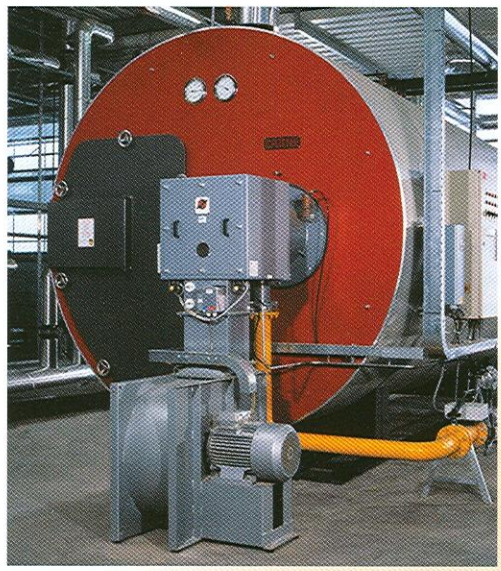
RKB Burner Installation

Superior affordable performance

ZANTINGH

The Zantingh RKB burner system delivers power capacity from 2,900 kW up to 14.000 kW. It is the undisputed top model of our complete product burner line. This top capacity high power burner comes standard equipped with the renown Zantingh low NOx-burnerhead and carries the CE approval.

The Zantingh RKB series. Superior performance and affordable.



Optimal curve through micro processor.

Specific to this burner is the standard Autoflame Micro Modulation electronic burner control for capacities starting at 6,975 kW or higher (for lower capacities, a standard pneumatic control or optional electronic control is available).

The Autoflame Micro Modulation technic offers clear advantages; the fuel/air ratio remains optimal throughout the whole control reach. The modulation control takes on the exact position, wich is needed to reach the correct boiler temperature. The system can be installed under many conditions and the precision of repeat action is 100%. The ideal addition to this system is the standard frequency control on the fan motor. The frequency of the motor is controlled in such a way that the fan is operated in precise conjunction with the burner load. Thus facilitating optimum revolutions and balance of combustion air and the load of the burner.

RKB burner specification

The RKB-burner installation is suitable for natural gas with a combustion value of Ho = 31,9 MJ/nm3 and a minimum gas pressure of 100 mbar (for burner types RKB 8.0 to 12.0 - 200 mbar). A combination gas/light oil is also available. The oil burner functions as back up and is suitable for use with light oil, comparable to European diesel oil. The gas train comes standard equipped with gas leak detector. The control panel is a wall-mounted unit and contains all control systems for the burner such as the auto burner control. The required boiler control equipment such as thermostats and sensors is also included. The RKB series is available with several options.

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Zantingh RKB Burner Installation, Standard Version
Gas Burner:
Burner control: modulating, pneumatic gas/air ratio control or electronic Autoflame Micro-modulating control with pneumatic pre-control (control depending on choice of model)

Burner house is equipped with:
- Low NOx-combustion head
- servo motor controlled intake air valve register
- turbulence blades register

Combustion air fan with plate damper and three phase motor:
- suitable for control by frequency regulator including flange and duct

Frequency regulator:
- model IP54 with RFI filters, packed separately, pre-wired in the switch panel

Switch panel wall mounted unit equipped with:
- auto burner control
- connectors for external CO2-panel (for greenhouse use)
- flue gas condenser alarms
- external low water safety alarms
- pre-wired for frequency control
- PID-type load regulator (RWF or equivalent), or Autoflame depending on choice of model

Pre-wired gas train including gas leak detector.

Boiler controls consist of:
- temperature sensor
- maximum thermostat

Additional Gas/Oil combination burner options
- back up installation for light oil, consisting out of burner lance with atomizers and solenoid valves (Burner Control: Low/High/Off)
- oil pump set

Additional Options
Low water level protection:
- electrical: low water safety relay built into switch panel including two separately electrodes (terminals)
- mechanical: mechanical float operated switch

Pressure switches:
- pressure switch set, applicable for the heating/steaming version of the boilers

Fiduface:
- computer interface between computer and burner built in into switch panel, including feed back potentio meter on burner

CO_2-dosage system (greenhouse versions):
- built-in CO2 circuit in switch panel
- built-in CO-detector display in switch panel (sensor and other attachments supplied separately)

Basic Version
- RKB-burner system is available without oil burning option
- RKB-burners up to type RKB 500 ND 4.0 supplied with a two-speed fan instead of a frequency controlled driven fan

Technical data for Zantingh RKB Burner Systems

Burner type	Boiler power Mcal/h	Boiler power kW	Ventilator motor power kW	Maximum boiler resistance mbar
RKB 400 - ND 2.5	2.500	2.900	5,5	11,5
RKB 400 - ND 3.0	3.000	3.490	5,5	11,5
RKB 500 - ND 3.5	3.500	4.070	7,5	11,5
RKB 500 - ND 4.0	4.000	4.650	11,0	11,5
RKB 500 - ND 5.0	5.000	5.810	11,0	11,5
RKB 600 - ND 6.0	6.000	6.975	15,0	11,5
RKB 600 - ND 7.0	7.000	8.140	18,5	12,5
RKB 800 - ND 8.0	8.000	9.295	22,0	13,5
RKB 1000 - ND 9.0	9.000	10.450	30,0	15,5
RKB 1000 - ND 10.0	10.000	11.600	37,0	15,5
RKB 1000 - ND 12.0	12.000	14.000	45,0	15,5

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