

Technical Data - Heliex GenSet

Steam Expander Generator Set HP145



Description

The HP145 steam expander generator set is a fully integrated system which converts energy in the form of wet steam into clean electrical power.

Features

- Rugged screw expander technology
- Standalone packaged unit
- Industry standard key components
- Fully automated

Package design may vary.

Performance	HP145 – 90	HP145 – 110	HP145 – 132	HP145 – 160
Gross power output *	Up to 90 kWe	Up to 110 kWe	Up to 132 kWe	Up to 160 kWe
Auxiliary power input	Up to 2.5 kWe	Up to 2.5 kWe	Up to 2.5 kWe	Up to 2.5 kWe

*Depending upon steam inlet and outlet conditions. 75kWe rating available on demand.

Operating parameters

Electrical	400V, 50Hz, 3ph+N	480v, 60Hz, 3ph+N Option
Ambient temperature	-10°C to +45°C	
Ambient humidity	<95% (non-condensing)	
Installation	Indoor or Outdoor	
Sound pressure level	<87dBA at 1 metre	
Steam mass flow rate range	Up to 6000kg/h	
Max. steam inlet temperature	221°C (saturated steam)	
Max. steam inlet pressure	23.5 Bar A	
Max. inlet-outlet ΔP	15 Bar	
Steam inlet dryness fraction	<97%	

Dimensions and foundations

Dimensions	2750 X 1700 X 2000mm (LWH)
Mass	Up to 3,500 kg depending upon electrical generator rating
Lifting and handling	Standard forklift pockets 200 x 100 mm, 1300 mm between centres
Site foundation	Level load bearing surface 3000 x 2000 mm

Plant services and interconnections

Steam inlet	DN80, PN25
Steam outlet	DN100, PN25
Compressed air supply	7 bar g (Instrument air to ISO 8573.1 Class 2:3:1)
Electrical output	400V, 3 ph+N, continuous rating to suit generator protection device
Electrical input	400V, 3 ph+N
Remote monitoring	Internet bridge (via internet cable or optional wireless GPRS / UMTS Modem). BMS or SCADA systems - MODbus over RS232, RS485, USB, Ethernet.

Heliex Power Ltd reserve the right to change technical specification without notice

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