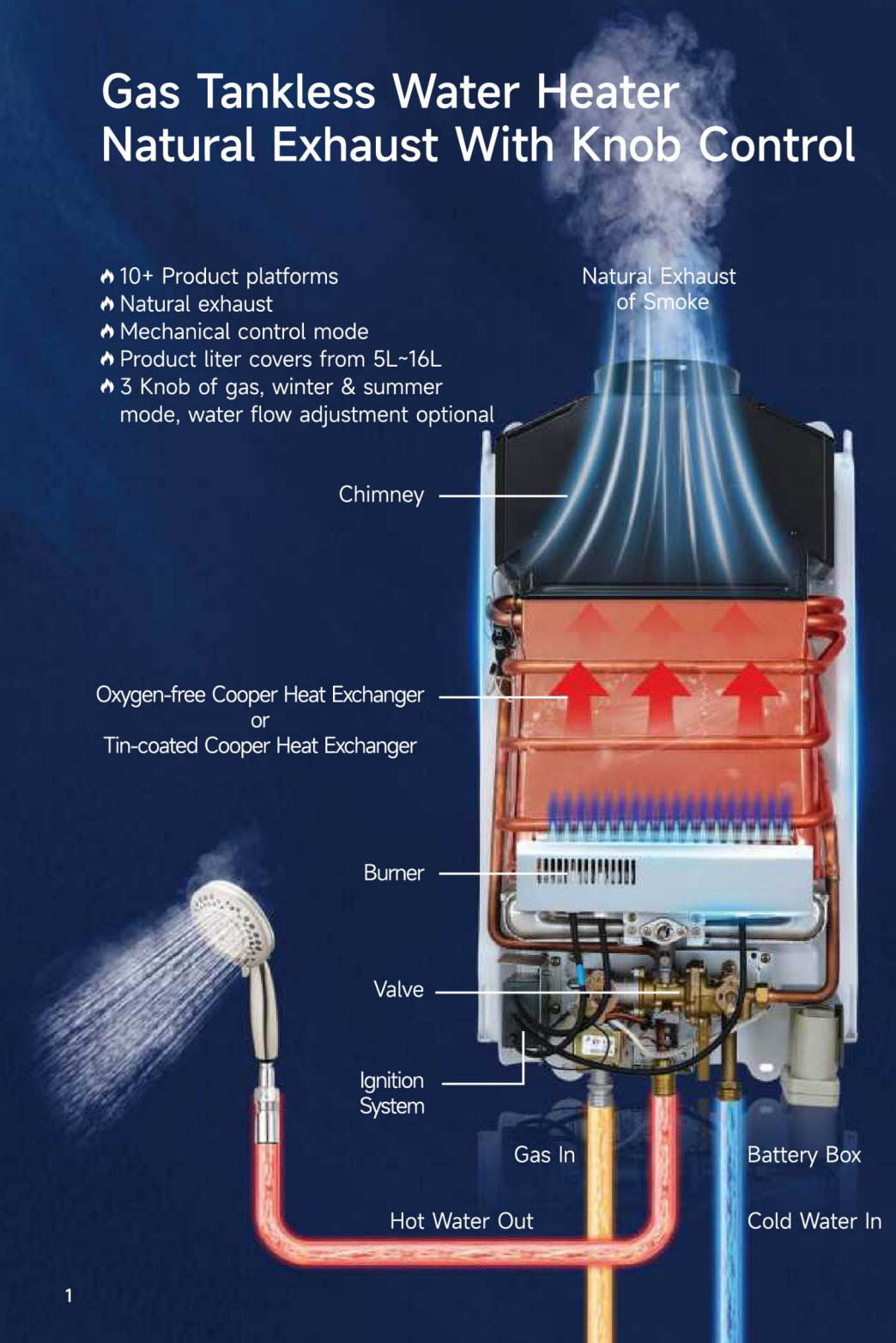
Gas Tankless Water Heater
Natural Exhaust With Knob Control

- 10+ Product platforms
- Natural exhaust
- Mechanical control mode
- Product liter covers from 5L~16L
- 3 Knob of gas, winter & summer mode, water flow adjustment optional



KUZMENKOV

Specification of Natural Exhaust Series







XJ-P Knob Control

Technical Specification	XJ-P-6L	XJ-P-7L	XJ-P-8L	XJ-P-10L
Gas type	NG/LPG	NG/LPG	NG/LPG	NG/LPG
Rated Power Standard Condition (kW)	12kW	14kW	16kW	20kW
Electric input	DC 3V	DC 3V	DC 3V	DC 3V
Approximate water flow 25°C(with mixer)	6L/min	7L/min	8L/min	10L/min
Approximate water flow 20°C(with mixer)	8L/min	9L/min	10L/min	13L/min
Chimney diameter (mm)	90	90	90	90
Exhaustion	Natural	Natural	Natural	Natural
Burner type	harmonica-shape burner(260)	harmonica-shape burner(240)	harmonica-shape burner(260)	harmonica-shape burner(260)
Burner number	3	4	4	5
Product Dimensions (mm) HxWxD	440x300x135	520x320x170	520x320x170	550x328x185
Package Dimensions (mm) HxWxD	515x340x190	640x380x220	640x380x220	670x390x240
Loading Qty (20GP/40GP/40HQ)	814/1702/1978	501/1026/1206	501/1026/1206	421/876/1062

- The product configuration can be customized meet the certification requirements of different markets
- Natural exhaust
- Product liter covers 6L~10L
- Suitable for low or normal water pressure condition
- Suitable for indoor and semi-outdoor environment
- Tin-coated or oxygen-free heat exchanger optional
- Digital display optional
- Knob of winter & summer mode, water flow adjustment optional
- Multi-sensors optional

Specification of Natural Exhaust Series







XJ-Q Knob Control

Technical Specification	XJ-Q-10L	XJ-Q-12L	XJ-Q-14L	XJ-Q-16L
Gas type	NG/LPG	NG/LPG	NG/LPG	NG/LPG
Rated Power Standard Condition (kW)	20kW	24kW	28kW	32kW
Electric input	DC 3V	DC 3V	DC 3V	DC 3V
Approximate water flow 25°C(with mixer)	10L/min	12L/min	14L/min	16L/min
Approximate water flow 20°C(with mixer)	13L/min	15L/min	18L/min	20L/min
Chimney diameter (mm)	110/120/125	125	130	130
Exhaustion	Natural	Natural	Natural	Natural
Burner type	T-shape burner	T-shape burner	T-shape burner	T-shape burner
Burner number	13	14	15	18
Product Dimensions (mm) HxWxD	610x350x182	610x350x190	610x350x168	680x420x205
Package Dimensions (mm) HxWxD	697x416x251	697x416x251	790x470x280	790x470x280
Loading Qty (20GP/40GP/40HQ)	362/758/886	362/758/886	260/526/621	260/526/621

