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Combustion Plants



Overview and summary of documents

All plant sizes

[Example of a modern Mid-sized stationary combustion plant.pdf](#) (363.83KB)

Flue gas emission limits



AIR EMISSION LIMIT VALUES

[Flue gas emission limits as per EN2000 76 EU directive.pdf](#) (136.84KB)

ZANNI Combustion grate technology



ZANNI combustion grate for all types of waste

English Flyer

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ZANNI-Verbrennungsrost für alle Abfallarten

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ZANNI combustion grate fact sheets

English Flyer

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ZANNI Verbrennungsrost Fakten

Deutscher Flyer

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ZANNI combustion grate for sewage sludge incineration
English brochure
[SEWAGE SLUDGE.pdf](#) (3.49MB)



ZANNI Verbrennungsrost für Klärschlammverbrennung
Deutsche Broschüre
[KLAERSCHLAMM.pdf](#) (3.49MB)

Technical Data Sheets and General Layout Drawings

Combustion plants suitable for sludge combustion

For General Layout Drawings for hazardous solid waste incineration see below, after these SICF-S plants.

Plant types: SICF-S

Capacity of plant: SICF-S 200 (up to 200 kg/h sludge and SICF up to 400 kg/h solid waste)



Technical data sheet of a combustion plant, suitable for mixed municipal, hospital, industrial waste and sewage sludge
Plant capacity 200 kg/h mixed waste @ 15000 kJ/kg
[DesignDataTable200.pdf](#) (45.9KB)



Example of a general layout of a combustion plant with 200 kg/hour capacity for sewage sludge combustion and other hazardous waste
Drawing number: 1860-200KG-SR10S-202020000952
[1860-200KG-SR10S-202020000952.pdf](#) (948.03KB)

Capacity of plant: SICF-S 300 (up to 300 kg/h sludge and SICF up to 600 kg/h solid waste)



Technical data sheet of a combustion plant, suitable for mixed municipal, hospital, industrial waste and sewage sludge
Plant capacity 300 kg/h mixed waste @ 15000 kJ/kg
[DesignDataTable300.pdf](#) (219.16KB)



Example of a general layout of a combustion plant with 300 kg/hour capacity for sewage sludge combustion and other hazardous waste
Drawing number: 1860-300KG-SR10S-202020000952
[1860-300KG-SR10S-202020000952.pdf](#) (1.02MB)

Capacity of plant: SICF-S 400 (up to 400 kg/h sludge and SICF up to 800 kg/h solid waste)



Technical data sheet of a combustion plant, suitable for mixed municipal, hospital, industrial waste and sewage sludge
Plant capacity 400 kg/h mixed waste @ 15000 kJ/kg
[DesignDataTable400.pdf](#) (219.18KB)



Example of a general layout of a combustion plant with 400 kg/hour capacity for sewage sludge combustion and other hazardous waste
Drawing number: 1860-400KG-SR10S-202020000952
[1860-400KG-SR10S-202020000952.pdf](#) (1.21MB)

Capacity of plant: SICF-S 500 (up to 500 kg/h sludge and SICF up to 1000 kg/h solid waste)



Technical data sheet of a combustion plant, suitable for mixed municipal, hospital, industrial waste and sewage sludge
Plant capacity 500 kg/h mixed waste @ 15000 kJ/kg
[DesignDataTable500.pdf](#) (218.15KB)



Example of a general layout of a combustion plant with 500 (600) kg/hour capacity for sewage sludge combustion and other hazardous waste

Drawing number: 1860-600KG-SR10S-202020000952
[1860-600KG-SR10S-202020000952.pdf](#) (1.39MB)

Capacity of plant: SICF-S 600 (up to 600 kg/h sludge and SICF up to 1200 kg/h solid waste)



Technical data sheet of a combustion plant, suitable for mixed municipal, hospital, industrial waste and sewage sludge

Plant capacity 600 kg/h mixed waste @ 15000 kJ/kg
[DesignDataTable600.pdf](#) (218KB)



Example of a general layout of a combustion plant with (500) 600 kg/hour capacity for sewage sludge combustion and other hazardous waste

Drawing number: 1860-600KG-SR10S-202020000952
[1860-600KG-SR10S-202020000952.pdf](#) (1.39MB)

Capacity of plant: SICF-S 800 (up to 800 kg/h sludge and SICF up to 1600 kg/h solid waste)



Technical data sheet of a combustion plant, suitable for mixed municipal, hospital, industrial waste and sewage sludge

Plant capacity 800 kg/h mixed waste @ 15000 kJ/kg
[DesignDataTable800.pdf](#) (217.63KB)



Example of a general layout of a combustion plant with 800 kg/hour capacity for sewage sludge combustion and other hazardous waste

Drawing number: 1860-800KG-SR10S-202020000952
[1860-800KG-SR10S-202020000952.pdf](#) (1.56MB)

Capacity of plant: SICF-S 1000 (up to 1000 kg/h sludge and SICF up to 2000 kg/h solid waste)



