

**Class 0 Rotary
50 – 400 HP
(37-300kW)**

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Davidson, NC 28036

OIL-FREE ROTARY SCREW AIR COMPRESSOR 50 - 400 HP (37 - 300 kW)

Class 0 Oil-Free Rotary compressor performance as stated in the engineering data pages is at the ambient reference conditions as specified in ISO 1217 annex C. For compressors installed at high altitudes, significantly above sea level, please reference the deration criteria below.

1 SIERRA® fixed speed models**L&H 60 Hz / SL&SM 50 Hz models**

The standard L,H,SL&SM model Sierra Package can be installed at altitudes up to 3,280 feet (1,000 m) where ambient temperatures do not exceed 115 °F (46°C), with only a small loss in inlet capacity. When ambient temperatures are limited to 104 °F (40°C), L&H / SL&SM model standard compressor packages can be installed up to 7,500 feet (2,286 m) as long as package discharge pressures do not exceed 100 psig (L model) and 125 psig (H model) or 7 barg (SL model) and 8.5 barg (SM model).

Some high altitude applications where ambient temperatures are in excess of 95 °F (35°C) may require adjustment of stage discharge alarm temperatures, consult Sierra Global Portfolio Management.

HH 60 Hz / SH 50 Hz models

The standard HH, & SH model Sierra Package can be installed at altitudes up to 1,500 feet (457 m) where ambient temperatures do not exceed 115 °F (46°C). When ambient temperatures are limited to 80 °F (27°C), HH, & SH model standard compressor packages can be installed up to 2,500 feet (762 m).

Power

Compressor input power requirements will decrease 0.9% for each 500 foot (152 m) increase in altitude, up to 3,280 feet (1,000 m). The standard motor rating is maintained up to an altitude of 3,280 feet (1,000 meters).

2 NIRVANA Oil Free models

For altitudes up to 3,280 feet (1,000 m) and working pressures above 125 psig (8 barg) consult the charts published in note 8 on the Nirvana engineering data pages. For installations above 3,280 feet (1,000 m) consult Sierra Global Portfolio Management for review. The standard machine can be applied with only a small loss in inlet capacity for working pressure below 125 psig (8 barg) up to 3,280 feet (1000 m).

Note: Consult your Marketing Manager for Sierra “bolt on VFD” applications and all altitude applications that are beyond the limits referenced above for review