## Compact Rotary Cup

# SKV(G)-A

## Advantages

- Highest quality standards by latest state of production engineering, application of ISO 9001 quality management system
- European type approval (EN 267 / 676) , CE certification, international type acceptance
- Standardised, type-certified product line
- Rotary cup atomiser of the latest technology with perfectly tuned high-capacity fan
- Economic and low-emission combustion - even for very heavy oils
- Simple projecting and planning
- Time and cost saving installation and commissioning
- Flexible due to combustion of different fuels with different quality
- Almost maintenance-free, SAACKE typical long service life

| | |
|---|---|
| **Capacity range** | **1.0 - 17.3 MW** |
| **Fuels** | **Light fuel oil SKV-A** |
| | **Heavy oil SKV-A** |
| | **Light fuel oil / gas SKVG-A** |
| | **Heavy oil / gas SKVG-A** |
| | **Gas SG-A** |

The SKV(G)-A burner is a completely new development based on the well-proven SAACKE rotary atomising technology. It combines all advantages of an economic, operation-reliable and environment-friendly combustion: a large control range at low air ratio, highest combustion quality as well as insensibility for fuels of different quality and contamination. The innovative power of the SKV(G)-A is based on the progressive matching of all components, forming a new over-all concept.

This SKV(G)-A burner generation represents the latest state-of-art in technology and meets all demands upon environment-friendly and economic firing systems over the complete capacity range: standardised technology, no individual engineering andcost-saving. The product line containsburners for light fuelor heavy oil, for light fuelor heavy oil in combination with gas. Even the standard version of the SKV-A can be universally used and easily adapted to special operation conditions.

The high-capacity fan is a fixed part of the SKV(G)-A and is perfectly tuned to the burner in various types. The SKV(G)-A is designed as single-fuel or dual-fuel burner for liquid and gaseous fuels. Fuel change-over may be initiated fully automatically from the remote control system. The alternate combustion of light fuel oil, heavy oil and gas makes the operator independent of any fluctuations on the fuel market, since he may always use the lowest price fuel. The newly developed Low NOx gas burner is an integral part of the air register and can be easily adapted to the different gases. This burner is a parallel flow burner with fuel staging that - due to its special primary gas feeding - guarantees high flame stability, smooth operation and low NOx emissions.



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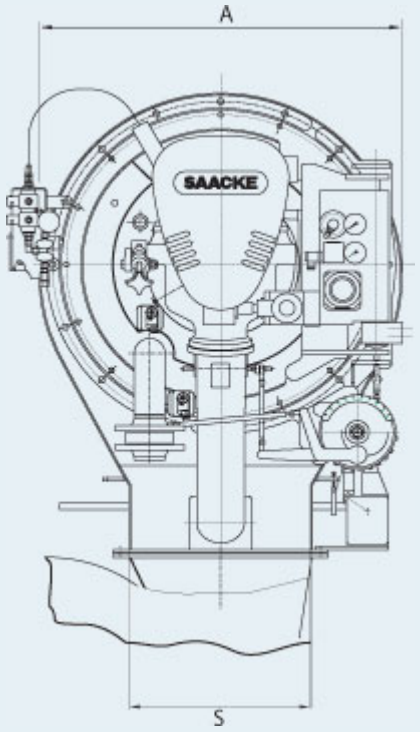


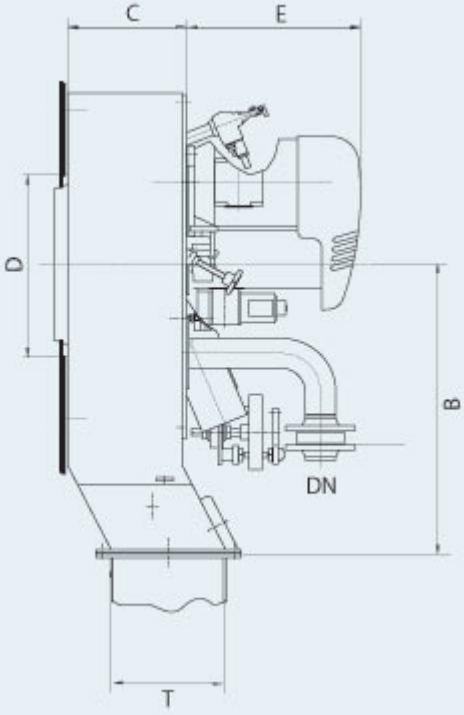


| Brennertyp<br>Burner type | Maße / Dimensions (mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | S | T | DN |
| SKV(G)-A 46 | 1050 | 860 | 342 | 490 | 505 | 520 | 320 | 80 |
| SKV(G)-A 56 | 1050 | 860 | 342 | 490 | 505 | 520 | 320 | 80 |
| SKV(G)-A 68 | 1050 | 860 | 342 | 520 | 505 | 520 | 320 | 80 |
| SKV(G)-A 82 | 1050 | 860 | 342 | 520 | 505 | 520 | 320 | 80 |
| SKV(G)-A 102 | 1160 | 920 | 342 | 560 | 505 | 650 | 360 | 100 |
| SKV(G)-A 124 | 1160 | 920 | 342 | 560 | 505 | 650 | 360 | 100 |
| SKV(G)-A 134 | 1160 | 920 | 342 | 580 | 505 | 650 | 360 | 100 |
| SKV(G)-A 152 | 1250 | 1000 | 368 | 610 | 505 | 800 | 410 | 125 |





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| Brennstoff Fuel | Leistung Capacity ca. (MW) | 1.0 ▼ 5.2 | 1.0 ▼ 6.3 | 1.1 ▼ 7.6 | 1.2 ▼ 9.2 | 1.4 ▼ 11.5 | 1.6 ▼ 14.0 | 1.7 ▼ 15.2 | 1.9 ▼ 17.3 |
|---|---|---|---|---|---|---|---|---|---|
| | Brennertyp Burner type | 46 | 56 | 68 | 82 | 102 | 124 | 134 | 152 |
| Leichtöl Light fuel oil | SKV-A | — | — | — | — | — | — | — | — |
| Schweröl Heavy oil | SKV-A | — | — | — | — | — | — | — | — |
| Leichtöl/Gas Light fuel oil/gas | SKVG-A | — | — | — | — | — | — | — | — |
| Schweröl/Gas Heavy oil/gas | SKVG-A | — | — | — | — | — | — | — | — |
| Gas | SG-A | — | — | — | — | — | — | — | — |

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
- Integrated high capacity fan (compact burner), 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)
- Integrated oil valves block with oil flow meter, pressure controller or oil throttle valve, ACR flow regulator, electrical heating for heavy oil (oil operation)
- Safety shut-off valve ESV-A 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





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