

44 ซอยบรมราชชนนี 70 ถนนบรมราชชนนี แขวงศาลาธรรมสพน์ เขตทวีวัฒนา กรุงเทพ 10170

โทร: 02-888-3472 โทร: ออกแบบ:08-08-170-170 แฟกซ์: 02-888-3258 https://www.add-furnace.com E-mail: sales@add-furnace.com

No. CP-SS-1895E

azbil

Specification

BC-R25 Series Burner Controller

Overview

BC-R25 Series burner controllers are combustion safety controllers specifically designed for batch operation (systems which start and stop at least once within 24 hours).

They ensure safety by automatically controlling the ignition, combustion monitoring, and fuel shutoff of oil and gas burners with on/off control. They are also equipped with a 7-segment display that can be used in maintenance, a trial operation mode that is convenient for trial operation and adjustment, and other features.

Additionally, the BC-R25 is equipped with host communications (RS-485) and Smart Loader Package functions, allowing troubleshooting and more detailed observation of status.

Features

Compliant with JIS standards

- Safe construction of combustion systems and equipment
 - Uses pre-purge and ignition timing in compliance with JIS B 8407:2012 (forced-air burners) and JIS B 8415:2008 (combustion equipment in compliance with the safety principles for industrial incinerators).
 - Uses POC (proof of closure) based on shutoff valve closure confirmation switch input
- JIS-compliant burner controller safety design
 - Safety design in compliance with JIS C 9730 (automatic electrical controls for household and similar use)
 - EN 298 compliance (certification pending)

Easy mounting and replacement

- DIN rail mounting
 - Easily mountable in the same way as other control devices and control relays
- Uses a sub-base structure
 - Structure separates the sub-base from the main unit It is possible to change only the main unit, leaving the wired-in sub-base in place



Extensive communications with external devices

- Equipped with a 7-segment display
 - 7-segment display for sequence codes and warning codes
- Press the DISP switch to display the flame voltage.
- External status output
- States such as ignition failure, flame failure, and combustion detected are output digitally (and used as panel displays)
- · Warning reset by contact input
- Equipped with a trial operation mode
- Combustion signal, ignition failure, and other states output can be forced to a monitor
- Wiring checks can be made
- Equipped with host communications (RS-485), allowing remote observation of status
- · Status checking by Smart Loader Package

■ Precautions on equipment instrumentation

(1) The equipment used in the combustion safety system was designed with careful consideration of laws, standards, safety guidelines, and the like. If the system is designed to a foreign specification, refer to laws and standards in the relevant country.

Main Safety Policies in Japan

- Technical Policy on Safety Standards for Combustion Equipment in Industrial Furnaces: Ministry of Health, Labour and Welfare
- Combustion equipment in compliance with the safety principles for industrial incinerators JIS B 8415
- Forced Draught Burners Part 1: Gas Burners JIS B 8407-1
- Forced Draught Burners Part 2: Oil Burners JIS B 8407-2
- The index of safety technology of industrial gas combustion equipment: Japan Gas Association
- Index of safety technology of gas boiler combustion facilities: Japan Gas Association
- (2) This device monitors for failures in the relay contacts used for combustion load (IG, PV, MV) output. An E09 error is output if a voltage occurs at a load terminal, due to a ground fault or wiring error, when this device is not outputting a load. If an E09 error occurs when this device is installed, recheck the wiring and eliminate the factors causing the error.
- (3) If the wiring from this device exceeds the recommended length, prevent malfunction due to the effects of external noise by running wires from the control panel to the casing through a conduit, keeping a distance between power lines and input lines, and other measures. Check the operation of the system on installation.
- (4) A reset signal must always be input near the equipment (burner, etc.), not remotely.

 If a reset is input while it is not possible to confirm safety, there is the risk of explosion.



