

NEW

NXR3i

Floor Standing Cast Iron Section Pressure Jet Boiler
105 to 330kW Output



Working towards
a cleaner future

POTTERTON
COMMERCIAL
heating specialists

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Floor Standing Cast Iron Section Pressure Jet Boiler
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The Potterton Commercial NXR3i range of cast-iron forced draught boilers represent the latest continuing development of this type of technology. This is due to the reliability of the proven heat-exchanger design, burner matching options and is backed by the extended warranty*.

Standard NXR3i Features

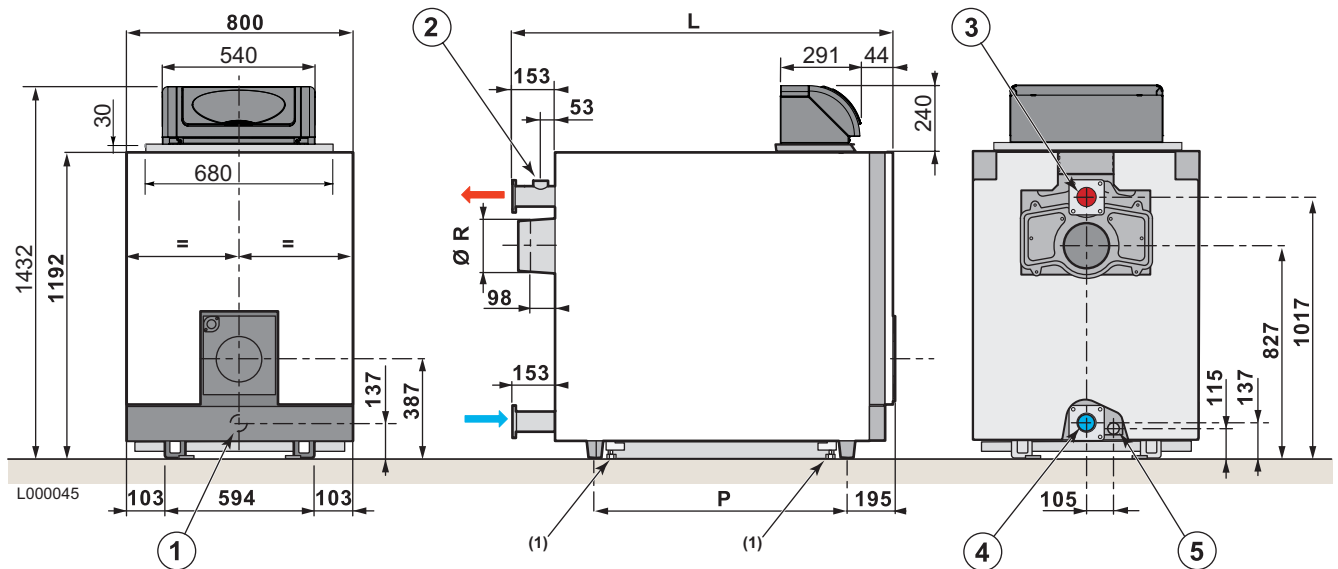
- Cast iron sectional design
- Exceptionally robust
- Integrated control panel
- 10 year warranty*
- Optional controllers available for DHW, weather compensation and cascade
- Commissioning and erection services available

The NXR3i range offers both the specifier and end user peace of mind. The output kW offers flexibility in existing boiler house installations to meet the needs of the modern building services engineer's refurbishment requirements.

With its specially designed heat-exchanger which incorporates multiple flue-ways and fins to increase the surface area, it means that the NXR3i provides boiler efficiencies in line with Part L2 of the Building Regulations 2010. The large chamber capacity ensures environmentally sound combustion, reducing CO and NO_x emissions. With a choice of matched burners available on Natural Gas, LPG, Oil and Dual Fuel options, the NXR3i gives the engineer useable options.

