



Constant speed



# MODEL 435® MID-SIZE REGENERATIVE® AIR SWEEPER

# DIESEL AUXILIARY ENGINE / DIESEL CABOVER CHASSIS

SWEEPER AUXILIARY ENGINE
Engine Kubota V2403-CR-TE4B FT4, 4 cyl.
Displacement
Power 56 hp (41.7 kW) @ 2100 RPM
Net torque 140 lb-ft (190 Nm) @ 2100 RPM
Air cleanerHeavy duty, w/pre-cleaner
Oil filter Spin on, full flow
CoolingLiquid
Diesel fuel supplied from chassis fuel tank
Fuel tank capacity30 gal (113 L)
Auxiliary engine protection system
Fuel/water separator with WIF sensor
Fuel filters 10 µm primary, 5 µm secondary

# **BLOWER. RUBBER COATED**

Aluminum alloy, high	
turbine Rearings	(2) Anti-friction
Housing	(2) Anti-friction Steel w/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
(51 x 57 cm)	
Location	Adjacent to hopper
Particulate removal achie	eved through 22.5 in
(57 cm) skimmer slot ir	ito skimmer hood
Inspection/cleanout port	

## **HOPPER**

1101 1 211	
Capacity (volumetric)4.0 yd3 (3.06 m3	3)
Capacity (useable)3.1 yd3 (2.37 m3	3)
ConstructionWelded steel plat	ė
Dump door opening77.25 x 70 i (196 x 178 cm)	n
Insection door(1) Right side of hoppe	r
8.5 x 8.5 in (21.5 x 21.5 cm	וי ו)
Dump methodHydraulic ti	Ιt
Dump directionRea	ar
Dump floor angle37	0
Dump height 74 in (188 cm	1)
Dump clearance height157 in (399 cm	)
Dump door hydraulically opened/closed	•
Hopper screen lifts with door for easy cleaning Abrasion protection package	j
1 1 3	

#### STORAGE COMPARTMENTS

Front		.55 ft³ (1	.5 m³)	) capacity
Rear (2	) 13.3 ft <sup>3</sup>	(0.38 m <sup>3</sup>	) (ea.)	) capacity

## DIAK UD UEAD

PICK-UP HEAD
TypeDual chamber
Width (inside dimension) 78 in (198 cm)
Pick-up head area2028 in <sup>2</sup> (1.31 m <sup>2</sup> )
Suspension 4 springs, 2 drag links
SkidsDUO-SKID®, long life carbide
Suction hose diameter 12 in (30.5 cm)
Pressure hose diameter 12 in (30.5 cm)
Pressure bleederCable operated
Reverse pick-up head system .

# **GUTTER BROOM, LEFT, Patented**

DriveConstant speed
non-reversible hydraulic motor
AdjustmentAdjustable for
down pressure, pattern and wear
Down pressureAutomatic
FlexibilityIntegral
anti-damage "swing away" relief valve
BroomSteel wire vertical
digger 36 in (91 cm)
FloodlightLED
Parabolic mirror 10.5 in (26.67 cm) dia.

HYDRAULIC SYSIEM
Operates gutter broom(s), dump door and
pick-up head
DriveGear driven from auxiliary engine
Flow rate 5 GPM (18.925 LPM)
Reservoir 13.5 gal (51.1 L) w/80 mesh
suction strainer, sight/temperature gauge, oil
cooler
Filter10 µm in-line
Hydraulic oil Extended life 10W ISO 46
Cooler Air to oil

#### **DUST CONTROL SYSTEM**

Water spray nozzle	s for dust suppression
Pump	Electric diaphragm
Reservoir Poly	/ethylene, 150 gal (567.7 L)
	80 mesh in-liné
Low water shut-off	Safety shut-off
with audible and \	isual indicator in cab
Spray nozzles	At gutter broom(s)
and inside hopper	ſ

Fire hydrant and garden hose connections Hydrant fill hose......20 ft (6 m)

## **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 broom(s), 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 broom(s), auxiliary engine RPM, dust control water

system nozzles, safety lights

**Exterior Controls** 

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 Assist (ASA) 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 COMDEX package ...... Up to 217.5 gal (823 L) Requires Isuzu 132.5 in wheelbase Gutter broom(s) ......(right or twin) Gutter broom tilt adjuster(s) (left, right, or twin) Gutter broom variable speed Gutter broom drop-down

Requires Isuzu 150 in wheelbase

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, front bumper mounted, light 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.

## **CABOVER CHASSIS AVAILABLE**

Isuzu NRR Diesel - 150 in wheelbase (WB) Isuzu NRR Diesel- 132.5 in WB (COMDEX) Isuzu NPR-XD Diesel - 132.5 in WB (COMDEX)