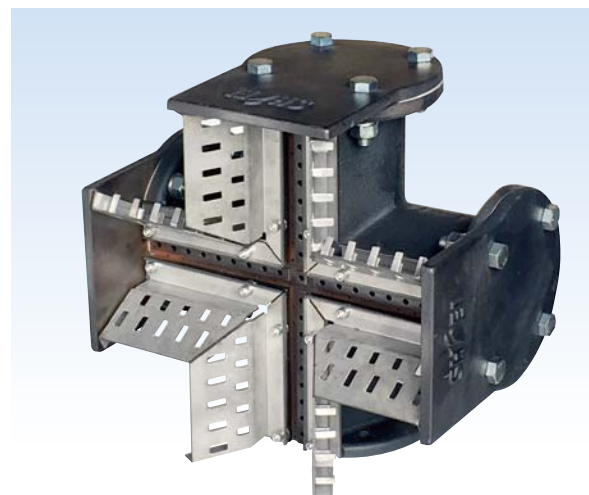**Induct burner**
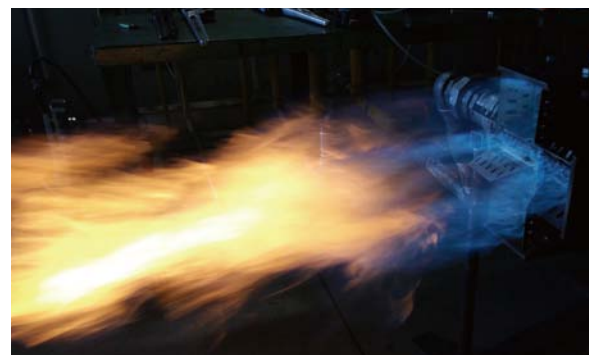
SHOEI
TOTAL ENERGY CREATOR

CBX burner

CBX

A burner for combustion in a duct for hot air generation which can be used in a wide range from small capacity to large capacity.

Feature

1. This burner is a universal burner used for generating hot air, it is unitized and it can be combined in plural, so it can be widely used from small capacity to large capacity.

2. Combustion is a premix blast combustion burner where a mixture of air and gas is sent in the mixer and burns.

3. Generally, about 70% of the combustion theory air is taken in a mixer, and about 30% of secondary air is obtained in a duct combustion chamber to complete combustion.

4. The burner flame hole consists of a main flame hole and a flameholding hole, it has a multi-flame hole type, it has a wide burning range as a premix burner, and the turndown ratio can take 1: 4～5.

5. Even against the high wind speed inside the combustion chamber by the windbreak plate, stable combustion is performed without fear of flashback, lift etc.
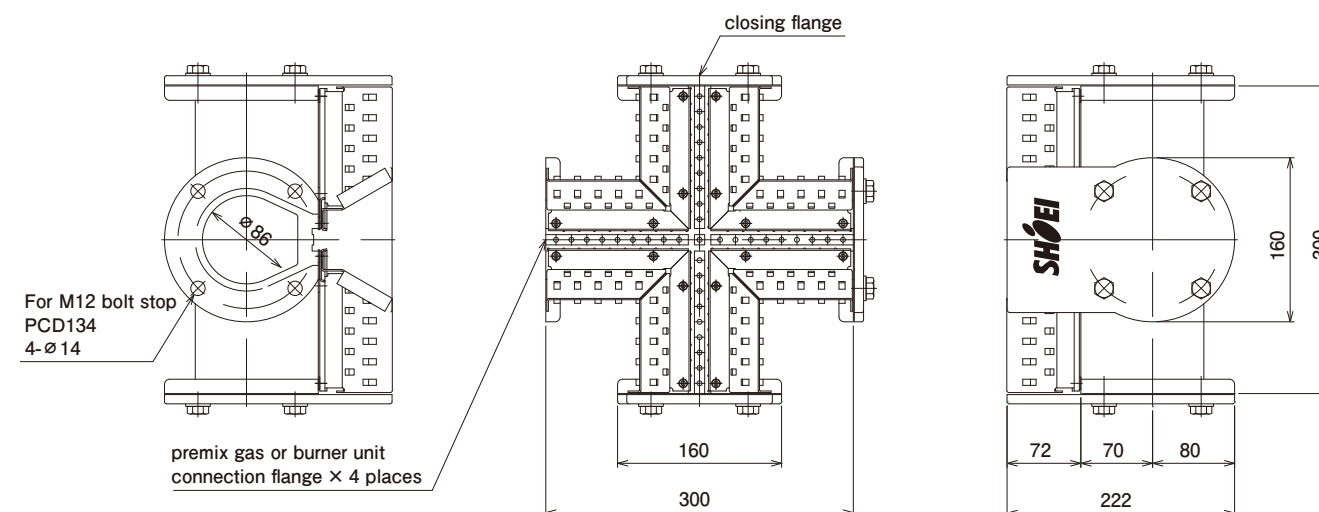
Main Usage

