



VS650 Specification Sheet



Series VS650

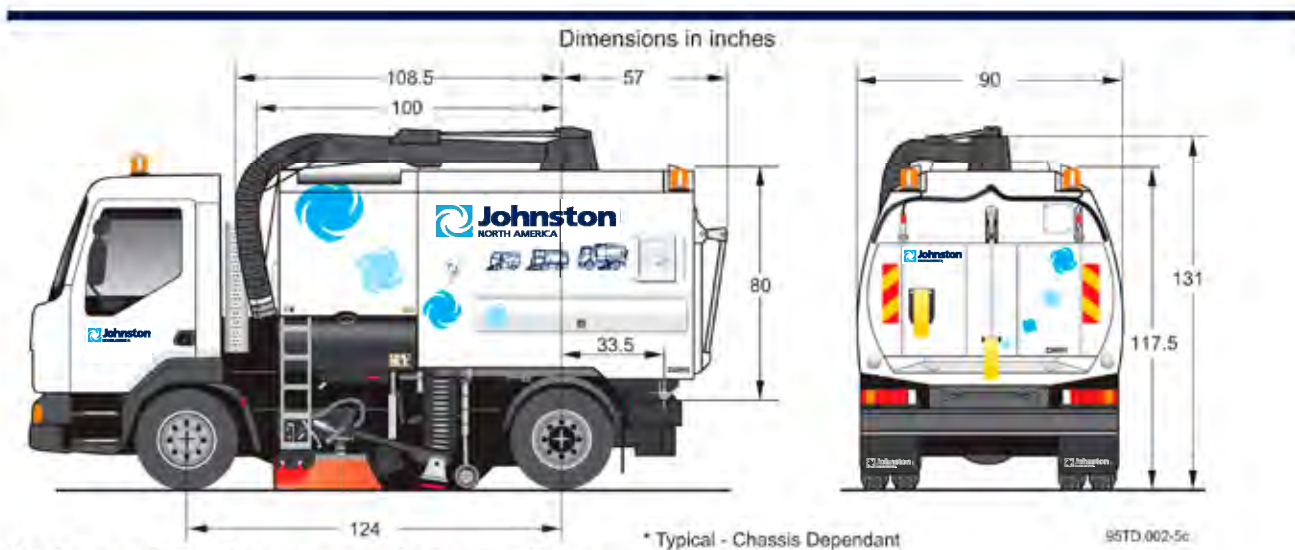
Subject Technical Information and Data

Sheet 1 of 1

Issue Number:

Date: 8/14/12

Reference:



Data and Performance Information

Capacities	
Hopper voided volume	8.5 yds ³ nominal
Payload voided volume	7.5 yds ³ nominal
Payload capacity	6 Tons (chassis dependent)
Fuel tank	50 gallons
Water tank	343.5 gallons

Hydraulic gearbox Data	
Propulsion pump	55 cc/rev. variable output
Pump pressure	6090 psi forward (5075 psi reverse)
Propulsion motor	110 or 160 cc/rev variable *
Work input speed	Up to 1700rpm
Input ratio	49:34
Output ratio	64:19
Hydraulic suction filtration	125 micron
Boost canister filtration	10-20 micron absolute
Oil cooler fan speed	2150rpm @ 1600rpm engine

Fan Pump/Motor Data	
Pump	57 cc/rev variable output
Input speed	Up to 2300rpm @ 1600rpm engine
Pressure	2102-2537.5 psi
Motor	40 cc/rev (bent axis)

Sweeping Equipment	
Channel brush (CB)	∅ 28 in
Wide sweep brush (WSB)	16 in
CB life expectancy	80 accumulated working hours (nom)
WSB life expectancy	150 accumulated working hours (nom)
Nozzle trunking diameter	10 in
Nozzle width	29.5 in

General Data	
Chassis requirement	33,000 lbs GVWR
Wheelbase	178" (M2), 204" (CNG)
Dump height	39 in (nom) chassis dependent
Dump angle	54° nominal
Door opening angle	125° nominal
Filter mesh area	11.3 ft ²
Dust spray pump output	up to 9.2 gallons/min
Dust spray water pressure	43.5 - 72.5 psi
Hydraulic suction filtration	125 micron
Hydraulic return filtration	25 micron
Hydraulic pump displacement	14.0 cc/rev. max output 7.9 gallons
Sweeping speeds	1-10 mph (Chassis Dependent)

Due to continuous product development Johnston Sweepers reserves the right to alter specifications without prior notice.