Technical data sheets of combustion plants, suitable for mixed municipal, hospital, industrial waste and sewage sludge

Plant capacity 1000 kg/h mixed waste @ 15000 kJ/kg
[DesignDataTable1000.pdf](#) (218.04KB)



Example of a general layout of a combustion plant with 1000 kg/hour capacity for sewage sludge combustion and other hazardous waste

Drawing number: 1860-1000KG-SR10S-202020000952
[1860-1000KG-SR10S-202020000952.pdf](#) (1.56MB)

Summary for the above mentioned plant examples



Summary of technical data sheets of combustion plants, suitable for mixed municipal, hospital, industrial waste and sewage sludge

Plant capacities 200 - 1000 kg/h mixed waste @ 15000 kJ/kg
[DesignDataTableAll.pdf](#) (66.51KB)

Flow Sheet example and information of the mentioned combustion plant components



Flow Sheet example

Incomplete, as project-dependent components may be missing. Therefore subject to change without prior notice!

[1860-00-000-Z-1901-01 Flow Sheet Example.pdf](#) (731.63KB)

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1) Combustion furnaces

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2) Emergency (hot gas) chimneys

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3) Flue gas cooler

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4) Cooling air (fresh air) chimneys

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5) Dry-scrubbing-solvent systems

[5.pdf](#) (839.77KB)



6) Filter systems and flue gas cleaning

[6.pdf](#) (2.5MB)



7) Clean gas (exhaust gas) chimneys

[7.pdf](#) (223.07KB)



8) De-Ashing systems

[8.pdf](#) (537.82KB)



9) Control cabinets

[9.pdf](#) (744KB)



10) Continuous emission monitoring systems (CEMS)

[10.pdf](#) (156.2KB)

General Layout Drawings

Combustion plants suitable for hazardous solid waste combustion

For General Layout Drawings for sludge incineration see above, in front of these SICF plants.

Plant types: SICF

Capacity of plant: SICF 400 (up to 400 kg/h hazardous solids)



Example of a general layout of a combustion plant with 400 kg/hour capacity for solid hazardous waste combustion

SINGLE COOLER | Drawing number: 1864-400KG-SR10S-202020000952

[1864-400KG-SR10S-202020000952-REV-00.pdf](#) (1.22MB)

Capacity of plant: SICF 800 (up to 800 kg/h hazardous solids)



Example of a general layout of a combustion plant with 800 kg/hour capacity for solid hazardous waste combustion

DOUBLE COOLER (PARTIAL LOAD OPERATION POSSIBLE FOR MAINTENANCE WORK) | Drawing number: 1864-800KG-SR10S-202020000952
[1864-800KG-SR10S-202020000952-REV-00.pdf](#) (1.59MB)

Capacity of plant: SICF 1200 kg/h (up to 1200 kg/h hazardous solids)



Example of a general layout of a combustion plant with 1200 kg/hour capacity for solid hazardous waste combustion

DOUBLE COOLER SYSTEM (PARTIAL LOAD OPERATION POSSIBLE FOR MAINTENANCE WORK) | Drawing number: 1864-1200KG-SR10S-202020000952
[1864-1200KG-SR10S-202020000952.pdf](#) (1.79MB)

Capacity of plant: SICF 1600 (up to 1600 kg/h hazardous solids)



Example of a general layout of a combustion plant with 1600 kg/hour capacity for solid hazardous waste combustion

TRIPPLE COOLER SYSTEM (PARTIAL LOAD OPERATION POSSIBLE FOR MAINTENANCE WORK) | Drawing number: 1864-1600KG-SR10S-202020000952
[1864-1600KG-SR10S-202020000952.pdf](#) (1.91MB)

Flue gas cooler



Patented flue gas cooler

[AAC-202020000033.pdf](#) (14.14MB)

Silos



Silos for dry-scrubbing solvent and filter ash

Exclusively for our SICF/SICF-S plants
[Silos.pdf](#) (225.82KB)

Cooling-down and heating-up instructions



COOLING-DOWN AND HEATING-UP INSTRUCTIONS

Basically, the longer the better
[Cooling-down and heating-up instructions.pdf](#) (173.43KB)

Important add-on parts
Our recommended suppliers
Burners



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Information on burner technology
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[Information on gas, oil, and dual-fuel-burners.pdf](#) (2.43MB)



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Installation and operating instruction
[Manual WM-L20.pdf](#) (1.79MB)

Continuous emission monitoring system



COMPANY PRESENTATION
About CODEL
[CODEL Overview.pdf](#) (5.87MB)



DATA SHEET OF CONTINUOUS EMISSION MONITORING SYSTEMS FOR SICF PLANTS
SICF 200 - SICF 1000
[Emission monitoring system for SICF 200 – SICF 1000 combustion plants.pdf](#) (95.36KB)



EnergyTech 101/102 - Opacity Monitor
TECHNICAL DATA
[Datasheet EnergyTech 101_102_web.pdf](#) (487.13KB)



