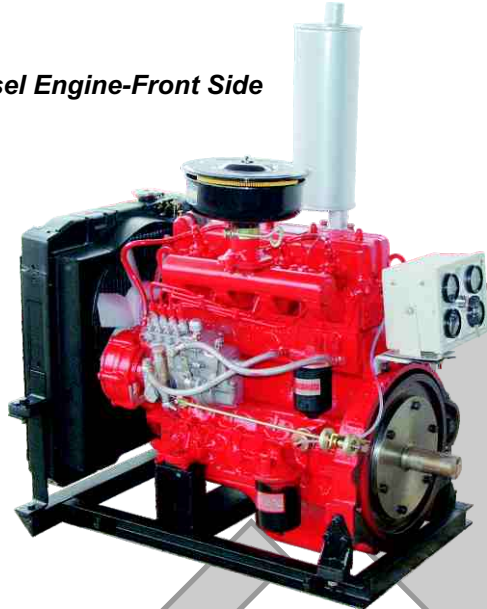




WATER-COOLED
DIESEL ENGINES

DIESEL ENGINE

Diesel Engine-Front Side



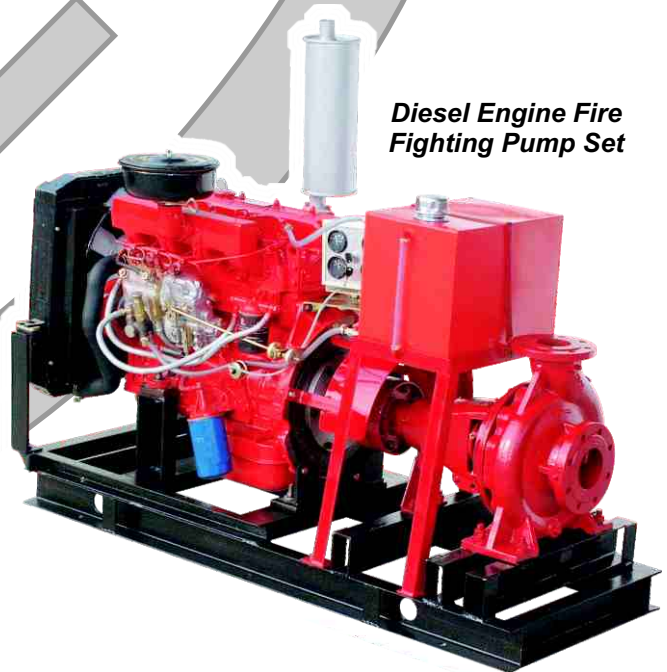
FEATURES

- ◆ Power up to 220KW / 300HP
- ◆ Compact structure
- ◆ High reliability
- ◆ Easy operation
- ◆ Simple maintenance

APPLICATIONS

- ◇ Fire fighting pump
- ◇ Water pump
- ◇ Generator set
- ◇ Truck

Diesel Engine Fire Fighting Pump Set



Diesel Engine-Rear Side



THONG FATT JAYA MACHINERY HARDWARE SDN. BHD.

同發機械五金有限公司 (176024-V)

707-709, Jalan Kuala Kangsar, Taman Tasek Jaya,
31400 Ipoh, Perak. Malaysia.
Tel: 00-605-5468 659, 5455 751, 5479 196, 5454 107
Fax: 00-605-5482 282, 5474 753
Email: tfjaya@streamyx.com / tfjaya@tm.net.my
Website: <http://www.thongfattjaya.com.my>



WATER-COOLED
DIESEL ENGINES

DIESEL ENGINE

DEK SERIES DIESEL ENGINE--SPECIFICATIONS DATA 1

| Model | DEK3-80-90 | DEK3-85-90 | DEK4-75-85 | DEK4-80-90 | DEK4-85-95 |
|---|---------------------------|-------------|-------------|-------------|-------------|
| Type: Vertical, Water-cooled, 4-stroke | * | * | * | * | * |
| Direct-Injection Combustion Chamber | * | --- | * | * | * |
| Swirl Combustion Chamber | --- | * | --- | --- | --- |
| No. of Cylinders | 3 | 3 | 4 | 4 | 4 |
| Cylinder Order | 1-3-2 | 1-3-2 | 1-3-4-2 | 1-3-4-2 | 1-3-4-2 |
| Bore x Stroke (mm) | 80 x 90 | 85 x 90 | 75 x 85 | 80 x 90 | 85 x 95 |
| Power / Speed (kw/rpm) | 22/3000 | 24/3000 | 24/3000 | 28/3000 | 33/3000 |
| Power / Speed (hp/rpm) | 30/3000 | 33/3000 | 33/3000 | 38/3000 | 44/3000 |
| Min. Full Load Fuel Consumption (g/kw.h) | ≤250.2 | ≤278.8 | ≤257 | ≤247 | ≤247 |
| Lube Oil Consumption (g/kw.h) | ≤2.72 | ≤2.72 | ≤2.72 | ≤2.72 | ≤2.72 |
| Max. Torque (N.m.) | 78.4 | 84 | 84 | 100 | 118 |
| Compression Ratio (ε) | 18:1 | 22:1 | 18:1 | 22.5:1 | 18:1 |
| Total Displacement (L) | 1.357 | 1.532 | 1.502 | 1.809 | 2.156 |
| Cooling Method | Forced Water-cooled | | | | |
| Lubrication Method | Splashing Under Pressure | | | | |
| Starting Method | Started by Electric Motor | | | | |
| Emission Certified | EURO II | ISO9001 | ISO9001 | ISO9001 | ISO9001 |
| Net Weight (engine only) (kg) | 165 | 175 | 185 | 195 | 200 |
| Overall Dimension (engine only)(LxWxH) (mm) | 563x509x592 | 587x494x615 | 687x494x623 | 687x494x623 | 697x510x628 |



