

# Data Sheet

## Burner Control Box CBFF

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### CBFF New Generation




<b>Designation</b>	<b>CBFF</b>	<b>Control Box FLOX®/Flame</b>
<b>Description</b>	The CBFF burner control box incorporates key functional components into one compact device. Including flame relay, ignition transformer, flame supervision, air valve control, manual/automatic operation, display of operating/fault status and a user interface.	
<b>Installation</b>	The compact metal housing (IP65) can be mounted in close vicinity to the associated burner (-20°C...+70°C). The cable/connector flange plate is configurable and quick connect wiring terminals within the device provide customer specific connection options.	
<b>Communication</b>	Signal exchange with process control either via hardwired input and output terminals or via bus-interface (Profibus DP, Profinet, Ethernet IP).	
<b>System Solution</b>	Flexible cabling with labeled and uniquely keyed connectors are easily attached to electrical burner components. Each customized control box undergoes electrical and functional testing, includes an electrical wiring diagram and is suitable for immediate integration into the combustion system on site (plug and play).	
<b>Burner</b>	<b>WS gas burners</b>	In supervised flame mode
	<b>REKUMAT® FLOX®/Flame</b>	With external FLOX®/flame switching
	<b>REKUMAT®</b>	Field bus with release of flame mode via hardwired input signal
<b>Combustion Type</b>	<b>Flame</b>	
	<b>FLOX®/Flame</b>	
	<b>Start / Flame / FLOX®</b>	
	Unique feature:	Pre-FLOX®-release of FLOX operation below 850°C
<b>Burner Control</b>	<b>Automatic</b>	On/off pulse firing
	<b>Manual</b>	
<b>Flame Supervision</b>	<b>Flame Rod</b>	Combined flame rod and ignition electrode or individual rods for supervision and ignition.
	<b>UV-Detection</b>	Via UV sensor

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 <p><b>Special Features</b></p>	Safety inputs for FLOX® / Flame switching (XOR Logic)
	Extensive switching cycles (exchangeable relay module, supervised, fail safe outputs)
	Differential pressure supervision (air) with idle state confirmation, configurable for selected operating modes, purge air supervision
	Configurable inputs and outputs (e.g. gas pressure, POC, air purge status)
	Configurable control features (e.g. min. On time, min. Off time, pre- and post- air purge, options for cooling air)
	Optional: A host of features for diagnostics, configuration and statistical data analysis accessible through the WS-Soft® PC-software via optical interface
Air valve control with semiconductor output	
<b>» Customized Solutions available on Request «</b>	