

SELF RECUPERATIVE AND RADIANT TUBE BURNERS

ECOMAX

For flue gas return through the burner

Overview



Self-Recuperative burner to help reduce NOx and improve fuel efficiency.

Features & Benefits:

- Burners with integrated recuperator for direct or indirect heating of furnace systems
- 3 versions: with ceramic burled tube recuperator, cast steel ribbed tube recuperator or flat tube recuperator
- 7 sizes from 25 to 500 kW
- Direct ignition and monitoring
- Gas type: natural gas, town gas, LPG or LCV gas
- Flame velocity: 120 to 150 m/s
- Control: ON/OFF

More Information:

- [Technical Information for ECOMAX](#)
- [Find products in ProFi for ECOMAX](#)
- [Find products in ProFi for EJEK](#)
- [Find products in ProFi for FGT-Set](#)
- [Find products in ProFi for FLUP](#)
- [Find spare parts in PartDetective for ECOMAX](#)

Specifications

PROCESSING & PERFORMANCE METRICS

Adjusting Range

- 60 to 100%

Capacity Range

- 25 to 500 kW (LHV)

CONNECTIONS & INTERFACES

VAH Connection Set

- Gas control line connection



IGNITION, FLAME & SUPERVISION SPECIFICATIONS

UV Adapter Set

- For UV sensor installation

Ignition Type

- Direct Spark Ignition

Flame Velocity

- Approximately 130-170 m/s

Flame Control

- Ionization (UV optional)

AIR & COMBUSTION AIR SPECIFICATIONS

Purge Air/Cooling Air Nozzles

- Prevent condensation and overheating

CONTROL, LOGIC & SYSTEM BEHAVIOR

Operating Modes

- ON/OFF, intermittent operation

DIMENSIONS & SIZE SPECIFICATIONS

Number of Sizes

- 7 sizes (ECOMAX 0 to ECOMAX 6)

AIR/EXHAUST/FLUE GAS TEMPERATURES

Maximum Flue Gas Temperature

- C Recuperator - 1250 deg C (2282 deg F)
- F Recuperator - 1050 deg C (1922 deg F)
- M/P Recuperator - 1150 deg C (2102 deg F)

Maximum Air Preheat Temperature

- Up to approximately 650 deg C

MATERIAL SPECIFICATIONS

Material

- Cast Aluminium, Double-Wall Design

ELECTRICAL SPECIFICATIONS

Maintenance Interval

- Twice per year (more frequent if media is contaminated)

INSTALLATION & MOUNTING SPECIFICATIONS

Installation Orientation

- Horizontal, vertical, or angled (within limits)

THERMAL, FLOW & PROCESS CHARACTERISTICS

Heating Type

- Direct heating and radiant tube heating



FUEL, GAS & MEDIA SPECIFICATIONS

- Gas Type
- Natural Gas, LPG, Coke Oven Gas, Low Calorific Value Gas

CONTROL, LOGIC & FUNCTIONAL BEHAVIOR

- Control Type
- On/Off

COMBUSTION, MIXING & FUEL DYNAMICS

- Combustion Principle
- Two-stage combustion with internal flue gas heat recovery

PRODUCT DESIGN & CONFIGURATION

- Burner Versions
- ECOMAX..C, ECOMAX..M, ECOMAX..P, ECOMAX..F

OVERVIEW

- Burner Type
- Self-recuperative gas burner

STANDARDS & CERTIFICATIONS

- Approvals
- Machinery Directive 2006/42/EC, Eurasian Customs Union

APPLICATIONS & COMPATIBILITY

- Applications
- Direct and radiant tube heating

Filters

▼ CATEGORY

☒ Spare Part

☒ Base Part

▼ TYPE

☒ Self-Recuperative Burner

☒ Insulation Casing

☒ Flue Gas Guide Tube Set

☒ AGT Unit

☒ Gas Lance

☒ Casing Unit

☒ Combustor Chamber

🔍 Search

Part Number	101034688
Description	BRNR, ECOMAX 5C545 SB/D DA3UA S31 B LBE21
Category	Base Part
Type	Self-Recuperative Burner
	Order Online

Part Number	HK107707
Description	COMB CHMBR, ECOMAX 3M LBE 107707
Category	Spare Part
Type	Combustor Chamber
	Order Online
Part Number	HK403794
Description	GSKT, ECOMAX 5, FLUE GAS GD TB KAOWOOL, 1/8
Category	Spare Part
Type	Gasket
	Order Online
Part Number	HK404396
Description	GSKT, ECOMAX 3M, FLUE GAS GD TB KAOWOOL, 1/
Category	Spare Part
Type	Gasket
	Order Online
Part Number	KS03109712
Description	O-Ring, 48.0 x 2.0, FKM 70 Shore Green
Category	Spare Part
Type	O-Ring
	Order Online
Part Number	KS21106082
Description	FGTA-Set ECO 2C545-Z
Category	Spare Part
Type	Flue Gas Guide Tube Set
	Order Online
Part Number	KS21800135
Description	Gehaeuse-Einheit Eco 1C / 2C-W
Category	Spare Part
Type	Housing Unit
	Order Online
Part Number	KS21800155
Description	Intermediate flange AGT Eco 3C+
Category	Spare Part
Type	Intermediate Flange
	Order Online
Part Number	KS21800499
Description	FGT-SET ECO 5M545-D
Category	Spare Part
Type	Flue Gas Guide Tube Set
	Order Online
Part Number	KS21800509
Description	SET GUANRIZIONI ECO 5C
Category	Spare Part
Type	Gasket Set
	Order Online

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Gehaeuse-Einheit Eco 1C / 2C-W

KS21800155
Intermediate flange AGT Eco 3C+

KS21800155
Intermediate flange AGT Eco 3C+

KS21800499
FGT-SET ECO 5M545-D

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FGT-SET ECO 5M545-D



KS21800509

SET GUANRIZIONI ECO 5C

KS21800509

SET GUANRIZIONI ECO 5C