- The product configuration can be customized meet the certification requirements of different markets
- Natural exhaust
- Product liter covers 10L~16L
- Suitable for normal water pressure condition
- Suitable for indoor and semi-outdoor environment
- Tin-coated or oxygen-free heat exchanger optional
- Different chimney design meets different exhaustion requirement
- Digital display optional
- Knob of winter & summer mode, water flow adjustment optional
- Multi-sensors optional

Specification of Natural Exhaust Series





XJ-R Direct Exhaust Type

Technical Specification	XJ-R-6L
Gas type	NG/LPG
Rated Power Standard Condition (kW)	12kW
Electric input	DC 3V
Approximate water flow 25°C(with mixer)	6L/min
Approximate water flow 20°C(with mixer)	8L/min
Exhaustion	Natural
Burner type	harmonica-shape burner(260)
Burner number	3
Product Dimensions (mm) HxWxD	370x290x128
Package Dimensions (mm) HxWxD	515x340x190
Loading Qty (20GP/40GP/40HQ)	814/1702/1978

- Direct exhaust without chimney
- 6L available
- Suitable for low or normal water pressure condition
- Suitable for indoor and semi-outdoor environment
- Tin-coated or oxygen-free heat exchanger optional
- Digital display optional
- Knob of winter & summer mode, water flow adjustment optional
- Multi-sensors optional

Specification of Natural Exhaust Series



XJ-S Digital Control

Technical Specification	XJ-S-10L	XJ-S-12L	XJ-S-14L	XJ-S-16L
Gas type	NG/LPG	NG/LPG	NG/LPG	NG/LPG
Rated Power Standard Condition (kW)	20kW	24kW	28kW	32kW
Electric input	AC 220V	DC 3V	DC 3V	DC 3V
Approximate water flow 25°C(with mixer)	10L/min	12L/min	14L/min	16L/min
Approximate water flow 20°C(with mixer)	13L/min	15L/min	18L/min	20L/min
Chimney diameter (mm)	125	125	130	130
Exhaustion	Natural	Natural	Natural	Natural
Burner type	T-shape burner	T-shape burner	T-shape burner	T-shape burner
Burner number	12	13	15	18
Product Dimensions (mm) HxWxD	550x328x185	610x350x190	610x350x168	680x420x205
Package Dimensions (mm) HxWxD	670x390x240	697x416x251	790×470×280	790×470×280
Loading Qty (20GP/40GP/40HQ)	421/876/1062	362/758/886	260/526/621	260/526/621



Proportional valve main functions:

- **Gas Flow Regulation:** Adjusts gas flow to maintain stable water temperature based on user settings for temperature and water flow.
- **Temperature Control:** Responds rapidly to temperature sensor signals to keep water temperature constant.
- **Energy Efficiency:** Optimizes gas usage to minimize waste and improve efficiency.
- **Safety Features:** Automatically adjusts or shuts off gas supply in abnormal situations (such as overheating or low water levels) to ensure safety.

Specification of Forced Exhaust Series





XJ-T Knob Control

Technical Specification	XJ-T-6L	XJ-T-12L	XJ-T-16L
Gas type	NG/LPG	NG/LPG	NG/LPG
Rated Power Standard Condition (kW)	12kW	24kW	32kW
Electric input	Customizable	Customizable	Customizable
Approximate water flow 25°C(with mixer)	6L/min	12L/min	16L/min
Approximate water flow 20°C(with mixer)	8L/min	15L/min	20L/min
Chimney diameter (mm)	60mm	60mm	60mm
Exhaustion	Forced	Forced	Forced
Performance against wind pressure	> 90Pa	> 90Pa	> 90Pa
Burner type	harmonica-shape burner(260)	T-shape burner	T-shape burner
Burner number	3	14	18
Product Dimensions (mm) HxWxD	520x320x170	610x350x190	680x420x205
Package Dimensions (mm) HxWxD	640x380x220	697x416x251	790×470×280
Loading Qty (20GP/40GP/40HQ)	501/1026/1206	362/758/886	260/526/621





Exterior Design

Discover our collection of products, each uniquely designed to cater to different tastes and preferences.

We prioritize product exterior differentiation to accentuate our customers' brand characteristics.



