







MODEL 435® MID-SIZE REGENERATIVE® AIR SWEEPER DIESEL AUXILIARY ENGINE / DIESEL CONVENTIONAL CAB CHASSIS

SWEEPER AUXILIARY ENGINE	
Engine Kubota V2403-CR-TE4B FT4, 4 c	۷l.
Displacement	Ĺ)
Power 56 hp (41.7 kW) @ 2100 RP	·Μ
Net torque 140 lb-ft (190 Nm) @ 2100 RP	М
Air cleanerHeavy duty, w/pre-clean	
Oil filterSpin on, full flo	
CoolingLiqu	
Diesel auxiliary engine fuel tank shared with	
chassis engine	
Fuel tank capacity52 gal (197	L)
Auxiliary engine protection system ``	,
Fuel/water separator with WIF sensor	
Fuel filters 10 µm primary, 5 µm seconda	ry
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BLOWER, RUBBER COATED	

Aluminum alloy, high turbine	volume, open face
Bearings	(2) Anti-friction
Housing	Steel w/abrasion resistant,
	Heavy duty power band

DIIST SEPARATOR DURRED LINED

DUSI SEFARATUR, RUBBER LINED
TypeCyclonic, multipass,
centrifugal separation
Cylindrical area20 x 22.5 in
(51 x 57 cm)
Location Adjacent to hopper
Particulate removal achieved through 22.5 in
(57 cm) skimmer slot into skimmer hood
Inspection/cleanout port

HUDDED

NUPPEK	
Capacity (volumetric)4.0 yd3 (3.06 m	
Capacity (useable)3.1 yd³ (2.37 m	3
Construction Welded steel pla	
Dump door opening77.25 x 70	in
(196 x 178 cm)	
Inspection door	эŗ
8.5 x 8.5 in (21.5 x 21.5 cn	n)
Dump methodHydraulic t	
Dump directionRea	
Dump floor angle3	
Dump height 82.5 in (209.5 cn	
Dump clearance height165.5 in (420 cm	۱)
Dump door hydraulically opened/closed	
Hopper screen lifts with door for easy cleaning	g
Abrasion protection package	

STORAGE COMPARTMENTS

Rear (2) 13.3 ft3 (0.38 m3) (ea.) capacity Front storage compartment not available

DICK LID HEAD

PICK-UP HEAD	
Type	Dual chamber
Width (inside dimension)	78 in (198 cm)
Pick-up head area	
Suspension(4)	
SkidsDUÒ-Ś	
Suction hose diameter	
Pressure hose diameter.	
Pressure bleeder	

Removeable suction tube Reverse pick-up head system

GUTTER BROOMS, TWIN, Patented

DriveOurstant speed	1
non-reversible hydraulic motor	
AdjustmentAdjustable for	
down pressure, pattern and wear	
Down pressureAutomatic	;
FlexibilityIntegral	
anti-damage "swing away" relief valve	
BroomSteel wire vertical digger	-
43 in dia. (109 cm)	
Floodlights(2) LED)
Parabolic mirrors(2) 10.5 in (26.67 cm) dia.	

Constant speed

HYDRAULIC SYSTEM

	brooms, dump door and
pick-up head	
	ear driven from auxiliary engine
Flow rate	5 GPM (18.925 LPM)
Reservoir	13.5 gal (51.1 L) w/80 mesń
suction straine	er, sight/temperature gauge, oil
cooler	
Filtor	10 um in line

Filter	10 µm in-line
Hydraulic oil	Extended life 10W ISO 46
Cooler	Air to oil

DUST CONTROL SYSTEM

Water spray nozzles for dust suppression
Pump Electric diaphragm
Reservoir Polyethylene, 150 gal (567.7 L)
Filter80 mesh in-line
Low water shut-offSafety shut-off
with audible and visual indicator in cab
Spray nozzles At gutter brooms
and inside hopper
Fire hydrant hose connection
Hydrant fill hose w/storage area20 ft (6 m)
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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 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

Pressure bleeder control, BlueLogic display, auxiliary fuse panel, illuminated control switches: pick-up head, gutter brooms, auxiliary engine RPM, dust control water system nozzles, safety lights

Exterior Components

Dump switch, BlueLogic Control Module (BCM)

SAFETY/WARNING DEVICES

Alternating LED rear flashers (2) Rear view camera system Back-up alarm Hopper safety prop

OPTIONAL EQUIPMENT

Auto Sweep Interrupt (ASI) Auxiliary hand hose 6 in (15 cm) dia. Auxiliary hydraulic system Camera/monitor systems: Additional camera views: Pick-up head view Gutter broom view - left and/or right CurbView camera system

Gutter broom tilt adjuster(s) (left, right, or twin) Gutter broom variable speed Gutter broom drop-down High output water system Hi/Low 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)

Magnet: Light or standard duty Pick-up head curtain lifter Shop air purge, dust control system Sound Reduction Engineering (SRE®) Stainless steel (non-magnetic) 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

Paint color (other than TYMCO standard white)

Special options are available. Contact your local dealer or TYMCO.

CONVENTIONAL CAB CHASSIS AVAILABLE

Freightliner M2-106