



DST-4[®]
Dustless Sweeping Technology

GENERAL SPECIFICATIONS



MODEL DST-4[®] REGENERATIVE AIR SWEEPER[®]
TIER 4 INTERIM AUXILIARY ENGINE/CABOVER CHASSIS

SWEEPER AUXILIARY ENGINE

Engine Kubota V2403-M-T, 4 cyl. (Tier 4i)
Displacement..... 148.5 in³ (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
Diesel fuel supplied from chassis fuel tank
Fuel tank capacity..... 30 gal (113 L)
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 yd³ (3.06 m³)
Capacity (useable)..... 3.1 yd³ (2.37 m³)
Construction Welded steel plate
Dump door opening 77.25 x 70 in (1962 x 1778 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 in² (1.31 m²)
Suspension..... 4 springs, 2 drag links
Skids..... DUO-SKID[®], 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, 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 tilt Twin gutter brooms adjust for curb depth

DUST CONTROL SYSTEM

Water spray nozzles for dust suppression
Pump Electric diaphragm
Reservoirs Polyethylene, 77 gal (291.5 L), total
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[®] control adjustment
Capacity (volumetric)..... 14 ft³ (0.40 m³)
Filters..... (4) MERV 16 Rated
Particulate removal efficiency ≥ 95% of 0.3 µm
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 m³/minute) @ 1200 RPM
Shop air connection
Dust box deluge washout system

CONTROL SYSTEM

Interior Components

Illuminated controls: pick-up head, gutter brooms, ignition and tachometer (auxiliary engine), voltmeter, low water warning system (for dust control system), all safety lights, hour meter, DST mode, purge system

Exterior Components

Dump switch, BlueLogic multiplex module

SAFETY/WARNING DEVICES

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

OPTIONAL EQUIPMENT

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
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