Johnston North America Inc.
 606 A/B Performance Road, Mooreville, NC 28115
 Tel: 704-658-1333 Fax: 704 658-1377
 johnstonnorthamerica.com Email: info@johnstonnorthamerica.com



VS650 Specification



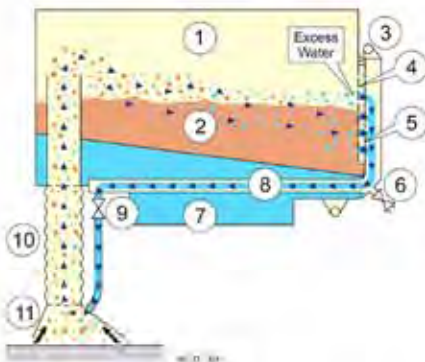
Technical Specification

Hydrodrive gearbox configuration

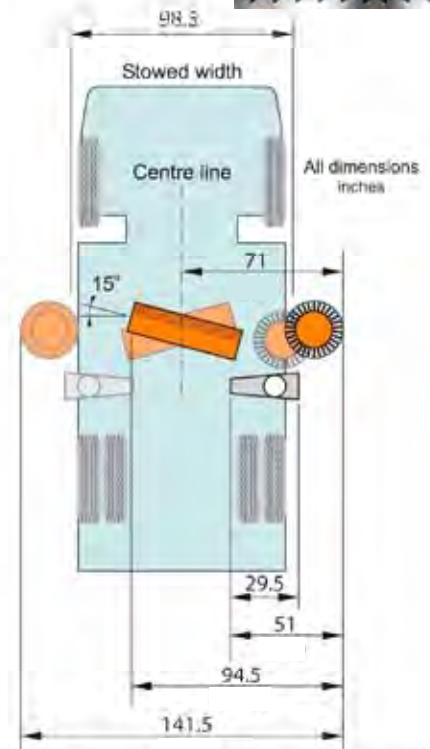


- 1 Hydrodrive gearbox
- 2 Vehicle propulsion pump
- 3 Vehicle propulsion motor
- 4 Exhauster fan pump
- 5 Sweeping function pump (SF)
- 6 Additional/optional equipment pump (AOP)

Illustration of water re-circulation system



- 1 Body and water tank
- 2 Payload
- 3 Rear door
- 4 Primary filter panel
- 5 Wedge wire filter panels
- 6 De-watering drain-off valve
- 7 Clean water tank
- 8 Transfer duct
- 9 Re-circulation control valve
- 10 Suction duct
- 11 Suction nozzle



Simultaneous channel brush option STD. 004-5

* If Q500 brushes specified, use dimensions in (brackets),

Base specification

Performance data

Exhauster fan:

Heavy duty, dynamically balanced impeller with multivane corrosion resistant blades. Operational speed variable between 2400 rpm - 3500rpm to suit operation. Driven from Johnston gearbox and pump unit combination.

Channel brush:

Quick release brush system with variable speed up to 200rpm (cab controlled).

Nozzle:

Low noise suction system with 250mm diameter inlet, tool free adjustment.

Wide sweep brush:

Quick release brush system with a nominal 160 rpm 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:

All external loom connections are full automotive IP67 rated.

Controls:

Cab mounted master control panel housing sweep controls condition status indicator lamps, including:

- = Raised hopper warning
- = Low level lost water
- = Low level hydraulic oil indicator

In cab noise:

<68 dB(A) generally (dependent on chassis selection).

Sound power level:

L_{WA} 110 dB(A) (dependent on chassis) measured in accordance with EC directive 2000/14/EC.

Body

Comprises of hopper, integral water tank and cowl. Fabricated from heavy duty stainless steel plate.

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 (with manual retract).

Optional equipment

- Camera monitoring system.
- Microtrap dust suppression system.
- Powaltrus/Powasave.
- Pneumatic mesh shakers.
- Powascrub - wide sweep brush ground pressure device.
- Rotatilt.
- Simultaneous sweep (both channel brushes operating at same time).
- Supawash - high pressure washing system 8.5 gal/min @ 1460 PSI Hand lance, hose reel, front and nozzle spraybars.
- Variabrush - variable channel brush positioning system.
- Water recirculation.
- Wanderhose/Littasnatch.

Due to continuous product development Johnston Sweepers reserves the right to alter specifications without prior notice.

Johnston North America Inc.

606 A/B Performance Road, Mooreville, NC 28115

Tel: 704-658-1333 Fax: 704 658-1377

johnstonnorthamerica.com Email: info@johnstonnorthamerica.com