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Specifications

	Item			Descr	ription					
Application		Batch-operated com	bustion systems burn	ning gas, o	il, or gas/oi	I mixture				
Compatible f	lame detector	AUD100/110/120 series UV sensor, flame rod								
Sequence	Sequence timing	Pre-purge	Pilot ignition (Main ignition) *1	Pilot only (Hi solenoid valve ignition standby)*1		Main ignition (Hi solenoid valve ignition) *1	Post purge			
		20s, 35s, 45s, 3 min (select by model number)	4.5±0.5 s	8.5:	±1 s	4.5±0.5 s	20±2 s			
	Flame response	AUD100/110	0/120 series UV sens	or		Flame rod				
		2 s max. (nominal 1.	5 s) (when flame volta	ge is 3 V)	2 s max.	nominal 1.5 s) (when	flame voltage is 2 V			
	Reset timing	1 s or longer (main ເ	unit reset switch or co	ntact reset	t input) *2					
	Alarm detection timing	False flame error	Airflow switch error 1		switch or 2	Lockout interlock error	POC (shutoff valve closu check) error			
		5 s	1 s		0 s	1 s max.	3 s			
	Airflow switch monitoring	,	r Airflow switch error	1, error 2)						
	Ignition failure	Depends on the mod	del							
	Flameout	Lockout								
Electrical specifica-	Rated power supply		c, or 220 V AC (deper	nding on th	e model), s	50 Hz or 60 Hz				
tions	Allowable power supply voltage	85 to 110 % of rated power supply								
	Power consumption	10 W or less								
	Voltage resistance	1500 V AC for 1 min, or 1800 V AC for 1 s Between each terminal and ground (the DIN rail clamp), except for combustion sensor connection terminals (terminals 14, 15)								
	Insulation resistance	At least 50 M Ω , 500 V DC megger Between each terminal and ground (the DIN rail clamp), except for combustion sensor connection nals (terminals 14, 15)								
	Contact rating	Blower motor (electromagnetic breaker)	Ignition transformer	Pilot valve (main valve Lo solenoid valve) *1		Main valve (main valve Hi solenoid valve) *1	Alarm			
		100 VA	300 VA	200) VA	200 VA	75 VA			
	Monitor outputs	4, maximum 30 mA	each			ı				
	Combustion detection level	When ignition is dete	0/120 series UV sens ected: 1.5 to 4.5 V DO xtinguished: 0.2 to 0.	Flame rod When ignition is detected: 1.5 to 4.5 V DC When detected as extinguished: 0.0 to 0.2 V DC						
	Flame voltage output	Recommended flame voltage: Must be stable at 2 V DC or above Recommended flame voltage: Must be stable at 2 V DC					/ DC or above			
	Input				1	Itage output range: 0				
	Life span	Startup, lockout interlock, contact reset, airflow switch, POC (shutoff valve proof of closure) Each input is a non-voltage contact input, with allowable contact resistance up to 500 Ω								
Transporta-	Ambient	10 years when used for eight hours per day, or 100,000 start/stop cycles (at 25 °C, constant temperature, rated voltage) -20 to +70 °C								
tion and storage	temperature Ambient humidity	5 to 95 % RH (no co	andensation)							
conditions	Vibration	,	150 Hz, 1 octave/min	ite 10 cvc	les in eacl	of XYZ directions)				
	Shock	0 to 300 m/s ²	130 F12, 1 Octave/IIIII	ute, 10 cyc	ies, iii eaci	TOTATE directions)				
	Packaged drop		ree drop onto 1 corne	ar 3 adaas	6 cidas)					
	test	oo ciii diop neigni (i	ree drop onto i come	er, 3 euges	, o sides)					
Operating conditions	Ambient temperature	-20 to +60 °C								
	Ambient humidity	10 to 90 % RH (no d	condensation)							
	Vibration	0 to 3.2 m/s ² (10 to 1	150 Hz, 1 octave/min	ute, 10 cyc	les, in eacl	n of XYZ directions)				
	Shock	0 to 9.8 m/s ²								
	Mounting angle	Reference plane +/-	10°							



