

CFE738-1-1B

Manufacturer: CFE : GE + ASE

Application: Falcon 2000

Composition: 1 / - / 5 + 1C / 2 / - / 3

$D_{fan} = 0.902 \text{ m} = 35.5 \text{ in}$ $D = 1.219 \text{ m}$

$W_{eng} = 601 \text{ kg} = 1325 \text{ lb}$ $= 48 \text{ in}$

Static Sea Level:

$T_{ssl} = 25466 \text{ N}$ $T_{ssl}^{AB} = \text{N}$

$= 5725 \text{ lbf}$ $= \text{lbf}$

$\text{SFC}_{ssl} = 1.05 \cdot 10^{-5} \text{ (kg/s)/N}$ $\text{SFC}_{ssl}^{AB} = \text{(kg/s)/N}$

$= 0.37 \text{ (lb/h)/lbf}$ $= \text{(lb/h)/lbf}$

$\dot{w}_{ssl} = 95.3 \text{ kg/s} = 210.1 \text{ lb/s}$

BPR = 5.3 OPR = 23

FPR = 1.7 TET = °K

Nb of shafts = 2

$L = 2.515 \text{ m}$

$= 99 \text{ in}$

Cruise:

$T_{cr} = 6512 \text{ N}$

$= 1464 \text{ lbf}$

$\text{SFC}_{cr} = 1.83 \cdot 10^{-5} \text{ (kg/s)/N}$

$= 0.65 \text{ (lb/h)/lbf}$

$\dot{w}_{cr} = \text{kg/s} = \text{lb/s}$

OPR_{cr} =

$M_{cr} = 0.8, h_{cr} = 12192 \text{ m}$

CFM56-2A2

Manufacturer: CFM International : GE + Snecma

Year:

Application: E-3D, KE-3A, KC-3, E-6A/B

Composition: 1 / 3B / 9 / 1 / - / 4

$D_{fan} = 1.735 \text{ m} = 68.3 \text{ in}$ $D = \text{m}$

$W_{eng} = 2186 \text{ kg} = 4819 \text{ lb}$ $= \text{in}$

Static Sea Level:

$T_{ssl} = 106757 \text{ N}$ $T_{ssl}^{AB} = \text{N}$

$= 24000 \text{ lbf}$ $= \text{lbf}$

$\text{SFC}_{ssl} = 1.02 \cdot 10^{-5} \text{ (kg/s)/N}$ $\text{SFC}_{ssl}^{AB} = \text{(kg/s)/N}$

$= 0.36 \text{ (lb/h)/lbf}$ $= \text{(lb/h)/lbf}$

$\dot{w}_{ssl} = 370.6 \text{ kg/s} = 817 \text{ lb/s}$

BPR = 5.9 OPR = 25.4

FPR = 1.45 TET = 1628 °K

Nb of shafts = 2

$L = 2.431 \text{ m}$

$= 95.7 \text{ in}$

Cruise:

$T_{cr} = 26900 \text{ N}$

$= 6047 \text{ lbf}$

$\text{SFC}_{cr} = 1.88 \cdot 10^{-5} \text{ (kg/s)/N}$

$= 0.66 \text{ (lb/h)/lbf}$

$\dot{w}_{cr} = \text{kg/s} = \text{lb/s}$

OPR_{cr} = 31.7

$M_{cr} = 0.8, h_{cr} = 10668 \text{ m}$

CFM56-2B1

Manufacturer: CFM International : GE + Snecma

Application: KC-135R/T, C-135FR, RC-135RE

Composition: 1 / 3B / 9 / 1 / - / 4

$D_{fan} = 1.735 \text{ m} = 68.3 \text{ in}$ $D = \text{m}$

$W_{eng} = 2119 \text{ kg} = 4672 \text{ lb}$ $= \text{in}$

Static Sea Level:

$T_{ssl} = 97860 \text{ N}$ $T_{ssl}^{AB} = \text{N}$

$= 22000 \text{ lbf}$ $= \text{lbf}$

$\text{SFC}_{ssl} = 1.02 \cdot 10^{-5} \text{ (kg/s)/N}$ $\text{SFC}_{ssl}^{AB} = \text{(kg/s)/N}$

$= 0.36 \text{ (lb/h)/lbf}$ $= \text{(lb/h)/lbf}$

$\dot{w}_{ssl} = 355.6 \text{ kg/s} = 784 \text{ lb/s}$

BPR = 6 OPR = 23.7

FPR = TET = 1560 °K

Nb of shafts = 2

$L = 2.431 \text{ m}$

$= 95.7 \text{ in}$

Cruise:

$T_{cr} = 22108 \text{ N}$

$= 4970 \text{ lbf}$

$\text{SFC}_{cr} = 1.84 \cdot 10^{-5} \text{ (kg/s)/N}$

$= 0.65 \text{ (lb/h)/lbf}$

$\dot{w}_{cr} = \text{kg/s} = \text{lb/s}$

OPR_{cr} = 30.5

$M_{cr} = 0.8, h_{cr} = 10668 \text{ m}$