



Advantages

- Highest quality standard by latest state of production and engineering, application of ISO 9001 quality management system
- Environment-friendly due to low NOx technology and lowest emission values
- Reliable in burning different fuels with different qualities
- Economic due to optimal combustion and low costs for energy, investment, maintenance, and service
- Economic due to minimised standstill losses and a long service life

Where the combustion of liquid and gaseous fuels makes high demands on economy, operational reliability, control range, and environmental consciousness, SAACKE rotary cup atomising burners are the first choice. Environment-conscious and economic use of the energy that is made available to us by nature - that is what SAACKE's rotary atomising technology makes successfully possible.

By using the low NOx SAACKE SKV(G) rotary cup burner, you are capable of realising almost all specific tasks over the complete control range by combining modular components with project-specific engineering. The construction of the SKV(G) is the well-established duoblock design, i.e. burner and fan are installed at different locations. The product line contains burners for light fuel oil and heavy fuel oil, as well as for light fuel oil or heavy fuel oil in combination with gas or for gaseous fuels only. Even the standard version of the SAACKE SKV(G) stands for a future-proof investment, since this burner may be universally used and adapted to various individual operation conditions.

Capacity range

0.45 - 46 MW

Fuels

Light fuel oil SKV
Heavy oil SKV
Light fuel oil / gas SKVG
Heavy oil / gas SKVG
Gas SG (gas ring burner)

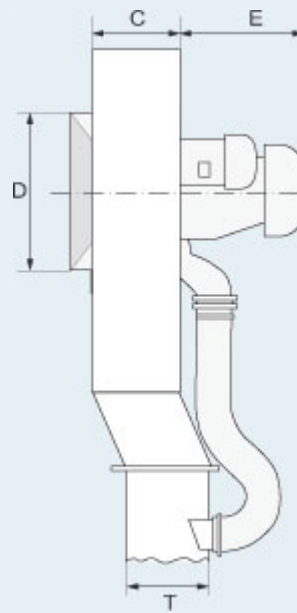
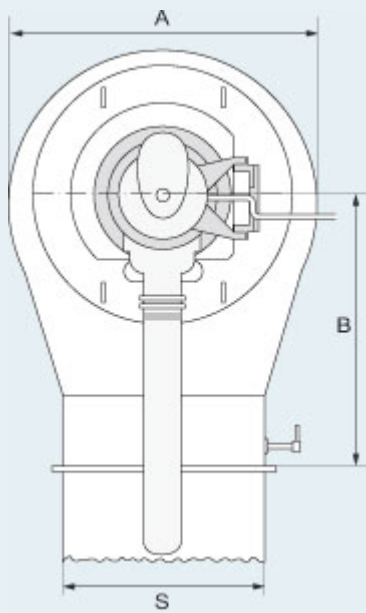
Application fields, especially in the industrial heat market

Flame tube boilers, three pass boilers, heat radiation boilers, thermal oil boilers, hot gas generators, drying and burning plants, special plants

Applied to three pass boilers, radiation boilers and thermal oil boilers as well as to hot gas generators, drying plants and kilns, the SAACKE rotary cup atomiser has proved its high efficiency and reliability every day in more than 1,000 plants worldwide throughout the entire heat market. This also applies for non-standard plants like furnaces designed to incinerate liquid wastes or other process and environmental technology plants. The SAACKE rotary cup atomiser with its unique control range of turn-down and high efficiency occupies a superior position in the field of steam and hot gas generation, the heating of high-temperature water and thermal oil as well as in the heating of furnaces and non-standard plants - both for land and marine applications.

The modular construction of the SKV(G) allows for quick refitting to various liquid or other gaseous fuels. Even liquid or gaseous waste products or other difficult fuels can be utilised. The rotary cup burner's ability to fire on any fuel of differing quality, viscosity or contamination increases its reliability. In addition to that, the SAACKE rotary cup burner allows simultaneous combustion of different liquid and gaseous fuels. By using preheated combustion air, the energy costs can even be reduced.





Brennertyp Burner type	Wind- box	Leistung Capacity MW	Maße / Dimensions (mm)						
			A	B	C	D	E	S	T
SKV(G) 15 -50	-								
SKV(G) 15 - 30	1	2.83	770	770	251	635	580	304	235
SKV(G) 30 - 50	2	5.66	800	800	251	635	580	452	235
SKV(G) 60 - 150	-								
SKV(G) 60 -80	6	9.06	1022	863	420	800	642	450	410
SKV(G) 100 -150	7	12.54	1118	920	420	800	642	560	410
SKV(G) 150	8	17.0	1238	985	420	800	642	800	410
SKV(G) 180 - 400	-								
SKV(G) 180 - 200	18	22.6	1680	1610	520	940	715	800	500
SKV(G) 250 - 300	19	33.9	1840	1660	520	940	715	1200	500
SKV(G) 350 - 400	20	45.3	2050	2150	520	940	715	1200	725
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Brennstoff Fuel	Leistung Capacity ca. (MW)	0.455 ▼ 1.7	0.57 ▼ 2.26	0.57 ▼ 3.39	0.68 ▼ 4.53	0.74 ▼ 5.66	1.13 ▼ 6.79	1.13 ▼ 9.06	1.36 ▼ 11.32
	Brennertyp Burner type	15	20	30	40	50	60	80	100
Leichtöl Light fuel oil	SKV	—	—	—	—	—	—	—	—
Schweröl Heavy oil	SKV	—	—	—	—	—	—	—	—
Leichtöl/Gas Light fuel oil/gas	SKVG	—	—	—	—	—	—	—	—
Schweröl/Gas Heavy oil/gas	SKVG	—	—	—	—	—	—	—	—
Gas	SG	—	—	—	—	—	—	—	—

Brennstoff Fuel	Leistung Capacity ca. (MW)	1.81 ▼ 17.0	2.26 ▼ 20.4	2.6 ▼ 22.6	2.83 ▼ 28.3	3.62 ▼ 33.9	3.69 ▼ 39.6	4.53 ▼ 45.3
	Brennertyp Burner type	150	180	200	250	300	350	400
Leichtöl Light fuel oil	SKV	—	—	—	—	—	—	—
Schweröl Heavy oil	SKV	—	—	—	—	—	—	—
Leichtöl/Gas Light fuel oil/gas	SKVG	—	—	—	—	—	—	—
Schweröl/Gas Heavy oil/gas	SKVG	—	—	—	—	—	—	—
Gas	SG	—	—	—	—	—	—	—

Equipment

- Rotary cup atomiser with integrated primary air fan and central valve (safety shut-off valve for fuel oil)
- Wind box with control damper, air register
- Electronic or mechanical compound regulator
- Combustion air fan with sound absorber option
- Flame detection controlled by micro processor
- Gas-electric or oil-electric ignition device
- Low NOx gas mixing unit (gas operation)
- Gas valve train (gas operation)
- Oil valves with compound regulator, oil flow meter, pressure controller, electrical heating for heavy oil (oil operation)
- Safety shut-off valve for fuel oil (oil operation)
- Options like integrated burner control, O2 control, frequency-controlled combustion air fan, water injection for reducing the content of solids, flue gas recirculation for NOx reduction

