

NISSHO Iwai

KS BURNER



KS6000 Series

RADIANT WALL BURNERS

KS6100**Patented****Forced Draft Diffusion Gas Firing Radiant Wall Burner**

Provides maximum flexibility for retrofit of existing burners

Produces an ideal radiant flame with high turndown without forward flame movement

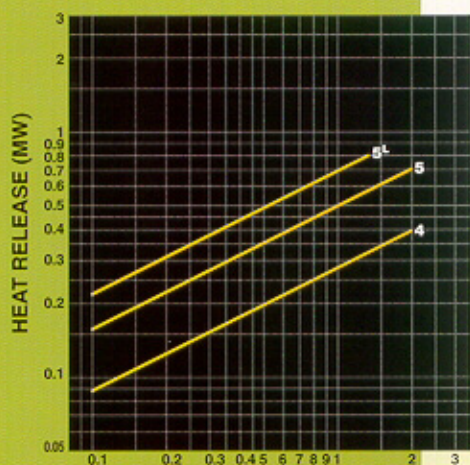
Furnished with rugged high-Aluminum burner tile and rigid tile support

Burn any combustible gaseous fuel from hydrogen to heavy hydrocarbons

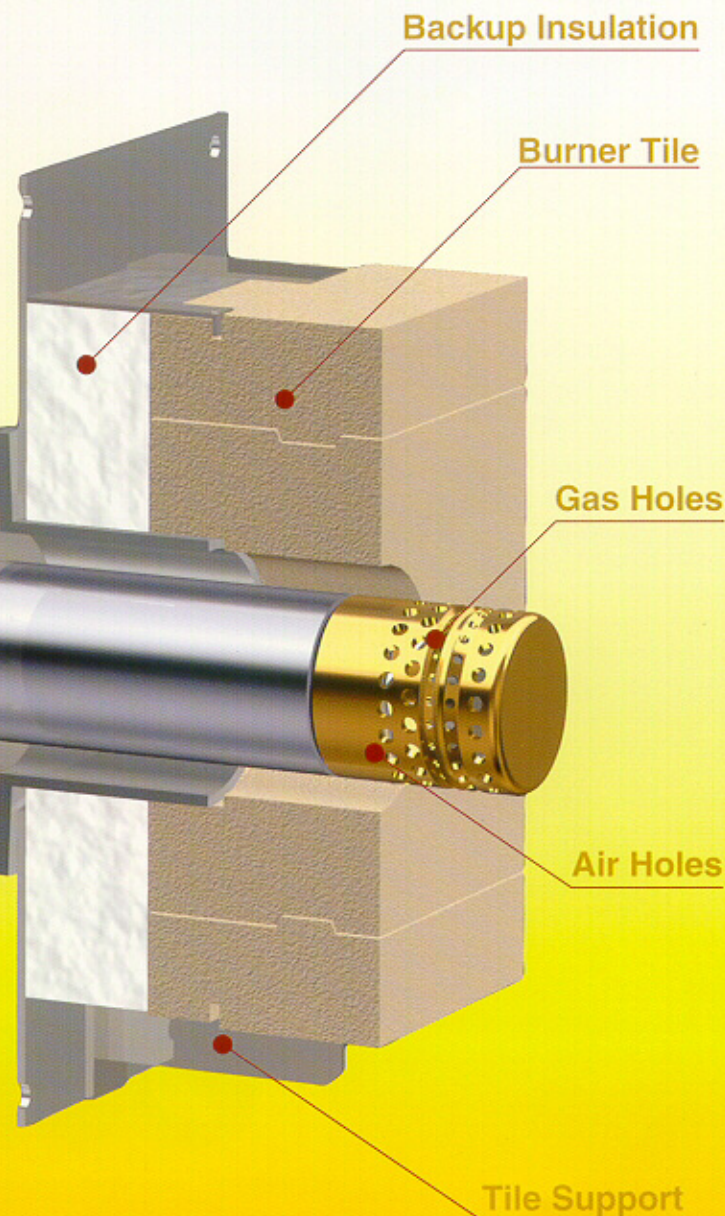
Uses any available combustion air - ambient fresh, preheated, gas turbine exhaust

Nozzle mix burner tip eliminates flashback

Also available in Low NOx configuration, - refer to model KS6600



AIR PRESSURE (KPa)
(at 15°C AIR TEMP., 10% EXCESS AIR)

BURNER HEAT RELEASE vs. AIR PRESSURE**Fuel Conn.****Air Damper**

KS6100 Burner is a product of unique technology proven over many years of commercial operations in Ethylene Furnaces, Hydrogen Reformers and other similar applications.

