



Catalytic incineration units for specialty roasting

ReiCat develops, produces and installs process plants for gas treatment worldwide.

With more than 35 years of experience and over 800 delivered systems and manufacturing "made in Germany" we guarantee highest efficiency and reliability to our customers.



Always delivering efficient and environmental-friendly systems with minimal energy consumption.

■ **MADE**
■ **IN**
■ **GERMANY**



Catalytic Incineration

Function

Design

Advantages

Technical Data



Function

During the coffee roasting process, harmful substances arise mainly in the form of hydrocarbons (C_xH_y), which are dangerous for health and environment

Additional fumes and unpleasant odours occur during this process. With the ReiCat Catalyst the micro particles, odours, smoke, plumes and hydrocarbons are converted into harmless substances such as water vapour (H_2O) and carbon dioxide (CO_2) by using a combination of techniques.

Shop



Batch range:
5 – 25 kg
Exhaust air flow:
100 – 450 Nm³/h

Gourmet



Batch range:
30 – 60 kg
Exhaust air flow:
500 – 900 Nm³/h

Industrial



Batch range:
90 – 720 kg
Exhaust air flow:
950 – 7500 Nm³/h

Design

All models are equipped with ceramic honeycomb catalysts which are nonflammable and not influencing the roasting process at all.

The unit size depends of the result desired:

- Elimination of smoke and odors
- Smoke and odors elimination, reduction of VOCs, Formaldehyde and NO_x according to the technical instructions on air quality control (TA-Luft)

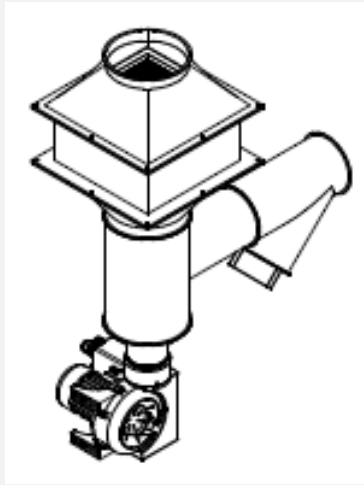


Advantages

- Most effective reduction of odors and contaminations
- Permanent compliance of the legal regulations limits:

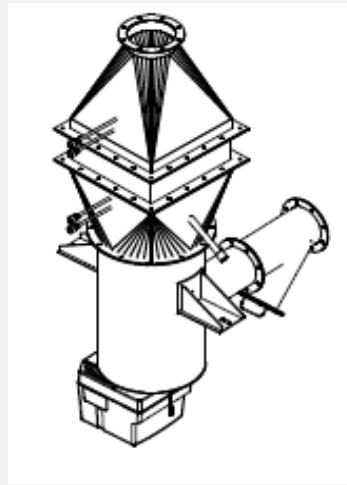
VOCs	< 35 mg/Nm ³
Formaldehyde	< 15 mg/Nm ³
NOx	< 350 mg/Nm ³
- Easy retrofitting at existing roasters
- Low operation and maintenance costs
- Around 50% reduction of primary energy consumption compared with the afterburners
- Long lifetime

Shop



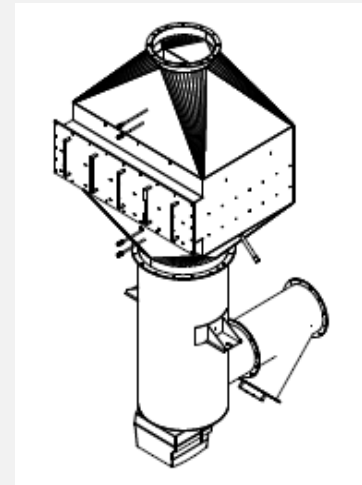
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Industrial



Batch range:
90 – 720 kg
Exhaust air flow:
950 – 7500 Nm³/h

Technical Data

Working temperature:
250 – 280 °C

Heat blower Power supply:
230 V / 50 – 60 Hz

Electrical heat blower output:
11 kW

Insulation:
approx. 60 mm

Flange inlet:
DIN 24151 (NW 150)

Flange outlet:
DIN 24151 (NW 200)

Working temperature:
250 – 400 °C (max. 600 °C)

Burner Power supply:
230 V / 50 – 60 Hz

Gas burner output:
26 – 130 kW
(depending of unit size)

Fuel:
G20 (L.C.V.8.570 kcal/Nm³)

Insulation:
approx. 120 mm

Flange inlet:
DIN 24154 T2 (NW 180)

Flange outlet:
DIN 24154 T2 (NW 200)

Working temperature:
250 – 400 °C (max. 600 °C)

Burner Power supply:
230 V / 50 – 60 Hz

Gas burner output:
140 – 500 kW
(depending of unit size)

Fuel:
G20 (L.C.V.8.570 kcal/Nm³)

Insulation:
approx. 120 mm

Flange inlet:
DIN 24154 T2 (NW 250 – 500)

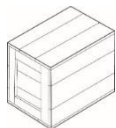
Flange outlet:
DIN 24154 T2 (NW 355 – 800)

Scope of Supply

Components	Models						
	ReiCatino KNV450	Gourmet		Industrial			
Design A: inlet temperature 150 - 230 °C	KNV450	KNV600	KNV900	KNV1600	KNV3200	KNV5000	KNV7500
Catalytic chamber	*	*	*	*	*	*	*
Honeycomb catalysts	*	*	*	*	*	*	*
Burning chamber	*	*	*	*	*	*	*
Electric hot air blower	*						
Gas burner		*	*	*	*	*	*
Pressure difference sensor		*	*	*	*	*	*
Temperature sensor	*	*	*	*	*	*	*
Prefilter	*	*	*	*	*	*	*
Design B: inlet temperature 400 - 550 °C		Gourmet		Industrial			
		KNV600	KNV900	KNV1600	KNV3200	KNV5000	KNV7500
Catalytic chamber		*	*	*	*	*	*
Honeycomb catalysts		*	*	*	*	*	*
Pressure difference sensor		*	*	*	*	*	*
Temperature sensor		*	*	*	*	*	*

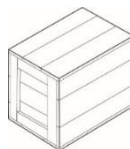
Packaging

Shop



Package size (LxWxH):
600 x 600 x 1200 mm
Packaging weight:
300 kg

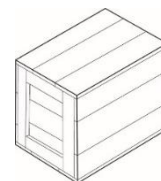
Gourmet



Design A (approx.):
Package size (LxWxH):
2500 x 800 x 900 mm –
2500 x 900 x 1000 mm
Packaging weight:
580 – 680 kg

Design B (approx.):
Package size (LxWxH):
2500 x 800 x 900 mm –
2500 x 900 x 1000 mm
Packaging weight:
450 – 550 kg

Industrial



Design A (approx.):
Package size (LxWxH):
3200 x 1200 x 800 mm –
4500 x 2000 x 1700 mm
Packaging weight:
900 – 1500 kg

Design B (approx.):
Package size (LxWxH):
2000 x 1200 x 800 mm –
2500 x 2000 x 1700 mm
Packaging weight:
650 – 1250 kg