

# PRODUCT SPECIFICATIONS FOR C27



<b>Maximum Power</b>	470 kW
<b>Rated Speed</b>	1800-2000 rpm
<b>Minimum Power</b>	429 kW
<b>Emissions</b>	U.S. EPA Tier 4 Final, EU Stage V
<b>Engine Configuration</b>	Inline 6, 4-Stroke-Cycle Diesel
<b>Bore</b>	145 mm
<b>Stroke</b>	183 mm
<b>Displacement</b>	18.1 l
<b>Compression Ratio</b>	16.0:1
<b>Aspiration</b>	Turbocharged Aftercooled (TA)
<b>Rotation from Flywheel End</b>	Counterclockwise
<b>Aftertreatment</b>	DOC
<b>Length</b>	2532 mm
<b>Width</b>	1241 mm
<b>Height</b>	2006 mm
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**Weight** 2650 kg

**Width** 1112 mm

**Height** 652 mm

**Weight** 268 kg

**Diameter** 330 mm

**Length** 854 mm

**Width** 287 mm

**Height** 551 mm

**Weight** 19.4 kg

**Volume Capacity** 48.4 l

## **C27 STANDARD EQUIPMENT**

### **AIR INLET SYSTEM**

Turbocharged

Air-to-Air Aftercooled

Mid-mount turbocharged system with front and rear exhaust configurations (Tier 4 Final, Stage IV)

### **CONTROL SYSTEM**

Electronic control system

Over-foam wiring harness

Automatic altitude compensation

Power compensated for fuel temperature

Remote fan control

Configurable software features

Engine monitoring system SAE J1939 broadcast and control

Integrated Electronic Control Unit (ECU)

### **COOLING SYSTEM**

Thermostats and housing, vertical outlet

Centrifugal water pump

Guidance on cooling system design available through your dealer to ensure equipment reliability

### **FLYWHEELS AND FLYWHEEL HOUSING**

Choice of SAE No. 0 or SAE No. 1 flywheel housing

Available SAE No. 1 power take off with optional SAE A, SAE B or SAE C power take off drives. Engine power can also be taken from the front of the engine with optional attachments. (Tier 4 Final, Stage IV).

### **FUEL SYSTEM**

MEUI injection

Primary fuel filter

Secondary fuel filters

Fuel transfer pump

Electronic fuel priming

### **LUBE SYSTEM**

Open crankcase ventilation system

Oil cooler

Oil filler

Lube oil filter

Oil dipstick

Gear driven oil pump

Choice of front, rear or center sumps

Open crankcase ventilation system with fumes disposal (optional OCV filter system) (Tier 4 Final, Stage IV)

### **POWER TAKE OFF (PTO)**

## **POWER TAKE OFF (PTO)**

SAE A, SAE B or SAE C power take off (PTO) drives. Engine power can also be taken from the front of the engine on some applications.

## **GENERAL**

Paint: Caterpillar yellow, with optional colors available at request

## **U.S. EPA TIER 4 FINAL, EU STAGE IV AFTERTREATMENT/ CLEAN EMISSIONS CONTROL EQUIPMENT**

Cat Regeneration System

Aftertreatment information applies to ratings from 429-522 bkW (575-700 bhp)

Clean Emissions Module (CEM), consisting of Diesel Particulate Filter (DPF) and Diesel Oxidation Catalyst (DOC)

Aftertreatment Electronic Control Unit (ECU)

NOx Reduction System (NRS)

Pump Electronic Control Unit (PETU)

Selective Catalytic Reduction (SCR)

Available in 12V or 24V systems

