ROC

Specialize In Heating Appliances Since 1995

Product Manual

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ROC

Found in 1995 and focus on wall mounted gas boiler ever since.

The producer of FIRST WALL MOUNTED BOILER in China.

Serve over 3 Millio families worldwide.

Largest manufacturer of wall mounted gas boiler in China.

Automatic assembling lines with 50000 square meters.

Maximum capacity as 50000 units/ year.

Sophisticated workers who have average 10 YEARS working experience in heating field.

With multiple PATENTS, includes INVENT PATENTS in China and Europe.

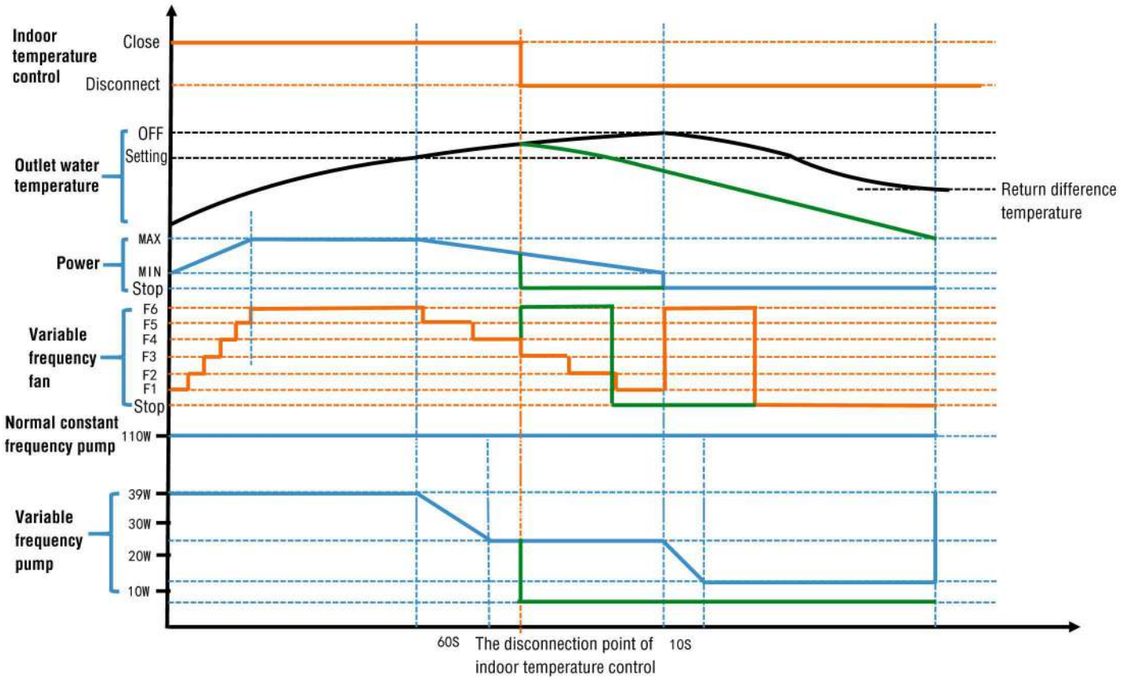
OEM producers of top 500 companies.

Factory with global certifications: ISO 9001, ISO 14001, ISO 45001, CE, 3C, EAC, WRAS……

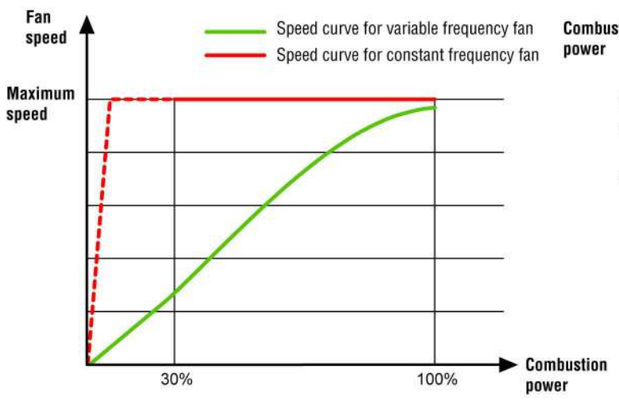
Modern workshop

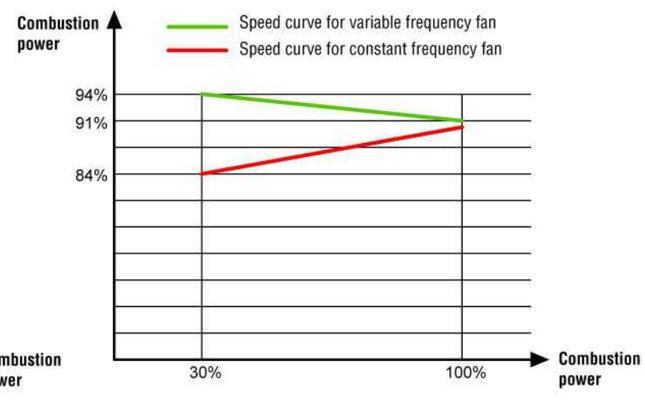
New designed modern production line which is superior in strength

Energy saving principle of Two-stage energy efficiency dual frequency conversion wall mounted gas boiler



- The normal constant frequency fan always keeps constantspeed, it cannot achieve reasonable mixing of air volume and gas, so the combustion efficiency is low and flue emission index is poor. The power consumption for constant frequency fan is 35W, and the power consumption for constant frequency pump is 110W.
- With the size of combustion power(gas flow volume), the variable frequency fan can adjust its rotating speed ,air volume, and achieve reasonable mixing of air volume and gas, increase combustion efficiency greatly,and decrease flue emission index well. The variable fan can save electricity up to 50% comparing with constant frequency fan. The variable frequency pump can save electricity up to 83% compared with constant frequency pump.





What canthe energy saving of variable frequency pump bring to the end user?

Taking the 6m pump widely used in the wall mounted gas boiler for example:

- Constant frequency pump:6m Maximum power 110W
- Variable frequency pump:6m Maximum power 39W
- One heating season: 4 months, 30days for each month, it runs 24 hours a day
- The energy consumption calculates percentage of flow volume and time as per pump's EEI index in the European ERP directive
- Electricity price is calculated by RMB0.53 /kwh.

Only considering heating function, the part of domestic hot water is not calculated.

Scheme one: Constant frequency pump

- The pump speed cannot be adjusted, it operates at maximum power(speed)

Scheme two: Variable frequency pump

- The pump speed is changed according to the load change.