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11	0	DO 405				
Host communi-	Communications standard	RS-485				
cation specifica-	Transmission route	3-wire system				
tions	Transmission speed	4800, 9600, 19200 bps				
	Transmission distance	Max. 500 m				
	Communication method	Semi-duplex				
	Synchronization method	Asynchronous				
	Data format	8 data bits, 1 stop bit, even parity, odd parity 8 data bits, 2 stop bits, even parity, odd parity				
	Device address	1 to 32				
	Connection method	1: N (max. 15 units)				
	Miscellaneous	Based on RS-485				
General specifica-	Protective structure	IP40 (with a sideboard (81447515-001) attached to the sub-base (BC-R05)) IP10 (sub-base (BC-R05) only)				
tions	Excess voltage category	II				
	Pollution degree	PD2				
	Case color	Black				
	Case material	Denatured PPE resin (UL94-V0 PTI materials group IIIa)				
	Structure	Sub-base and a main unit				
	Mounting orientation	Vertical or horizontal However, in horizontal mounting the 7-segment display must face directly upward (DIN rail mounting or direct mounting through base screw holes)				
	Standards	JIS C 9730-2-5: 2010 (Automatic Electrical Controls For Household And Similar Use - Part 2-5: Particular Requirements For Automatic Electrical Burner Control Systems) Compliant with JIS C 9730-1: 2010 (Automatic Electrical Controls For Household And Similar Use - Part 1: General Requirements)				
	Dimensions	W95 x H105 x D110 mm				
	Weight	Approximately 600 g (incl. sub-base)				
Wiring types and max. wiring length		 Start, airflow switch, lockout interlock, POC (shutoff valve proof of closure) Copper IV wire with 600 V vinyl insulation, 1.25 mm², recommended condition: 20 m or less, maximum wiring length: 100 m Contact reset Copper IV wire with 600 V vinyl insulation, 1.25 mm², maximum wiring length: 10 m AUD100 Series (F, G) Copper IV wire with 600 V vinyl insulation, 1.25 mm², maximum wiring length: 100 m Flame rod (F, G) RG-11U (JAN standard: US DoD compliant specification) or equivalent, 5C2V, 7C2V (JIS standard) Recommended condition: 20 m or less, maximum wiring length: 30 m RS-485 communications (3-wire system) 0.2 to 1.5 mm² shielded, twisted pair cable (recommended), maximum wiring length: 500 m Signal line for flame voltage output 				

^{*1} Item in () is for the case of direct ignition.

^{*2} In the case of post purge when there is a alarm, no reset input is accepted until post purge is complete. Also, reset input is not accepted if no alarm has occurred.



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Model serectin guide

(Note: The dedicated sub-base and sideboard are not provided with the BC-R25 series controller. Order them separately.)

● BC-R2	BC-R25 series Interrupted pilot type					II III	IV V VI VII Example: BC-R25B1G0500
1	II	III	IV	V	VI	VII	
Base model number	Commu- nications functions	Combus- tion sensor	Power supply	Function code	Timing code	Additional functions	Description
BC-R							Burner Controller
	25						RS-485, with Smart Loader Package function
		В					Flame rod (Ionization)
		С					UV sensor (AUD100/110/120)
			1				100 V AC
			2				200 V AC
			6				220 V AC
				G			Interrupted pilot type
					050		Pre-purge time 35 s
					086		Pre-purge time 45 s
					122		Pre-purge time 60 s
					158		Pre-purge time 3 min
						0	None VII
						D	With inspection record (with data)

● BC-R25	BC-R25 series Direct ignition type						IV V VI Example: BC-R25B1J0500
I	II	III	IV	V	VI	VII	
Base model number	Commu- nications functions	Combus- tion sensor	Power supply	Function code	Timing code	Additional functions	Description
BC-R							Burner Controller
	25						RS-485, with Smart Loader Package function
		В					Flame rod (Ionization)
		С					UV sensor (AUD100/110/120)
	•		1				100 V AC
			2				200 V AC
			6				220 V AC
				J			Direct ignition type
					014		Pre-purge time 20 s
					050		Pre-purge time 35 s
					086		Pre-purge time 45 s
					122		Pre-purge time 60 s
					158		Pre-purge time 3 min
						0	None
						D	With inspection record (with data)



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BC-R25 Recycling model Interrupted pilot type

I II III IV V VI Example: BC-R25B1H0500

I	II	III	IV	V	VI	VII	
Base model number	Commu- nications functions	Combus- tion sensor	Power supply	Function code	Timing code	Additional functions	Description
BC-R							Burner Controller
	25						RS-485, with Smart Loader Package function
		В					Flame rod (Ionization)
		С					UV sensor (AUD100/110/120)
			1				100 V AC
			2				200 V AC
			6				220 V AC
				Н			Interrupted pilot type
					050		Pre-purge time 35 s
					086		Pre-purge time 45 s
					122		Pre-purge time 60 s
					158		Pre-purge time 3 min
						0	None
						D	With inspection record (with data)

