

TECHNICAL DATA SHEET
D3 Tier 4


DIMENSIONS			
Length	In	165,4	(4200mm)
Length with third brush	In	196,9	(5000mm)
Width	In	81,9	(2080mm)
Height	In	97,3	(2470mm)
Height with beacon	In	105,2	(2670mm)
Height with arm	In	109,1	(2770mm)
Net weight	lbs	11210,4	(5085Kg)
Net weight (with third brush)	lbs	11684,4	(5300Kg)
Payload (with third brush)	lbs	4850,1	(2200Kg)
Gross vehicle weight	lbs	16534,5	(7500Kg)
PERFORMANCE			
Cleaning performance	ft²/h	968400	(90000 m²/h)
SWEEPING WIDTH			
Sweeping width with main broom	In	51,2	(1300mm)
Sweeping width with Rh side brush	In	68	(1725mm)
Sweeping width with Rh + Lh side brushes	In	84,7	(2150mm)
Sweeping width with 3rd front brush Rh or Lh	In	112,3	(2850mm)
Sweeping width with 3rd front brush Rh and Lh (180°)	In	118,2 - 126	(3000/3200 mm)
Max speed	Mph	20	
Working speed	Mph	0 - 18,7	
Gradeability	%	21 (18)	
Steering diameter CUNA rules	ft	27,1	(8250mm)
Dsa - Steering diameter Kerb to Kerb	ft	27,3	(8300mm)
Dwa - Steering diameter Wall to Wall	ft	30,2	(9200mm)
Dka2 - Steering diameter Wall to Wall (With third brush)	ft	31,9	(9720mm)
CHASSIS			
Material		S355	
Thickness	In	0,2	(5mm)

MAIN BROOM		
Lenght	In	50,4 (1280mm)
Diameter	In	20,5 (520mm)
Material (standard)		PPL / Moplen
Rotation speed	rpm	175
Transmission		Hydraulics
Motor		Hydraulic
SIDE BRUSHES		
Diameter	In	34,5 (875mm)
Material (standard)		PPL / Steel
Rotation speed	rpm	40 ÷ 80
Transmission		Hydraulics
Motor		Hydraulic
THIRD FRONT BRUSH (Opt.)		
Diameter	In	41,8 (1060 mm)
Material (standard)		PPL / Steel
Rotation speed	rpm	40 ÷ 80
Transmission		Hydraulics
Motor		Hydraulic
SUCTION SYSTEM		
Type of suction fan		Blades
Fan diameter	In	19,4 (492mm)
Depression	mmH ² O	800
Air flow	yd ³ /h	3916,7 (2995m ³ /h)
Trasmission		Hydraulics
SUCTION HOSE (Opt.)		
Length of suction hose	In	177,2 (4500mm)
Suction hose diameter	In	6 (150mm)
Depression	mmH ² O	800
Air flow	yd ³ /h	5828,5 (4457m ³ /h)
DUST FILTER		
Type of filter		Bag filter
Bags	n°	22
Filtering capacity	micron	3 o 1 (Gore)
Filter surface	ft ²	204,5 (19m ²)
Filter material		PE/PE401 - Gore
PM 2,5 & 10 Filtration (EN15429-3)		EUNITED 4 STAR
FILTER SHAKER		
Filter cleaning system		Hydraulic
WASTE CONTAINER		
Volumetric capacity	yd ³	3 (2,26m ³)
Hopper emptying system		Hydraulic
Dumping height	In	61,9 / 68,2 (1570/1730mm)
Material		AISI 304

WASTE CONVEYOR			
Width loading inlet	In	50	(1270mm)
Height loading inlet	In	8,7	(220mm)
Rubber blade	N°	9	
Transmission		Hydraulics	
Motor		Hydraulic	
Rotation speed	rpm	120	
WATER TANK (Opt.)			
Water tank capacity	gal	105,7	(400l)
Material		Stainless steel	
Additional water tank	gal	87,2	(330l)
WATER SYSTEM (Opt.)			
Type		Electric	
Flow	gal/m	3,5	(13 l/m)
Pressure	Psi	36,3 - 50,8	(2,5 - 3,5Bar)
Nozzles		2 + 2 + 4 (third brush)	
Adjustment		Variable in Cab	
ENGINE			
Brand / type		KOHLER	
Type approval		TIER 4 - EPA40CFR	
Displacement	in ³	151,5	(2482cc)
Cylinders	n°	4	
Max power	HP	74	(55,4kW)
Working speed	rpm	1600 ÷ 1800	
Cooling system		Water	
Fuel		Diesel	
Fuel consumption	gal/h	1,5	(5,3 l/h)
Fuel tank capacity	gal	21,7	(82l)
Max battery capacity	V/Ah	12 / 180	
Battery Nr.	n°	1	
Alternator	V/A	14 / 120	
EMISSIONS		NRSC	NRTC
CO	g/kWh	0,051	0,042
NMHC + NOX	g/kWh	3,811	3,655
Particulate	g/kWh	0,02	0,016
TRACTION			
Transmission		Hydrostatics	
Traction pump displacement	in ³	3,5	
Traction motor displacement	in ³	3,7	
WHEELS			
Front tire dimensions		7.00 R12 PR16	
Specific pressure on the ground front wheels	N/cm ²	5,44 ÷ 5,90	
Rear tire dimensions		250/75 R12 PR20	
Specific pressure on the ground rear wheels	N/cm ²	4,86 ÷ 6,8	



BRAKES			
Type		Drum	
Service brake		Hydraulic	
Parking brake		Hydraulic	
STEERING			
Type		Hydraulics	
Steering		Front	
HYDRAULIC SYSTEM			
Tank capacity	gal	21,7	(82l)
AIR CONDITIONING SYSTEM			
Cooling power	KW	6,2	
Heating power	KW	8,5	
Air flow	yd³/h	850,1	(650m³/h)
GREASING SYSTEM (Opt.)			
Type		Manual or Automatic	
Greasing points	N°	20	
HIGH PRESSURE SYSTEM (Opt.)			
Type		Hydraulics	
Flow	gal/min	5,6	(21 l/min)
Pression	Psi	2900 (1595)	200 Bar (110)
REEL WITH GUN (Opt.)			
Type		Automatic	
Length	In	393,8	(10m)
TURNING ARM (Opt.)			
Lenght	In	138,2	(3510mm)
Rotation angle	°	270	
FRONT WASHING BAR (Opt.)			
Length	In	47,7 / 59,3	(1210/1506mm)
Nozzles		5 / 6	