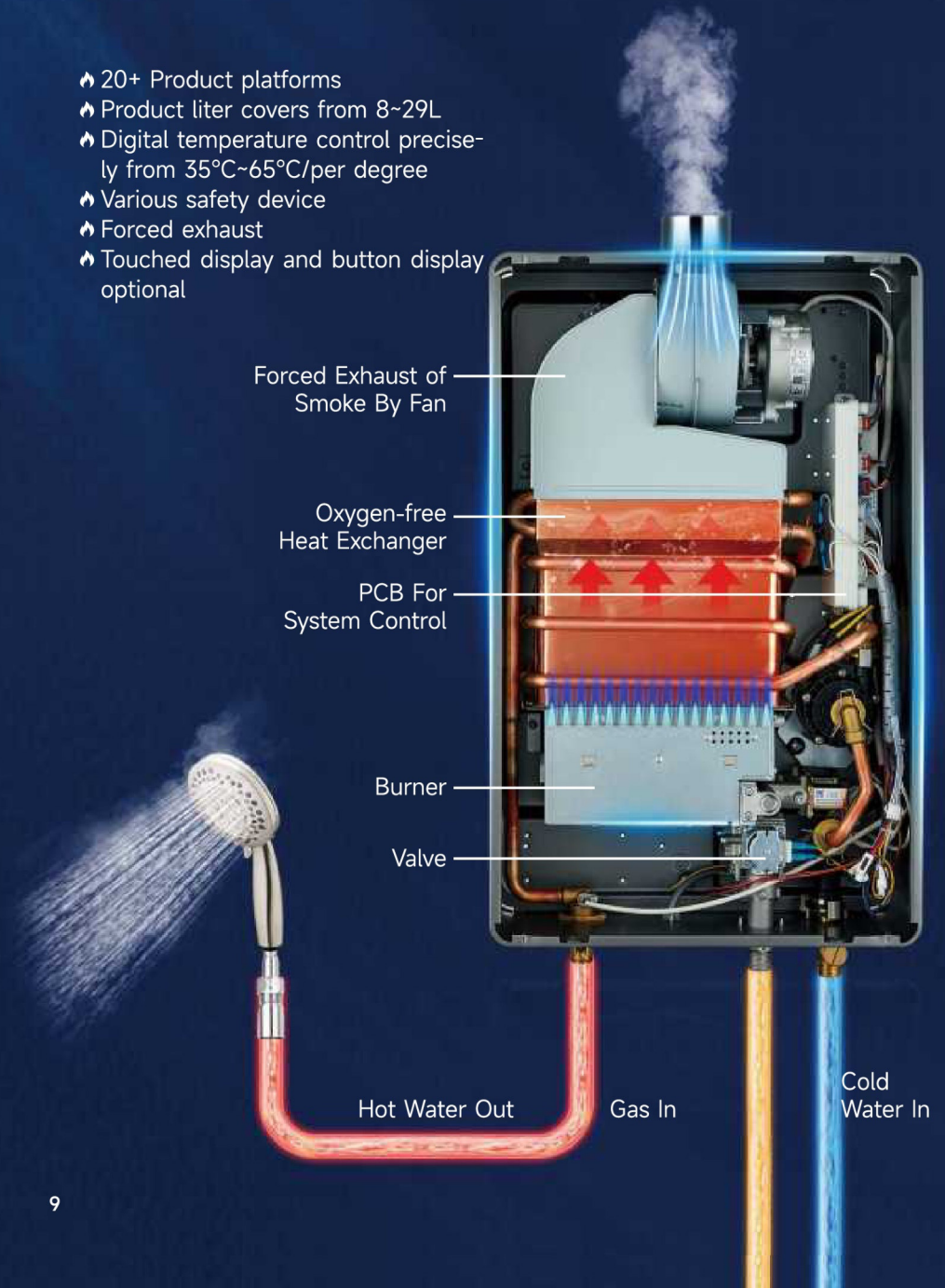
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Exterior Design of Natural Exhaust With Knob Control Series



Gas Tankless Water Heater
Forced Exhaust With Digital Control

- 20+ Product platforms
- Product liter covers from 8~29L
- Digital temperature control precisely from 35°C~65°C/per degree
- Various safety device
- Forced exhaust
- Touched display and button display optional



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Specification of Forced Exhaust Series





XJ-A Fan Top-mounted Structure

Technical Specification	XJ-A-8L	XJ-A-10L	XJ-A-12L	XJ-A-13L	XJ-A-14L	XJ-A-16L	XJ-A-18L
Gas type	NG/LPG	NG/LPG	NG/LPG	NG/LPG	NG/LPG	NG/LPG	NG/LPG
Rated Power Standard Condition (kW)	16kW	20kW	23kW	25kW	27kW	30kW	34kW
Minimum Rated Power Standard Condition (kW)	3.5kW 4.0kW	3.5kW 4.0kW	3.5kW 4.0kW	3.5kW 4.0kW	2kW 2.5kW	3.5kW 3.5kW	3kW
Approximate water flow 25°C(with mixer)	8L/min	10L/min	12L/min	13L/min	14L/min	16L/min	18L/min
Approximate water flow 20°C(with mixer)	10L/min	12L/min	15L/min	16L/min	17L/min	20L/min	22L/min
Chimney diameter (mm)	60mm	60mm	60mm	60mm	60mm	60mm	60mm
Exhaustion	Forced	Forced	Forced	Forced	Forced	Forced	Forced
Burner type	Large size burner	Large size burner	Large size burner	Large size burner	Large size burner	Large size burner	Large size burner-B
Burner number	4	5	5	5	6	7	6
Number of combustion section	2	2	2	2	4	4	4
Combustor cooling method	Water-cooling	Water-cooling	Water-cooling	Water-cooling	Water-cooling	Water-cooling	Water-cooling
Type of fan	DC AC	DC AC	DC AC	DC AC	DC AC	DC AC	DC
Fan installation position	Top-mounted	Top-mounted	Top-mounted	Top-mounted	Top-mounted	Top-mounted	Top-mounted
Performance against wind pressure	>250Pa >100Pa	>250Pa >100Pa	>250Pa >100Pa	>250Pa >100Pa	>200Pa >100Pa	>250Pa >100Pa	>200Pa
Product Dimensions (mm) HxWxD	540x348x146	540x348x146	540x348x172	540x348x172	540x348x180	540x348x180	570x358x180
Package Dimensions (mm) HxWxD	708x530x205	708x530x205	708x530x268	708x530x268	708x530x268	708x530x268	747x525x240
Loading Qty (20GP/40GP/40HQ)	347/726/854	347/726/854	241/507/633	241/507/633	241/507/633	241/507/633	276/582/707

Specification of Forced Exhaust Series



Wi-Fi
Reservation
Zero Cold Water
Child Lock
Bathtub
Temperature Sensing
Filtration
Pressure Boost
Eco-friendly
24H
Oxygen-free Copper Heat Exchanger
Wind resistance ≥300pa

XJ-B Fan Top-mounted Structure

Technical Specification	XJ-B-13L	XJ-B-16L
Gas type	NG/LPG	NG/LPG
Rated Power Standard Condition (kW)	25kW	30kW
Minimum Rated Power Standard Condition (kW)	3.5kW	3.5kW
Approximate water flow 25°C(with mixer)	13L/min	16L/min
Approximate water flow 20°C(with mixer)	16L/min	20L/min
Chimney diameter (mm)	60mm	60mm
Exhaustion	Forced	Forced
Burner type	Small size burner	Small size burner
Burner number	14	14
Number of combustion section	4	4
Combustor cooling method	Air-cooling	Air-cooling
Type of fan	DC	DC
Fan installation position	Top-mounted	Top-mounted
Performance against wind pressure	>300Pa	>300Pa
Product Dimensions (mm) HxWxD	540x348x183	540x348x183
Package Dimensions (mm) HxWxD	708x530x268	708x530x268
Loading Qty (20GP/40GP/40HQ)	241/507/633	241/507/633

Specification of Forced Exhaust Series



Wi-Fi
Reservation
Zero Cold Water
Child Lock
Bathtub
Temperature Sensing
Filtration
Pressure Boost
Eco-friendly
24H
Oxygen-free Copper Heat Exchanger
Wind resistance ≥350pa

