NO_x Class

Pressures

Safety Discharge

Max Operating

Min Operating

DHW Circuit Pressures Max Operating Min Operating

Duo-tec Combi 24, 28, 33 & 40 HE A

Central Heating Primary Circuit

Recommended Operating Range

bar

3

2.5

0.5

1-2

0.15

Appliance Type	e C ₁₃	C ₃₃	C ₅₃
Appliance Cate	egory	CATI ₂	Н
Heat Input CH	(Net)	Max	Min
24 model	kW	20.5	7
28 model	kW	24.7	9
33 model	kW	28.9	9.7
10 model	kW	32.8	9.9
Heat Input CH	(Gross)	Max	Min
24 model	kW	22.7	7.8
28 model	kW	27.4	10
3 model	kW	32.1	10.8
0 model	kW	36.4	11
Heat Output C	H (Non-Co	ondensing)	
		Max	Min
24 model	kW	20	6.8
28 model	kW	24	8.7
33 model	kW	28	9.4
0 model	kW	32	9.6
eat Output C	H (Conden		
4 model	kW	Max	Min
8 model	kW	21 25.9	7.4 9.5
3 model	kW		
) model	kW	30.3	10.2
		34.4	12.1
eat Input DH		Max	
4 model 8 model	kW	24.7	
	kW	28.9	
3 model	kW	34	
) model	kW	41.2	
eat Input DH		Max	
4 model	kW	27.4	
8 model	kW	32.1	
3 model	kW	37.7	
) model	kW	45.7	
eat Output D		Max	
4 model	kW	24	
8 model	kW	28	
3 model	kW	33	
0 model	kW	40	
lax Gas Rate	(Natural C	Gas - G20)	
	(After 10	mins)	
1 model	m³/h	2.61	
3 model	m³/h	3.1	
3 model	m³/h	3.6	
) model	m³/h	4.36	

SEDBUK Declaration
The efficiency for all models is 91.1%
value is used in the UK Government's Standard
essment Procedure (SAP) for energy rating of

dwellings. The test data from which it has been calculated has been certified by 0087.

NOTE: All data in this section are nominal values and subject to normal production tolerances.

	20	
Injector (Natural C		2.0.40)
	28) 12mm (3	
Electrical Supply	2	30V~ 50H _z
earthed supp	nust be connect	ted to an
car a red supp	'7)	
Power Consumpt		
	8) 160W (33	& 40)
Electrical Protecti		
	IPX0D (wit	
_	The state of the s	hout timer)
External Fuse Rati	ng 3	A
Internal Fuse Ratir	ng F.	2L
Condensate Drain		
To accept 21.5mm	(³/4 in) plastic	waste pipe
Flue Terminal	Diameter	100mm
Dimensions	Projection	I25mm
Connections		copper tails
Gas Supply		22mm
Central Heating Flo		22mm
Central Heating Re		22mm
Cold Water Mains		15mm
DHW Flow	-	15mm
Pressure Relief Disc	charge -	15mm
Outercase Dimens	ions	
Casing Height		- 780mm
Overall Height Inc I	Flue Elbow	- 965mm
Casing Width		- 450mm
Casing Depth		- 345mm
Clearances		
Above Casing	200 mm Mir	i i
Below Casing	150 mm Mir	1*
ront		(For Servicing)
ront	5 mm Min (I	n Operation)
H. Side	5 mm Min	
	5 mm Min (li	
R.H. Side		
R.H. Side This is MINIMUM reco learance will aid install	ommended dime	ension. Greater

Packaged Boiler Carton

Installation Lift Weight

Packaged Boiler Carton

Installation Lift Weight

Packaged Boiler Carton

Installation Lift Weight

48.6 kg

43.6 kg

49.2 kg

44.2 kg

51kg

46kg

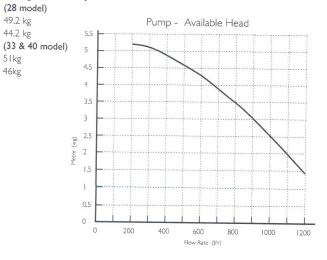
(28 model)

