Infitek

MUFFLE FURNACES

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Infitek

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Muffle Furnace, 1200℃ High Temp, Box Type

FNC-BX1200-1 FNC-BX1200-2II FNC-BX1200-3
FNC-BX1200-6 FNC-BX1200-9

Key Features

1200℃ maximum operating temperature.

High purity fibrous alumina insulation for maximum energy saving.

PID automatic control via current limiting phase angle fired the resistor, e.g. SCR (Silicon Controlled Rectifier).

Power control with 30 segments programmable.

SAFETY

Double layer steel structure with air cooling fan to keep furnace's exteriors safe to touch.

Safety interlock with automatic power off the furnace when door is opened. (Optional)

Optional

① Different chamber size for your choose.

② Touch screen (with USB interface)

③ Computer connection software, control equipment (RKC, 16-segment program + interface + software)

Note: You can only choose one between ② and ③

Please Note

Heat up rate is measured by using an empty chamber.

Holding power is measured at continuous operating temperature.

FNC-BX1200-1

FNC-BX1200-2II FNC-BX1200-3
FNC-BX1200-6 FNC-BX1200-9

Specifications

Model		FNC-BX1200-1	FNC-BX1200-2II	FNC-BX1200-3	FNC-BX1200-6	FNC-BX1200-9
Temperature	Max. temp (℃)	1200				
	Continuous working temp. (℃)	≤1100				
	Heating rate	0 ~ 30℃/ min, suggest to be 15℃/ min				
	Accuracy (℃)	±1				
	Uniformity (℃)	±5				
Chamber Dimension(W*D*H)(mm)		100*100*100	150*200*150	200*300*120	200*300*200	300*400*300
		(Or customize as your requirement)				
External Size(W*D*H)(mm)		350*470*570	510*700*810	470*700*640	550*700*895	640*850*1050
Capacity(L)		1	4.5	7.2	12	36
Heating Element		Resistance wire with Mo				
Thermocouple		K type				
Chamber Material		High purity alumina polycrystalline fiber				
Electricity		AC 220V, 50Hz/60Hz	AC 220V, 50Hz/60Hz	AC 220V, 50Hz/60Hz	AC 220V, 50Hz/60Hz	AC 380V, 50Hz/60Hz
Max. Consumption (kW)		1	2	3	6	9

Muffle Furnace, High Temp, Box Type

FNC-BX1400-2 FNC-BX1400-4 FNC-BX1400-9 FNC-BX1400-16
FNC-BX1700-2 FNC-BX1700-4 FNC-BX1700-9 FNC-BX1700-16

Key Features

1400℃, 1700℃ maximum operating temperature.

High purity fibrous alumina insulation for maximum energy saving.

PID automatic control via current limiting phase angle fired the resistor, e.g. SCR (Silicon Controlled Rectifier).

Power control with 30 segments programmable.

Optional

① Different chamber size for your choose.

② Touch screen (with USB interface)

③ Computer connection software, control equipment (RKC, 16-segment program + interface + software)

Note: You can only choose one between ② and ③

Please Note

Heat up rate is measured by using an empty chamber.

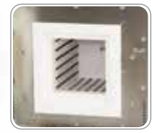
Holding power is measured at continuous operating temperature.

SAFETY

Double layer steel structure with air cooling fan to keep furnace's exteriors safe to touch.

Safety interlock with automatic power off the furnace when door is opened. (Optional)