Multi-species infrared absorption analyser
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Fans



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DATA SHEET FOR CENTRIFUGAL FAN
Combustion air fans SICF 200 - SICF 1000
[Combustion air fan 30102012.pdf](#) (178.85KB)



TECHNICAL DOCUMENTATION COMBUSTION AIR FANS SICF 200 - SICF 1000
TECHNICAL DATA, FAN CURVE, SOUND POWER / PRESSURE, STARTUP / RUNDOWN CURVE, SPEED/TORQUE CURVE
[Combustion air fans W&S.pdf](#) (4.49MB)



DATA SHEET FOR CENTRIFUGAL FAN

Cooling air fans for Air/Air cooler SICF 200 - SICF 1000

[Fresh air fan 30102012.pdf](#) (179.84KB)



TECHNICAL DOCUMENTATION FRESH AIR FANS SICF 200 - SICF 1000

TECHNICAL DATA, FAN CURVE, SOUND POWER / PRESSURE, STARTUP / RUNDOWN CURVE, SPEED/TORQUE CURVE

[Fresh air fans W&S.pdf](#) (3.58MB)



DATA SHEET FOR CENTRIFUGAL FAN

Mixed air aux. fans for cooling air outlet SICF 200 - SICF 1000

[Mixed air aux fan 30102012.pdf](#) (178.86KB)



TECHNICAL DOCUMENTATION MIXED AIR AUX. FANS SICF 200 - SICF 1000

TECHNICAL DATA, FAN CURVE, SOUND POWER / PRESSURE, STARTUP / RUNDOWN CURVE, SPEED/TORQUE CURVE

[Mixed air aux fans W&S.pdf](#) (3.58MB)



DATA SHEET FOR CENTRIFUGAL FAN

Induced draft fans (flue gas fans) SICF 200 - SICF 1000

[Induced draft fan 30102012.pdf](#) (184.55KB)



TECHNICAL DOCUMENTATION INDUCED DRAFT FANS SICF 200 - SICF 1000

TECHNICAL DATA, FAN CURVE, SOUND POWER / PRESSURE, STARTUP / RUNDOWN CURVE, SPEED/TORQUE CURVE

[Induced draft fans W&S.pdf](#) (4.33MB)

Side channel blowers



COMPANY PRESENTATION

Overview ELEKTOR

[Elektor Produktuebersicht engl.pdf](#) (5.76MB)



Side channel blowers for SICF 200 combustion plants

COVER SHEET AND DIMENSIONAL DRAWING

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CATALOGUE

Side channel blower for SICF 200

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INSTRUCTION MANUAL

Side channel blower for SICF 200

[SICF200 INSTRUCTION MANUAL 9016355 1SD-2SD de en 08.pdf](#) (1.56MB)



Side channel blowers for SICF 300 combustion plants

COVER SHEET AND DIMENSIONAL DRAWING

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CATALOGUE

Side channel blower for SICF 300

[SICF300 CATALOGUE 9702019 SD DE EN.pdf](#) (7.05MB)



INSTRUCTION MANUAL

Side channel blower for SICF 300

[SICF300 INSTRUCTION MANUAL 9016312 SD de en 10.pdf](#) (1.38MB)



Side channel blowers for SICF 400 combustion plants

COVER SHEET AND DIMENSIONAL DRAWING

[SICF400 COVER SHEET AND DIMENSIONAL DRAWING 2SD 820-8.5-9.8 kW.pdf](#) (173.75KB)



CATALOGUE

Side channel blower for SICF 400

[SICF400 CATALOGUE 703404 1SD 2SD DE EN.pdf](#) (5.86MB)



INSTRUCTION MANUAL

Side channel blower for SICF 400

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Side channel blowers for SICF 500 combustion plants

COVER SHEET AND DIMENSIONAL DRAWING

[SICF500 COVER SHEET AND DIMENSIONAL DRAWING SD 9.pdf](#) (1.83MB)



CATALOGUE

Side channel blower for SICF 500

[SICF500 CATALOGUE 9702019 SD DE EN.pdf](#) (7.05MB)



INSTRUCTION MANUAL

Side channel blower for SICF 500

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Side channel blowers for SICF 600 combustion plants

COVER SHEET AND DIMENSIONAL DRAWING

[SICF600 COVER SHEET AND DIMENSIONAL DRAWING 1SD 910 12.5-21.3kW.pdf](#) (133.33KB)



CATALOGUE

Side channel blower for SICF 600

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INSTRUCTION MANUAL

Side channel blower for SICF 600

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Side channel blowers for SICF 800 combustion plants

COVER SHEET AND DIMENSIONAL DRAWING

[SICF800 COVER SHEET AND DIMENSIONAL DRAWING 2SD 920 11.0-21.3kW.PDF](#) (153.86KB)



CATALOGUE

Side channel blower for SICF 800

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INSTRUCTION MANUAL

Side channel blower for SICF 800

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Side channel blowers for SICF 1000 combustion plants

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