KS6100 is available in a range of capacities

KS6100-5.0 : upto 0.7 MW

KS6100-4.0 : upto 0.4 MW

Premix Gas Firing Radiant Wall Burner

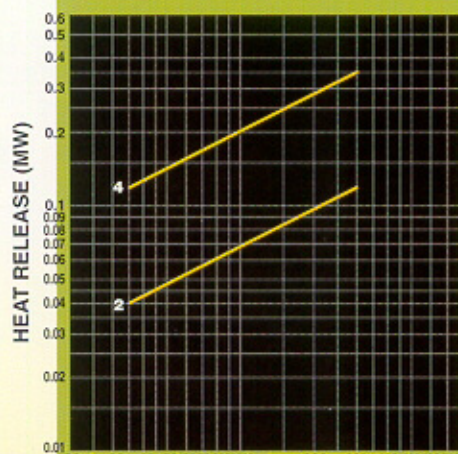
Produces an ideal radiant flame without forward flame movement
Furnished with rugged high-Aluminum burner tile and rigid tile support
Capable of 100% self-inspiring without opening the secondary air door
Burns light fuel such as 90% hydrogen without flashback
Also available in Low NOx configuration - refer to model KS6600P

Backup Insulation

Burner Tile

Gas Tip

Tile Support



FUEL PRESSURE (KPa)
(at 15°C AIR TEMP., 10% EXCESS AIR)
BURNER HEAT RELEASE vs. FUEL PRESSURE

Fuel Jet Orifice

Primary Air Door

Air Mixer

Secondary Air Door

KS6500 Burner design can be incorporated with natural or forced draft configuration, preheated combustion air and/or noise attenuation.

KS6500 is available in a range of capacities

KS6500-4.0 : upto 0.35 MW

KS6500-2.0 : upto 0.12 MW

Radiant Wall Burner

50%-60% lower NO_x emissions than from other radiant wall burners

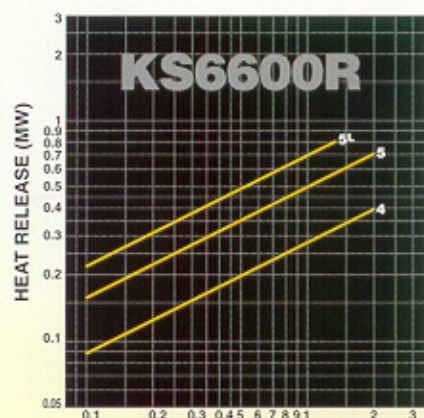
Provides maximum flexibility for retrofit of existing burners

Produces an ideal radiant flame with high turndown without no forward flame movement

Furnished with rugged high-Aluminum burner tile and rigid tile support

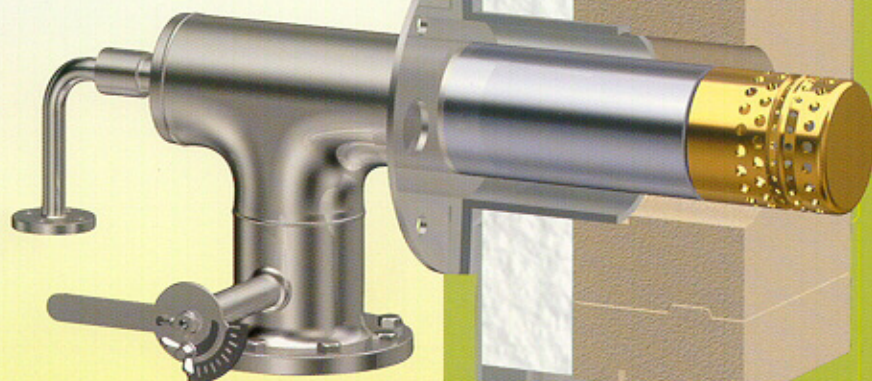
Burns any combustible gaseous fuel from hydrogen to heavy hydrocarbons