FNC-BX1400-2
FNC-BX1700-2



FNC-BX1400-4 FNC-BX1700-4
FNC-BX1400-9 FNC-BX1700-9
FNC-BX1400-16 FNC-BX1700-16

Specifications

Model		FNC-BX1400-2	FNC-BX1400-4	FNC-BX1400-9	FNC-BX1400-16
Temperature	Max. temp (℃)	1400			
	Continuous working temp. (℃)	≤1300			
	Heating rate	0 ~ 30℃/ min, suggest to be 10℃/ min;			
	Accuracy (℃)	±1			
	Uniformity (℃)	±5			
Chamber Dimension (W*D*H)(mm)		100*100*100	150*200*150	200*300*200	300*400*300
		(Or customize as your requirement)			
External Size(W*D*H)(mm)		350*470*570	510*700*810	550*700*895	640*850*1050
Capacity (L)		1	4.5	12	36
Heating Element		SiC heating rod			
Thermocouple		S type			
Chamber Material		Alumina Ceramic fiber			
Electricity		AC 220V, 50Hz/60Hz			AC 380V, 50Hz/60Hz
Max. Consumption (kW)		2	4	9	16
Model		**FNC-BX1700-2**	**FNC-BX1700-4**	**FNC-BX1700-9**	**FNC-BX1700-16**
Temperature	Max. temp (℃)	1700			
	Continuous working temp. (℃)	≤1550			
	Heating rate	0 ~ 30℃/ min, suggest to be 5 ~ 10℃/ min			
	Accuracy (℃)	±1			
	Uniformity (℃)	±5			
Chamber Dimension (W*D*H)(mm)		100*100*100	150*200*150	200*300*200	300*400*300
		(Or customize as your requirement)			
External Size(W*D*H)(mm)		350*470*570	510*700*805	550*700*895	640*850*1050
Capacity (L)		1	4.5	12	36
Heating Element		MoSi2 heating rod			
Thermocouple		B type			
Chamber Material		Ceramic fiber			
Electricity		AC 220V, 50Hz/60Hz		AC 380V, 50Hz/60Hz	
Max. Consumption (kW)		2	4	9	16

Muffle Furnace, High Temp

FNC-AS1200-1 **FNC-AS1200-2** **FNC-AS1200-6** **FNC-AS1200-9**
FNC-AS1400-2 **FNC-AS1400-4** **FNC-AS1400-9** **FNC-AS1400-16**
FNC-AS1700-2 **FNC-AS1700-4** **FNC-AS1700-9** **FNC-AS1700-16**

Key Features

1200℃, 1400℃, 1700℃ maximum operating temperature.

High purity fibrous alumina insulation for maximum energy saving.

PID automatic control via current limiting phase angle fired the resistor, e.g. SCR (Silicon Controlled Rectifier).

Power control with 30 segments programmable.

SAFETY

Double layer steel structure with air cooling fan to keep furnace's exteriors safe to touch.

Safety interlock with automatic power off the furnace when door is opened. (Optional)

Box type atmosphere muffle furnace is suitablefor the colleges and universities, research institutes,industrial and mining enterprises do protectiveatmosphere sintering use. It is an ideal equipment inthe reductive atmosphere. A uniform temperature field,heating rate, energy saving, can inlet various gases, etc.

Optional

① Different chamber size for your choose.

② Touch screen (with USB interface)

③ Computer connection software, control equipment (RKC, 16-segment program + interface + software)

Note: You can only choose one between ② and ③

Please Note

Heat up rate is measured by using an empty chamber.

Holding power is measured at continuous operating temperature.

Specifications

Model		FNC-AS1200-1	FNC-AS1200-2	FNC-AS1200-6	FNC-AS1200-9
Temperature	Max. temp (℃)	1200			
	Continuous working temp. (℃)	≤1100			
	Heating rate	0 ~ 30℃/ min, suggest to be 15℃/ min;			
	Accuracy (℃)	±1			
	Uniformity (℃)	±5			
Chamber Dimension (W*D*H)(mm)		100*100*100	150*200*150	200*300*200	300*400*300
		(Or customize as your requirement)			
External Size(W*D*H)(mm)		650*600*865	670*600*930	660*750*1020	830*910*1265
Capacity (L)		1	4.5	12	36
Heating Element		Resistance wire, Fe-Cr-Al Alloy doped by Mo			
Thermocouple		K type			
Chamber Material		Alumina ceramic fiberboard			
Electricity		AC 220V, 50Hz/60Hz			AC380 V, 50Hz/60Hz
Gas available		all inert gases, mixed gases, nitrogen, oxygen, carbon monoxide, argon, etc.			
Gas control		One or more(optional) inlets can be set at the inlet end, each inlet is equipped with a ball valve and connected to a vacuum gauge. The outlet end is connected to an outlet hole and a vacuum hole, and all holes are equipped with ball valves. Equipped with a vacuum pump.			
Sealing method		The furnace door is milled with a flat surface and a silicone strip is embedded in the seal, which has strong sealing performance and is easy to open and close.			
Max. Consumption (kW)		1	2	6	9

