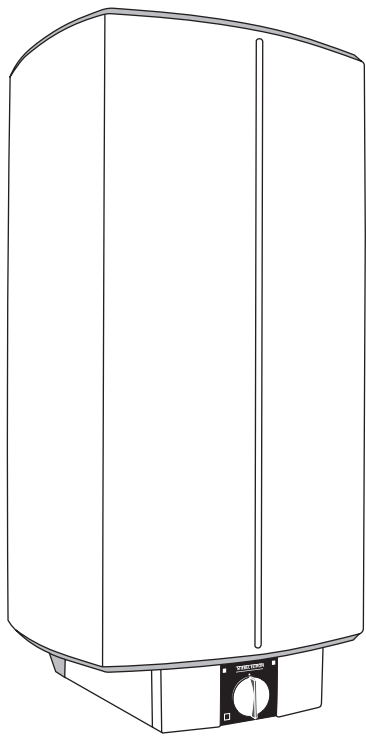


SHD 100 / 30 S - Instantaneous Storage Water Heater.

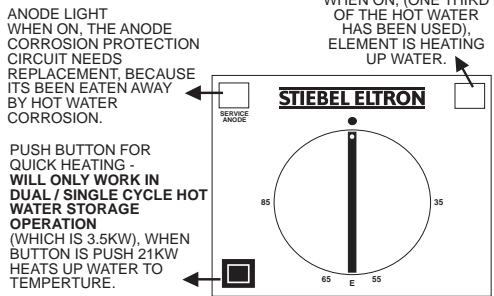


Our closed (pressurized) wall-mounted "Instantaneous / Storage" water heaters SHD30S and SHD100S are suitable for supplying hot water to several outlets. For small quantities needed it works as a storage heater with 3.5 kW heating, for large quantities it works as an instantaneous water heater with 21 kW. The temperature can be set infinitely variable from approx. 35°C up to 85°C. Both units have a very efficient energy-saving CFC-free thermal insulation, and a Corrosion protection "Anode" which draws hot water corrosiveness to its self first before it attack's the tank. The anode needs to be replaced (or serviced) when a "Service Anode" light comes on, on the front panel of the unit, this should happen every two years maximum. This unit has to be fitted with our "KV30 combo valve", it is firstly a "Pressure Relief" valve for relief of hot water expansion due to heating and a flow control and gate valve. There is a "KV40 combo valve" which is similar to the KV30 with the addition of a "Pressure Reducing Valve", for those installation with more than 6 bar pressure.

For all installation Diagrams and instructions, go to manual's button on the top right of this page. This Geysers 21Kw element has the ability to heat water instantly to 40°C at a flow rate of about 10 litres a minute (@ 10 degrees celcius incoming water tempterature), for precise specifications please click the spec button on the top right side of page.

Ideal For; Ablutions, Bakeries, Boarding Houses, Canteens, Camp Sites, Caravan Parks, Factories, Guest Cottages, Hairdressing Salons, Holiday Homes, Hostels, Light Industry, Laundries, Nursing Homes, Restaurants, Schools, Sports Clubs, Tourist Resorts & Butchery's.
SHD 30 S - Hair Dresser's (3 basin's per unit)
SHD 100 S - Hair Dresser's (5 basin's per unit),
Change-Room Showers (3 shower's per unit).

FRONT PANEL DESCRIPTION



MAIN POINTS

- ELEGANT DESIGN IS EXCLUSIVE, MODERN AND PRACTICAL. VERY VERSATILE With HIGH PERFORMANCE.
- PROVIDES AN ENDLESS SUPPLY OF HOT WATER IN INSTANT MODE WITH SPECIFIED FLOW RATES.
- EASY TO INSTALL.
- SELECTABLE TEMPERATURE; 35°C TO 85°C (STORAGE).
- THIS UNIT DELIVERS IN "STORAGE MODE" @ 85°C = 300L @ 40°C IN "INSTANT MODE (10L/MIN)" = 600L @ 40°C A TOTAL MIXED WATER IN THE FIRST HOUR @ 40°C = 900L THERE AFTER 600L @ 40°C PER HOUR CONTINUOUSLY
- ANODE PROTECTION FROM CORROSION. ANODE SERVICE EVERY 2 YEARS.
- LOW RUNNING COSTS - DRAMATICALLY REDUCES ELECTRICAL BILLS.
- SAFETY RELIEF VALVE MUST BE FITTED (i.e. KV30-6BAR).
- KV40 WITH PRESSURE REDUCER SET @ 4BAR.
- MAXIMUM PRESSURE 6 BAR,
- FACTORY TESTED TO 10 BAR IN GERMANY.