Flow volume %	Time %
100	6
75	15
50	35
25	44

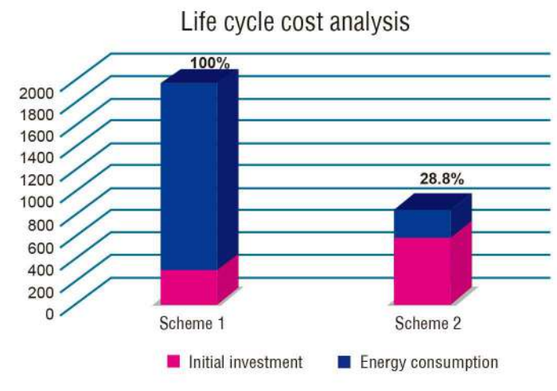
Flow volume and time percentage calculated by EEI index in the European ERP directive

Electricity charges analysis for one heating season

EEI index			6M (Constant frequency) Scheme 1		6M (Variable frequency) Scheme 2	
Flow volume %	Time %	One heating season(hours)	Power(W)	Total energy consumption (W)	Power(W)	Total energy consumption (W)
100	6	173	110	19,008	39	6,739
75	15	432	110	47,520	29	12,636
50	35	1,008	110	110,880	20	19,656
25	44	1,267	110	139,392	10	12,355
Total	100	2,880		316,800		51,386
Electricity charges (0.53/kwh)				168		27
Energy saving						83.8%

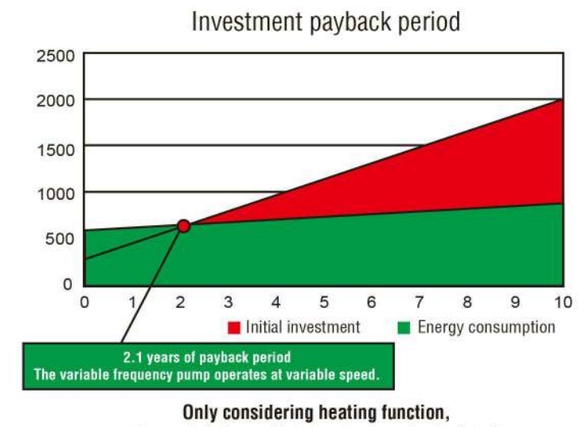
Single family can save maximum RMB141 in one heating season.

Pump life cost analysis -pump operates for 10 years



Only considering heating function, the part of domestic hot water is not calculated.

Investment payback period -pump operates for 10 years



Only considering heating function, the part of domestic hot water is not calculated.

- **Small and mini size, ingenuity and wisdom.**
- **Frequency conversion technology, gas and electricity saving.**
- **Dynamic temperature display, easy to operate**

Mini series

Mini series

Technical data

		L1PB12-X6	L1PB16-X6	L1PB20-X6	L1PB26-X6
Power					
Max heating rated heat load	kW	12.2	16.7	20.0	26.4
Min heating rated heat load	kW	3.7	5.0	7.0	9.2
Max heating rated heat output	kW	11.0	15.0	18.0	23.6
Min heating rated heat output	kW	3.2	4.4	6.0	7.6
Domestic hot water rated heat load	kW	12.2	16.7	20.0	26.4
Efficiency					
Energy efficiency rate	-	Class 2	Class 2	Class 2	Class 2
Technical data					
Gas consumption of heating capacity(NG)	m^3/h	1.29	1.76	2.12	2.79
Anti-freeze system start temperature	℃	5	5	5	5
Min hot water output capacity	kg/min	2.5	2.5	2.5	2.5
Max water pressure of heating system	MPa	0.3	0.3	0.3	0.3
Water pressure of domestic hot water	MPa	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8
Expansion tank capacity	L	5	5	5	6
Preset pressure of expansion tank	MPa	0.1	0.1	0.1	0.1
Rated gas pressure (NG)	kPa	2.0	2.0	2.0	2.0
Gas pressure range (NG)	kPa	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0
Performance					
Heating temperature setting range	℃	30~80	30~80	30~80	30~80
Domestic hot water temperature setting range	℃	30~60	30~60	30~60	30~60
Hot water production capacity (△t=25K)	kg/min	6.3	8.6	10.2	13.4
Hot water production capacity (△t=30K)	kg/min	5.3	7.2	8.3	10.8
Circuit part					
Rated power capacity	W	80/100	80/100	80/100	100/120
Electrical power supply voltage	-	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz
Electric shock protection type	-	Class I	Class I	Class I	Class I
Degree Of protection Against Humidity	-	IPX4D	IPX4D	IPX4D	IPX4D
External dimensions	mm	(L)400X(W)250X(H)660			

Note: All above specification is for reference only, apply base on product itself.

Dazzle series

Full premixed condensing gas boiler

Intelligent remote control, free of mind

Condensing technology, low-carbon future

5 NOx

NOx emissions is low as class 5

Gas saving, Electricity saving

107%

Heat efficiency is up to 107%

IPX5D

Degree Of protection Against Humidity as IPX5D

- **Full premixed condensing technology, gas and air are fully mixed to achieve 100% combustion, heat efficiency is up to 107%, national class 1 energy efficiency.**
- **Low emission of NOx and CO, no pollution to the environment, effective prevention of haze, low carbon and environmental friendly.**
- **Large colorful screen display, touch control, simple and easy.**
- **Wi-Fi Remote control, easy operation, intelligent heating mode.**

ISO 9001 ISO 14001 ISO 45001

Dazzle series

Technical data

		LL1GBQ24-B26CE LN1GBQ24-B26CE	LL1GBQ28-B30CE LN1GBQ28-B30CE	LL1GBQ32-B34CE LN1GBQ32-B34CE	LL1GBQ35-B37CE LN1GBQ35-B37CE
Power					
Max heating rated heat load	kW	24.4	28.4	32.2	35.0
Min heating rated heat load	kW	5.0	5.5	5.6	5.8
Heating rated condensing heat output(50℃/30℃)	kW	26.0	30.0	34.0	37.0
Max heating rated heat output(80℃/60℃)	kW	24.0	28.0	31.0	33.6
Min heating rated heat output(80℃/60℃)	kW	5.0	5.3	5.3	5.6
Heating Min condensing heat output(50℃/30℃)	kW	5.0	5.8	5.8	6.2
Domestic hot water rated heat load	kW	24.4	28.4	32.2	35.0
Efficiency					
Energy efficiency rate	-	Class 1	Class 1	Class 1	Class 1
Rated heat efficiency(80℃/60℃)	%	98	99	99	99
Rated heat efficiency(50℃/30℃)	%	107	107	107	107
Heat efficiency at 30% power	%	107	107	107	107
Technical data					
Gas consumption of heating capacity(NG)	m^3/h	2.6	3.0	3.4	3.7
Anti-freeze system start temperature	℃	5	5	5	5
Min hot water output capacity	kg/min	2.5	2.5	2.5	2.5
Max water pressure of heating system	MPa	0.3	0.3	0.3	0.3
Water pressure of domestic hot water	MPa	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8
Expansion tank capacity	L	6.5	8	8	8
Preset pressure of expansion tank	MPa	0.1	0.1	0.1	0.1
Rated gas pressure (NG)	kPa	2.0	2.0	2.0	2.0
Gas pressure range (NG)	kPa	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0
Performance					
Heating temperature setting range	℃	30~80	30~80	30~80	30~80
Domestic hot water temperature setting range	℃	30~60	30~60	30~60	30~60
Hot water production capacity (△t=25K)	kg/min	13.4	15.6	17.7	19.2
Hot water production capacity (△t=30K)	kg/min	11.2	13.2	14.6	16.0
Circuit part					
Rated power capacity	W	110/130	120/130	130/150	130/150
Electrical power supply voltage	-	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz
Electric shock protection type	-	Class I	Class I	Class I	Class I
Degree Of protection Against Humidity	-	IPX5D	IPX5D	IPX5D	IPX5D
NOx emission grade	-	Class 5	Class 5	Class 5	Class 5
External dimensions	mm	(L)420X(W)345X(H)720		(L)420X(W)400X(H)720	

Note: LN is heating only, which without DHW , please ignore the DHW data with LN model.