XJ-C Fan Bottom-mounted Structure

Technical Specification	XJ-C-13L	XJ-C-16L
Gas type	NG/LPG	NG/LPG
Rated Power Standard Condition (kW)	25.5kW	30.5kW
Minimum Rated Power Standard Condition (kW)	3kW	4kW
Approximate water flow 25°C(with mixer)	13L/min	16L/min
Approximate water flow 20°C(with mixer)	16L/min	20L/min
Chimney diameter (mm)	60mm	60mm
Exhaustion	Forced	Forced
Burner type	Small size burner	Small size burner
Burner number	12	15
Number of combustion section	3	3
Combustor cooling method	Air-cooling	Air-cooling
Type of fan	DC	DC
Fan installation position	Bottom-mounted	Bottom-mounted
Performance against wind pressure	>350Pa	>350Pa
Product Dimensions (mm) HxWxD	570x358x182	570x358x182
Package Dimensions (mm) HxWxD	708x530x268	708x530x268
Loading Qty (20GP/40GP/40HQ)	241/507/633	241/507/633

Specification of Forced Exhaust Series



Wi-Fi
Reservation
Zero Cold Water
Child Lock
Bathtub
Temperature Sensing
Filtration
Pressure Boost
Eco-friendly
24H
Oxygen-free Copper Heat Exchanger
Wind resistance ≥350pa

XJ-D Fan Top-mounted Structure

Technical Specification	XJ-D-13L	XJ-D-16L
Gas type	NG/LPG	NG/LPG
Rated Power Standard Condition (kW)	25.5kW	30.5kW
Minimum Rated Power Standard Condition (kW)	2kW	2kW
Approximate water flow 25°C(with mixer)	13L/min	16L/min
Approximate water flow 20°C(with mixer)	16L/min	20L/min
Chimney diameter (mm)	60mm	60mm
Exhaustion	Forced	Forced
Burner type	Small size burner	Small size burner
Burner number	12	15
Number of combustion section	5	5
Combustor cooling method	Air-cooling	Air-cooling
Type of fan	DC	DC
Fan installation position	Top-mounted	Top-mounted
Performance against wind pressure	>350Pa	>350Pa
Product Dimensions (mm) HxWxD	570x358x182	570x358x182
Package Dimensions (mm) HxWxD	708x530x268	708x530x268
Loading Qty (20GP/40GP/40HQ)	241/507/633	241/507/633

Specification of Forced Exhaust Series

Low NOx



Wi-Fi
Reservation
Zero Cold Water
Child Lock
Bathtub
Temperature Sensing
Filtration
Pressure Boost
Eco-friendly
24H
Oxygen-free Copper Heat Exchanger
Wind resistance ≥300pa

XJ-E Fan Bottom-mounted Structure

Technical Specification	XJ-E-20L	XJ-E-24L
Gas type	NG	NG
Rated Power Standard Condition (kW)	40kW	46kW
Minimum Rated Power Standard Condition (kW)	4kW	4kW
Approximate water flow 25°C(with mixer)	20L/min	24L/min
Approximate water flow 20°C(with mixer)	25L/min	30L/min
Chimney diameter (mm)	80mm	80mm
Exhaustion	Forced	Forced
Burner type	Rich-lean burner	Rich-lean burner
Burner number	20	20
Number of combustion section	4	4
Combustor cooling method	Air-cooling	Air-cooling
Type of fan	DC	DC
Fan installation position	Bottom-mounted	Bottom-mounted
Performance against wind pressure	>300Pa	>300Pa
Product Dimensions (mm) HxWxD	579x395x188	579x395x188
Package Dimensions (mm) HxWxD	708x477x275	708x477x275
Loading Qty (20GP/40GP/40HQ)	272/561/688	272/561/688

Specification of Forced Exhaust Series





XJ-F Fan Bottom-mounted Structure

Technical Specification	XJ-F-16L
Gas type	NG/LPG
Rated Power Standard Condition (kW)	30kW
Minimum Rated Power Standard Condition (kW)	3kW
Approximate water flow 25°C(with mixer)	16L/min
Approximate water flow 20°C(with mixer)	20L/min
Chimney diameter (mm)	60mm
Exhaustion	Forced
Burner type	Small size burner
Burner number	15
Number of combustion section	4
Combustor cooling method	Air-cooling
Type of fan	DC
Fan installation position	Bottom-mounted
Performance against wind pressure	>300Pa
Product Dimensions (mm) HxWxD	570x358x182
Package Dimensions (mm) HxWxD	708x530x268
Loading Qty (20GP/40GP/40HQ)	241/507/633

Specification of Forced Exhaust Series





XJ-G Fan Top-mounted Structure

Technical Specification	XJ-G-16L
Gas type	NG/LPG
Rated Power Standard Condition (kW)	30kW
Minimum Rated Power Standard Condition (kW)	2kW
Approximate water flow 25°C(with mixer)	16L/min
Approximate water flow 20°C(with mixer)	20L/min
Chimney diameter (mm)	60mm
Exhaustion	Forced
Burner type	Large size burner
Burner number	7
Number of combustion section	4
Combustor cooling method	Air-cooling
Type of fan	DC
Fan installation position	Top-mounted
Performance against wind pressure	>200Pa
Product Dimensions (mm) HxWxD	540x348x180
Package Dimensions (mm) HxWxD	708x530x268
Loading Qty (20GP/40GP/40HQ)	241/507/633

Exterior Design

Whether you prefer a classic and traditional look or a modern and contemporary style, our products have something for everyone.