Heating-up time at 21 kW (storage vessel full of cold water)

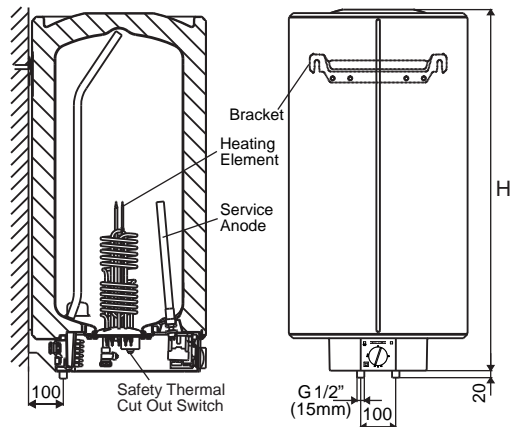
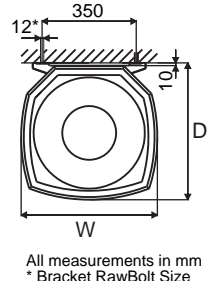
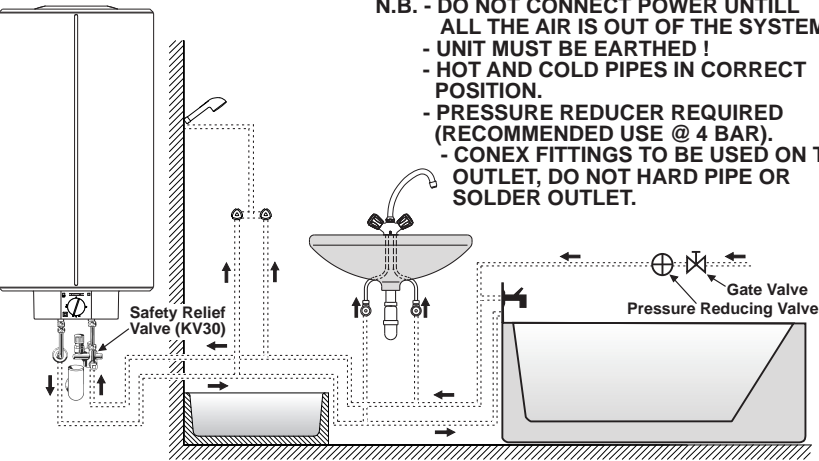
Temperature setting	65 °C *	85 °C *
SHD 30 S	6 min	8 min
SHD 100 S	18 min	25 min

* Cold water supply 10°C & Voltage @ 400V.

Instantaneous hot water production flow rates.
(At these flow rates the geyser's hot water will never drop below the specified temperature)

Heating incoming water instantaneously too Cold water supply Temperature	Output Temperature	
	38 °C	55 °C
6 °C	9,4 l/min	6,1 l/min
10 °C	10,7 l/min	6,7 l/min
14 °C	12,7 l/min	7,3 l/min

N.B. - DO NOT CONNECT POWER UNTILL ALL THE AIR IS OUT OF THE SYSTEM !!
 - UNIT MUST BE EARTHED !
 - HOT AND COLD PIPES IN CORRECT POSITION.
 - PRESSURE REDUCER REQUIRED (RECOMMENDED USE @ 4 BAR).
 - CONEX FITTINGS TO BE USED ON THE OUTLET, DO NOT HARD PIPE OR SOLDER OUTLET.



Technical Data

Bill of Quantities Description	SHD 30 S	SHD 100 S
Rated power - kW	21kW	
Power Connection @ 400V~*Amps	30.3 amps	
Circuit Breaker & Cable Size	35amp/6mm	
Tank Capacity - Litres	30	100
Tank Material	Enamelled Steel	
Type	Closed - Pressurized	
Rated overpressure - MPa (bar)	0.6 (6 Bar)	
Weight - Kg	24,5	46
Dimensions	H	750mm
	W	410mm
	D	420mm
Bracket - RawBolt Size	12mm	
Protection mode	IP 25 D (Jet water proof)	
Water connection	G 1/2" - 15mm	
Electrical connection	3 Lives & an Earth (3/PE) ~ 380V - 400V - 415V	
VDEW approval	Yes	
SABS approval	Yes	
Heating system - Element	Tubular	
Instantaneous Mode (40°C) - Flow Rate	10 L/min for a 28°C temperature rise	
Stand-by energy consumption @ 65°C over 24 Hours	0.85 kWh/24h	
Eskom Charge (per heating cycle @ 70°C)	SHD	
		6 min R0.55 18 min R 1.64
Normal Domestic Geyser @ 100L~2kW	3 Hours & 12min = R 1.66	
@ 250L~4kW	4 Hours = R 4.16	

! No valves of any kind must be installed between the Safety Relief Valve (KV30) & the cold inlet to the geyser. KV30 Directly connected to Geyser !