



The KBO burner is a pressure jet burner of the monoblock type designed for modulating operation.

The design of the burner makes installation, adjustment and servicing easy. Furthermore, it ensures that the flame is kept highly stable at all loads.

Capacity range: 650 - 3500 kW

Description

The KBO pressure jet burner is a robust design to meet the requirements in the marine environment. It is a reliable, fully automatic heavy fuel oil burner with only simple requirements to the installation.

The KBO burner is a monoblock design making installation cheap and quick due to prewiring, prepiping and pre-testing before leaving the factory.

The burner is provided with hinges for easy swing out for inspection and maintenance purposes. Electric connections are easily accessed under the top cover.

The burner is designed to be operated with the computerised MISSION™ Control System from Aalborg Industries.



STANDARD PRODUCT RANGE

Capacity and dimensions

Burner type	Modulation	Max. oil viscosity min. (DO) cSt	Min. oil viscosity max. (HFO) cSt	Guideline boiler output - max. kg/h	Oil capacity - max. kg/h	Turndown ratio max.	Burner capacity - max. MW	Combustion air consumption - max. kg/h	Burner motor size 50 Hz kW	Burner motor size 60 Hz kW	Oil pump motor size 50 Hz kW	Oil pump motor size 60 Hz kW	Oil preheater size 50 Hz kW	Oil preheater size 60 Hz kW
KBO-R 13 H	2-stage	1.3	380	1,250	93	n.a.	1.0	1,509	3.0	3.7	*)	*)	6.0	7.2
KBO-R 14 H	2-stage	1.3	380	2,000	152	n.a.	1.7	2,450	4.0	4.6	*)	*)	6.0	7.2
KBO-R 15 H	2-stage	1.3	380	2,500	191	n.a.	2.1	3,092	5.5	6.4	*)	*)	12.0	14.4
KBO-R 13 M	Modulating	1.3	700	1,250	93	1:3	1.0	1,509	3.0	3.7	*)	*)	6.0	7.2
KBO-R 14 M	Modulating	1.3	700	2,000	152	1:3	1.7	2,450	4.0	4.6	*)	*)	6.0	7.2
KBO-R 15 M	Modulating	1.3	700	2,500	191	1:3	2.1	3,092	5.5	6.4	*)	*)	12.0	14.4
KBO-R 25 M	Modulating	1.3	700	3,150	240	1:3	2.7	3,873	5.5	6.4	*)	*)	12.0	14.4
KBO-R 30 M	Modulating	1.3	700	4,000	304	1:3	3.4	4,895	7.5	8.6	1.5	1.7	12.0	14.4
KBO-R 40 M	Modulating	1.3	700	5,000	384	1:3	4.3	6,192	11.0	14.5	2.2	2.5	18.0	21.6
KBO-R 50 M	Modulating	1.3	700	6,500	510	1:3	5.7	8,249	11.0	14.5	2.2	2.5	18.0	21.6

*) The fan motor acts as oil pump motor

General burner data

Heavy fuel oil data		General data	
Max. viscosity at 50°C	700 cSt	Excess air ratio	1.2
Max. viscosity at 50°C at burner inlet	45 cSt	Combustion air temperature, design	45°C
Calorific value	40.2 MJ/kg	Fuel oil delivery pressure	2.5 bar (g)
Diesel oil data		General electrical data	
Viscosity	1.3-12 cSt	Main voltage	440/380 V
Calorific value	42.2 MJ/kg	Pilot voltage	220/110 V
		Frequency	50/60 Hz