

# KQC480Q POWER UNIT

## TECHNICAL DATASHEET

Production Tolerance :  $\pm 5\%$

| <b>Stand-By (Maximum) Rating</b> | <b>Max.Torque</b> | <b>Fuel Consumption</b> |
|----------------------------------|-------------------|-------------------------|
| 29 kW (40 HP) / 3000 rpm         | 132 N.m           | 247 g/kW.h / 3000 rpm   |

Note : All datas are according to DIN6270B

### MECHANICAL SYSTEM

|                          |   |
|--------------------------|---|
| <b>Manufacturer</b>      | Kansas Diesel / China                     |
| <b>Engine Model</b>      | KQC480Q                                   |
| <b>Type</b>              | 4 cycle , Diesel ,<br>Naturally aspirated |
| <b>Combustion Type</b>   | Direct Injection                          |
| <b>Firing Order</b>      | 1-3-4-2                                   |
| <b>Cylinder Number</b>   | Inline 4 cyl                              |
| <b>Bore x Stroke</b>     | 90 x 95 mm                                |
| <b>Displacement</b>      | 2,54 lt                                   |
| <b>Compression Ratio</b> | 18  |
| <b>Dry Weight</b>        | 210 kg                                    |
| <b>Dimensions LxWxH</b>  | 736x532x708 mm                            |

### FUEL SYSTEM

|                      |                          |
|----------------------|--------------------------|
| <b>Governor Type</b> | Mechanical               |
| <b>Fuel Selenoid</b> | Energized to Stop        |
| <b>Fuel Filter</b>   | Full flow,cartridge type |
| <b>Fuel Delivery</b> | Single Act-Piston type   |
| <b>Fuel</b>          | Diesel Fuel (EN590)      |

### COOLING SYSTEM

|                        |                                    |
|------------------------|------------------------------------|
| <b>Cooling Type</b>    | Water Cooled                       |
| <b>Cooling Method</b>  | Forced Circulation                 |
| <b>Water Capacity</b>  | 8,5 lt without radiator            |
| <b>Water Flow rate</b> | 220 lt/min                         |
| <b>Water Pump</b>      | Centrifugal type driven<br>by belt |

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### LUBRICATION SYSTEM

|                        |   |
|------------------------|---|
| <b>Oil Pump Type</b>   | Gear  |
| <b>Oil Filter</b>      | Full Flow cartridge                                     |
| <b>Oil Capacity</b>    | 14 lt   |
| <b>Recommended Oil</b> | CD/CE/CF 10W/40<br>grade semi-synthetic or<br>synthetic |
| <b>Oil Pressure</b>    | 400 kPA (warm engine<br>at 3000 rpm)                    |

### ELECTRICAL SYSTEM

|                                   |              |
|-----------------------------------|--------------|
| <b>Charging Alternator</b>        | 14 V , 500 W |
| <b>Starting Motor</b>             | 12 V, 2,5 kW |
| <b>Battery Voltage</b>            | 12 V         |
| <b>Capacity<br/>(Recommended)</b> | 60 Ah        |

### OPTIONS

|        |                                     |
|--------|-------------------------------------|
| (EWI)  | Engine Wiring                       |
| (CPA)  | Basic Start Panel                   |
| (CHE)  | Coolant Heater                      |
| (ESI2) | Residential type Silencer           |
| (BAT)  | Battery , cables & rack             |
| (BFR1) | Baseframe Std.c/w fuel tank         |
| (BFR2) | Extended Baseframe c/w fuel tank    |
| (NFP)  | Conformity kit to NFPA-20 standards |
| (HEX)  | Heat Exchanger Kit with pipeline    |
| (CPL)  | Coupling with its guard             |
| (TBX)  | Tool Kit                            |

### UNIT CONVERSION

|   |
|---|
| HP = kW x 1,3596                              |
| Torque (N.m) = 9549,3 x P(kW) / N(1/min)      |
| Torque (kg.m) = 716,2 x P(HP) / N(1/min)      |
| 1 Bar = 1,019726 kg/cm <sup>2</sup> = 100 kPA |
| 1 kW = 0,2388 kcal/s                          |

**IDEA**

**IDEA MAKİNA İMALAT SAN.VE TİC.LTD.ŞTİ.**

İstanbul Deri OSB, Sama Cad. 12. Yol, No: 7

Tuzla / İstanbul - TURKEY

Tel : + 90 216 313 42 77

Fax : + 90 216 313 42 79

e-mail : info@ideamakina.com.tr