





GENERAL SPECIFICATIONS

MODEL DST-4® REGENERATIVE AIR SWEEPER® FINAL TIER 4 AUXILIARY ENGINE/CABOVER CHASSIS

SWEEPER AUXILIARY ENGINE

Engine Kubota V2403-CR-TE4B, 4 cyl. (Final Tier 4)

Net torque 140 lb-ft (190 Nm) @ 2100 RPM Air cleaner Heavy duty, w/pre-cleaner, and in-cab air restriction indicator w/gauge. Oil filter Spin on, full flow

CoolingLiquid Diesel fuel supplied from chassis fuel tank Fuel tank capacity...... 30 gal (113 L) Auxiliary engine protection system

Fuel/water separator

BLOWER, RUBBER LINED

Aluminum alloy, high volume, open face turbine PurposeCreates air blast and suction BearingsAnti-friction HousingAbrasion resistant, replaceable liner

DriveHeavy duty power band

DUST SEPARATOR, RUBBER LINED

- Type Cyclonic, multipass, centrifugal separation
- Cylindrical area......20 x 22.5 in (508 x 1549 mm)
- Location Adjacent to hopper Particulate removal achieved through 22.5 in
- (572 mm) skimmer slot into skimmer hood Inspection/cleanout port w/extended plug handle

HOPPER

Dump door opening......77.25 x 70 in (1962 x 1778 mm) Dumping methodHydraulic with tilt up

Dump clearance height...... 154 in (3912 mm) Dump door hydraulically opened/closed

Hopper screen lifts with door for easy cleaning Hopper deluge

Abrasion protection package

Hopper drip edge extension

PICK-UP HEAD

Type Dual chamber FunctionDelivers air blast and suction Suction hose diameter..... 12 in (305 mm) Pressure hose diameter 12 in (305 mm) Reverse pick-up head system

HYDRAULIC SYSTEM

Operates gutter brooms, dump door and pick-up head

Drive Gear driven from auxiliary engine Capacity...... 5 GPM (18.925 LPM)

Reservoir 13.5 gal (51.1 L) with 80 mesh suction strainer, sight/temperature gauge, oil
cooler Filter10 µm in-line

Filter	10 µm in-line
Hydraulic oil	Extended life
Auxiliary hydraulic system	

GUTTER BROOMS, TWIN, Patented

Standard equipment includes floodlight and parabolic mirror

- Drive Constant speed non-reversible hydraulic motor
- Adjustment.....Adjustable for down pressure, pattern and wear
- Down pressure Automatically adjusts to requirement
- Flexibility...... All directions, Integral anti-damage "swing away" relief valve Broom Steel wire vertical digger 36 in (914 mm)
- Variable speed control
- Hydraulic tiltTwin gutter brooms adjust for curb depth

DUST CONTROL SYSTEM

Water spray nozzles for dust suppression PumpElectric diaphragm Reservoirs Polyethylene, 77 gal (291.5 L), total Low water shut-off Safety shut-off with low water warning light in cab Spray nozzles At gutter brooms and inside hopper Fire hydrant and garden hose connections High output water system

DUSTLESS FILTRATION SYSTEM

An external mounted modular filtration system with automatic BlueLogic® control adjustment Capacity (volumetric)......14 ft³ (0.40 m³) Long life filters, not affected by wet sweeping conditions. Filters cleaned by intermittent air pulse

Air compressorBelt driven, liquid cooled, engine lubricated

Shop air connection

Dust box deluge washout system

CONTROL SYSTEM

BlueLogic[®] Control System Multiplexed electrical system includes hardware and TYMCO designed software that integrates the in-cab controls to the auxiliary engine and all sweeper functions; as well as provides intelligent safety features and on-board diagnostics (OBD) for the auxiliary engine and sweeper through the BlueLogic display.

BlueLogic Display

Pedestal mounted touchscreen display provides sweeper and auxiliary engine data to the operator and includes hour meters (trip and total) for the auxiliary engine, gutter brooms, pick-up head, blower, and water pump; sweeper odometer (records curb miles swept and sweeping hours), service reminders, custom reminders, overspeed warning, low water audible alarm, dust control system winterization guide, and OBD.

Interior Components

BlueLogic display, illuminated control switches: pick-up head, gutter brooms, auxiliary engine RPM, DST mode, purge system, dust control water system nozzles, safety lights

Exterior Components

Dump switch, BlueLogic multiplex modules

SAFETY/WARNING DEVICES

Alternating LED rear flashers (2) Back-up alarm Hopper safety prop

OPTIONAL EQUIPMENT

Auto Sweep Interrupt (ASI)

- Auxiliary fuse panel
- Auxiliary hand hose 6 in dia. (152 mm) Cabover dual steering
- Camera/monitor system
- Gutter broom drop-down
- Hi/Low pressure washdown system
- Light bar, cab mounted, LED
 - Low emissions package (required for South Coast AQMD Rule 1186, not applicable with high output water system)
- Magnet, front bumper mounted, light duty
- Pick-up head curtain lifter
- Shop air purge, dust control system
- Stainless steel options:
- Hopper & dust box:
- Hopper weldment
- Dust box
- Hopper door
- Skimmer hood assembly
- Hopper screen assembly
- Inspection door
- Suction inlet tube Blower housing
- Dust box
- Dust separator
- Hopper inspection door
- Hopper screen
- Auxiliary hand hose hardware
- Paint color (other than TYMCO standard white)

Special options are available for your individual requirements. Contact your local dealer or TYMCO.

CHASSIS AVAILABLE Isuzu NQR

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