BC-R2	5 Recyclin	g model [Direct igni	tion type			V V VI Example: BC-R25B1K0500
l l	II	III	IV	V	VI	VII	
Base model number	Commu- nications functions	Combus- tion sensor	Power supply	Function code	Timing code	Additional functions	Description
BC-R							Burner Controller
	25						RS-485, with Smart Loader Package function
		В					Flame rod (Ionization)
		С					UV sensor (AUD100/110/120)
			1				100 V AC
			2				200 V AC
			6				220 V AC
				K			Direct ignition type
					050		Pre-purge time 35 s
					086		Pre-purge time 45 s
					122		Pre-purge time 60 s
					158		Pre-purge time 3 min
						0	None

With inspection record (with data)



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Compatible flame detector (sold separately)

UV sensor

Model number	Name	Notes			
AUD15C1000	Advanced UV sensor tube unit	Use a dedicated socket for the AUD100C/110C/120C			
AUD100C100_	Dedicated socket for the AUD15	AUD15C1000, sold separately			
AUD100C1000-A15	Lead wire type	AUD15C1000 in package			
AUD110C100_	Dedicated socket for the AUD15	AUD15C1000, sold separately			
AUD110C1000-A15	Terminal board type	AUD15C1000 in package			
AUD120C120_	Dedicated socket for the AUD15	Without G1/2 adapter, AUD15C1000, sold separately			
AUD120C121_	1/2-inch mounting type	With G1/2 adapter, AUD15C1000, sold separately			

_: 0: standard product, D: with inspection record (with data), T: tropicalization treatment (AUD110C only), B: with inspection record (with data) + tropicalization treatment (AUD110C only)

Flame rod

Model number	Name	Notes
C7007A	Flame rod holder	Discontinued
C7008A	Flame rod assembly	Discontinued

Options (sold separately)

opuono (oona o						
Model number	Product name	Notes				
BC-R05A100	Dedicated sub-base for BC-R	Required for all products in the BC-R25 series				
81447514-001	Connector for front wiring	Weidmueller model number : BL3.5/11F, compatible wire: 0.2-1.5mm²(AWG28-14)				
81447514-002	Connector for front wiring (For right-side wiring)	Weidmueller model number : BL3.5/11/270F, compatible wire: 0.2-1.5mm²(AWG28-14)				
81447515-001	Sideboards	Contains two. Not included in the sub-base.				
SLP-BCRJ71	Smart Loader Package (no cable)					
81441177-001	USB loader cable					
FSP136A100	Analog flame meter					
81447519-001	Jack and jack cover	(Included with the controller.)				
81447531-001	Front connector cover	Packaged with mounting screws (Included with the controller.)				
81447596-001	R4780/R4715-compatible mounting plate	For use when replacing R4715, R4780, R440H, R4751, or R4781				

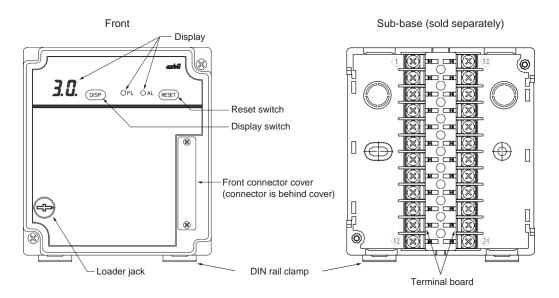


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Terminal numbers, front panel item names



Terminal numbers

Front connector terminals

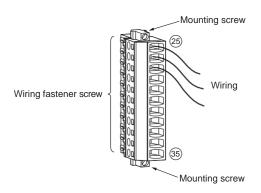
No.	Function	No.	Function
25	Flame voltage output (+)	31	Power supply for monitor output
26	Flame voltage output (-)	32	Monitor output, flame
27	Host communications (RS-485) DA	33	Monitor output, ignition failure
28	Host communications (RS-485) DB	34	Monitor output, flame failure
29	Host communications (RS-485) SG	35	Monitor output, lockout interlock input
30	NC	-	-

^{*1} After lockout is released, even if the start input is ON, the unit will not start for 5 seconds to ensure operation stability.