Note: All above specification is for reference only, apply base on product itself.

W

Prince series

Full premixed condensing gas boiler

Intelligent remote control, free of mind

Condensing technology, low-carbon future

5 NOx — NOx emissions is low as class 5

Gas saving, Electricity saving

107% — Heat efficiency is up to 107%

IPX5D — Degree Of protection Against Humidity as IPX5D

- **Full premixed condensing technology, gas and air are fully mixed to achieve 100% combustion, heat efficiency is up to 107%, national class 1 energy efficiency.**
- **Low emission of NOx and CO, no pollution to the environment, effective prevention of haze, low carbon and environmental friendly.**
- **Large colorful screen display, push-button control, simple and easy.**
- **Wi-Fi Remote control, easy operation, intelligent heating mode.**

Prince series

Technical data

		LL1GBQ24-B26CW LN1GBQ24-B26CW	LL1GBQ28-B30CW LN1GBQ28-B30CW	LL1GBQ32-B34CW LN1GBQ32-B34CW	LL1GBQ35-B37CW LN1GBQ35-B37CW
Power					
Max heating rated heat load	kW	24.4	28.4	32.2	35.0
Min heating rated heat load	kW	5.0	5.5	5.6	5.8
Heating rated condensing heat output(50℃/30℃)	kW	26.0	30.0	34.0	37.0
Max heating rated heat output(80℃/60℃)	kW	24.0	28.0	31.0	33.6
Min heating rated heat output(80℃/60℃)	kW	5.0	5.3	5.3	5.6
Heating Min condensing heat output(50℃/30℃)	kW	5.0	5.8	5.8	6.2
Domestic hot water rated heat load	kW	24.4	28.4	32.2	35.0
Efficiency					
Energy efficiency rate	-	Class 1	Class 1	Class 1	Class 1
Rated heat efficiency(80℃/60℃)	%	98	99	99	99
Rated heat efficiency(50℃/30℃)	%	107	107	107	107
Heat efficiency at 30% power	%	107	107	107	107
Technical data					
Gas consumption of heating capacity(NG)	m^3/h	2.6	3.0	3.4	3.7
Anti-freeze system start temperature	℃	5	5	5	5
Min hot water output capacity	kg/min	2.5	2.5	2.5	2.5
Max water pressure of heating system	MPa	0.3	0.3	0.3	0.3
Water pressure of domestic hot water	MPa	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8
Expansion tank capacity	L	6.5	8	8	8
Preset pressure of expansion tank	MPa	0.1	0.1	0.1	0.1
Rated gas pressure (NG)	kPa	2.0	2.0	2.0	2.0
Gas pressure range (NG)	kPa	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0
Performance					
Heating temperature setting range	℃	30~80	30~80	30~80	30~80
Domestic hot water temperature setting range	℃	30~60	30~60	30~60	30~60
Hot water production capacity (△t=25K)	kg/min	13.4	15.6	17.7	19.2
Hot water production capacity (△t=30K)	kg/min	11.2	13.2	14.6	16.0
Circuit part					
Rated power capacity	W	110/130	120/130	130/150	130/150
Electrical power supply voltage	-	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz
Electric shock protection type	-	Class I	Class I	Class I	Class I
Degree Of protection Against Humidity	-	IPX5D	IPX5D	IPX5D	IPX5D
NOx emission grade	-	Class 5	Class 5	Class 5	Class 5
External dimensions	mm	(L)420X(W)350X(H)720		(L)420X(W)405X(H)720	

Note: LN is heating only, which without DHW , please ignore the DHW data with LN model.

Note: All above specification is for reference only, apply base on product itself.

A series
Gas boiler

- **High efficiency, Effective technology.**
- **Simple touch screen control, easy operation.**
- **ECO mode, energy saving.**
- **Wi-Fi Remote control, free of mind.**

A series

Technical data

		L1PB20-A6	L1PB26-A6	L1PB32-A6	L1PB36-A6	L1PB40-A6
Power						
Max heating rated heat load	kW	20.0	26.4	31.5	36.0	40.0
Min heating rated heat load	kW	7.0	9.2	11.0	12.6	14.0
Max heating rated heat output	kW	18.0	23.6	28.0	32.0	35.6
Min heating rated heat output	kW	6.0	7.6	9.2	10.6	11.6
Domestic hot water rated heat load	kW	20.0	26.4	31.5	36.0	40.0
Efficiency						
Energy efficiency rate	-	Class 2	Class 2	Class 2	Class 2	Class 2
Technical data						
Gas consumption of heating capacity(NG)	m^3/h	2.12	2.79	3.33	3.81	4.23
Anti-freeze system start temperature	˚C	5	5	5	5	5
Min hot water output capacity	kg/min	2.5	2.5	2.5	2.5	2.5
Max water pressure of heating system	MPa	0.3	0.3	0.3	0.3	0.3
Water pressure of domestic hot water	MPa	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8
Expansion tank capacity	L	6	6	8	8	8
Preset pressure of expansion tank	MPa	0.1	0.1	0.1	0.1	0.1
Rated gas pressure (NG)	kPa	2.0	2.0	2.0	2.0	2.0
Gas pressure range (NG)	kPa	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0
Performance						
Heating temperature setting range	˚C	30~80	30~80	30~80	30~80	30~80
Domestic hot water temperature setting range	˚C	30~60	30~60	30~60	30~60	30~60
Hot water production capacity (△t=25K)	kg/min	10.2	13.4	16.0	18.3	20.4
Hot water production capacity (△t=30K)	kg/min	8.3	10.8	13.3	14.8	16.7
Circuit part						
Rated power capacity	W	80/100	100/120	110/130	130/150	130/150
Electrical power supply voltage	-	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz
Electric shock protection type	-	Class I	Class I	Class I	Class I	Class I
Degree Of protection Against Humidity	-	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D
External dimensions	mm	(L)420X(W)320X(H)720		(L)420X(W)340X(H)720		

Note: All above specification is for reference only, apply base on product itself.

B

B series
Gas boiler

Sectionalizatio burner technology, more gas saving

- ECO mode, energy saving.
- Intelligent sectionalization burner, avoid overheat shower in summer.
- With two heat exchanger structure, higher heat exchange efficiency.
- Wi-Fi Remote control, free of mind.
- Large modernize touch screen, easy to operate.