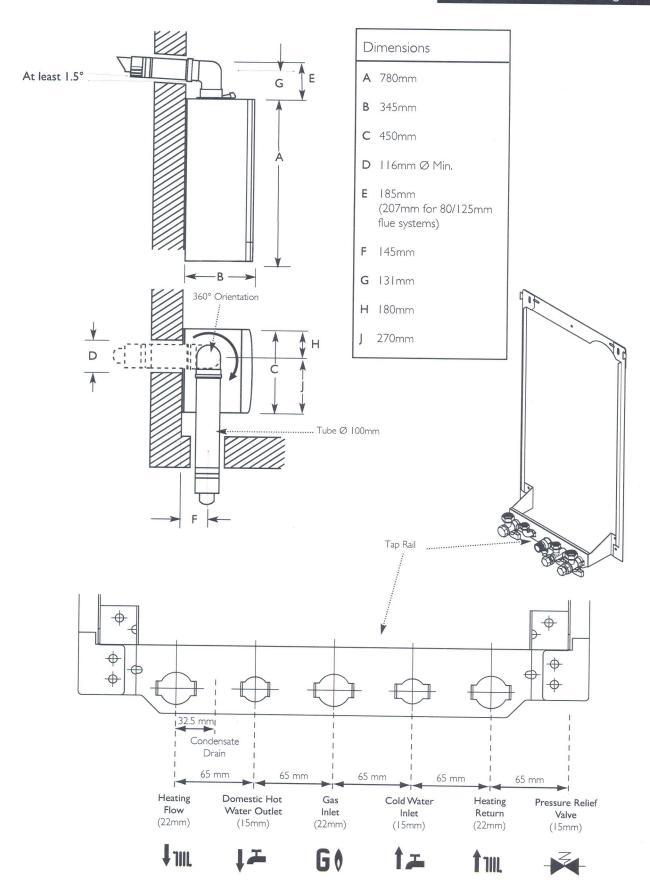
Flow Rates	(24)	(28)	(33)	(40)
	l/min	I/min	I/min	I/mir
DHW Flow Rate				
@ 30° C Rise	11.43	13.3	15.7	19.1
DHW Flow Rate				
@ 35° C Rise	9.8	11.5	13.5	16,4
Min Working				
DHW Flow Rate	2	2	2	2
intended to be used strongly recommend NOT fall below 2.51/r	ed that th min. This	ie DHW will ensu	/flow ra	te DC
operation of the DH'	W function	on.		
	W function	on,		
Pump			ow.	
Pump Available Head	See gra	aph belo		
Pump Available Head Expansion Vessel	See gra	aph belo		ng only
Pump Available Head Expansion Vessel	See gra	aph belo		ng only
Pump Available Head Expansion Vessel Integral with applian	See gra - (For ce)	aph belo		ng only
Pump Available Head Expansion Vessel Integral with applian	See gra - (For ce)	Central bar 0.5	l Heatir	0
Pump Available Head Expansion Vessel Integral with applian	See gra - (For ce)	Central bar 0.5	Heatin	3 & 40
Pump Available Head Expansion Vessel Integral with applian Min Pre-charge Pres	See gra - (For ce)	Central bar 0.5	l Heatir	3 & 40
Pump Available Head Expansion Vessel Integral with applian Min Pre-charge Pres	See gra - (For ce)	Central bar 0.5	Heatin	3 & 40 e
Pump Available Head Expansion Vessel Integral with applian Min Pre-charge Pres Max Capacity of CH System	See gra - (For ce)	paph belo Central bar 0.5 24 & 28 litre	Heating (33)	3 & 40 e
Pump Available Head Expansion Vessel Integral with applian Min Pre-charge Pres	See gra- (For ce) sure (1)	paph belo Central bar 0.5 24 & 28 litre	Heating (33)	3 & 40 e

C.H. Flow Temp (adjustable)

25°C to 80°C max (± 5°C)

D.H.W. Flow Temp (adjustable) 35°C to 60°C max (± 5°C) dependent upon flow rate





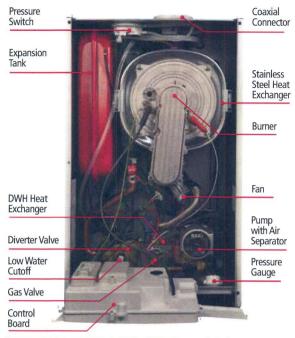
Introducing The New Standard of High Efficiency Wallhung Boilers





- 7:1 modulation ratio promotes savings in fuel use and utility bills
- Gas-adaptive control enables precise setup and commissioning
- Self-calibration function ensures continuous optimum combustion

Built-In Value Added



Baxi Luna Duo-Tec is a high efficiency modulating, condensing wallhung boiler with multiple built-in safety and performance enhancing components.