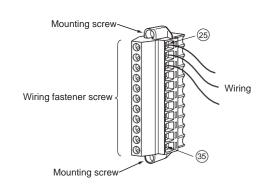
Sub-base terminals

No.	Function	No.	Function
1	Blower motor output (electromagnetic breaker)	13	Alarm output
2	AC power supply (L1)	14	Flame detector (F)
3	AC power supply (L2 (N))	15	Flame detector (G)
4	Output common 1	16	Input common 1
5	Output common 2	17	Input common 2
6	Ignition transformer output	18	NC
7	Pilot valve output	19	NC
8	Main valve output	20	Start input *1
9	NC	21	Airflow switch input
10	NC	22	Lockout interlock input
11	NC	23	POC (shutoff valve clo- sure check) input
12	NC	24	Contact reset input *2

Connector for front wiring (81447514-001) terminal layout



Connector for front wiring (for right side wiring) (81447514-002) terminal layout



^{*2} During post purge, reset is disabled for 20 seconds.



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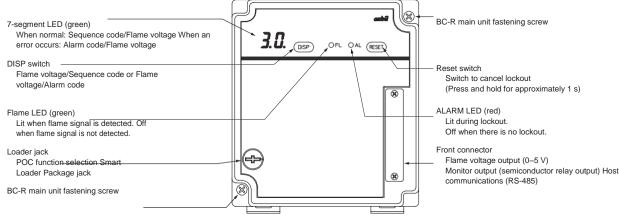
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7-segment display, LED display, switches

If this device detects a flame failure etc., it isolates the load and applies a lockout. During lockout, the relevant diagnostic function code is displayed on the 7-segment display.

Part Name



Alarm codes

Display	Name	Description				
E0	Interlock error	Lockout interlock				
E 1	False flame	Combustion signal was detected for 5s during start check and pre-purge				
E2	Airflow switch error 1	The airflow switch turned off during combustion				
E3 Airflow switch error 2		The airflow switch stayed on for 3 minutes during start check				
		The airflow switch did not turn on for 3 minutes after the start of pre-purge				
E6	Ignition failure	Ignition could not be detected with pilot ignition (interrupted pilot type)				
		Ignition could not be detected with main trial (direct ignition type)				
E 7	Flame failure	The flame signal disappeared in the sequence after pilot ignition (interrupted pilot type)				
		The flame signal disappeared in the sequence after main trial (direct ignition type)				
E 8	POC (shutoff valve closure check) error*	The shutoff valve closure check switch was detected to be off (open) when the main valve was closed				
		The shutoff valve closure check switch was detected to be on (closed) when the main valve was open				
EQ + Sub-code (2 digits)	Device error	Voltage error detected in output from the ignition transformer, pilot valve, or main valve, etc.				

^{*} Replace the burner controller, and if there is a warning code E8, POC may have been set by the equipment manufacturer as disabled.

Sequence codes

· Interrupted pilot type

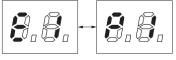
Display	Description
P 1	Start check
<i>P </i>	Pre-purge
₽₩	Pilot ignition
P 5	Pilot only
Рб	Main ignition
P8	RUN
P 9	Post purge
	Stop

· Direct ignition type

Display	Description
P 1	Start check
<i>P</i> ≥	Pre-purge
PЧ	Main ignition
P 5	Hi solenoid valve ignition standby
Р5	Hi solenoid valve ignition
P8	RUN
Pq	Post purge
	Stop

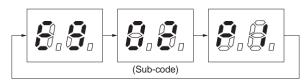
Examples of sequence codes and Alarm codes

• Alarm code: E0 to E8



Switches every 0.8 s

• Alarm code: E9 + sub-code (2 digits)



