


| Technical Datasheet | | GC175B6 | |  | |
|--|-------------|-----------|------|--|-------------|
| 93800020091_V01_US | with engine | B3066L8 | | | |
| Oilcooler, external | | | | | |
| Coolant temperature (in/out) | °F | -- / -- | | | |
| Coolant volumetric flow ⁹⁾ | gal/min | -- | @ | -- | psi delta p |
| CV-Value ¹⁰⁾ | | | | | |
| Max. operation pressure | psi | | | -- | |
| Intercooler 2nd stage, external | | | | | |
| Coolant temperature (in/out) | °F | -- / -- | | | |
| Coolant volumetric flow ⁹⁾ | gal/min | -- | @ | -- | psi delta p |
| CVs value ¹⁰⁾ | | | | | |
| Max. operation pressure in front of intercooler | psi | | | -- | |
| Plate heat exchanger | | | | | |
| Coolant temperature (in/out) | °F | 201 / 180 | | | |
| Heating water temperatur (in/out) | °F | 158 / 194 | | | |
| Heating water volumetric flow ⁹⁾ | gal/min | 44,0 | @ | 14,50 | psi delta p |
| CVs value ¹⁰⁾ | | | | 100,0 | |
| Max. operation pressure (heating water) | psi | | | 232 | |
| Space ventilation | | | | | |
| Genset ventilation heat ¹¹⁾ | kBTU/hr | 58,0 | | | |
| Combustion air temperature: (min./design/max.) | °F | | | 50 / 77 / 95 | |
| Min. engine room temperature ¹²⁾ | °F | | | 41 | |
| Max. temperature difference ventilation air (in/out) | °F | | | 36 | |
| Min. ventilation air flow in (combustion+ventilation) ¹³⁾ | ft³/min | | | 1766 | |
| Gearbox | | | | | |
| Gear ratio | | | | -- | |
| Thermal output gearbox (watercooled) | kBTU/hr | | | -- | |
| Efficiency | | -- | -- | -- | -- |
| Filling quantities | | | | | |
| Lube oil for engine | gal | | | 5 | |
| Coolant for engine | gal | | | 62,1 | |
| Coolant for intercooler | gal | | | 1,32 | |
| Heating water for plate heat exchanger | gal | | | 4,0 | |
| Engine sound level¹⁴⁾ (1 meter distance, free field) | | | | | |
| Frequency | Hz | 63 | 125 | 250 | 500 |
| Sound pressure level | dB | 67,4 | 76,9 | 78,4 | 85,7 |
| Frequency | Hz | 1000 | 2000 | 4000 | 8000 |
| Sound pressure level | dB | 80,5 | 76,3 | 71,1 | 73,0 |
| Sum of pressure levels | Lin dB | 88,4 | | | |
| | dB A | 85,4 | | | |
| Sound power level | dB A | 104,5 | | | |
| Undamped exhaust noise (1 meter distance to outlet within 90°, free field) | | | | | |
| Frequency | Hz | 63 | 125 | 250 | 500 |
| Sound pressure level | dB | 86,6 | 81,5 | 66,2 | 63,5 |
| Frequency | Hz | 1000 | 2000 | 4000 | 8000 |
| Sound pressure level | dB | 57,0 | 59,0 | 49,7 | 36,8 |
| Sum of pressure levels | Lin dB | 87,8 | | | |
| | dB A | 67,5 | | | |
| Sound power level | dB A | 79,0 | | | |
| Dimensions | | | | | |
| Length | in | | | 144,9 | |
| Width | in | | | 73,6 | |
| Height | in | | | 84,3 | |
| Gross weight / dry weight | lb | | | 10362 / 9766 | |
| Power derating | | | | | |
| Altitude | | | | 1.2 % / 328 ft > 328 ft NN | |
| Combustion air temperature | | | | 0,6 % / 1 °F > 86 °F | |
| Intercooler 2nd stage temperature (in) | | | | -- | |
| Methane number | | | | 0,8 % / MN < 120 | |
| Boundary conditions and consumables | | | | | |
| | | | | | DK-BS-0001 |
| <p>1) Normal ft3 at p = 14.696 psi und T = 32 °F</p> <p>2) Generator gross power at nominal voltage, power factor = 1 and nominal frequency</p> <p>3) At standard reference conditions (ISO 3046-1); atmospheric pressure: 14.5 psi; air temperature: 77 °F; rel. air humidity 30 %</p> <p>4) Thermal output at layout temperature; tolerance +/- 8 %</p> <p>5) According to ISO 3046 (+ 5 % tolerance), using reference fuel used at nominal voltage, power factor = 1 and nominal frequency</p> <p>6) Deviations from the layout parameters respectively the reference fuel can have influence to the obtained efficiency and exhaust emissions</p> <p>7) Emission values during system parallel operation - where required with Oxcat</p> <p>8) Reference value at nominal load (without amount of oil exchange)</p> <p>9) Stated values for pure water, adaption for other cooling fluid composition necessary</p> <p>10) The CVs value declares the volumetric flow in gal/min at a pressure drop of 1 psi</p> <p>11) Only generator- and surface losses</p> <p>12) Frost-free conditions must be guaranteed</p> <p>13) Amount of ventilation air must be adapted to the gas safety concept</p> <p>14) All sound pressure levels at nominal load COP</p> <p>15) Power consumption of all electrical consumer, which are mounted at the module / aggregate</p> <p>16) Max. allowable cos phi at nominal power (view of producer)</p> | | | | | |