Two heat exchange model

Intelligent sectionalization burner model

Technical data

		B series Two heat exchanger model		B series Intelligent sectionalization burner model		
		L1PB20-B6	L1PB26-B6	L1PB32-B6	L1PB36-B6	L1PB40-B6
Power						
Max heating rated heat load	kW	20.0	26.4	31.5	36.0	40.0
Min heating rated heat load	kW	7.0	9.2	11.0	12.6	14.0
Max heating rated heat output	kW	18.0	23.6	28.0	32.0	35.6
Min heating rated heat output	kW	6.0	7.6	9.2	10.6	11.6
Domestic hot water rated heat load	kW	20.0	26.4	31.5	36.0	40.0
Efficiency						
Energy efficiency rate	-	Class 2	Class 2	Class 2	Class 2	Class 2
Technical data						
Gas consumption of heating capacity(NG)	m^3/h	2.12	2.79	3.33	3.81	4.23
Anti-freeze system start temperature	℃	5	5	5	5	5
Min hot water output capacity	kg/min	2.5	2.5	2.5	2.5	2.5
Max water pressure of heating system	MPa	0.3	0.3	0.3	0.3	0.3
Water pressure of domestic hot water	MPa	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8
Expansion tank capacity	L	6	6	8	8	8
Preset pressure of expansion tank	MPa	0.1	0.1	0.1	0.1	0.1
Rated gas pressure (NG)	kPa	2.0	2.0	2.0	2.0	2.0
Gas pressure range (NG)	kPa	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0
Performance						
Heating temperature setting range	℃	30~80	30~80	30~80	30~80	30~80
Domestic hot water temperature setting range	℃	30~60	30~60	30~60	30~60	30~60
Hot water production capacity (△t=25K)	kg/min	10.2	13.4	16.0	18.3	20.4
Hot water production capacity (△t=30K)	kg/min	8.3	10.8	13.3	14.8	16.7
Circuit part						
Rated power capacity	W	80/100	100/120	110/130	130/150	130/150
Electrical power supply voltage	-	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz
Electric shock protection type	-	Class I	Class I	Class I	Class I	Class I
Degree Of protection Against Humidity	-	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D
External dimensions	mm	(L)420X(W)320X(H)720		(L)420X(W)340X(H)720		

Note: All above specification is for reference only, apply base on product itself.

D

D series
Gas boiler

Sectionalizatio burner technology, more gas saving

- **With two heat exchanger structure, higher heat exchange efficiency.**
- **Less scale, safe to use.**
- **Large fashionable touch screen, easy operation.**
- **Intelligent sectionalization burner, more energy saving.**

ISO 9001 ISO 14001 ISO 45001

Technical data

		D series Two heat exchanger model		D series Intelligent sectionalization burner model		
		L1PB20-D6	L1PB26-D6	L1PB32-D6	L1PB36-D6	L1PB40-D6
Power						
Max heating rated heat load	kW	20.0	26.4	31.5	36.0	40.0
Min heating rated heat load	kW	7.0	9.2	11.0	12.6	14.0
Max heating rated heat output	kW	18.0	23.6	28.0	32.0	35.6
Min heating rated heat output	kW	6.0	7.6	9.2	10.6	11.6
Domestic hot water rated heat load	kW	20.0	26.4	31.5	36.0	40.0
Efficiency						
Energy efficiency rate	-	Class 2	Class 2	Class 2	Class 2	Class 2
Technical data						
Gas consumption of heating capacity(NG)	m^3/h	2.12	2.79	3.33	3.81	4.23
Anti-freeze system start temperature	℃	5	5	5	5	5
Min hot water output capacity	kg/min	2.5	2.5	2.5	2.5	2.5
Max water pressure of heating system	MPa	0.3	0.3	0.3	0.3	0.3
Water pressure of domestic hot water	MPa	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8
Expansion tank capacity	L	6	6	8	8	8
Preset pressure of expansion tank	MPa	0.1	0.1	0.1	0.1	0.1
Rated gas pressure (NG)	kPa	2.0	2.0	2.0	2.0	2.0
Gas pressure range (NG)	kPa	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0
Performance						
Heating temperature setting range	℃	30~80	30~80	30~80	30~80	30~80
Domestic hot water temperature setting range	℃	30~60	30~60	30~60	30~60	30~60
Hot water production capacity (△t=25K)	kg/min	10.2	13.4	16.0	18.3	20.4
Hot water production capacity (△t=30K)	kg/min	8.3	10.8	13.3	14.8	16.7
Circuit part						
Rated power capacity	W	80/100	100/120	110/130	130/150	130/150
Electrical power supply voltage	-	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz
Electric shock protection type	-	Class I	Class I	Class I	Class I	Class I
Degree Of protection Against Humidity	-	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D
External dimensions	mm	(L)420X(W)320X(H)720		(L)420X(W)340X(H)720		

Note: All above specification is for reference only, apply base on product itself.

R

Ruby series
Gas boiler

- **Classic button design, easy to operate.**
- **Multiple security protection, safe and secure.**
- **Dynamic temperature display, easy to operate.**

本组织已通过质量、环境、职业健康体系认证

Ruby series

Technical data

		L1PB20-R6	L1PB26-R6	L1PB32-R6	L1PB36-R6	L1PB40-R6
Power						
Max heating rated heat load	kW	20.0	26.4	31.5	36.0	40.0
Min heating rated heat load	kW	7.0	9.2	11.0	12.6	14.0
Max heating rated heat output	kW	18.0	23.6	28.0	32.0	35.6
Min heating rated heat output	kW	6.0	7.6	9.2	10.6	11.6
Domestic hot water rated heat load	kW	20.0	26.4	31.5	36.0	40.0
Efficiency						
Energy efficiency rate	-	Class 2	Class 2	Class 2	Class 2	Class 2
Technical data						
Gas consumption of heating capacity(NG)	m^3/h	2.12	2.79	3.33	3.81	4.23
Anti-freeze system start temperature	℃	5	5	5	5	5
Min hot water output capacity	kg/min	2.5	2.5	2.5	2.5	2.5
Max water pressure of heating system	MPa	0.3	0.3	0.3	0.3	0.3
Water pressure of domestic hot water	MPa	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8
Expansion tank capacity	L	6	6	8	8	8
Preset pressure of expansion tank	MPa	0.1	0.1	0.1	0.1	0.1
Rated gas pressure (NG)	kPa	2.0	2.0	2.0	2.0	2.0
Gas pressure range (NG)	kPa	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0
Performance						
Heating temperature setting range	℃	30~80	30~80	30~80	30~80	30~80
Domestic hot water temperature setting range	℃	30~60	30~60	30~60	30~60	30~60
Hot water production capacity (△t=25K)	kg/min	10.2	13.4	16.0	18.3	20.4
Hot water production capacity (△t=30K)	kg/min	8.3	10.8	13.3	14.8	16.7
Circuit part						
Rated power capacity	W	80/100	100/120	110/130	130/150	130/150
Electrical power supply voltage	-	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz
Electric shock protection type	-	Class I	Class I	Class I	Class I	Class I
Degree Of protection Against Humidity	-	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D
External dimensions	mm	(L)420X(W)320X(H)720		(L)420X(W)340X(H)720		

Note: All above specification is for reference only, apply base on product itself.

