**SWEeper AUXILLAry ENGINE**

Engine ................................. John Deere 4045 turbo FT4, 4 cyl.
Displacement .............................. 275 in³ (4.5 L)
Power ................................. 99 HP @ 2200 RPM (74 kW)
Net torque ......................... 315 lb-ft @ 1600 RPM (427 Nm)
Air cleaner .............................. Heavy duty, w/pre-cleaner, scavenger vacuum hose, and in-cab air restriction indicator w/gauge.
Remote oil filter............... Spin on, full flow

**BLOWER, RUBBER LINED**

Aluminum alloy, high volume, open face turbine
Purpose ...................... Creates blast and suction
Bearings ......................... (2) sealed lifetime lube, anti-friction
Bolt-on housing ................. Steel w/abrasion resistant, replaceable liner
Drive ........................ Heavy duty power band

**Dust sePARAtor, HIGH CAPACitY**

Type ................................. Cyclonic, multipass, centrifugal separation
Size ................................. 20 x 61 in cylindrical area (508 x 1549 mm)
Located adjacent to blower within hopper
Particulate removal achieved through 61 in (1549 mm) skimmer slot into skimmer hood
Hinged inspection door opened from hopper exterior
Abrasive resistant housing w/replaceable wear resistant liner

**Hopper**

Capacity (volumetric) ................. 7.3 yd³ (5.6 m³)
Capacity (useable) ......................... 6 yd³ (4.6 m³)
Construction ......................... Welded steel plate with integral stiffeners
Floor angle ................................. 22°
Dump door opening ......................... 84 x 44 in (2134 x 1118 mm)
Dumping method .......... Hydraulic with raker bar
Dumping height ......................... 36 in (914 mm)
Aux engine fuel capacity .............. 25 gal (94.6 L)

**Gutter broOM, TWIN, Patented**

Standard equipment, includes floodlights and parabolic mirrors
Drive ................................. Variable speed non-reversible hydraulic motor
Adjustment ......................... Adjustable for down pressure
Down pressure ......................... Automatically adjusts to requirement
Flexibility ......................... All directions, integral anti-damage "swing away" relief valve
Broom #37-97 .. 43 in dia. (1.1 m) steel wire, vertical diggers
Hydraulic tilt ......................... Twin gutter brooms adjust for curb depth

**Hydraulic system**

Operates gutter broom(s), dump and pick-up head
Drive ............................ Gear driven from auxiliary engine
Flow rate ......................... 8 GPM (30.3 LPM)
Pressure ......................... 25 gal (94.6 L)
Spray nozzles with 80 mesh suction strainer, sight/temperature gauge, cooler
Filter ......................... 3 micron in-line

**Dust control system**

Water spray nozzles for dust suppression
Filter ......................... 3 micron in-line

**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
Filter 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 connections .............. 1
Pick-up head deluge 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. Specific to the DST-6, BlueLogic also monitors and automatically controls the adjustments for the DST system, requiring no operator adjustments.

**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, water pump, BAH broom if applicable, and DST filters; sweeper odometer (records curb miles swept along designated hours), service reminders, custom reminders, overspeed warning, low water audible alarm, dust control system winterization guide, and OBD.

**Interior Components**

BlueLogic display, auxiliary fuse panel, illuminated control switches: Pick-up head, gutter brooms, auxiliary engine RPM, DST mode, purge system, variable speed gutter brooms, dust control water system nozzles, auxiliary lights

**Exterior Components**

Dust box, BlueLogic multiplex modules

**SAFETY/WARNING DEVICES**

Alternating LED rear flashers (2)
Back-up alarm
SAE Class 1/California Title 13 amber beacon light with limb guard - LED

**OPTIONAL EQUIPMENT**

AOD water pump w/washdown hose/spray gun
Auto Sweep Interrupt (ASI)
Auxiliary hand hose 8 in dia. (203 mm)
Auxiliary hand held hydraulic boom assist
Camera/monitor system
Gutter broom drop-down
Hi/Low pressure washdown system
Hopper drain system
Magnet (various options available)

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

**Chassis**

Peterbilt 220
International MV607
Freightliner M2-106

**South Coast AQMD Rule 1186 PM10 Certified, GLOBE Verified ISO 14034 ETV**

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