Uses any available combustion air - ambient fresh, preheated, gas turbine exhaust



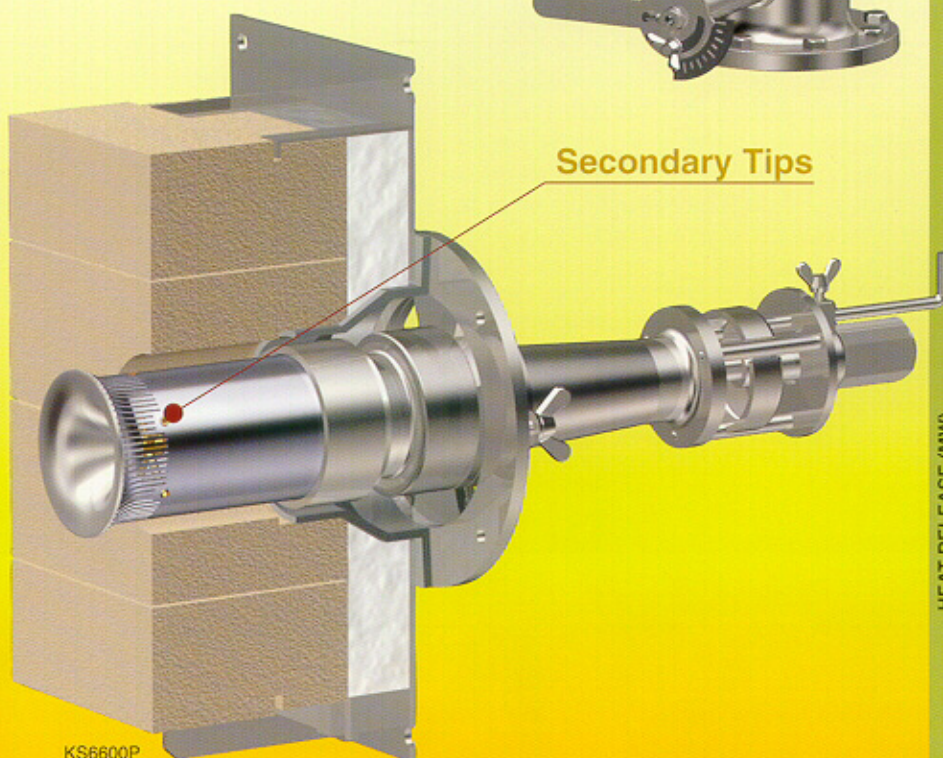
AIR PRESSURE (KPa)
(at 15°C AIR TEMP., 10% EXCESS AIR)

BURNER HEAT RELEASE vs. AIR PRESSURE

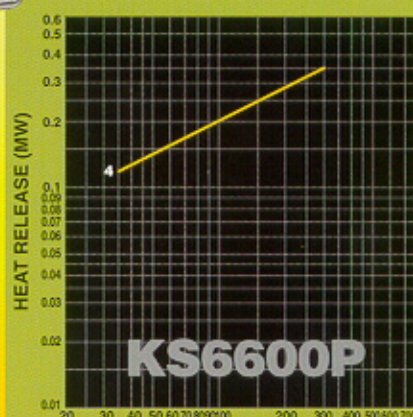


KS6600R

Secondary Tips



KS6600P



FUEL PRESSURE (KPa)

(at 15°C AIR TEMP., 10% EXCESS AIR)

BURNER HEAT RELEASE vs. FUEL PRESSURE

KS6600 Burner is a supreme example of best available Low NO_x design technology, its performance has been extensively proven at our test facilities and in commercial furnaces.

