**VT - Engine Data**

- **Model**: JCB Ecomax 444 Stage 3b
- **Cubic capacity**: 4.4 litres
- **No. of cylinders**: 4
- **Gross rated power**: 55 kW @ 2200 rpm
- **Maximum torque**: 400 Nm @ 1250 r/min
- **Legislation compliance**: NRMM Stage 3b EC directive 97/68EC

**VS - Gearbox Data**

- **Transmission pump**: 55 cc/rev. variable output
- **Pump pressure**: 420 bar forward (350 bar reverse)
- **Transmission motor**: 160 cc/rev variable
- **Work input speed**: Up to 1700 rpm
- **Fan pump**: 57 cc/rev variable output
- **Fan pump input speed**: Up to 2400 rpm @ 1600 rpm engine
- **Fan pump pressure**: ≤ 240 bar
- **Fan motor**: 40 cc/rev (bent axis)

**VM – Fan Pump Data**

- **Fan pump**: 135 cc/rev variable output
- **Fan pump input speed**: Up to 2000 rpm (PTO dependent)
- **Fan pump pressure**: 210 bar
- **Fan motor**: 40 cc/rev (bent axis)

**Capacities**

- **Hopper voided volume**: 6.5 m³ nominal
- **Payload voided volume**: 5.56 m³ nominal
- **Payload capacity**: 6 Tonnes (chassis dependent)
- **Fuel tank**: Up to 190 litres
- **Water tank**: 1554 litres
- **Hydraulic system**: VT: 61 litres - VS/VM: 75 litres

**Sweeping Equipment**

- **Channel brush (CB)**: Ø 500 mm (Ø 650 - 710 mm Option)
- **Wide sweep brush (WSB)**: Ø 406 mm
- **Nozzle trunking diameter**: Ø 250 mm
- **Nozzle width**: 750 mm

**General Data**

- **Chassis requirement**: 13-15 Tonnes
- **Wheelbase**: 3150 mm nominal
- **Discharge height**: 950 mm (nom) chassis dependent
- **Discharge angle**: 54° nominal
- **Door opening angle**: 125° nominal
- **Dust spray pump output**: Up to 350l/min
- **Dust spray water pressure**: 3.5 bar
- **VS Hydrostatic Transit**: 0 – 40 km/h (chassis dependent)
- **VS Hydrostatic Workmode**: 0 – 18 km/h
Technical Specification

**Performance data**

**Exhauster fan:**
Operational speed variable between 2400 rpm - 3500 rpm to suit operation.
VT: Step-up gearbox ratio: 1.79:1

**Channel brush:**
Quick release brush system with infinitely variable speed up to 160rpm (cab controlled).

**Nozzle:**
Cast aluminium nozzle with 250mm diameter inlet and tool free adjustment.

**Wide sweep brush:**
Quick release brush system with a nominal 160rpm rotation speed.

**Dust suppression system:**
Dust suppression sprays located at suction nozzle(s), channel brush(es) and across front of vehicle.
Pressadrain water purging system.

**Electrical system:**
24 volt.
All external loom connections are full automatic IP67 rated.

**Controls:**
Centre cab mounted master control panel with Johnston Video Monitor (JVM) providing information on a wide range of sweeper functions plus data capture download. Up to four optional cameras can also be viewed on the JVM screen. Separate palm rest controller for main sweeping functions is mounted on the door side.

**In cab noise:**
<75 dB(A) generally (dependent on chassis selection).

**Exterior noise / Sound power level:**
$L_{WA}$ 110 dB(A) for standard power engines measured in accordance with EC directive 2000/14/EC.
$L_{WA}$ 112 dB(A) for high power engines measured in accordance with EC directive 2000/14/EC.

**Body & Cowl**
Cowling is lined with frequency matched soundproofing material.
Water tank incorporates anti-surge baffles and filled via a type ‘A’ water hydrant fill.
Water tight twin lock rear door latching system with de-watering function. Two body side access doors.

Plug in hopper floor as transfer port for use as Streetwasher.
Rear discharge chute, twin rear caged beacons, automatic multi position body propping mechanism and side storage lockers are standard features.

**Optional equipment**
- JCB Dieselmax 444 NRMM Stage 3a. Gross power 85kW @ 2200 rpm. Max torque 440 Nm @ 1300 rpm.
- JCB Ecomax 444 NRMM Stage 4. Gross power 93kW @ 2200 rpm. Max torque 550Nm @ 1500 rpm.
- Camera monitoring systems.
- Littasnatch.
- Microtrap dust suppression system.
- Powasave/thrust.
- Pneumatic mesh shakers.
- Powascrub - wide sweep brush ground pressure device.
- Supawash - High pressure washing system (32 l/min @ 100 bar), o/w Hand lance, reel, 15m hose. Also available with front and nozzle spraybars.
- Wanderhose (6” or 8”) top mounted also available with power assist option.
- Water Recirculation.
- Telematics CAN Gateway.

A comprehensive range of additional options is available. Please ask for details.