E

Euro star series
Gas boiler

- **Classic button design, easy to operate.**
- **Multiple security protection, safe and secure.**
- **Dynamic temperature display, easy to operate.**

本组织已通过质量、环境、职业健康体系认证

Euro star series

Technical data

		L1PB20-E6	L1PB26-E6	L1PB32-E6	L1PB36-E6	L1PB40-E6
Power						
Max heating rated heat load	kW	20.0	26.4	31.5	36.0	40.0
Min heating rated heat load	kW	7.0	9.2	11.0	12.6	14.0
Max heating rated heat output	kW	18.0	23.6	28.0	32.0	35.6
Min heating rated heat output	kW	6.0	7.6	9.2	10.6	11.6
Domestic hot water rated heat load	kW	20.0	26.4	31.5	36.0	40.0
Efficiency						
Energy efficiency rate	-	Class 2	Class 2	Class 2	Class 2	Class 2
Technical data						
Gas consumption of heating capacity(NG)	m^3/h	2.12	2.79	3.33	3.81	4.23
Anti-freeze system start temperature	˚C	5	5	5	5	5
Min hot water output capacity	kg/min	2.5	2.5	2.5	2.5	2.5
Max water pressure of heating system	MPa	0.3	0.3	0.3	0.3	0.3
Water pressure of domestic hot water	MPa	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8
Expansion tank capacity	L	6	6	8	8	8
Preset pressure of expansion tank	MPa	0.1	0.1	0.1	0.1	0.1
Rated gas pressure (NG)	kPa	2.0	2.0	2.0	2.0	2.0
Gas pressure range (NG)	kPa	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0
Performance						
Heating temperature setting range	˚C	30~80	30~80	30~80	30~80	30~80
Domestic hot water temperature setting range	˚C	30~60	30~60	30~60	30~60	30~60
Hot water production capacity (△t=25K)	kg/min	10.2	13.4	16.0	18.3	20.4
Hot water production capacity (△t=30K)	kg/min	8.3	10.8	13.3	14.8	16.7
Circuit part						
Rated power capacity	W	80/100	100/120	110/130	130/150	130/150
Electrical power supply voltage	-	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz
Electric shock protection type	-	Class I	Class I	Class I	Class I	Class I
Degree Of protection Against Humidity	-	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D
External dimensions	mm	(L)420X(W)320X(H)720		(L)420X(W)340X(H)720		

Note: All above specification is for reference only, apply base on product itself.

S

S Series
Gas boiler

- **LCD press button.**
- **Claasic Design.**
- **Multiple Security Protections.**
- **DC Fan can be adapt with intense weathering, and unstable voltages.**
- **Dynamic temperature display.**

Technical data

		S Series		S Series		
		L1PB20-S6	**L1PB26-S6**	**L1PB32-S6**	**L1PB36-S6**	**L1PB40-S6**
Power						
Max heating rated heat load	kW	20.0	26.4	31.5	36.0	40.0
Min heating rated heat load	kW	7.0	9.2	11.0	12.6	14.0
Max heating rated heat output	kW	18.0	23.6	28.0	32.0	35.6
Min heating rated heat output	kW	6.0	7.6	9.2	10.6	11.6
Domestic hot water rated heat load	kW	20.0	26.4	31.5	36.0	40.0
Efficiency						
Energy efficiency rate	-	Class 2	Class 2	Class 2	Class 2	Class 2
Technical data						
Gas consumption of heating capacity(NG)	m^3/h	2.12	2.79	3.33	3.81	4.23
Anti-freeze system start temperature	℃	5	5	5	5	5
Min hot water output capacity	kg/min	2.5	2.5	2.5	2.5	2.5
Max water pressure of heating system	MPa	0.3	0.3	0.3	0.3	0.3
Water pressure of domestic hot water	MPa	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8
Expansion tank capacity	L	6	6	8	8	8
Preset pressure of expansion tank	MPa	0.1	0.1	0.1	0.1	0.1
Rated gas pressure (NG)	kPa	2.0	2.0	2.0	2.0	2.0
Gas pressure range (NG)	kPa	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0
Performance						
Heating temperature setting range	℃	30~80	30~80	30~80	30~80	30~80
Domestic hot water temperature setting range	℃	30~60	30~60	30~60	30~60	30~60
Hot water production capacity (△t=25K)	kg/min	10.2	13.4	16.0	18.3	20.4
Hot water production capacity (△t=30K)	kg/min	8.3	10.8	13.3	14.8	16.7
Circuit part						
Rated power capacity	W	80/100	100/120	110/130	130/150	130/150
Electrical power supply voltage	-	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz
Electric shock protection type	-	Class I	Class I	Class I	Class I	Class I
Degree Of protection Against Humidity	-	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D
External dimensions	mm	(L)420X(W)320X(H)720		(L)420X(W)340X(H)720		

Note: All above specification is for reference only, apply base on product itself.

Uranus series
Gas boiler

- **Big power, can meet the needs of villas.**
- **With two heat exchanger structure, higher heat exchanger efficiency.**
- **Less scale, safe to use.**
- **Wi-Fi remote control, give you a free life.**

Uranus series

Technical data

		L1PB20-U6	L1PB26-U6	L1PB32-U6	L1PB36-U6	L1PB40-U6	N1PB50-U5
Power							
Max heating rated heat load	kW	20.0	26.4	31.5	36.0	40.0	50.0
Min heating rated heat load	kW	7.0	9.2	11.0	12.6	14.0	19.0
Max heating rated heat output	kW	18.0	23.6	28.0	32.0	35.6	44.5
Min heating rated heat output	kW	6.0	7.6	9.2	10.6	11.6	16.2
Domestic hot water rated heat load	kW	20.0	26.4	31.5	36.0	40.0	---
Efficiency							
Energy efficiency rate	-	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2
Technical data							
Gas consumption of heating capacity(NG)	m^3/h	2.12	2.79	3.33	3.81	4.23	5.29
Anti-freeze system start temperature	˚C	5	5	5	5	5	5
Min hot water output capacity	kg/min	2.5	2.5	2.5	2.5	2.5	---
Max water pressure of heating system	MPa	0.3	0.3	0.3	0.3	0.3	0.3
Water pressure of domestic hot water	MPa	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8	---
Expansion tank capacity	L	6	6	8	8	8	12
Preset pressure of expansion tank	MPa	0.1	0.1	0.1	0.1	0.1	0.1
Rated gas pressure (NG)	kPa	2.0	2.0	2.0	2.0	2.0	2.0
Gas pressure range (NG)	kPa	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0
Performance							
Heating temperature setting range	˚C	30~80	30~80	30~80	30~80	30~80	30~80
Domestic hot water temperature setting range	˚C	30~60	30~60	30~60	30~60	30~60	---
Hot water production capacity (△t=25K)	kg/min	10.2	13.4	16.0	18.3	20.4	---
Hot water production capacity (△t=30K)	kg/min	8.3	10.8	13.3	14.8	16.7	---
Circuit part							
Rated power capacity	W	80/100	100/120	110/130	130/150	130/150	150
Electrical power supply voltage	-	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz
Electric shock protection type	-	Class I	Class I	Class I	Class I	Class I	Class I
Degree Of protection Against Humidity	-	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D
External dimensions	mm	(L)420X(W)320X(H)720		(L)420X(W)340X(H)720		(L)480X(W)345X(H)830	

Note: All above specification is for reference only, apply base on product itself.