KUZMENKOV

Exterior Design of Forced Exhaust With Digital Control Series

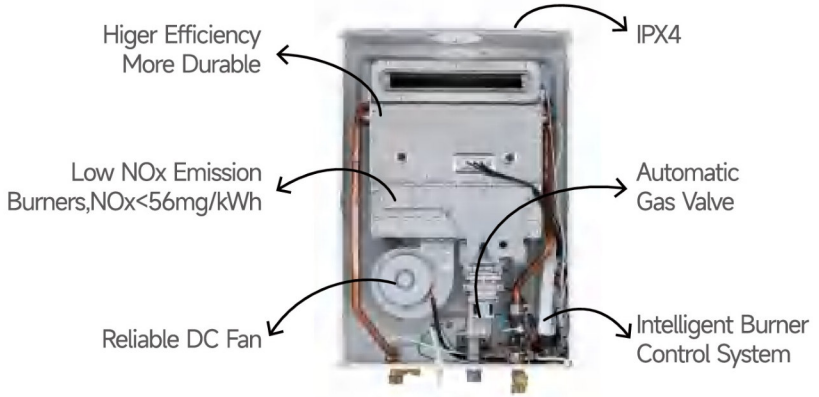


Outdoor Tankless Gas Water Heater

- Wind resistance >300Pa
- IPX4 water proof
- Dust-free, rain-proof, windproof and anti-freezing
- Remote controller for temperature setting
- 14 security systems



Specification of Outdoor Series



XJ-I Top/Bottom-munted Structure

Technical Specification	XJ-I-16L	XJ-I-18L	XJ-I-20L	XJ-I-24L	XJ-I-29L
Gas type	NG/LPG	NG/LPG	NG/LPG	NG/LPG	NG/LPG
Rated Power Standard Condition (kW)	30kW	34kW	40kW	46kW	51kW
Minimum Rated Power Standard Condition (kW)	3kW	3kW	4kW	4kW	4kW
Approximate water flow 25°C(with mixer)	16L/min	18L/min	20L/min	24L/min	29L/min
Approximate water flow 20°C(with mixer)	20L/min	22L/min	25L/min	30L/min	36L/min
Chimney diameter (mm)	60mm	60mm	80mm	80mm	80mm
Exhaustion	Forced	Forced	Forced	Forced	Forced
Burner type	Large size burner-B	Large size burner-B	Rich-lean burner	Rich-lean burner	Rich-lean burner
Burner number	6	6	20	20	20
Number of combustion section	4	4	4	4	4
Combustor cooling method	Water-cooling	Water-cooling	Air-cooling	Air-cooling	Air-cooling
Type of fan	DC	DC	DC	DC	DC
Fan installation position	Top-mounted	Top-mounted	Bottom-mounted	Bottom-mounted	Bottom-mounted
Performance against wind pressure	>200Pa	>200Pa	>300Pa	>300Pa	>300Pa
Product Dimensions (mm) HxWxD	570x358x180	570x358x180	579x395x188	579x395x188	579x395x188
Package Dimensions (mm) HxWxD	745x430x260	745x430x260mm	708x477x275	708x477x275	708x477x275
Loading Qty (20GP/40GP/40HQ)	311/666/804	311/666/804	272/561/688	272/561/688	272/561/688

BURNER
Efficient combustion, NOx emissions under 56mg/kWh. Compact design with double gas distribution tubes. Made of high-strength stainless steel.

OXYGEN-FREE COPPER HEAT EXCHANGER
Features a short chamber design for improved heat exchange rate and reduced heat loss.

DIVERTER
Innovative design reduces the impact of updrafts and prevents downdrafts on burner combustion.

AUTOMATIC GAS VALVE
Proportional control automatically regulates gas flow into the main distribution unit. Ensures stable and efficient combustion with continuous gas supply.

DC FAN
Reliable, variable-speed operation supplies proportional fresh air to main burners, ensuring energy efficiency, low noise, and durability.

INTELLIGENT BURNING CONTROL SYSTEM
Smartly manages ignition and monitors flame with voltage range of 110~240V AC. Low standby power consumption.

Specification of RV Series



XJ-H

Technical Specification	XJ-H-10L
Gas type	LPG
Maximum Input Rating (Btu/hr)	65,000
Minimum Input Rating(Btu/hr)	12,000
Approximate water flow 25°C(with mixer)	10L/min
Approximate water flow 20°C(with mixer)	12L/min
Electric input	DC 12V
Exhaustion	Forced
Burner type	Large size burner
Burner number	4
Number of combustion section	2
Combustor cooling method	Water-cooling
Type of fan	DC
Fan installation position	Top-mounted
Performance against wind pressure	>200Pa
Product Dimensions (in) HxWxD	15.2" x 15.2" x 14.1"
Package Dimensions (mm) HxWxD	500x500x420
Loading Qty (20GP/40GP/40HQ)	244/528/588

KUZMENKOV

Gas Boiler

High Capacity
Space Saving
Environment Friendly
Easy Access To Warmth And Comfort

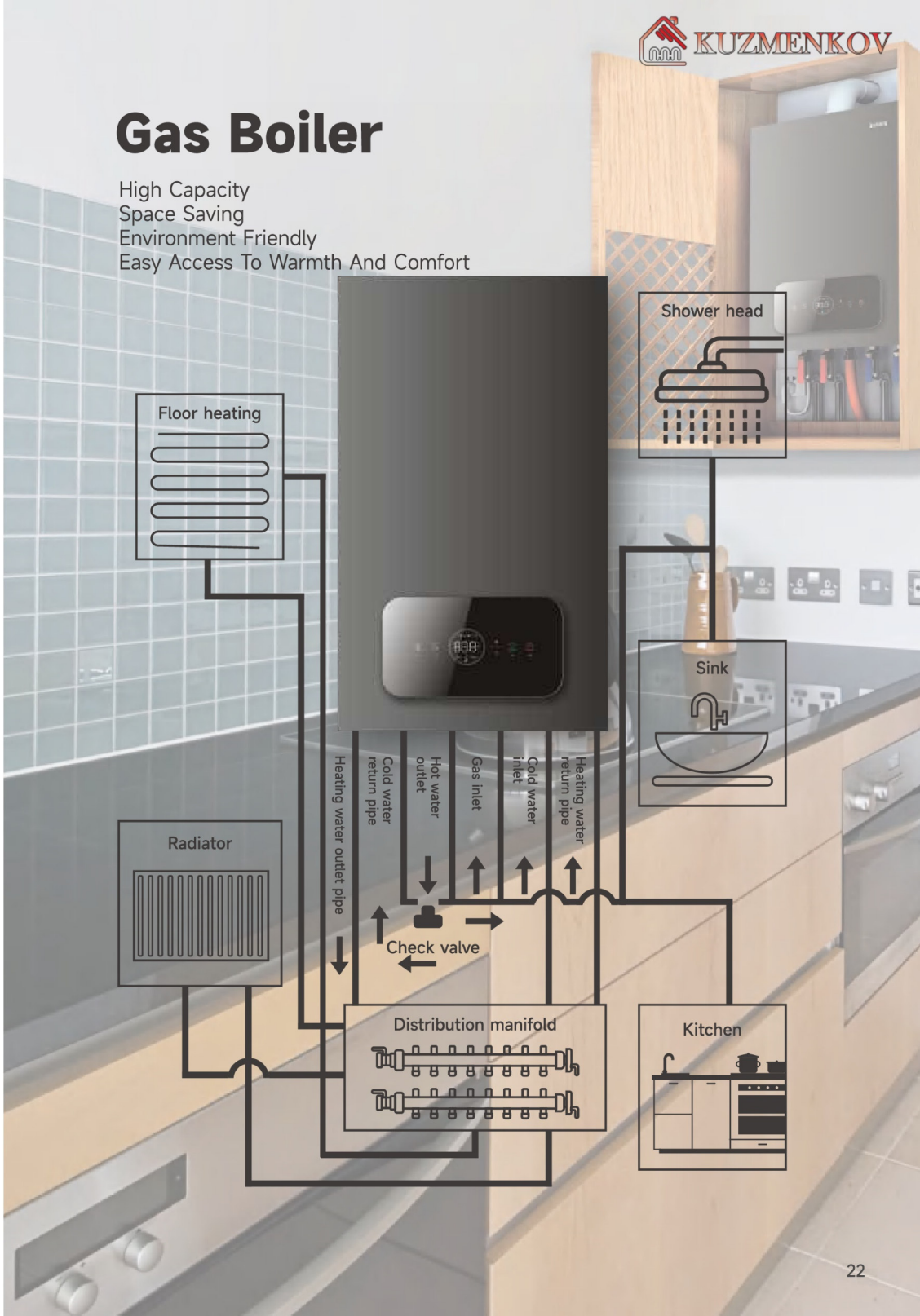
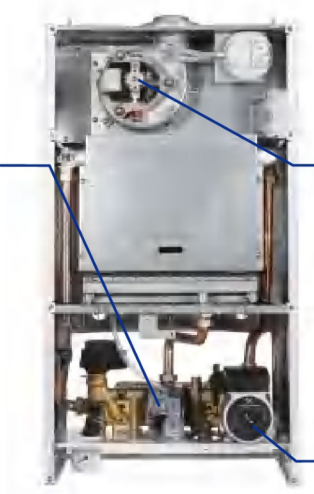


