Tudor NHREC



- Condensing unit ideal for new build
- Extremely low emissions and low noise
- Energy efficiency class: A
- Gross thermal efficiency up to 96%
- Output 18 to 61 kW
- Up to 350 litres storage capacity
- Continuous DHW delivery of 1196 litres/hour

Tudor NHREC – Perfect for medium to large commercial applications

High efficiency appliance

Utilising the condensing feature of the appliance provides a highly efficient unit.

Low NOx emissions

Due to the design of the burner and coil, the unit has a low NOx rating.

Unique serpentine heat exchanger

Designed to provide condensation for the flue gas products and to maximise the efficiency of the heat transfer.

Secondary re-circulation

The unit has been designed to allow for secondary DHW re-circulation to reduce losses and improve efficiency

Inspection hatch

Easy access to the base of the cylinder through the inspection hatch for yearly maintenance.

Compact clearances

Only 500mm clearance required on top of the unit due to the construction of the magnesium anodes comprising 3 segments.



Excellent DHW delivery

Due to the fast heating burner design the unit is able to provide a fast recovery period.

Dual cylinder protection

Protection of the cylinder via the electrical PRO Tech Anode System and the Magnesium Anodes factory fitted as standard.

Extensive integral controls

Control interface provides simple access to programming functions such as integral time control, frost protection and Anti-Legionella sterilization process.

Easy to maintain

Designed with the contractor in mind, the burner is easily removable for yearly inspection and maintenance.

Easy to transport

Specialist designed metal base made with the contractor in mind for ease of transport throughout site. Easily removable with just a few bolts.



ltem No.	Description			
1	Gas Inlet 3/4"			
2	Pre-mix combustion system			
3	LCD control interface			
4	Stainless steel concentric flue 100/150 2 magnesium anodes 3/4"			
5				
6	Hot water outlet 1"			
7	Cold water outlet 1" Drain 3/4"			
8				

Tudor NHREC	20	40	65
A (mm)	1396	1711	1968

Technical data -Tudor NHREC

	Tudor NHREC		20	40	65
Performance	Storage capacity	litres	213	269	350
	Continuous delivery @ 44°C ∆T	litres/hour	362	733	1196
	First hour delivery @ 44°C Δ T	litres	575	1002	1546
	Continuous delivery @ 50°C ∆T	litres/hour	319	645	1052
	First hour delivery @ 50°C ∆T	litres	532	914	1402
	Continuous delivery @ 56°C ∆T	litres/hour	284	576	939
	First hour delivery @ 56°C Δ T	litres	497	845	1289
	Operating pressure secondary (min/max)	bar	1/7	1/7	1/7
	Erp load profile		XXL	XXL	XXL
Energy	Gross thermal efficiency	%	91.6	92.5	96
	Erp efficiency class		А	А	А
	Storage recovery time ∆T 44°C	minutes	36	22	18
	Storage recovery time ∆T 50°C	minutes	40	25	20
	Storage recovery time ∆T 56°C	minutes	45	28	23
	Standby losses	kW/24hr	4	4	4
Natural Gas	Gross input - maximum	kW	20.2	40.5	63.7
	Net input - maximum	kW	18.2	36.5	57.4
	Output to water - maximum	kW	18.55	37.51	61.2
	Gas inlet pressure - nominal	mbar	20	20	20
	Gas flow rate @ 1013mbar & 15°C	m³/h	1.9	3.72	6.2
PG	LPG inlet pressure - nominal (mjn/max)	mbar	31/37	31/37	31/37
	LPG flow rate @ 1013mbar & 15°C	kg/h	1.5	2.8	4.6
Flue	Approximate flue gas volume (maximum output)	m³/h	32.4	64.8	104.4
	Flue gas temperature (maximum output)	°C	52	53	60
	NOx emissions (BS EN 15502)	mg/kWh	21.2	54.1	49
Electrical	Recommended electrical protection	Amps	5	5	5
	Full load run current	Amps	0.5	0.6	1.1
	Electrical supply	V/Hz	230/50	230/50	230/50
	Voltage tolerance Volts/Hz	%V/%Hz		+10-6/+-1	
	PROtech anode included	yes/no	yes	yes	yes
Misc	Sound power (Lwa) indoors	dB(A)	57	57	57
	Number of anodes		2	2	2
	Weight empty/full	kg	169/371	244/513	280/660
	Approximate shipping weight	kg	184	259	295

Note: Tudor NHREC can be either Natural Gas or LPG



Examples of hydraulic schemes -Tudor NHREC



These illustrations are designed to provide general guidance on the hydraulic scheme and should not be considered as an installation drawing.