

ReiCat

Gourmet



catalytic air purification

SOLUTIONS FOR SPECIALTY ROASTERS

www.reicat-coffee.com

The ReiCat Gourmet provides a compact solution for small and medium sized specialty roasters with the following options:

Option 1

Neutralisation of smoke and odour plumes

Option 2

Compliance with legal regulations for air quality control

- **Formaldehyde** < 15 mg/Nm³
(< 5 mg/Nm³ if required)
- **VOCs** < 50 mg/Nm³
(< 20 mg/Nm³ if required)
- **NO_x** < 350 mg/Nm³
(aspired)
- **CO** < 100 mg/Nm³

The focus is on an all-time conversion of exhaust air that is harmful for health and environment into harmless and odourless air.

YOUR ADVANTAGES

- ✓ neutralisation of smoke and odour plumes
- ✓ low-maintenance & user-friendly
- ✓ effective reduction of emissions
- ✓ environmentally-friendly & energy-efficient
- ✓ simple upgrade of existing roasters
- ✓ integrated safety concept (control cabinet)
- ✓ low operating costs

Do you have trouble?

Smoke and unpleasant odours are occurring during the coffee roasting process

Neighbours are complaining

Authorities impose conditions

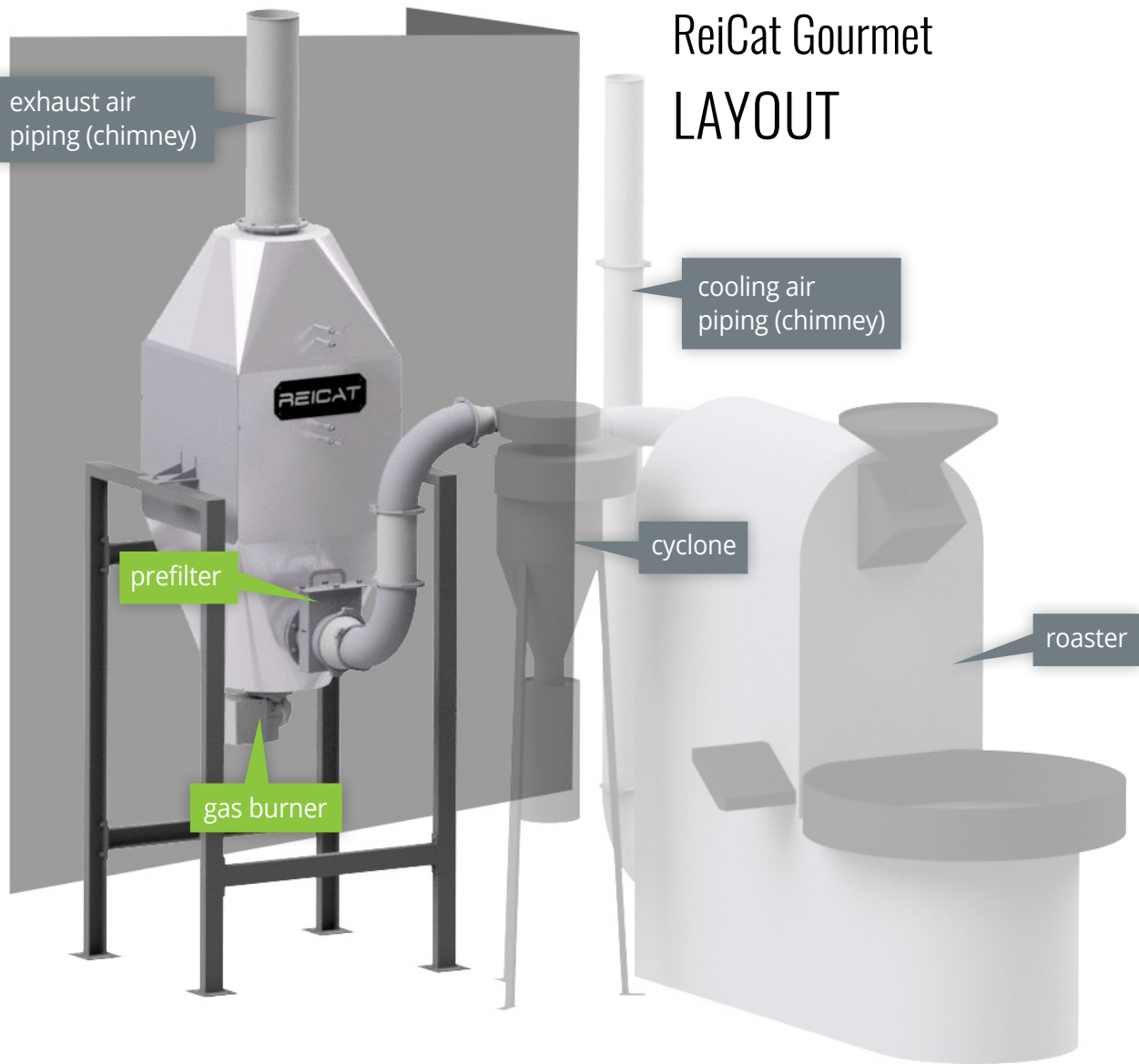
ReiCat offers your ideal solution!

Our ReiCat Gourmet can easily be integrated into your roasting process - independent of your roaster

A gas burner heats up the roasting air to the required working temperature of the catalyst

The catalyst converts smoke and odour plumes into harmless, odourless air (option 1). If required, the catalyst complies with emission reduction specifications of your country (option 2)

Suitable for roasters from 30 kg up to 60 kg per batch with a capacity up to 600 Nm³/h



ReiCat Gourmet LAYOUT

Scope of delivery ReiCat Gourmet
gas burner / prefilter

Not in scope of delivery
roaster / cyclone

ReiCat Gourmet

SCOPE OF DELIVERY

Dimensions catalyst chamber

2000 x 1068 x 900 mm (H x W x L)
(insulation included)

Prefilter

Filters coffee chaffs out of the exhaust air,
that can't be captured by the on-site cyclone

Control cabinet

Mounting frame

*(optional delivery scope,
individual frames on request)*

Design colour

Catalyst chamber: silver

TECHNICAL DATA

Roasting exhaust air amount

max. 600 Nm³/h

Max. burner capacity

25 - 70 kW (depends on the roaster's
outlet temperature)

Inlet/outlet flange

NW 200

Utility supply

Gas burner

Material

Stainless steel

Weight

Approx. 200 kg *(insulation included)*

ENERGY CONSUMPTION AFTERBURNER VS. CATALYTIC CONVERTER

	Gas consumption (kW)	Gas price per kWh	Gas consumption (1 day per 8 hours)	Gas consumption per year	Costs per day*	Costs per year*
After-burner	160 kW	0.0474 €	1,280 kWh/day	332,800 kWh/year	60.67 €/year	15,774.20 €/year
ReiCat Gourmet	20 kW	0.0474 €	160 kWh/day	41,600 kWh/year	7.58 €/year	1,970.80 €/year

costs per kWh Gas: 4.74 Cent (Status January 2022, without VAT)
arithmetic mean value for an annual consumption of 116,000 kWh per year

*usage: 8 h daily, 260 days/year (5 days per 52 weeks)

Source: Federal Network Agency

REICAT

Environmental Solutions

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