



**DST-4**<sup>®</sup>  
Dustless Sweeping Technology

**GENERAL SPECIFICATIONS**



**MODEL DST-4<sup>®</sup> REGENERATIVE AIR SWEEPER<sup>®</sup>**  
**TIER 4 INTERIM AUXILIARY ENGINE/CABOVER CHASSIS**

**SWEEPER AUXILIARY ENGINE**

Engine ..... Kubota V2403-M-T, 4 cyl. (Tier 4i)  
Fuel..... Diesel  
Displacement..... 148.5 in<sup>3</sup> (2.4 L)  
Power..... 56 hp (41.7 kW) @ 2600 RPM  
Net torque..... 121 lb-ft (164 Nm) @ 1800 RPM  
Air cleaner ..... Heavy duty, w/pre-cleaner  
Oil filter ..... Spin on, full flow  
Cooling ..... Liquid  
Fuel supplied from chassis fuel tank  
Auxiliary engine shutdown system  
Fuel/water separator

**BLOWER, RUBBER LINED**

Aluminum alloy, high volume, open face turbine  
Purpose ..... Creates air blast and suction  
Bearings ..... Anti-friction  
Housing ..... Abrasion resistant, replaceable liner  
Drive ..... Heavy 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**

Capacity (volumetric)..... 4.0 yd<sup>3</sup> (3.06 m<sup>3</sup>)  
Capacity (useable)..... 3.1 yd<sup>3</sup> (2.37 m<sup>3</sup>)  
Construction ..... Welded steel plate  
Dump door..... 74 x 81.25 in (1880 x 2064 mm)  
Dumping method .....Hydraulic with tilt up  
Dumping height ..... 72 in (1829 mm)  
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  
Function .....Delivers air blast and suction  
Width (inside dimension) ..... 78 in (1981 mm)  
Pick-up head area ..... 2028 in<sup>2</sup> (1.31 m<sup>2</sup>)  
Suspension.....4 springs, 2 drag links  
Skids.....DUO-SKID<sup>®</sup>, long life carbide  
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  
Filter..... 10 µm in-line  
Hydraulic oil .....Extended life  
Auxiliary hydraulic system

**GUTTER BROOMS, DUAL, 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

**DUST CONTROL SYSTEM**

Water spray nozzles for dust suppression  
Pump .....Electric diaphragm  
Reservoir ..... Polyethylene, 75 gal (283.9 L)  
Filter..... 80 mesh in-line  
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  
Air purge system  
Hydrant fill hose.....20 ft (6 m)  
High output water system

**DUSTLESS FILTRATION SYSTEM**

An external mounted modular filtration system with automatic BlueLogic<sup>®</sup> control adjustment  
Capacity (volumetric)..... 14 ft<sup>3</sup> (0.40 m<sup>3</sup>)  
Filters..... (4) 0.5 µm  
Particulate removal efficiency ..... 99.999%  
Long life filters, not affected by wet sweeping conditions.  
Filters cleaned by intermittent air pulse  
Air compressor .....Belt driven, liquid cooled, engine lubricated  
Compression rate ..... 13.2 CFM (0.37 m<sup>3</sup>/minute) @ 1200 RPM  
Shop air connection  
Dust box deluge washout system

**CONTROLS**

**Inside cab** (lighted)  
Pick-up head, gutter broom(s), ignition and tachometer (auxiliary engine), voltmeter, low water warning system (for dust control system), all safety lights, hour meter  
**Outside cab** ..... Dump

**SAFETY/WARNING DEVICES**

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

**OPTIONAL EQUIPMENT**

Auto Sweep Interrupt  
Auxiliary fuse panel  
Auxiliary hand hose 6 in dia. (152 mm)  
Cabover dual steering  
Camera/monitor system  
Gutter broom tilt adjuster(s) (right, left, or dual)  
Gutter broom drop-down  
Hi/Low pressure washdown system  
Light bar, cab mounted, halogen or 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  
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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