- 7:1 turndown ratio enhances versatility and optimal efficiency.
- Automatic gas-adaptive and self-calibrating functions enhance combustion efficiency and lower fuel bills.
- Two-speed modulating pump with built-in air vent generates up to 40% reduction in electrical use annually.
- Stainless steel ANSI 316L pre-mixed burner and heat exchanger (which comes with a 10-year warranty) assures longevity.
- ◆ Enhanced stainless steel secondary heat exchanger delivers domestic hot water.
- Controller with large backlit digital display on front of boiler makes it easy to set up and service.
- ◆ Pre-heat function helps eliminate cold water sandwich.
- Ability to accept preheated solar water.
- Frost protection, as well as pump and diverter valve seize prevention.
- Approved for closet installation, saving valuable living space.
- Ask a Baxi certified contractor about other built-in performance and safety features including high limit sensors, low water cut-off, shut off valves, pressure relief valve, system pressure gauge, expansion tank and auto bypass.

			Baxi Luna Duo-Teo	Residential Models	Baxi L	una Commercial	Models
Baxi Luna High Efficiency Technical Notes		40 GA	1.33 GA	HT 1.45	HT 1.65	HT 1.100	
Rated heat input		BTU/hr	125,908	125,908	167,262	241,600	379,127
Reduced heat input		BTU/hr	21,838	21,838	55,681	73,361	112,980
Rated heat output		BTU/hr	112,601	112,601	153,456	221,789	348,039
Reduced heat output		BTU/hr	19,108	19,108	52,058	69,326	106,766
Rated Domestic input		BTU/hr	153,864	n/a	n/a	n/a	n/a
Reduced Domestic input		BTU/hr	21,838	n/a	n/a	n/a	n/a
Rated Domestic output		BTU/hr	136,486	n/a	n/a	n/a	n/a
Reduced Domestic output		BTU/hr	19,108	n/a	n/a	n/a	n/a
Sealed combustion chambe	r		Yes	Yes	Yes	Yes	Yes
Ignition			Electronic	Electronic	Electronic	Electronic	Electronic
Freeze Protection Safety Device			Yes	Yes	Yes	Yes	Yes
Maximum pressure on heati	ing circuit	psi	30	30	30	30	30
Regulation of heating	- high temp	°F/°C	176/80	176/80	176/80	176/80	176/80
circuit water temperature	- low temp	°F/°C	77/25	77/25	77/25	77/25	77/25
Dimensions:	Height	in	30	30	37 13/32	37 13/32	37 13/32
	Width	in	17 23/32	17 23/32	23 5/8	23 5/8	23 5/8
	Depth	in	13 ¹⁹ / ₃₂	13 19/32	18 ²³ / ₆₄	18 ²³ / ₆₄	25 ⁵ / ₈
Coaxial Vent Diameter		in mm	2 ³ /8 - 3 ¹⁵ / ₁₆ 60-100	2 ³ /8 - 3 ¹⁵ / ₁₆ 60-100	3 ⁵ / ₃₂ - 4 ¹⁵ / ₁₆ 80-125	3 ⁵ / ₃₂ - 4 ¹⁵ / ₁₆ 80-125	4 ¹¹ / ₃₂ - 6 ⁵ / ₈ 110-160
Dual Flue Vent Diameter		in mm	3 5/32 80	3 5/32 80	3 5/32 80	3 5/32 80	4 11/32 110
Net weight		lbs	102	102	141	158	215
Gas type			NG/LPG	NG/LPG	NG/LPG	NG/LPG	NG/LPG



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Baxi is ISO 9001 certified for quality management, OHSAS 18001 for health and safety management and ISO 14001 for environmental management.

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