Specifications

Model		FNC-AS1400-2	FNC-AS1400-4	FNC-AS1400-9	FNC-AS1400-16
Temperature	Max. temp (℃)	1400			
	Continuous working temp. (℃)	≤1300			
	Heating rate	0 ~ 30℃/ min, suggest to be 10℃/ min;			
	Accuracy (℃)	±1			
	Uniformity (℃)	±5			
Chamber Dimension (W*D*H)(mm)		100*100*100	150*200*150	200*300*200	300*400*300
		(Or customize as your requirement)			
External Size(W*D*H)(mm)		650*600*865	620*650*930	660*750*1020	830*910*1265
Capacity (L)		1	4.5	12	36
Heating Element		Silicon carbon rod			
Thermocouple		S type			
Chamber Material		Alumina ceramic fiberboard			
Electricity		AC 220V, 50Hz/60Hz			AC380V, 50Hz/60Hz
Gas available		all inert gases, mixed gases, nitrogen, oxygen, carbon monoxide, argon, etc.			
Gas control		One or more(optional) inlets can be set at the inlet end, each inlet is equipped with a ball valve and connected to a vacuum gauge. The outlet end is connected to an outlet hole and a vacuum hole, and all holes are equipped with ball valves. Equipped with a vacuum pump.			
Sealing method		The furnace door is milled with a flat surface and a silicone strip is embedded in the seal, which has strong sealing performance and is easy to open and close.			
Max. Consumption (kW)		2	4	9	16

Specifications

Model		FNC-AS1700-2	FNC-AS1700-4	FNC-AS1700-9	FNC-AS1700-16
Temperature	Max. temp (℃)	1700			
	Continuous working temp. (℃)	≤1550			
	Heating rate	0~20℃/min, suggest to be 5-10℃/min;			
	Accuracy (℃)	±1			
	Uniformity (℃)	±5			
Chamber Dimension (W*D*H)(mm)		100*100*100	150*200*150	200*300*200	300*400*300
		(Or customize as your requirement)			
External Size(W*D*H)(mm)		580*600*835	670*700*930	660*750*1020	830*910*1265
Capacity (L)		1	4.5	12	36
Heating Element		Silicon molybdenum rod			
Thermocouple		B type			
Chamber Material		Alumina ceramic fiberboard			
Electricity		AC 220V, 50Hz/60Hz		AC 380V, 50Hz/60Hz	
Gas available		all inert gases, mixed gases, nitrogen, oxygen, carbon monoxide, argon, etc.			
Gas control		One or more(optional) inlets can be set at the inlet end, each inlet is equipped with a ball valve and connected to a vacuum gauge. The outlet end is connected to an outlet hole and a vacuum hole, and all holes are equipped with ball valves. Equipped with a vacuum pump.			
Sealing method		The furnace door is milled with a flat surface and a silicone strip is embedded in the seal, which has strong sealing performance and is easy to open and close.			
Max. Consumption (kW)		2	4	9	16

Muffle Furnace,
High Temp, Tube / Horizontal Type

FNC-TB1200-A2 FNC-TB1200-B2 FNC-TB1200-C2 FNC-TB1200-D2
FNC-TB1200-A3 FNC-TB1200-B3 FNC-TB1200-C3 FNC-TB1200-D3
FNC-TB1200-A4 FNC-TB1200-B4 FNC-TB1200-C4 FNC-TB1200-D4

Key Features

1200°C maximum operating temperature;

PID automatic control via current limiting phase angle fired the resistor, e.g. SC R (Silicon Controlled Rectifier);

30 segments “time-temperature curve” can be set arbitrarily.

The tube furnace uses high-purity quartz or alumina tubes as furnace tubes. The furnace tubes are designed to be installed horizontally and the temperature zone is designed to be single zone.

Optional

Different chamber size for your choose.

Touch screen (with USB interface)

Computer connection software, control equipment (RKC, 16-segment program + interface + software)
Note: You can only choose one between 2 and 3

Safety interlock with automatic power off the furnace when door is opened.