- Baking furnace (metal painting, plywood, resin etc.)
- Drying oven (drying of fiber, food, printing, metal draining etc.)
- Heating furnace (preheating furnace, pretreatment furnace, foaming furnace, heat set furnace, oil quenching furnace, etc.)
- Deodorizer (direct combustion · catalytic type etc), for any other hot air treatment

● flame

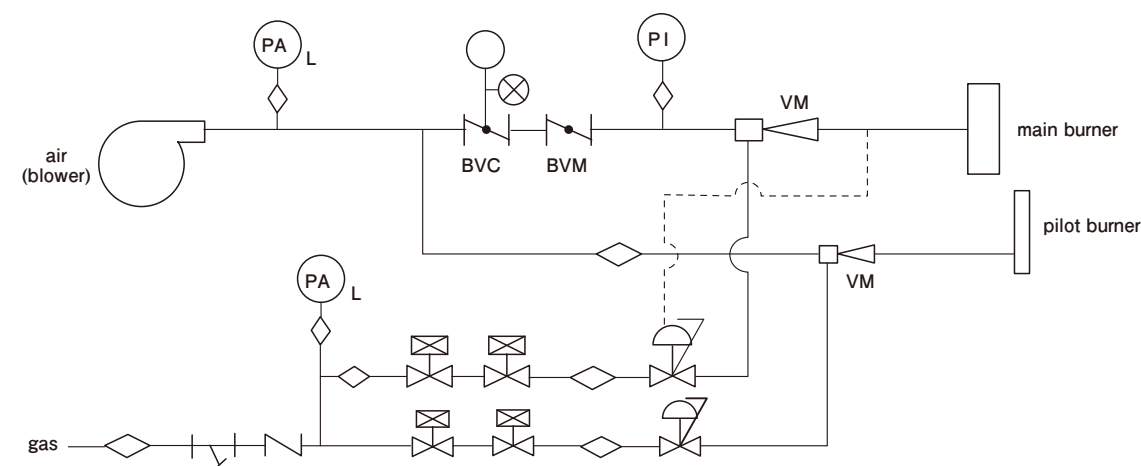### Specifications

Combustion capacity (kW)	13A	233
	LPG	
Combustion method		premix type

Overall size

closing flange

For M12 bolt stop
PCD134
4-ø14

ø86

premix gas or burner unit connection flange × 4 places

160

300

160

300

72 70 80

222

Example of piping flow sheet

■ Example of control motor link type Hi-Low control or proportional control

PA L

PI

VM

air (blower)

BVC BVM

main burner

pilot burner

PA L

VM

gas

Handling Precautions

● Handling Precautions
  13A gas　−0.5～+0.2kPa
  LP gas　　−0.5～+0.5kPa
● If the wind speed inside the duct is out of the proper range, it is necessary to add the corresponding pressure to the blower and gas supply pressure.
● Suitable wind speed range in duct　5m/s～20m/s
● Notes on duct installation
  Air Heater　Inlet side duct length　　500 mm or more
  　　　　　　Outlet duct length　　1000 mm or more