WATER-COOLED
DIESEL ENGINES

DIESEL ENGINE

DEK SERIES DIESEL ENGINE--SPECIFICATIONS DATA 2

| Model | DEK4-90-100 | DEK4-102-105 | DEK4-105-118 | DEK4-108-118 | DEK ZQ4-110-112 |
|---|---------------------------|--------------|--------------|---------------|-----------------|
| Type: Vertical, Water-cooled, 4-stroke | * | * | * | * | * |
| Direct-Injection Combustion Chamber | * | * | * | * | * |
| Swirl Combustion Chamber | --- | --- | --- | --- | --- |
| No. of Cylinders | 4 | 4 | 4 | 4 | 4 |
| Cylinder Order | 1-3-4-2 | 1-3-4-2 | 1-3-4-2 | 1-3-4-2 | 1-3-4-2 |
| Bore x Stroke (mm) | 90 x 100 | 102 x 105 | 105 x 118 | 108 x 118 | 110 x 112 |
| Power / Speed (kw/rpm) | 43/3000 | 56/3000 | 71/3000 | 81/3000 | 105/2900 |
| Power / Speed (hp/rpm) | 58/3000 | 75/3000 | 95/3000 | 109/3000 | 141/2900 |
| Min. Full Load Fuel Consumption (g/kw.h) | ≤247 | ≤238 | ≤236 | ≤231 | ≤215 |
| Lube Oil Consumption (g/kw.h) | ≤2.72 | ≤2.04 | ≤1.9 | ≤1.9 | ≤0.5 |
| Max. Torque (N.m.) | 149.7 | 200 | 250 | 280 | 392 |
| Compression Ratio (ε) | 18:1 | 17.5:1 | 17.5:1 | 17.5:1 | 17:1 |
| Total Displacement (L) | 2.54 | 3.3 | 4.087 | 4.324 | 4.257 |
| Cooling Method | Forced Water-cooled | | | | |
| Lubrication Method | Splashing Under Pressure | | | | |
| Starting Method | Started by Electric Motor | | | | |
| Emission Certified | ISO9001 | ISO9001 | ISO9001 | ISO9001 | EURO I |
| Net Weight (engine only) (kg) | 230 | 300 | 330 | 330 | 380 |
| Overall Dimension (engine only)(LxWxH) (mm) | 716x530x670 | 892x618x718 | 837x630x810 | 810.5x625x762 | 863X664X843 |



WATER-COOLED
DIESEL ENGINES

DIESEL ENGINE

DEK SERIES DIESEL ENGINE--SPECIFICATIONS DATA 3

| Model | DEK QC6-105-125 | DEK ZQ6-108-125 | DEK6-110-125 | DEK6-120-145 |
|---|---------------------------|-----------------|--------------|---------------|
| Type: Vertical, Water-cooled, 4-stroke | * | * | * | * |
| Direct-Injection Combustion Chamber | * | * | * | * |
| Swirl Combustion Chamber | --- | --- | --- | --- |
| No. of Cylinders | 6 | 6 | 6 | 6 |
| Cylinder Order | 1-5-3-6-2-4 | 1-5-3-6-2-4 | 1-5-3-6-2-4 | 1-5-3-6-2-4 |
| Bore x Stroke (mm) | 105 x 125 | 108 x 125 | 110 x 125 | 120 x 145 |
| Power / Speed (kw/rpm) | 107/2800 | 120/2800 | 129/3000 | 220/1500 |
| Power / Speed (hp/rpm) | 143/2800 | 161/2800 | 173/3000 | 300/1500 |
| Min. Full Load Fuel Consumption (g/kw.h) | ≤210 | ≤210 | ≤225 | ≤198 |
| Lube Oil Consumption (g/kw.h) | ≤0.8 | ≤0.5 | ≤1.63 | ≤1.5 |
| Max. Torque (N.m.) | 430 | 490 | 461 | 1400 |
| Compression Ratio (ε) | 17.5:1 | 17.5:1 | 17:1 | 17.5:1 |
| Total Displacement (L) | 6.494 | 6.871 | 7.127 | 9.84 |
| Cooling Method | Forced Water-cooled | | | |
| Lubrication Method | Splashing Under Pressure | | | |
| Starting Method | Started by Electric Motor | | | |
| Emission Certified | EURO I | EURO I | ISO9001 | ISO9001 |
| Net Weight (engine only) (kg) | 630 | 747 | 560 | 1200 |
| Overall Dimension (engine only)(LxWxH) (mm) | 1234x701x1000 | 1281x723x972 | 1321x729x993 | 1652x939x1233 |