KS6600 is available in a range of capacities

Forced Draft (Diffusion Gas Firing) application

KS6600R-5.0 : upto 0.7 MW

KS6600R-4.0 : upto 0.4 MW

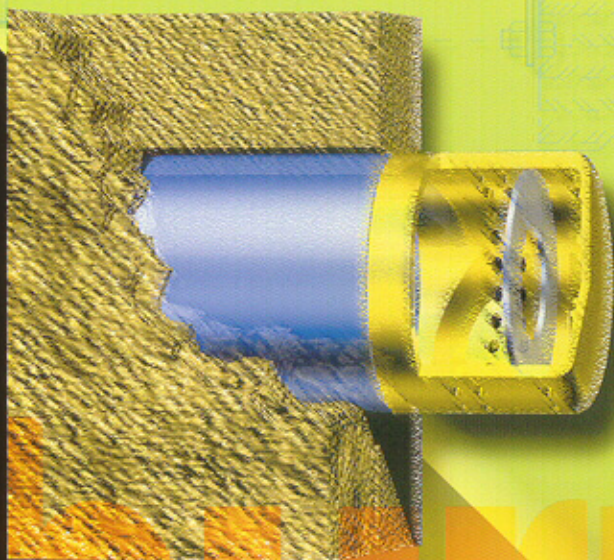
Natural Draft or Forced Draft (Premix Gas Firing) application

KS6600P-4.0 : upto 0.35 MW

HIGHLIGHTS OF KS6000 SERIES

KS6100 - Patented Forced Draft Diffusion Gas Firing Radiant Wall Burner

Developed in 1985 specifically for forced draft application. Since co-generation (waste heat recovery) has been rapidly integrated in the Industries in 80's, KS6100 has satisfied the comprehensive requirements in retrofitting of existing old-fashioned wall burners.



KS6500 Premix Gas Firing Radiant Wall Burner

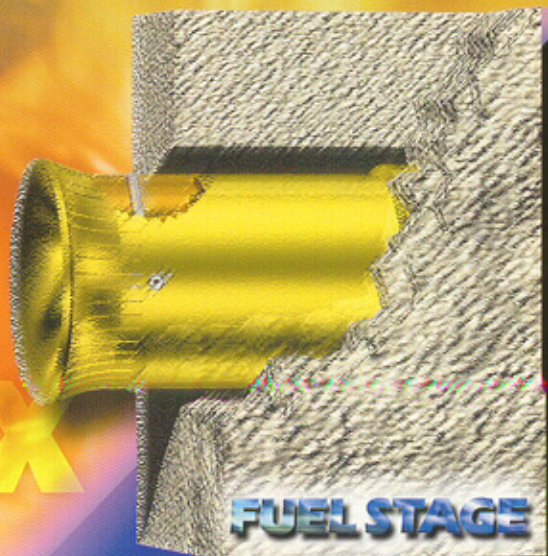
Can be capable of 100% inspirating without opening of the secondary air door.

90% hydrogen can be burned without flashback, it realises longer life of gas tips and may optimum fuel balance of whole plant.

KS6600 FUEL-STAGE Low NOx Gas Firing Radiant Wall Burner

40 to 50% NOx reductions can be achieved by the most economical solution provided by KS6600, just take out the existing burners and replace with KS6600.

No modification of furnace wall required, only small changes to the burner fuel pipe work may be necessary.



NISSHO IWAI

NISSHO IWAI CHEMIMAC TOKYO CORPORATION

Sales Office

3-9-5, Iwamotocho, Chiyoda-ku, Tokyo 101-0032 Japan
PHONE:81(3)5823-2020 FAX:81(3)5823-2025

Design Office

443-3, Tamotsu, Yoshikawa, Saitama 342-0041 Japan
PHONE:81(489)82-4852 FAX:81(489)82-4831



LANEMARK
INTERNATIONAL

Lanemark House, Whitacre Road, Nuneaton, Warwickshire CV11 6BW United Kingdom

Tel: +44 (0) 24 7635 2000 Fax: +44 (0) 24 7634 1166

E-mail: info@lanemark.com Web site: <http://www.lanemark.com>