Plate Heat Exchanger Type
Gas Heating Hot Water Boiler



SIT

Proportional gas valve
Accurately adiust the opening of gas valve, to ensure the accurate change of water temperature.





Motor fan
High speed and energy saving, the whole process of stepless transmission, accurate ratio.



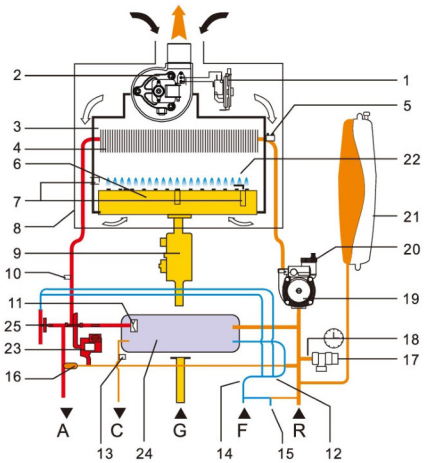
Display screen
Digital display, LCD display, Touch display optional.



GRUNDFOS

Pump
Equipped with imported high efficiency and energy saving water pump, prevent stuck phenomenon and silent operation.

Product schematic work



1.Motor fan
2.Chimney
3.Thermostat
4.Main heat exchanger
5.Burner
6.Ignition pin
7.Sealed chamber
8.Proportion gas valve
9.CH NTC
10.Hydraulic pressure gauge
11.Electric three-way valve
12.Hydraulic pressure switch
13.Circulating water flow switch
14.Bypass valve
15.DWH NTC
16.Plate heat exchanger
17.DWH filter
18.Water supply valve
19.DWH Flow regulator
20.Water flow sensor
21.Pump
22.Automatic exhaust valve
23.Safety relief valve
24.Expansion vessel
25.Combustion chamber
26.Wind pressure switch

A-G3/4 Outlet of CHW
C-G1/2 Outlet of DHW
G-G3/4 Inlet of gas
F-G1/2 Inlet of water
R-G3/4 Inlet of CHW

KUZMENKOV

GAS Boiler
Technical Specification

Product Model	Unit	L1PB20	L1PB24	L1PB26	L1PB28	L1PB31	L1PB35	L1PB40
Rated maximum heat input/output	KW	20/18.2	24/21.8	26/23.7	28/25.5	30.5/27.8	35/31.9	40/36.4
Rated minimum heat input/output	KW	6/5.1	7.2/6.1	7.8/6.6	8.4/7.1	9.2/7.8	10.5/8.9	12/10.2
Maximum/Minimum gas consumption(reference)	m3/h	2.1/0.63	2.5/0.76	2.8/0.82	2.9/0.89	3.2/0.97	3.7/1.1	4.2/1.27
Energy efficiency class	-	2						
Waterproof level	-	IPX4D						
Heat efficiency(rated maximum heat input)	%	90	90	90	90	90	90	90
Gas type/Pressure	Pa	Natural gas/2000Pa						
CH Temp. adjustment Range	°C	30-80						
Heating temp. adjustment range	°C	30-80(Radiator heating)/30-60(Floor heating)						
Heating system max pressure	Mpa	0.3						
Expansion tank volume	L	6		8			10	
Rated hot water capacity (△t=25K)	Kg/min	10.0	12.0	13.0	14.0	15.5	17.5	20.0
Rated hot water capacity (△t=30K)	Kg/min	8.0	10.0	10.5	11.5	12.0	13.6	15.0
DHW applicable water pressure	Mpa	0.03-0.8						
DHW Temp. adjustment range	°C	30-60						
Power supply/Frequency	V/Hz	AC220V/50Hz						
Heating area range	m^2	80-120m^2	100-150m^2	120-160m^2	130-190m^2	180-220m^2	200-260m^2	220-280m^2
Product size(H*W*D)	mm	680x403x275	745x403x326				800x480x350	
Net weight	Kg	30	30		33.5		42.5	43.5

Note:

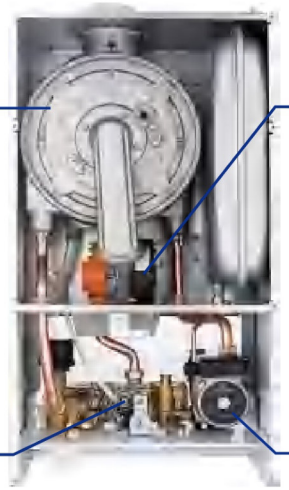
1. Gas flow rate and heating reference area are related to local environment conditions. The values provided are rough estimates.

