HANSA

Operation instruction

H(V)S 5.3 (G)

Productivity area: 13,0 - 60,0 kW

Testet according to 1BimSchV, with a low content of harmful substances

Operating Instructions

for H(V)S 5.3 (G) oil burner

Our burners are qualitity products. With an expect assembly, adjustment and maintance, the burner burner will work reliable and economically for many years.

Before the assambly of the burner, the following steps have to be carried out:

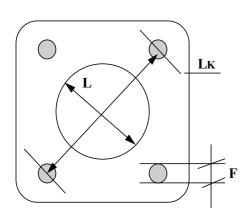
- Check weather the heat generator is impermeable on ist smokegas side.
- In case of second hand heat generators the heating surfaces have to be clean in order to achieve a good degree of effectivness.
- The oil pipes have to be laid professionally and must be absolutly impermeable.
- Older heating oil filters have to be cleaned or otherwise the filter pad changed

Contains of the cardboard box:

1 oil burner H(V)S 5.3 (G)
2 fixing screws M8
1 Operating instructions
with 2 underlay discs
1 flange seal
2 oil tubes 850 mm
1 plug with 7 poles
1 conic case fixing screw

Assembly:

First, you attach the boiler flange and the flange seal (picture1) to the boiler. Therefore you use the screws and the underlay discs. The boiler flange has to be screwed in the correct position (mark "OBEN") to the boiler. The flange is constructed in a way that the burner slightly bends into the firebox.



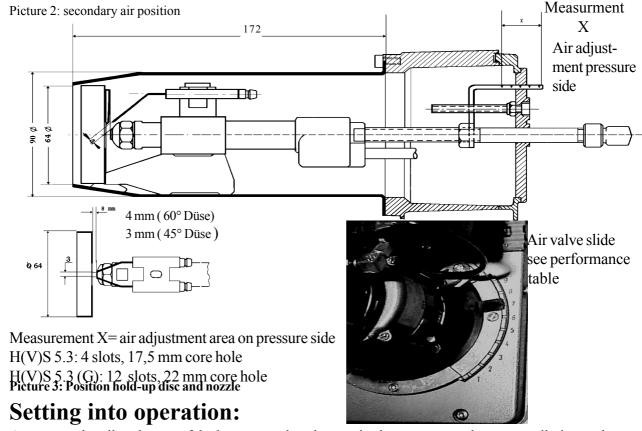
Picture 1: Flange seal Lk=150mm L=91mm F=8,5mm

According the firebox depth, the burner is pushed into the boiler flange and fixed. For further adjustments you loosen the 4 patent stopper screws hang the burner in assembly position. Take the corressponding value for the oil nozzle from the table. In order to screw the oil nozzle in, you have to withdraw the hold-up disc with its electrode. After attaching the oil nozzle, the hold-up disc is fixed again. The oil nozzle must be firmly screwed on. (Sw 16; don't use pincers.) When assembling the hold-up disc, take care that the distances corresspond to the picture 3. After the assembly of the oil pipes (pay attention to the flow direction) and the electric connection (picture 4), the burner is operational.

Performance table

Type	Performance	Air	Measurement X	Nozzle size	Pump pressure	Distance nozzle-
	kW	valve	X	Type Danfoss	bar	hold-up disc in mm
H(V)S 5.3	13	1	0,5	0,30 / 60° SR	10	3
H(V)S 5.3	17	1	1	0,40 / 60° SR	10	3
H(V)S 5.3	22	1,5	1,5	0,50 / 60° SR	10	3
H(V)S 5.3	24	2	2,5	0,55 / 60° SR	10	3
H(V)S 5.3	28	2,5	3	0,65 / 60° SR	10	3
H(V)S 5.3	33	3	3	0,75 / 60° SR	10	3
H(V)S 5.3	37	3	3,5	0,85 / 60° SR	10	3
H(V)S 5.3 G	44	3,5	3	1,00 / 45° SR	10	3
H(V)S 5.3 G	48	4	3	1,10 / 60° SR	10	3
H(V)S 5.3 G	55	5	3,5	1,25 / 60° SR	10	3
H(V)S 5.3 G	60	5	4,5	1,25 / 60° SR	12	3

The nozzle values are approximate and have to be adjusted corresponding to the exhaust gas temperature. You should use conic nozzles with a spray angle of 60°. the position of the air valve depends on the boiler resistance. If the boiler resistance is high, the air valve can be opened more; if the resinstance is low; it has to be closed more.



As soon as the oil preheater of the burner reaches the required temperature, the pre-ventilation and preignition starts. After opening the magnetic valve the flame ignites he flame watcher (photo-resistance) controls the program andstops it in case of faults. When the burner switches of, the economy valve closes. It avoids that thefire room cools down. The air adjustment slide (to the upper left of the burner case), regulates the basic air quantity is regulated. The fine adjustment of the air quantity is realised by means of the air adjustment on the pressure side (see picture 2). The adjustment according the the required burner performence (see performence table) can be taken from the measurement X mark The best exhaust gas values are achievedwhen the measurement X for the required performence is near the limit indicates in the performence table. Then the combustion for this performence area receives less external air. Now the adjustment of the soot image from 0-1 carried out on the air valve adjustment slide. After finishing the air adjustment, attach the straight-knurled nut to the air adjustment screw.

Local EVU- and VDE-prescriptions have to be taken into account

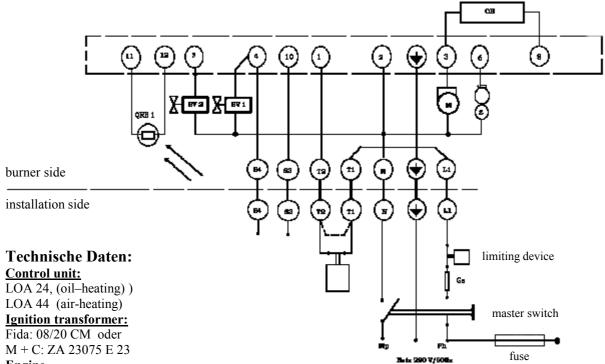
The total performance of H(V)S 5.3 (G) during operation is approximately 253 W.

OH oil heater QRB 1 Photo-resitsance S3 interference connection M burner engine L1 Phase 230 V B4 counter of operating hours

Z ignition transformer T1+T2 boiler thermostat earthing connection

BV1 magnetic valve 1 N Mp

BV2 magnetic valve 2



Engine

AEG EB 95 C 35/2 V 8mm Welle oder Coupling engine pumpwith one surface plate

Pump and oil-pre-heater:

Oil pre-heater FPHB-LE

Oil pump

Suntec ALE 35 C 9324

Magnetic valve:

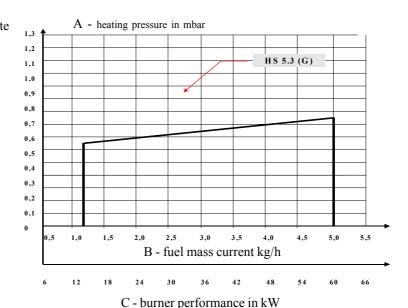
Suntec AL

Photo-resistance:

QRB 1C A050B040B

Fan wheel:

Ø 120 * 40 TLR OHE



Guarantee:

The type H(V)S 5.3 (G) is a trade mark fabricate. The guarantee for additional parts is 24 months. The burner has to be installed, assembly and measured professionaly. In case of non compilance with the aformentioned conditions, faulty handling or wrong connection, the guarantee expires.

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