Switches every 0.8 s



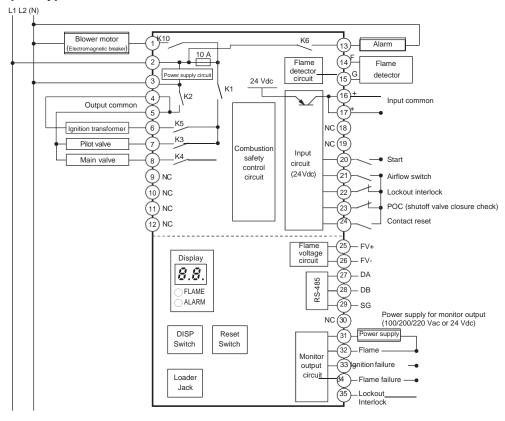
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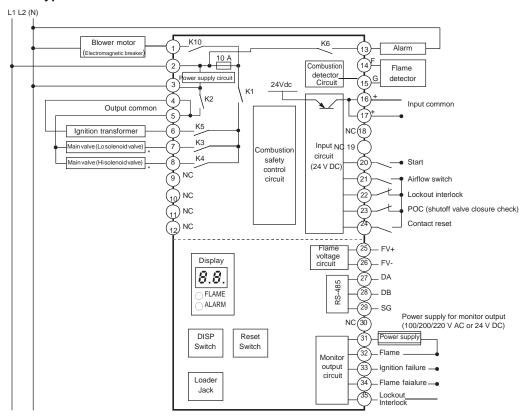
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Internal block circuit, external connection terminals (1-24 on sub-base, 25-35 on front connector)

Interrupted pilot type



Direct ignition type



Note - Use contact reset (terminal 24) input in isolation. It cannot be used in conjunction with other BC-R contact reset inputs.

⁻ Output common (terminals 4, 5) and input common (terminal 16, 17) cannot be used in conjunction with other BC-R.

^{*} Content in () describes the situation when three-position (Off-Lo-Hi) control is used. If other than three-position control is used, connect main valve to terminal 7.



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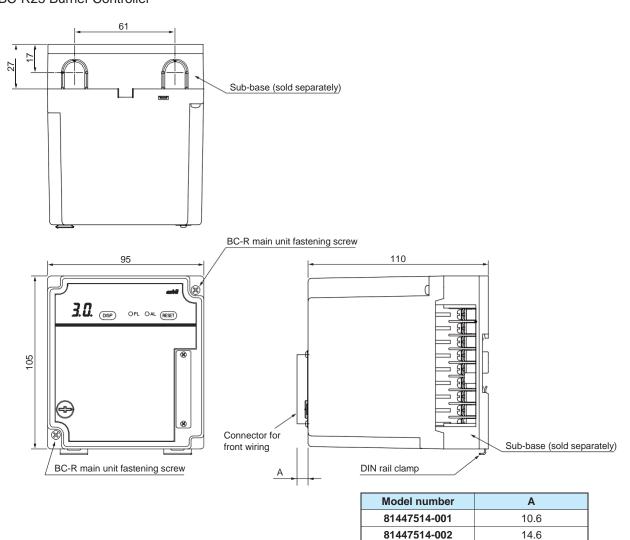
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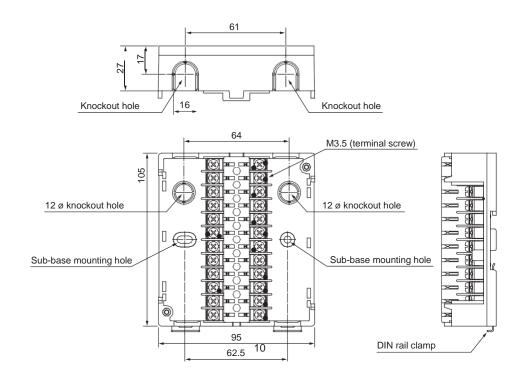
External dimensions

• BC-R25 Burner Controller

(Unit: mm)



• Sub-base BC-R05A100 (sold separately)





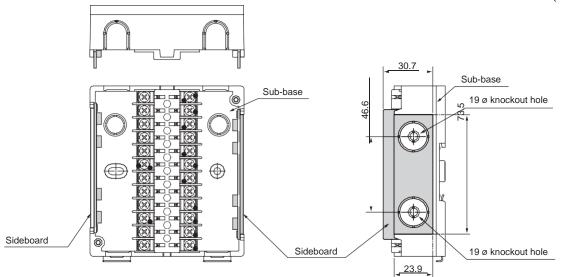
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โทร: 02-888-3472 โทร: ออกแบบ:08-08-170-170 แฟกซ์: 02-888-3258 https://www.add-furnace.com E-mail: sales@add-furnace.com