N

Neptune series
Gas boiler

- **Big power, can meet the needs of villas.**
- **With two heat exchanger structure, higher heat exchanger efficiency.**
- **Large colorful screen display, touch control, simple and easy.**
- **Wi-Fi remote control, give you a free life.**

Neptune series

Technical data

		L1PB20-N6	L1PB26-N6	L1PB32-N6	L1PB36-N6	L1PB40-N6	N1PB50-N5
Power							
Max heating rated heat load	kW	20.0	26.4	31.5	36.0	40.0	50.0
Min heating rated heat load	kW	7.0	9.2	11.0	12.6	14.0	19.0
Max heating rated heat output	kW	18.0	23.6	28.0	32.0	35.6	44.5
Min heating rated heat output	kW	6.0	7.6	9.2	10.6	11.6	16.2
Domestic hot water rated heat load	kW	20.0	26.4	31.5	36.0	40.0	---
Efficiency							
Energy efficiency rate	-	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2
Technical data							
Gas consumption of heating capacity(NG)	m^3/h	2.12	2.79	3.33	3.81	4.23	5.29
Anti-freeze system start temperature	˚C	5	5	5	5	5	5
Min hot water output capacity	kg/min	2.5	2.5	2.5	2.5	2.5	---
Max water pressure of heating system	MPa	0.3	0.3	0.3	0.3	0.3	0.3
Water pressure of domestic hot water	MPa	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8	---
Expansion tank capacity	L	6	6	8	8	8	12
Preset pressure of expansion tank	MPa	0.1	0.1	0.1	0.1	0.1	0.1
Rated gas pressure (NG)	kPa	2.0	2.0	2.0	2.0	2.0	2.0
Gas pressure range (NG)	kPa	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0
Performance							
Heating temperature setting range	˚C	30~80	30~80	30~80	30~80	30~80	30~80
Domestic hot water temperature setting range	˚C	30~60	30~60	30~60	30~60	30~60	---
Hot water production capacity (△t=25K)	kg/min	10.2	13.4	16.0	18.3	20.4	---
Hot water production capacity (△t=30K)	kg/min	8.3	10.8	13.3	14.8	16.7	---
Circuit part							
Rated power capacity	W	80/100	100/120	110/130	130/150	130/150	150
Electrical power supply voltage	-	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz
Electric shock protection type	-	Class I	Class I	Class I	Class I	Class I	Class I
Degree Of protection Against Humidity	-	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D
External dimensions	mm	(L)420X(W)320X(H)720		(L)420X(W)340X(H)720		(L)480X(W)345X(H)830	

Note: All above specification is for reference only, apply base on product itself.

- **Big power, can meet the needs of villas.**
- **With two heat exchanger structure, higher heat exchanger efficiency.**
- **Less scale, safe to use.**

Melichrysos series

Technical data

		L1PB20-M6	L1PB26-M6	L1PB32-M6	L1PB36-M6	L1PB40-M6	N1PB50-M5
Power							
Max heating rated heat load	kW	20.0	26.4	31.5	36.0	40.0	50.0
Min heating rated heat load	kW	7.0	9.2	11.0	12.6	14.0	19.0
Max heating rated heat output	kW	18.0	23.6	28.0	32.0	35.6	44.5
Min heating rated heat output	kW	6.0	7.6	9.2	10.6	11.6	16.2
Domestic hot water rated heat load	kW	20.0	26.4	31.5	36.0	40.0	---
Efficiency							
Energy efficiency rate	-	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2
Technical data							
Gas consumption of heating capacity(NG)	m^3/h	2.12	2.79	3.33	3.81	4.23	5.29
Anti-freeze system start temperature	˚C	5	5	5	5	5	5
Min hot water output capacity	kg/min	2.5	2.5	2.5	2.5	2.5	---
Max water pressure of heating system	MPa	0.3	0.3	0.3	0.3	0.3	0.3
Water pressure of domestic hot water	MPa	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8	---
Expansion tank capacity	L	6	6	8	8	8	12
Preset pressure of expansion tank	MPa	0.1	0.1	0.1	0.1	0.1	0.1
Rated gas pressure (NG)	kPa	2.0	2.0	2.0	2.0	2.0	2.0
Gas pressure range (NG)	kPa	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0
Performance							
Heating temperature setting range	˚C	30~80	30~80	30~80	30~80	30~80	30~80
Domestic hot water temperature setting range	˚C	30~60	30~60	30~60	30~60	30~60	---
Hot water production capacity (△t=25K)	kg/min	10.2	13.4	16.0	18.3	20.4	---
Hot water production capacity (△t=30K)	kg/min	8.3	10.8	13.3	14.8	16.7	---
Circuit part							
Rated power capacity	W	80/100	100/120	110/130	130/150	130/150	150
Electrical power supply voltage	-	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz
Electric shock protection type	-	Class I	Class I	Class I	Class I	Class I	Class I
Degree Of protection Against Humidity	-	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D
External dimensions	mm	(L)420X(W)320X(H)720		(L)420X(W)340X(H)720		(L)480X(W)345X(H)830	

Note: All above specification is for reference only, apply base on product itself.

- **Big power, can meet the needs of villas.**
- **With two heat exchanger structure, higher heat exchanger efficiency.**
- **Less scale, safe to use.**
- **Wi-Fi remote control, give you a free life.**

Venus series

Technical data

		L1PB50-V6	L1PB60-V6
Power			
Max heating rated heat load	kW	50.0	60.0
Min heating rated heat load	kW	19.0	22.8
Max heating rated heat output	kW	44.5	54.0
Min heating rated heat output	kW	16.2	19.4
Domestic hot water rated heat load	kW	50.0	60.0
Efficiency			
Energy efficiency rate	-	Class 2	Class 2
Technical data			
Gas consumption of heating capacity(NG)	m^3/h	5.29	6.35
Anti-freeze system start temperature	℃	5	5
Min hot water output capacity	kg/min	2.5	2.5
Max water pressure of heating system	MPa	0.3	0.3
Water pressure of domestic hot water	MPa	0.02~0.8	0.02~0.8
Expansion tank capacity	L	12	12
Preset pressure of expansion tank	MPa	0.1	0.1
Rated gas pressure (NG)	kPa	2.0	2.0
Gas pressure range (NG)	kPa	1.5~3.0	1.5~3.0
Performance			
Heating temperature setting range	℃	30~80	30~80
Domestic hot water temperature setting range	℃	30~60	30~60
Hot water production capacity (△t=25K)	kg/min	25.5	31.0
Hot water production capacity (△t=30K)	kg/min	21.2	25.8
Circuit part			
Rated power capacity	W	230	230
Electrical power supply voltage	-	220V~ 50Hz	220V~ 50Hz
Electric shock protection type	-	Class I	Class I
Degree Of protection Against Humidity	-	IPX4D	IPX4D
External dimensions	mm	(L)600X(W)350X(H)830	

Note: All above specification is for reference only, apply base on product itself.

