JS Humidifiers plc

Neptronic SKG

Gas-Fired Steam Humidifier



Neptronic SKG – the new generation of

6 SKG 3000

as-fired humidification is ideal for any application that requires over 50kg/h of steam and has an available gas source. The running costs when compared to electrical units are so much lower that the initial payback period, when replacing electric with gas units, can be just one year.

When gas-fired humidification is suitable there is no better choice than the Neptronic SKG. It leads the way in humidifier technology with superior output and performance, an extremely compact and functional design, and features that make maintenance simple and straightforward.

No other gas-fired humidifier comes close!

Easy maintenance

Scale removal as easy as 1, 2, 3...







Release band clamp

Depress handle

Remove tank

Every steam humidifier will build-up scale in its boiling tank as the minerals present in the water are left behind during evaporation. How a humidifier deals with this problem determines how easy it is to maintain.

The SKG is the easiest gas-fired humidifier to maintain due to two innovative features:

Patented spiralled heat exchanger that fluctuates in size during heating and cooling. This increase and decrease in size literally cracks the scale from the surface, keeping the exchanger clean and fully efficient. The scale that falls off is either flushed away to drain or is collected in the bottom of the boiling tank.

Quick-release tank mechanism allowing limescale build-up to be emptied in less than five minutes from start to finish. The same maintenance on other gas-fired humidifiers can take up to four hours. For a demonstration of how easy this is, visit our website at www.jshumidifiers.com.



Quick-release tank mechanism

Features

- Smallest footprint available
- Designed for easy maintenance
- Wide modulation: 8.7-400kg/hour of steam
- Scale-resistant, spiralled heat exchanger
- Single point connections for services water, gas, etc
- Easy to install
- Very accurate water level sensor
- Very high combustion efficiency: 93%
- maintenance cycles

 Can be controlled via BMS or stand

 Operates with any type of water

- Weatherproof enclosure available
 Highest quality construction & ma
 Drain water tempered for discharge

- BACnet compatible

Small footprint & wide modulation

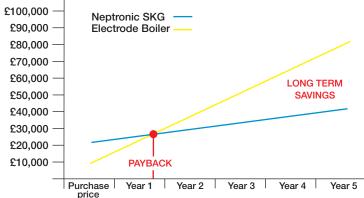
gas-fired humidifier



12-month payback when retrofitting

Due to the lower price of gas compared to electricity, when replacing a 180kg/h electrode boiler humidifier with the Neptronic SKG, the resulting savings will pay for the initial expense of the SKG in just 12 months.

Even though the initial capital cost is around three times as much as an electrode boiler humidifier, the gas option soon becomes the economic alternative. In fact, over the first five years of operation, up to £50,000 can be realised in savings once the energy, spares and maintenance costs are taken into account.



12-month payback period & around £50,000 in energy and maintenance savings in first five years

Accurate water level control

A patented solid-state water level sensor maintains the correct level of water in the boiling chamber, even if there is severe foaming. Other humidifiers that use float level sensors can be inaccurate when foam fills the tank as the float rests upon the foam. This can lead to the heat exchanger burning out.

Caution

Solid-state sensor

The SKG's solid-state water level sensor can recognise the difference between foam and water, ensuring that the correct water level is always maintained, helping to provide utmost control over output, even during refilling.

The sensor is located outside of the main boiling tank allowing users a clear visual indication of water level and allowing easy access for cleaning.

Quality construction

The Neptronic SKG is constructed to the highest quality with a 316 stainless steel combustion chamber, evaporation chamber and heat exchanger with powder coated cold roll steel cabinet. The humidifier is CE and WRAS approved for direct connection to a mains water supply.

The humidifier can be used with any type of water, even deionised or reverse osmosis,

and is available in a weatherproof enclosure for use outside.

Manufacturer & Model	Footprint (m²)	Depth (cm)	Width (cm)	Height (cm)	
100kg/h Neptronic SKG	0.34	56	61	147	
85kg/h Vapac GF	0.43	96.5	45	116.5	
90kg/h Carel gaSteam	0.58	57	102	120	
80kg/h AxAir GS	0.79	67.3	118	81.5	
102kg/h DriSteem GTS	1.13	82.2	138	104	

The Neptronic SKG has the smallest footprint of all gas-fired humidifiers. A unit with a 100kg output has a footprint of just 610mm by 560mm. This makes it ideal for plant rooms where space is at a premium.

It also has the widest modulation range of any gasfired steam humidifier. A single SKG with a maximum output of 400kg/h can modulate down to just 8.7kg/h so even when the smallest output of steam is required the Neptronic delivers the utmost control. This model still only requires single connections to gas, water, drain, flue, power and controls making it much easier to install than other units that need multiple connections for larger outputs.

Neptronic SKG - gas-fired steam humidifier

Specifications

Models	Steam Capacity	Consumption		Weight		Dimensions			
		Gas input	Gas Consumption	Elec.	Empty	Full	Height	Width	Depth
	kg / hr	kW	M³/hr	W	kg	kg	cm	cm	cm
SKGE3-0501N/P	50	43	3.9	410	125	180	147	61	56
SKGE3-0701N/P	70	60	5.4	410	125	180	147	61	56
SKGE3-0801N/P	80	68	6.1	410	125	180	147	61	56
SKGE3-1001N/P	100	84	7.6	410	125	180	147	61	56
SKGE3-1202N/P	120	103	9.3	795	245	355	147	122	56
SKGE3-1502N/P	150	119	10.8	795	245	355	147	122	56
SKGE3-1702N/P	170	144	13.0	795	245	355	147	122	56
SKGE3-2002N/P	200	169	15.3	795	245	355	147	122	56
SKGE3-2503N/P	250	212	19.2	1200	245	550	147	183	56
SKGE3-2703N/P	270	228	20.7	1200	245	550	147	183	56
SKGE3-3003N/P	300	253	22.9	1200	245	550	147	183	56
SKGE3-3504N/P	350	296	26.8	1610	485	705	147	244	56
SKGE3-3704N/P	370	313	28.3	1610	485	705	147	244	56
SKGE3-4004N/P	400	338	30.5	1610	485	705	147	244	56

Accessories



JS Pureflo reverse osmosis unit



JS Pureflo water pressurising pump



MultiSteam short evaporation pipework



Water softeners

World class service

With agents across the globe and cutting edge technology, JS will deliver the right humidification solution for you.



Service & maintenance

JS will support you in your humidification requirements from system design, evaluation, installation, commissioning, maintenance, spare parts, training and technical advice.



www.jshumidifiers.com

JS has a policy of continually improving products and performance. Actual specifications might vary from those shown.













Artex Avenue, Rustington, LITTLEHAMPTON, West Sussex, BN16 3LN, UK. Tel: +44 (0)1903 850200 • Fax: +44 (0)1903 850345 Email: sales@jshumidifiers.com