Please Note

Heat up rate is measured by using an empty chamber.

Holding power is measured at continuous operating temperature.

SAFETY

Double layer steel structure with air cooling fan to keep furnace's exteriors safe to touch.

Specifications

Model		FNC-TB1200-A2	FNC-TB1200-B2	FNC-TB1200-C2	FNC-TB1200-D2
		FNC-TB1200-A3	FNC-TB1200-B3	FNC-TB1200-C3	FNC-TB1200-D3
		FNC-TB1200-A4	FNC-TB1200-B4	FNC-TB1200-C4	FNC-TB1200-D4
Temperature	Max. temp (℃)	1200			
	Continuous working temp. (℃)	≤1100			
	Heating rate	0 ~ 20℃/ min (suggest to be 0 ~ 10℃/ min)			
	Accuracy (℃)	±1			
	Uniformity (℃)	±5			
Furnace tube material		Quartz tube			
Total length of furnace tube (mm)		2 Series: 800 ; 3 Series: 1000 ; 4 Series: 1000 ;			
Standard Heating Zone Length (mm)		2 Series: 205 ; 3 Series: 350 ; 4 Series: 440 ;			
Standard Tube Diameter (mm)		∮40	∮60	∮80	∮100
External Size(W*D*H)(mm)		2 Series: 505*420*646 ; 3 Series: 650*420*665; 4 Series: 740*420*668 ;			
Heating Element		Resistance wire			
Thermocouple		K type			
Chamber Material		Alumina ceramic fiber			
Electricity		AC 220V, 50Hz/60Hz			

Muffle Furnace,
High Temp, Tube / Horizontal Type

FNC-TB1400-A2 FNC-TB1400-B2 FNC-TB1400-C2 FNC-TB1400-D2
FNC-TB1400-A3 FNC-TB1400-B3 FNC-TB1400-C3 FNC-TB1400-D3
FNC-TB1400-A4 FNC-TB1400-B4 FNC-TB1400-C4 FNC-TB1400-D4

Key Features

1400°C maximum operating temperature;

PID automatic control via current limiting phase angle fired the resistor, e.g. SC R (Silicon Controlled Rectifier);

30 segments “time-temperature curve” can be set arbitrarily.

The tube furnace uses high-purity quartz or alumina tubes as furnace tubes. The furnace tubes are designed to be installed horizontally and the temperature zone is designed to be single zone.

Optional

① Different chamber size for your choose.

② Touch screen (with USB interface)

③ Computer connection software, control equipment (RKC, 16-segment program + interface + software)

Note: You can only choose one between ② and ③

Please Note

Heat up rate is measured by using an empty chamber.

Holding power is measured at continuous operating temperature.

SAFETY

Double layer steel structure with air cooling fan to keep furnace's exteriors safe to touch.

Specifications

Model		FNC-TB1400-A2	FNC-TB1400-B2	FNC-TB1400-C2	FNC-TB1400-D2
		FNC-TB1400-A3	FNC-TB1400-B3	FNC-TB1400-C3	FNC-TB1400-D3
		FNC-TB1400-A4	FNC-TB1400-B4	FNC-TB1400-C4	FNC-TB1400-D4
Temperature	Max. temp (℃)	1400			
	Continuous working temp. (℃)	≤1300			
	Heating rate	0 ~ 20℃/ min (suggest to be 0 ~ 10℃/ min)			
	Accuracy (℃)	±1			
	Uniformity (℃)	±5			
Furnace tube material		Corundum tube			
Total length of furnace tube (mm)		2 Series: 800 ; 3 Series: 1000 ; 4 Series: 1200 ;			
Standard Heating Zone Length (mm)		2 Series: 205 ; 3 Series: 350 ; 4 Series: 440 ;			
External Size(W*D*H)(mm)		∮40	∮60	∮80	∮100
Standard Tube Diameter (mm)		2 Series: 630*590*767 ; 3 Series: 724*590*807 ; 4 Series: 794*590*800 ;			
Heating Element		SiC heating rod			
Thermocouple		S type			
Chamber Material		Alumina ceramic fiber			
Electricity		AC 220V, 50Hz/60Hz			

