
Turndown - Natural Gas Firing		8:1	8:1	8:1	8:1	8:1	8:1	8:1	8:1	8:1	8:1	8:1	8:1
Turndown - Distillate Oil Firing		5:1	5:1	5:1	5:1	5:1	5:1	5:1	5:1	n/a	n/a	n/a	n/a
Anticipated NOx Natural Gas (NON FGR)	mg/Nm ³	50-80	50-80	50-80	50-80	50-80	50-80	50-80	50-80	50-80	50-80	50-80	50-80
Anticipated NOx Distillate Oil (NON FGR)	mg/Nm ³	<200	<200	<200	<200	<200	<200	<200	<200	n/a	n/a	n/a	n/a

Information based on standard test application in test conditions and may vary depending on your application. Please contact us to discuss any specific requirements or bespoke applications that are not illustrated above.

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