G

Duke series

Full premixed condensing gas boiler

Intelligent remote control, free of mind

Condensing technology, low-carbon future

NOx emissions is low as class 5

Gas saving, Electricity saving

Heat efficiency is up to 107%

Degree Of protection Against Humidity as IPX5D

- **Full premixed condensing technology, gas and air are fully mixed to achieve 100% combustion, heat efficiency is up to 107%, national class 1 energy efficiency.**
- **Low emission of NOx and CO, no pollution to the environment, effective prevention of haze, low carbon and environmental friendly.**
- **Large colorful screen display, touch control, simple and easy.**
- **Wi-Fi Remote control, easy operation, intelligent heating mode.**

Duke series

Technical data

		LL1GBQ24-B26CG LN1GBQ24-B26CG	LL1GBQ28-B30CG LN1GBQ28-B30CG	LL1GBQ32-B34CG LN1GBQ32-B34CG	LL1GBQ35-B37CG LN1GBQ35-B37CG
Power					
Max heating rated heat load	kW	24.4	28.4	32.2	35.0
Min heating rated heat load	kW	5.0	5.5	5.6	5.8
Heating rated condensing heat output(50℃/30℃)	kW	26.0	30.0	34.0	37.0
Max heating rated heat output(80℃/60℃)	kW	24.0	28.0	31.0	33.6
Min heating rated heat output(80℃/60℃)	kW	5.0	5.3	5.3	5.6
Heating Min condensing heat output(50℃/30℃)	kW	5.0	5.8	5.8	6.2
Domestic hot water rated heat load	kW	24.4	28.4	32.2	35.0
Efficiency					
Energy efficiency rate	-	Class 1	Class 1	Class 1	Class 1
Rated heat efficiency(80℃/60℃)	%	98	99	99	99
Rated heat efficiency(50℃/30℃)	%	107	107	107	107
Heat efficiency at 30% power	%	107	107	107	107
Technical data					
Gas consumption of heating capacity(NG)	m^3/h	2.6	3.0	3.4	3.7
Anti-freeze system start temperature	℃	5	5	5	5
Min hot water output capacity	kg/min	2.5	2.5	2.5	2.5
Max water pressure of heating system	MPa	0.3	0.3	0.3	0.3
Water pressure of domestic hot water	MPa	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8
Expansion tank capacity	L	6.5	8	8	8
Preset pressure of expansion tank	MPa	0.1	0.1	0.1	0.1
Rated gas pressure (NG)	kPa	2.0	2.0	2.0	2.0
Gas pressure range (NG)	kPa	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0
Performance					
Heating temperature setting range	℃	30~80	30~80	30~80	30~80
Domestic hot water temperature setting range	℃	30~60	30~60	30~60	30~60
Hot water production capacity (△t=25K)	kg/min	13.4	15.6	17.7	19.2
Hot water production capacity (△t=30K)	kg/min	11.2	13.2	14.6	16.0
Circuit part					
Rated power capacity	W	110/130	120/130	130/150	130/150
Electrical power supply voltage	-	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz
Electric shock protection type	-	Class I	Class I	Class I	Class I
Degree Of protection Against Humidity	-	IPX5D	IPX5D	IPX5D	IPX5D
NOx emission grade	-	Class 5	Class 5	Class 5	Class 5
External dimensions	mm	(L)420X(W)355X(H)720		(L)420X(W)410X(H)720	

Note: LN is heating only, which without DHW , please ignore the DHW data with LN model.

Note: All above specification is for reference only, apply base on product itself.

P

P series
Gas boiler

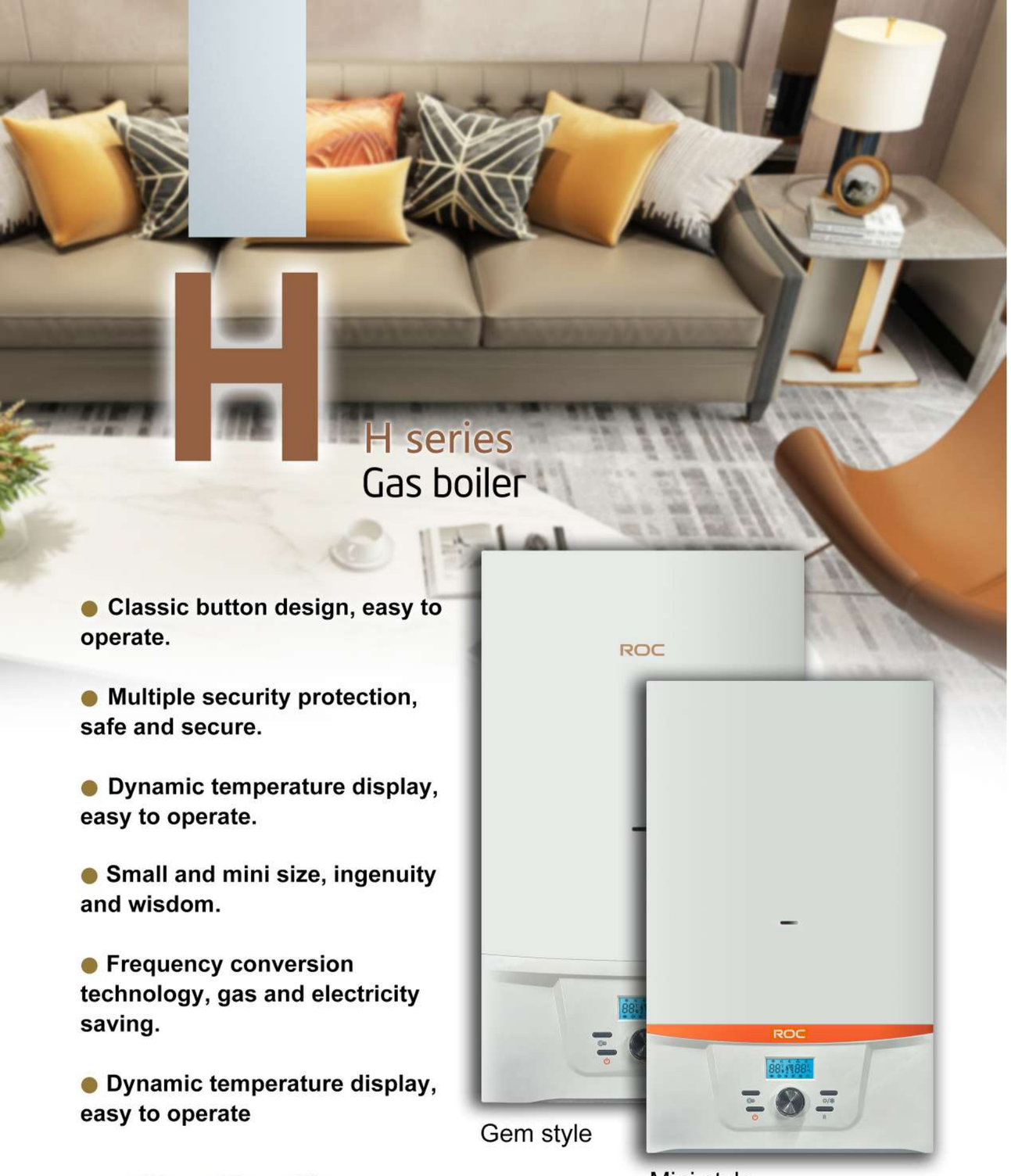
- **Small and mini size, ingenuity and wisdom.**
- **ECO mode, energy saving.**
- **Wi-Fi Remote control, free of mind.**
- **Large modernize touch screen, easy to operate.**