Muffle Furnace,
High Temp, Tube / Horizontal Type

FNC-TB1700-A2 FNC-TB1700-B2 FNC-TB1700-C2 FNC-TB1700-D2
FNC-TB1700-A3 FNC-TB1700-B3 FNC-TB1700-C3 FNC-TB1700-D3
FNC-TB1700-A4 FNC-TB1700-B4 FNC-TB1700-C4 FNC-TB1700-D4

CE

Key Features

1700°C maximum operating temperature;

PID automatic control via current limiting phase angle fired the resistor, e.g. SC R (Silicon Controlled Rectifier);

30 segments “time-temperature curve” can be set arbitrarily.

The tube furnace uses high-purity quartz or alumina tubes as furnace tubes. The furnace tubes are designed to be installed horizontally and the temperature zone is designed to be single zone.

Optional

① Different chamber size for your choose.

② Touch screen (with USB interface)

③ Computer connection software, control equipment (RKC, 16-segment program + interface + software)

Note: You can only choose one between ② and ③

Please Note

Heat up rate is measured by using an empty chamber.

Holding power is measured at continuous operating temperature.

SAFETY

Double layer steel structure with air cooling fan to keep furnace's exteriors safe to touch.

Specifications

Model		FNC-TB1700-A2 FNC-TB1700-A3 FNC-TB1700-A4	FNC-TB1700-B2 FNC-TB1700-B3 FNC-TB1700-B4	FNC-TB1700-C2 FNC-TB1700-C3 FNC-TB1700-C4	FNC-TB1700-D2 FNC-TB1700-D3 FNC-TB1700-D4
Temperature	Max. temp (℃)	1700			
	Continuous working temp. (℃)	≤1550			
	Heating rate	0 ~ 20℃/ min (suggest to be 0 ~ 10℃/ min)			
	Accuracy (℃)	±1			
	Uniformity (℃)	±5			
Furnace tube material		Corundum tube			
Total length of furnace tube (mm)		2 Series: 800 ; 3 Series: 1000 ; 4 Series: 1200 ;			
Standard Heating Zone Length (mm)		2 Series: 205 ; 3 Series: 350 ; 4 Series: 440 ;			
Standard Tube Diameter (mm)		∮40	∮60	∮80	∮100
External Size(W*D*H)(mm)		2 Series: 630*590*767 ; 3 Series: 724*590*807 ; 4 Series: 794*590*800 ;			
Heating Element		MoSi2 heating rod			
Thermocouple		B type			
Chamber Material		Alumina ceramic fiber			
Electricity		AC 220V, 50Hz/60Hz			
Package Dimension (W*D*H) (mm)		870*750*1220			
G.W.(kg)		176.5			

Muffle Furnace

FNC-BX1200-2.5E FNC-BX1200-5E FNC-BX1200-8E FNC-BX1200-10E

Key Features

P Type, 1200℃ maximum operating temperature.

High purity fibrous alumina insulation for maximum energy saving.

E Type: domestic Xianmen Yudian single-stage temperature controller.

Without E & P Type: Japaness conduction single-stage temperature controller.

P Type: PID automatic control via current limiting phase angle fired the resistor, e.g. SCR (Silicon Controlled Rectifier).

P Type: Japaness Fuji color LCD 64-segment programmed temperature controller.

Optional

Different chamber size for your choose.

LCD touch screen control for choose.

Please Note

Heat up rate is measured by using an empty chamber.

Holding power is measured at continuous operating temperature.

SAFETY

Double layer steel structure with air cooling fan to keep furnace's exteriors safe to touch.

Safety interlock with automatic power off the furnace when door is opened.