2. All parameters in the sample are for reference only, and actual conditions may vary.

Premix Condensing Type Gas Heating Hot Water Boiler



Heat exchanger
Stainless steel material, corrosion resistance, reduce energy consumption, improve efficiency.





Motor fan
High speed and energy saving, the whole process of stepless transmission, accurate ratio.



SIT

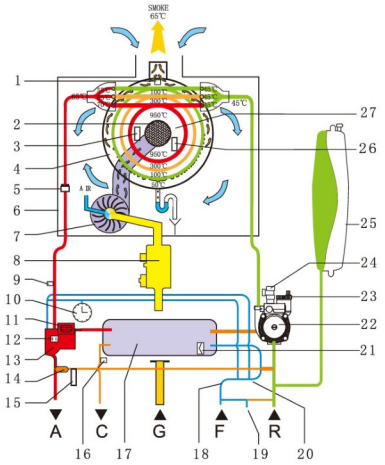
Proportional gas valve
Accurately adiust the opening of gas valve, to ensure the accurate change of water temperature.



GRUNDFOS

Pump
Equipped with imported high efficiency and energy saving water pump, prevent stuck phenomenon and silent operation.

Product schematic work



1.Thermostat of exhaust gas
2.Burner
3.Sensor pin of flame
4.Main heat exchanger
5.Thermostat
6.Sealed chamber
7.Motor fan
8.Proportion gas valve
9.CH NTC
10.Hydraulic pressure gauge
11.Electric three-way valve
12.Hydraulic pressure switch
13.Circulating water flow switch
14.Bypass valve
15.Condensate water collector
16.DWH NTC
17.Plate-type heat exchanger
18.DWH filter
19.Water supply valve
20.DWH Flow regulator
21.Water flow sensor
22.Pump
23.Automatic exhaust valve
24.Safety relief valve
25.Expansion vessel
26.Ignition pin
27.Combustion chamber

A-G3/4 Outlet of CHW
C-G1/2 Outlet of DHW
G-G3/4 Inlet of gas
F-G1/2 Inlet of water
R-G3/4 Inlet of CHW

KUZMENKOV

CONDENSED GAS Boiler

Technical Specification

Product Model	Unit	LL1GB24	LL1GB28	LL1GB40
Rated maximum heat input/output(50/30°C)	KW	24/25.7	28/30.0	40/42.8
Rated minimum heat input/output(50/30°C)	KW	4.8/5.1	5.6/6.0	8.0/8.6
Maximum/Minimum gas consumption(reference)	m3/h	2.5/0.5	2.9/0.6	3.8/0.76
Energy efficiency class	-	1		
Waterproof level	-	IPX4D		
30% load thermal efficiency(50/30°C)	%	107	107	107
NOx level	-	5		
Gas type/Pressure	Pa	Natural gas/2000Pa		
CH Temp. adjustment Range	°C	30-80		
Heating temp. adjustment range	°C	30-80(Radiator heating)/30-60(Floor heating)		
Heating system max pressure	Mpa	0.3		
Expansion tank volume	L	8		
Rated hot water capacity (△t=25K)	Kg/min	12.0	14.0	20.0
Rated hot water capacity (△t=30K)	Kg/min	10.0	11.5	15.0
DHW applicable water pressure	Mpa	0.03-0.8		
DHW Temp. adjustment range	°C	30-60		
Power supply/Frequency	V/Hz	AC220V/50Hz		
Heating area range	m^2	135-180m^2	180-220m^2	200-300m^2
Product size(HxWxD)	mm	745x403x326		
Net weight	Kg	38		

Note:

1. Gas flow rate and heating reference area are related to local environment conditions. The values provided are rough estimates.

2. All parameters in the sample are for reference only, and actual conditions may vary.

Exterior Design

Our design team continuously innovates
to ensure each product is unique.
With fine craftsmanship and quality materials,
our products are both beautiful and durable.

KUZMENKOV

Exterior Design of Gas Boiler Series



Gas Water Heater Spare Parts

- Over 30 years of experience in manufacture of spare parts.
- A leader in innovation and technology for home hot water solutions.
- Aiming to develop into a world-class international manufacturer covering the entire industrial chain of gas water heater.
- Over 100+ categories of heat exchanger, Over 50+ categories of burner, Over 20+ categories of valve.



Quick Ignition | Eco-friendly | Constant Temperature | Efficient Combustion | Anti-corrosion | High Temp Resistance



Heat Exchanger Series



Heat Exchanger for Natural Exhaust Series

Heat Exchanger (Tin-coated Copper)	
Material	Copper (Tin-dipping)
Liter	5L-16L
Available Product Lines	Natural exhaust series with mechanical control
Cooling Type	Water cooling

- Tin-coated copper and oxygen-free cooper available
- Various structure with different weights
- Anti-corrosion



Heat Exchanger for Natural Exhaust Series

Heat Exchanger (Oxygen-free Copper)	
Material	Oxygen-free copper
Liter	5.5L-16L
Available Product Lines	Natural exhaust series with mechanical control
Cooling Type	Water cooling

- Tin-coated copper and oxygen-free cooper available
- Various structure with different weights
- Anti-corrosion



Heat Exchanger for Forced Exhaust Series Via Water Cooling

Heat Exchanger (Oxygen-free Copper)	
Material	Oxygen-free copper
Liter	10L-24L
Available Product Lines	Forced exhaust series with digital control
Cooling Type	Water cooling

- Various structure with different weights
- High efficient heat conduction technology
- High temperature resistance
- Oxidation resistance
- Fast heat transfer

Heat Exchanger Series



Heat Exchanger for Forced Exhaust Series Via Air Cooling

Heat Exchanger (Oxygen-free Copper)	
Material	Oxygen-free copper
Liter	10L-24L
Available Product Lines	Forced exhaust series with digital control
Cooling Type	Air cooling

- Various structure with different weights
- High efficient heat conduction technology
- High temperature resistance
- Oxidation resistance
- Fast heat transfer
- Less risk of water leakage due to less welding of heat exchanger
- Anti-condensation corrosion



Heat Exchanger for Forced Exhaust Series Via Air Cooling

Heat Exchanger (Oxygen-free Copper)	
Material	Oxygen-free copper
Liter	10L-24L
Available Product Lines	Forced exhaust series with digital control
Cooling Type	Air cooling