* terms and conditions apply





- ① Sludge removal hole Rp 2½" (plugged)
- ② Rp 1" ½ socket for the safety control unit
- ③ Heating flow (Flange + Counter flange with collar to be welded) orifice Ø 2½" (Option: Ø 2")
- ④ Heating return (Flange + Counter flange with collar to be welded) orifice Ø 2½" (Option: Ø 2")
- ⑤ Rp 1½" draining outlet (plugged)
Tapped connection
- (1) Adjustable feet: Basic dimension 0 mm, adjustment possible: 0 to 40 mm

Boiler Type	NXR3i-4	NXR3i-5	NXR3i-6	NXR3i-7	NXR3i-8	NXR3i-9
Overall Length L (mm)	991	1151	1311	1471	1631	1791
Base Length P (mm)	490	650	810	970	1130	1290
Flue R (mm)	180	180	180	200	200	200

Range Benefits

- Cast iron sectional boiler
- Gross Efficiency (Part L2 – 2010) Gas – 82% Oil – 85%
- Oil, Natural Gas, LPG and Dual Fuel Option
- High/Low and Fully Modulating matched burner options
- Integrated control panel including: VFCs, high limit thermostat, control thermostat, boiler thermometer and external BEMS interlock

Options

- Flue gas thermometer**
- Hours run meters**
- Optional controllers available for DHW, weather compensation and cascade
- Erection and commissioning services
- 10 year extended warranty on the heat exchanger*

* Terms and conditions apply

** Contact sales department for details

Specification

Boiler Type		NXR3i – 4	NXR3i – 5	NXR3i – 6	NXR3i – 7	NXR3i – 8	NXR3i – 9
Output 80/60°C Min – Max	kW	100	140	180	230	280	330
Input	kW	117	156	199	253	309	361
Net Efficiency @ 80/60°C	%	90%	90%	90%	91%	91%	91%
Energy Consumption (Nat Gas)	m ³ /h	12.14	16.18	20.64	26.25	32.06	37.45
Energy Consumption (Oil)	kg/hr	12.25	16.34	20.84	26.49	32.36	37.80
Inlet Gas Pressure	mbar				*		
Flue Gas Volume – Gas	kg/h	187	250	321	410	499	588
Flue Gas Volume – Oil	kg/h	178	238	306	391	475	560
Max Flue Gas Pressure @ Outlet	mbar				0**		
Water Flow Rate @ 10°C ΔT	m ³ /h	9.03	12.04	15.48	19.78	24.08	28.37
Water Flow Rate @ 20°C ΔT	m ³ /h	4.51	6.02	7.74	9.89	12.04	14.19
Hydraulic Resistance @ 10°C ΔT	mbar	11	18	31	46	68	105
Hydraulic Resistance @ 20°C ΔT	mbar	2.6	4.2	8	11	17	26
Max Operating Pressure	bar				6 bar		
Min Operating Pressure	bar				1 bar		
Maximum Flow Temperature	°C				90		
Nox Level (Dry @ 0% O ₂)	mg/kWh				*		
High Level Ventilation (BS 6644) #	cm ²	468	624	796	1012	1236	1444
Low Level Ventilation (BS 6644) #	cm ²	234	312	398	506	618	722
Flow & Return Connection Size	mm				2½"		
Flow & Return Connection Type					Welded		
Gas Connection Size – Nominal	inch				*		
Gas Connection Type					*		
Flue Connection Size	mm		1800			2000	
CO ₂ Content – Natural Gas	%				9.5		
CO ₂ Content – Oil	%				13.5		
Flue Gas Temperatures @ 80/60°C	°C				210		
Electrical Connection	V/Hz				220/240v – 50Hz – Refer to manufacturer for burner details		
Power Consumption	W				2 amp max burner – Refer to manufacturer for burner details 1 amp 230 volt 50hz max pump control output		
Dimension W x D x H (excluding burner)	mm	800 x 991 x 1432	800 x 1151 x 1432	800 x 1311 x 1432	800 x 1471 x 1432	800 x 1631 x 1432	800 x 1791 x 1432
Water Content	litres	96	116	136	156	176	196
Dry Weight	kg	612	736	846	981	1103	1230
Section Dimension	mm	Front – 1070 x 620 x 170, Inter – 990 x 600 x 165 and Rear – 1070 x 600 x 190					
Section Weight	kg	Front – 105, Inter – 111 and Rear – 130					

* Depends on burner selection

** The pressure at the flue outlet must not exceed 0 mbar

Guidance only: refer to BS6644 for further information

