



**435**<sup>®</sup>  
AIR SWEEPER

**GENERAL SPECIFICATIONS**



**MODEL 435<sup>®</sup> REGENERATIVE AIR SWEEPER<sup>®</sup>**  
**TIER 4 INTERIM AUXILIARY ENGINE/CONVENTIONAL CAB CHASSIS**

**SWEEPER AUXILIARY ENGINE**

Engine ..... Kubota V2403-M-T, 4 cyl. (Tier 4i)  
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  
Diesel auxiliary engine fuel tank shared with chassis engine  
Fuel tank capacity..... 52 gal (197 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 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 opening..... 77.25 x 70 in (1962 x 1778 mm)  
Dumping method ..... Hydraulic with tilt up  
Dumping height ..... 82.5 in (2095 mm)  
Dump clearance height..... 165.5 in (4204 mm)  
Dump door hydraulically opened/closed  
Hopper screen lifts with door for easy cleaning  
Abrasion protection package  
Hopper drip edge extension

**STORAGE COMPARTMENTS**

Rear (2) ..... Total of 26.6 ft<sup>3</sup> (.075 m<sup>3</sup>) capacity  
Front storage compartment not available

**PICK-UP HEAD**

Type ..... Dual chamber  
Function ..... Delivers air blast and suction  
Width (inside dimension) ..... 78 in (1981 mm)  
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)  
Pressure bleeder ..... Integral for leaf/light material pickup  
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) w/80 mesh suction strainer, sight/temperature gauge  
Filter..... 10 micron in-line  
Hydraulic oil ..... Extended life

**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)

**DUST CONTROL SYSTEM**

Water spray nozzles for dust suppression  
Pump ..... Electric diaphragm  
Reservoir ..... Polyethylene, 150 gal (567.7 L)  
Filter..... 80 mesh in-line  
Low water shut-off ..... Safety shut-off with low water warning light in cab  
Spray nozzles ..... At gutter broom(s) and inside hopper  
Fire hydrant and garden hose connections  
Hydrant fill hose w/storage area..... 20 ft (6 m)

**CONTROL SYSTEM**

**Interior Components**

Leaf pressure bleeder control, auxiliary fuse panel, illuminated control switches: pick-up head, gutter brooms, ignition and tachometer (auxiliary engine), voltmeter, low water warning system (for dust control system), all safety lights, hour meter

**Exterior Component**

Dump switch

**SAFETY/WARNING DEVICES**

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

**OPTIONAL EQUIPMENT**

Air purge, dust control system  
Auto Sweep Interrupt (ASI)  
Auxiliary hand hose 6 in dia. (152 mm)  
Auxiliary hydraulic system  
Camera/monitor system  
Gutter broom tilt adjuster(s) (left, right, or twin)  
Gutter broom variable speed  
Gutter broom drop-down  
High output water system  
Hi/Low pressure washdown system  
Hopper drain system  
Hopper deluge system  
Light bar, cab mounted, LED  
Linear actuator - pressure bleeder with gauge  
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  
Sound Reduction Engineering (SRE<sup>®</sup>)  
Stainless steel options:  
Hopper:  
Hopper weldment  
Hopper door  
Hopper screen  
Inspection door  
Skimmer hood  
Suction inlet tube  
Blower housing  
Dust separator  
Hopper drain  
Hopper inspection door  
Hopper screen  
Auxiliary hand hose hardware  
Washdown hose reel, 50 ft (15 m) retractable  
Paint color (other than TYMCO standard white)

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

**CONVENTIONAL CAB CHASSIS AVAILABLE**

Freightliner M2-106