



The KBPJ pressure jet burner is designed for our smaller bottom fired boilers and can be delivered premounted. It is a modulating burner which is regulated by a compound regulator. Stable combustion is ensured by a swirler and a flame stabilizer which are adjustable.

Capacity range: 0.35 - 5.25 MW

# KBPJ 100 – KBPJ 450 pressure jet oil burner

## Description

The KBPJ pressure jet burner has been designed to be a integrated part of our smaller bottom-fired boilers. Therefore, it takes up a minimum of space underneath the boiler and for maintenance and inspection purposes, the air register is retractable from the dynamic wind-box.

The combustion air is evenly distributed through the air register by the dynamic windbox which combined with a swirler

and a flame stabilizer ensures a stable combustion.

The fuel oil is delivered from the supply system to a valve arrangement consisting of the automatic shut-off valves, recirculation valves, solenoid valves and other necessary control components to give a safe and reliable operation.

Standard ball valves are used in the valve arrangement which are actuated by a pneumatic actuator.

Flexible hoses connect the valve arrangement and the burner lance, and the use of snap connections provides a clean and quick disassembling of the burner for maintenance and inspection.

Safe and reliable ignition is ensured by ignition electrodes.

## STANDARD PRODUCT RANGE

## Capacity and dimensions

Burner type	Guideline boiler output kg/h	Capacity Min. - max. MW	Diesel oil consumption kg/h	Heavy fuel oil consumption min. - max. kg/h	Combustion air consumption min. Nm <sup>3</sup> /h	Combustion air consumption max. Nm <sup>3</sup> /h
KBPJ 100	1,000	0.35 - 0.87	74	31 - 77	481	1,195
KBPJ 250	3,000	0.75 - 2.62	221	66 - 231	1,024	3,584
KBPJ 450	6,000	1.94 - 5.25	442	171 - 462	2,653	7,168

### General burner data

Heavy fuel oil data			General data		
Max. viscosity at 50°C	380	cSt	Excess air ratio	1.46	-
Max. viscosity at burner inlet	15	cSt	Fuel oil pressure delivery line	21	bar (g)
Calorific value	40.9	MJ/kg	Fuel oil pressure in return line	0 - 14	bar (g)
Diesel oil data					
Viscosity at 40°C	2.8	cSt			
Calorific value	42.8	MJ/kg			

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