• Sideboard 81447515-001 (sold separately)

(Unit: mm)





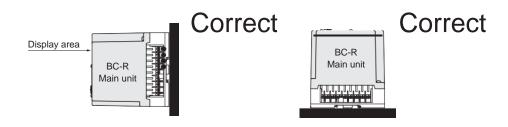
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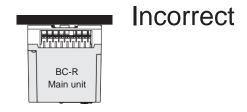
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Installation orientation

Install the device in the orientation shown below.

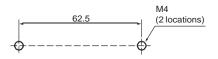


Do not install it in the orientations illustrated below.



Mounting in a panel

- [1] Drill two M4 screw holes into the panel.
- [2] Use screws to mount the sub-base on the panel. (Maximum tightening torque: 1.2 N m)



(Unit: mm)



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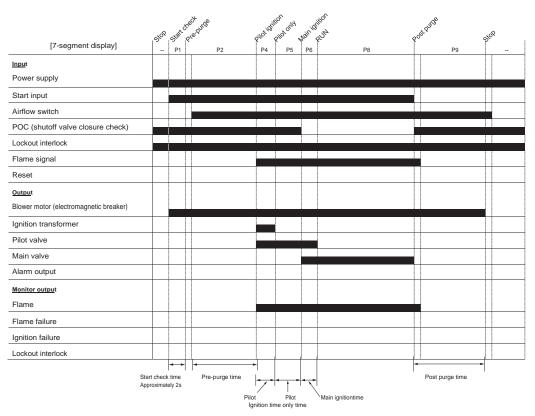
44 ซอยบรมราชชนนี 70 ถนนบรมราชชนนี แขวงศาลาธรรมสพน์ เขตทวีวัฒนา กรุงเทพฯ 10170

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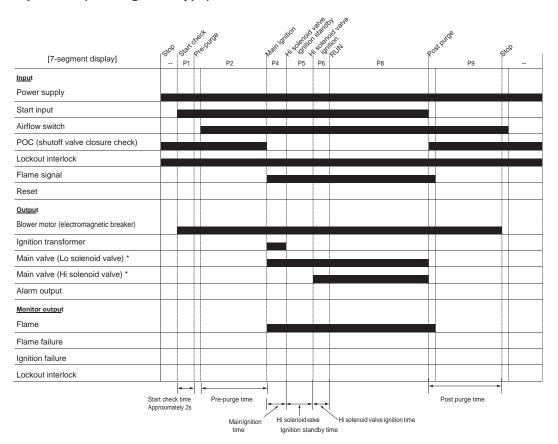
Operation sequence

About the sequence except Normal Operation, please refer to "BC-R25 User's manual No. CP-SP-1388E".

1-1. Normal operation (interrupted pilot type)



1-2 . Normal operation (direct ignition type)



^{*} Content in () describes the situation when three-position (Off-Lo-Hi) control is used. If other than three-position control is used, only look at the main valve (Lo solenoid valve).



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Customer Specification Check Sheet, BC-R25 Series

This sheet is for selecting the optimum BC-R25 Series product to suit the customer's specification. Use it to facilitate communications with our sales staff.

Equipment name		
Equipment summary		
Flame detector used (draw a circle around the applicable product)		Flame rod/ UV sensor (AUD100 Series)
(For a UV sensor: Write the model No.)		
Ignition method (circle the applicable product)		Direct ignition type/ interrupted pilot type
Power supply voltage (circle the applicable voltage)		100 V AC / 200 V AC / 220 V AC
Sequence	Pre-purge	Seconds or minutes
	Main ignition	s
	Post purge	s
	Flame response	s
RS-485 host communications (circle as appropriate)		Required / Not required
Input (Write whether or	Lockout interlock input	
not there is input, the specification, etc.)	Start input	
	Contact reset input	
	Airflow switch input	
	POC (shutoff valve closure check) input	
MEMO		