



FUNCTIONALITY OF THE CATALYST



The roasting **exhaust air** contaminated with organic impurities is led to the catalyst (1) through a pre-filter (2).

Our pre-filter acts as an extra safety net, filtering out coffee chaffs from the roasting exhaust air that the cyclone might miss. This adds an extra layer of assurance, especially in the case of a malfunction, **ensuring** cvclone catalyst's functionality.

The exhaust air is - if necessary - **heated** to the needed reaction temperature (approx. 250°C) by means of a **hot air** blower (3) (for ReiCatino® line) or a gas burner (for ReiCat Gourmet & ReiCat Industrial line).

Through a chemical reaction inside the catalyst, the impurities which are responsible for smoke and odours are neutralised.

As this is not a filter system, **no residues** need to be removed inside the catalyst after use. Only the pre-filter needs to be cleaned regularly with a broom.

This makes our catalyst a very lowmaintenance system compared to other exhaust air purification options.









ADVANTAGES OF REICAT CATALYSTS







energy-efficient

reduce emissions







neutralisation of smoke & odours



conversion of harmful components at low temperature



happy neighbours

*through increase in temperature without additional combustion









PRODUCT PORTFOLIO

ReiCatino®	ReiCat Gourmet	ReiCat Industrial
no smell no smoke	no smell no smoke	no smell no smoke
·	© n	<u></u> <u></u>
	compliance with legal regulations (optional)	compliance with legal regulations
		Reduction of NOx (VitarNOx®- technology)







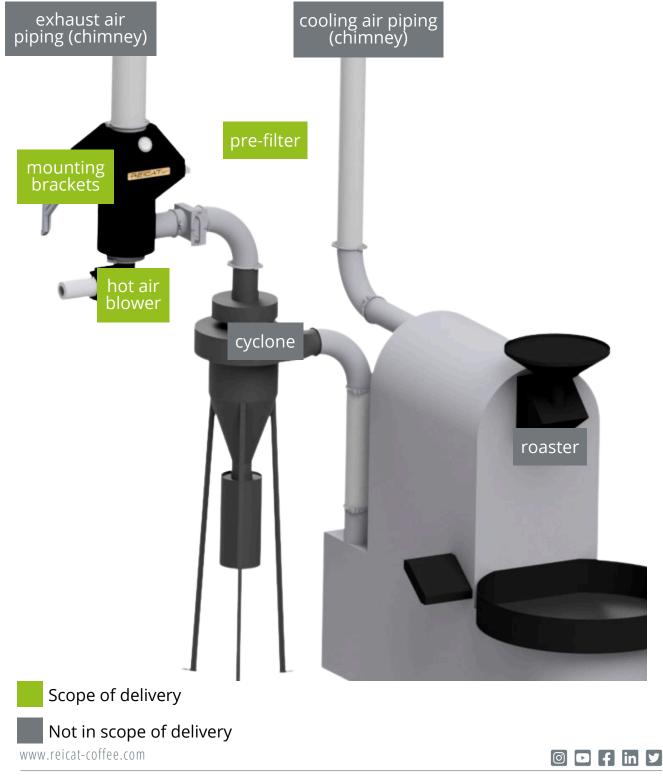


LAYOUT REICATINO® 100





LAYOUT REICATINO® 450





LAYOUT REICATINO® 600



Scope of delivery

Not in scope of delivery

www.reicat-coffee.com









ENERGY CONSUMPTION REICATINO® VS. AFTERBURNER

	Output (kW) (max.)	Price per kWh	Consumption (1 day per 8 hours)	Consumption per year	Costs per day*	Costs per year**
Afterburner (gas)	110	6,43 Cent / kWh	880 kWh/day	228.800 kWh/year	56,58 €/day	14.710,80 €/year
ReiCatino®450 (electricity)	11	20,71 Cent / kWh	88 kWh/day	22.880 kWh/year	18,22 €/day	4.732,20 €/year

Usage: 8 h daily, 260 days/year (5 working days in 52 weeks)

Please note: the values given are estimates and may vary.

^{*} Average cost per kWh of electricity: 20.71 cents | per kWh of gas 6.43 (as at December 2023, excluding VAT) Source: Federal Statistical Office



LAYOUT REICAT GOURMET



Scope of delivery

Not in scope of delivery

www.reicat-coffee.com









ENERGY CONSUMPTION REICAT GOURMET VS. AFTERBURNER

	Gas consumption (kW)	Gas price per kWh	Gas consumption (1 day per 8 hours)	Gas consumption per year	Costs per day*	Costs per year*
Afterburner	160 kW	0,0643 €	1.280 kWh/day	332.800 kWh/year	82,30 €/day	21.398,00 €/year
ReiCat Gourmet	20 kW	0,0643 €	160 kWh/day	41.600 kWh/year	10,29 €/day	2.675,40 €/year

Usage: 8 h daily, 260 days/year (5 working days in 52 weeks) Please note: the values given are estimates and may vary.







^{*} Average cost per kWh of gas 6.43 cents (as at December 2023, excluding VAT) Source: Federal Statistical Office



ENERGY CONSUMPTION REICAT INDUSTRIAL VS. AFTERBURNER

	Gas consumption (kW)	Gas price per kWh	Gas consumption (1 day per 8 hours)	Gas consumption per year	Costs per day*	Costs per year**
Afterburner	1.200 kW	0,0643 €	9.600 kWh/day	2.496.000 kWh/year	617,28 €/day	160.492,80 €/year
ReiCat Industrial 7.500	500 kW	0,0643 €	4.000 kWh/day	1.040.000 kWh/year	257,20 €/day	66.872,00 €/year

Usage: 8 h daily, 260 days/year (5 working days in 52 weeks)

Please note: the values given are estimates and may vary.







^{*} Average cost per kWh of gas 6.43 cents (as at December 2023, excluding VAT) Source: Federal Statistical Office



COMPARISON OF EXHAUST AIR PURIFICATION OPTIONS

	Neutralisation of smell	Neutralisation of smoke	Compliance with legal regulations	Maintenance
Dilution	no	no	no	high effort
Electrostatic filter	no	yes*	no	very high effort
Activated carbon filter	yes*	no	no	very high effort
Zeolite filter	yes*	no	no	very high effort
Afterburner	yes*	yes	no	low effort
ReiCat catalysts	yes	yes	yes	very low effort

^{*}not completely

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WHAT MAKES US DIFFERENT



energy efficient & eco- friendly solutions



specialist in catalyst technology for over 40 years



continuously developing & optimising our solutions to meet the needs of our customers



individual catalysts for every need



regional suppliers



made in Germany









WHAT MAKES US DIFFERENT





customer-oriented, innovative & creative team



low maintenance units



energy savings of up to 50% - with all solutions



compliance with legal regulations*







^{*}ReiCatino® 600 **, ReiCat Gourmet (Option 2) & ReiCat Industrial



OUR TEAM



Heykel Labidi Projectmanager Engineering



Manuel Marcelli CEO ReiCat Solutions srl



Henriette Stemmler-Benz Sales Manager



Bianca Herbert Marketing & Sales



Yvette Eckert Project Manager & Technical Sales



Tristan Brand Project Planning, Project Management & Construction



Pascal Ruppert Mechatronics, Construction & Design Development



Nadine Hild Project Planning, Construction & Design Development