Specifications

Model		FNC-BX1200-2.5E	FNC-BX1200-5E	FNC-BX1200-8E	FNC-BX1200-10E
Heating Mode		Alloy wire heating in three sides left; right; top side.			
Temperature	Max. temp (℃)	1200			
	Accuracy (℃)	±1			
	Heating rate (min)	≤30			
Chamber Dimension (W*D*H)(mm)		120*200*80	200*300*120	200*300*200	250*400*160
External Size(W*D*H)(mm)		450*685*600	530*785*640	530*785*720	600*895*700
Capacity (L)		2	7	12	16
Heating Element		Alloy heating wire			
Thermocouple		K type			
Chamber Material		Ceramic fiber			
Outer Shell		Cold rolling steel electrostatic spraying exterior			
Temp. Control Mode		E type: Domestic Xianmen Yudian single-stage temperature controller			
		Without E type: Japaness conduction single-stage temperature controller			
Electricity		AC220V / 6.6A 50 / 60HZ	AC220V / 13.6A 50 / 60HZ	AC220V / 20.4A 50 / 60HZ	AC380V / 9.9A 50 / 60HZ
Max. Consumption (kW)		1.5	3.0	4.5	6.0

Muffle Furnace

FNC-BX1200-2.5ES FNC-BX1200-5ES FNC-BX1200-8ES FNC-BX1200-10ES
FNC-BX1200-2PS FNC-BX1200-7PS FNC-BX1200-12PS FNC-BX1200-16PS

Key Features

1200℃ maximum operating temperature.

High purity fibrous alumina insulation for maximum energy saving.

ES Type : Domestic Xiamen Yudian single-stage temperature controller.

S Type: Japanese conduction single-stage temperature controller.

PS Type: PID automatic control via current limiting phase angle fired the resistor, e.g. SCR (Silicon Controlled Rectifier).

PS Type: Japaness Fuji color LCD 64-segment programmed temperature controller.

Optional

Different chamber size for your choose.

LCD touch screen control for choose.

Please Note

Heat up rate is measured by using an empty chamber.

Holding power is measured at continuous operating temperature.

SAFETY

Double layer steel structure with air cooling fan to keep furnace's exteriors safe to touch.

Safety interlock with automatic power off the furnace when door is opened.

Specifications

Model		FNC-BX1200-2.5ES	FNC-BX1200-5ES	FNC-BX1200-8ES	FNC-BX1200-10ES
Heating Mode		Alloy wire heating in three sides left; right; top side.			
Temperature	Max. temp (℃)	1200			
	Accuracy (℃)	±1			
	Heating rate (min)	≤30			
Chamber Dimension (W*D*H)(mm)		120*200*80	200*300*120	200*300*200	250*400*160
External Size(W*D*H)(mm)		450*685*600	530*785*640	530*785*720	600*895*700
Capacity (L)		2	7	12	16
Heating Element		Alloy heating wire			
Thermocouple		K type			
Chamber Material		Ceramic fiber			
Outer Shell		cold rolling steel electrostatic spraying exterior			
Temp. Control Mode		ES type: Domestic Xiamen Yudian single-stage temperature controller			
		S type: Japanese conduction single-stage temperature controller			
Electricity		AC220V / 6.6A 50 / 60HZ	AC220V / 13.6A 50 / 60HZ	AC220V / 20.4A 50 / 60HZ	AC380V / 9.9A 50 / 60HZ
Max. Consumption (kW)		1.5	3.0	4.5	6.0

Model		FNC-BX1200-2PS	FNC-BX1200-7PS	FNC-BX1200-12PS	FNC-BX1200-16PS
Heating Mode		Alloy wire heating in three sides left; right; top side.			
Temperature	Max. temp (℃)	1200			
	Accuracy (℃)	±1			
	Heating rate (min)	≤30			
Chamber Dimension (W*D*H)(mm)		120*200*80	200*300*120	200*300*200	250*400*160
External Size(W*D*H)(mm)		450*685*600	530*785*640	530*785*720	600*895*700
Capacity (L)		2	7	12	16
Heating Element		Alloy heating wire			
Thermocouple		K type			
Chamber Material		Ceramic fiber			
Outer Shell		Stainless steel			
Temp. Control Mode		Japaness Fuji color LCD 64-segment programmed temperature controller			
Electricity		AC220V / 6.6A 50 / 60HZ	AC220V / 13.6A 50 / 60HZ	AC220V / 20.4A 50 / 60HZ	AC380V / 9.9A 50 / 60HZ
Max. Consumption (kW)		1.5	3.0	4.5	6.0