- Various structure with different weights
- High efficient heat conduction technology
- High temperature resistance
- Oxidation resistance
- Fast heat transfer
- Less risk of water leakage due to less welding of heat exchanger
- Anti-condensation corrosion



Heat Exchanger for Forced Exhaust Series Via Air Cooling

Stainless Steel Heat Exchanger	
Material	Stainless steel
Liter	10L-24L
Available Product Lines	Forced exhaust series with digital control
Cooling Type	Air cooling

- Various structure with different weights
- High efficient heat conduction technology
- High temperature resistance
- Oxidation resistance
- Fast heat transfer
- Less risk of water leakage due to less welding of heat exchanger
- Anti-condensation corrosion

Burner Series





Combustion System for Natural Exhaust Series

Burner Assembly (Harmonica-shape)	
Liter	5L to 10L
Burner Type	Harmonica-shape
Burner Number	3 / 4 / 5
Rated Heat Input [kw]	8-20
Fuel Gas	NG / LPG
Gas Supply Pressure [pa]	2000 / 2800
Switch Mode	Manual mode
Number of Combustion Section	0 / 2
Available Product Lines	Natural exhaust series with mechanical control
Matching Heat Exchanger Type	Water cooling

Combustion System for Natural Exhaust Series

Burner Assembly (T-shape)	
Liter	10L to 16L
Burner Type	T-shape
Burner Number	13 / 14 / 15 / 18
Rated Heat Input [kw]	20-32
Fuel Gas	NG / LPG
Gas Supply Pressure [pa]	2000 / 2800
Switch Mode	Manual mode
Number of Combustion Section	0 / 2
Available Product Lines	Natural exhaust series with mechanical control
Matching Heat Exchanger Type	Water cooling

Ignition Pulse



Ignition Pulse for Natural Exhaust Series

Pulse Igniter	
Liter	5-16L
Nominal Voltage	3VDC
Adaptable Voltage	2.1-3.3VDC
Function	1.Flame failure device and Anti-dry safety 2.Support LED 3.Timed shutdown
Available Product Lines	Natural exhaust series with mechanical control

Burner Series





Combustion System for Forced Exhaust Series

Burner Assembly (Combustion System Via Water Cooling)	
Liter	8L-18L
Burner Type	Large size burner
Burner Number	4 / 5 / 6 / 7
Rated Heat Input [kw]	16-34
Fuel Gas	NG / LPG
Gas Supply Pressure [pa]	2000 / 2800
Switch Mode	Solenoid valve
Number of Combustion Section	2 / 3 / 4
Available Product Lines	Forced exhaust series with digital control
Matching Heat Exchanger Type	Water cooling

Combustion System for Forced Exhaust Series

Burner Assembly (1st Generation Combustion System of Fan Bottom-mounted Via Air Cooling)	
Liter	13L, 16L
Burner Type	Small burner
Burner Number	12, 15
Rated Heat Input [kw]	25, 31
Fuel Gas	NG / LPG
Gas Supply Pressure [pa]	2000 / 2800
Switch Mode	Solenoid valve
Number of Combustion Section	3
Available Product Lines	Forced exhaust series with digital control
Matching Heat Exchanger Type	Air cooling





Combustion System for Forced Exhaust Series

Burner Assembly (1st Generation Combustion System of Fan Top-mounted Via Air Cooling)	
Liter	13L, 16L
Burner Type	Small burner
Burner Number	12, 15
Rated Heat Input [kw]	25, 31
Fuel Gas	NG / LPG
Gas Supply Pressure [pa]	2000 / 2800
Switch Mode	Solenoid valve
Number of Combustion Section	5
Available Product Lines	Forced exhaust series with digital control
Matching Heat Exchanger Type	Air cooling

Combustion System for Forced Exhaust Series

Burner Assembly (2nd Generation Combustion System of Fan Top-mounted Via Air Cooling)	
Liter	13L, 16L
Burner Type	Small burner
Burner Number	12, 14
Rated Heat Input [kw]	25, 30
Fuel Gas	NG / LPG
Gas Supply Pressure [pa]	2000 / 2800
Switch Mode	Solenoid valve
Number of Combustion Section	4
Available Product Lines	Forced exhaust series with digital control
Matching Heat Exchanger Type	Air cooling

Valve Series



Valve for Natural Exhaust Series

Valve (Low Water Pressure Gas Valve)	
Gas Type	NG / LPG
Nominal Voltage	3V DC
Adaptable Gas Pressure	≤5 kPa
Start Pressure (Large Water Flow Mode)	Customizable
Start Pressure (Small Water Flow Mode)	Customizable
Applicable Water Pressure	Customizable
Gas Connection	G1 / 2
Cold Water Connection	G1 / 2
Gas Flow Regulation	√
Water Flow Regulation	Optional
Available Product Lines	Natural exhaust series with mechanical control



Valve for Natural Exhaust Series

Valve (Gas Water Linkage Valve)	
Gas Type	NG / LPG
Nominal Voltage	3V DC
Adaptable Gas Pressure	≤5 kPa
Start Pressure (Large Water Flow Mode)	Customizable
Start Pressure (Small Water Flow Mode)	Customizable
Applicable Water Pressure	Customizable
Gas Connection	G1 / 2
Cold Water Connection	G1 / 2
Gas Flow Regulation	√
Water Flow Regulation	Optional
Available Product Lines	Natural exhaust series with mechanical control



Valve for Natural Exhaust Series

Valve (Gas Valve)	
Gas Type	NG / LPG
Nominal Voltage	3V DC
Adaptable Gas Pressure	≤5 kPa
Start Pressure (Large Water Flow Mode)	/
Start Pressure (Small Water Flow Mode)	/
Applicable Water Pressure	/
Gas Connection	G1 / 2
Cold Water Connection	/
Gas Flow Regulation	√
Water Flow Regulation	/
Available Product Lines	Natural exhaust series with mechanical control



Valve for Forced Exhaust Series

Valve (Proportional Valve)	
Gas Type	NG / LPG
Nominal Voltage	24V DC
Adaptable Gas Pressure	≤5 kPa
Rated Power	≤15 W
Ambient Temperature	-20°C to +60°C (Ice-free state)
External Leakage	≤35mL/h (Intake pressure:15 kPa)
Internal Leakage	≤35mL/h (Intake pressure:5 kPa)
Available Product Lines	Forced exhaust series with digital control