P series

Technical data

		L1PB12-P6	L1PB16-P6	L1PB20-P6	L1PB26-P6
Power					
Max heating rated heat load	kW	12.2	16.7	20.0	26.4
Min heating rated heat load	kW	3.7	5.0	7.0	9.2
Max heating rated heat output	kW	11.0	15.0	18.0	23.6
Min heating rated heat output	kW	3.2	4.4	6.0	7.6
Domestic hot water rated heat load	kW	12.2	16.7	20.0	26.4
Efficiency					
Energy efficiency rate	-	Class 2	Class 2	Class 2	Class 2
Technical data					
Gas consumption of heating capacity(NG)	m^3/h	1.29	1.76	2.12	2.79
Anti-freeze system start temperature	℃	5	5	5	5
Min hot water output capacity	kg/min	2.5	2.5	2.5	2.5
Max water pressure of heating system	MPa	0.3	0.3	0.3	0.3
Water pressure of domestic hot water	MPa	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8
Expansion tank capacity	L	5	5	5	6
Preset pressure of expansion tank	MPa	0.1	0.1	0.1	0.1
Rated gas pressure (NG)	kPa	2.0	2.0	2.0	2.0
Gas pressure range (NG)	kPa	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0
Performance					
Heating temperature setting range	℃	30~80	30~80	30~80	30~80
Domestic hot water temperature setting range	℃	30~60	30~60	30~60	30~60
Hot water production capacity (△t=25K)	kg/min	6.3	8.6	10.2	13.4
Hot water production capacity (△t=30K)	kg/min	5.3	7.2	8.3	10.8
Circuit part					
Rated power capacity	W	80/100	80/100	80/100	100/120
Electrical power supply voltage	-	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz
Electric shock protection type	-	Class I	Class I	Class I	Class I
Degree Of protection Against Humidity	-	IPX4D	IPX4D	IPX4D	IPX4D
External dimensions	mm	(L)400X(W)250X(H)660			

Note: All above specification is for reference only, apply base on product itself.



Gem style

Mini style

- **Classic button design, easy to operate.**
- **Multiple security protection, safe and secure.**
- **Dynamic temperature display, easy to operate.**
- **Small and mini size, ingenuity and wisdom.**
- **Frequency conversion technology, gas and electricity saving.**
- **Dynamic temperature display, easy to operate**

H series

Technical data

		L1PB20-H6	L1PB26-H6	L1PB32-H6	L1PB36-H6	L1PB40-H6
Power						
Max heating rated heat load	kW	20.0	26.4	31.5	36.0	40.0
Min heating rated heat load	kW	7.0	9.2	11.0	12.6	14.0
Max heating rated heat output	kW	18.0	23.6	28.0	32.0	35.6
Min heating rated heat output	kW	6.0	7.6	9.2	10.6	11.6
Domestic hot water rated heat load	kW	20.0	26.4	31.5	36.0	40.0
Efficiency						
Energy efficiency rate	-	Class 2	Class 2	Class 2	Class 2	Class 2
Technical data						
Gas consumption of heating capacity(NG)	m^3/h	2.12	2.79	3.33	3.81	4.23
Anti-freeze system start temperature	˚C	5	5	5	5	5
Min hot water output capacity	kg/min	2.5	2.5	2.5	2.5	2.5
Max water pressure of heating system	MPa	0.3	0.3	0.3	0.3	0.3
Water pressure of domestic hot water	MPa	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8
Expansion tank capacity	L	6	6	8	8	8
Preset pressure of expansion tank	MPa	0.1	0.1	0.1	0.1	0.1
Rated gas pressure (NG)	kPa	2.0	2.0	2.0	2.0	2.0
Gas pressure range (NG)	kPa	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0
Performance						
Heating temperature setting range	˚C	30~80	30~80	30~80	30~80	30~80
Domestic hot water temperature setting range	˚C	30~60	30~60	30~60	30~60	30~60
Hot water production capacity (△t=25K)	kg/min	10.2	13.4	16.0	18.3	20.4
Hot water production capacity (△t=30K)	kg/min	8.3	10.8	13.3	14.8	16.7
Circuit part						
Rated power capacity	W	80/100	100/120	110/130	130/150	130/150
Electrical power supply voltage	-	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz
Electric shock protection type	-	Class I	Class I	Class I	Class I	Class I
Degree Of protection Against Humidity	-	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D
External dimensions	mm	(L)420X(W)320X(H)720 Gem style (L)400X(W)250X(H)660 Mini style		(L)420X(W)340X(H)720		

Note: All above specification is for reference only, apply base on product itself.

Gem style

Mini style

- **One-touch ECO mode, energy saving easier.**
- **Glass panel, easy cleaning and maintenance.**
- **Wi-Fi remote control, on-demand operation.**
- **Stylish touchscreen display, easy to operate.**

Y series

Technical data

		L1PB20-Y6	L1PB26-Y6	L1PB32-Y6	L1PB36-Y6	L1PB40-Y6
Power						
Max heating rated heat load	kW	20.0	26.4	31.5	36.0	40.0
Min heating rated heat load	kW	7.0	9.2	11.0	12.6	14.0
Max heating rated heat output	kW	18.0	23.6	28.0	32.0	35.6
Min heating rated heat output	kW	6.0	7.6	9.2	10.6	11.6
Domestic hot water rated heat load	kW	20.0	26.4	31.5	36.0	40.0
Efficiency						
Energy efficiency rate	-	Class 2	Class 2	Class 2	Class 2	Class 2
Technical data						
Gas consumption of heating capacity(NG)	m^3/h	2.12	2.79	3.33	3.81	4.23
Anti-freeze system start temperature	˚C	5	5	5	5	5
Min hot water output capacity	kg/min	2.5	2.5	2.5	2.5	2.5
Max water pressure of heating system	MPa	0.3	0.3	0.3	0.3	0.3
Water pressure of domestic hot water	MPa	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8	0.02~0.8
Expansion tank capacity	L	6	6	8	8	8
Preset pressure of expansion tank	MPa	0.1	0.1	0.1	0.1	0.1
Rated gas pressure (NG)	kPa	2.0	2.0	2.0	2.0	2.0
Gas pressure range (NG)	kPa	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0	1.5~3.0
Performance						
Heating temperature setting range	˚C	30~80	30~80	30~80	30~80	30~80
Domestic hot water temperature setting range	˚C	30~60	30~60	30~60	30~60	30~60
Hot water production capacity (△t=25K)	kg/min	10.2	13.4	16.0	18.3	20.4
Hot water production capacity (△t=30K)	kg/min	8.3	10.8	13.3	14.8	16.7
Circuit part						
Rated power capacity	W	80/100	100/120	110/130	130/150	130/150
Electrical power supply voltage	-	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz	220V~ 50Hz
Electric shock protection type	-	Class I	Class I	Class I	Class I	Class I
Degree Of protection Against Humidity	-	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D
External dimensions	mm	(L)420X(W)320X(H)720 Gem style (L)420X(W)340X(H)720 (L)400X(W)250X(H)660 Mini style				

Note: All above specification is for reference only, apply base on product itself.