

## 13 Technical Data—RD 16

## 13.1 Engine

Item no.		RD 16 / RD 16 IRH
<b>Engine</b>		
Engine type		3-cylinder, 4-cycle, liquid-cooled, diesel engine
Engine make		Kohler
Engine model		KDW 1003
Max. rated power @ rated speed <sup>1</sup>	kW (hp)	16.8 (22.5) @ 2,850 rpm
Displacement	cm <sup>3</sup> (in <sup>3</sup> )	1,028 (62.7)
Engine speed - operating	rpm	2,850
Engine speed - idle	rpm	1,300
Valve clearance (cold) intake: exhaust:	mm (in.)	0.15 (0.006) 0.20 (0.008)
Battery	V	12V DC
Air cleaner	type	Dry pleated paper elements
Fuel	type	Diesel Low sulfur fuel or ultra low sulfur fuel only
Fuel tank capacity	L (gal)	23 (6.1)
Fuel consumption	L (gal)/hr	3.6 (0.96)
Engine oil	type L (qt)	SAE 15W40 Class CF rated 2.4 (2.5)
Coolant capacity	L (gal)	4.75 (1.25)

<sup>1</sup>Net power rating per ISO 3046/1-IFN. Actual power output may vary due to conditions of specific use.

13.2 Roller

Item No.		RD 16/16 IRH
<b>Roller</b>		
Dry Weight	kg (lb)	1,356 (2,990)
Curb Clearance: Right Left	mm (in.)	400 (15.7) 400 (15.7)
Water Tank Capacity	L (gal)	100 (26.4)
Outside Turning Radius	m (ft)	2.87 (9.4)
Forward / Reverse Speed	kph (mph)	0-9.3 (0-5.8)
Gradeability		30%
Vibration Frequency	vpm	4,200

13.3 Lubrication

Item No.		RD 16 / RD 16 IRH
<b>Lubrication</b>		
Engine Lubrication	type L (pt)	SAE 15W40 Class SJ rated 2.4 (2.5)
Hydraulic System	type L (gal)	Premium grade, anti-wear hydraulic fluid 10W30 21.6 (5.7)
Exciter	type	Mobil SHC 220 grease
Rear Drum Drive Bearing	type	Sealed Bearings—No lubrication required
Front Drum Drive Bearing	type	
Articulated Joint	type qty.	Mobil SHC 220 grease as required

### 13.4 Hydraulic Pressures

System	Operating Pressure		Relief Pressure	
	bar	psi	bar	psi
Drive**	55–76	800–1,100	300	4,350
Steering* —normal —while turning	41–55	600–800	45–51	650–725
	90–103	1,300–1,500		
Vibration —single drum —dual drum	103–131	1,500–1,900	290	4,200
	138–165	2,000–2,400		

\* Values for hard-packed surfaces. Values may differ depending on surface.

\*\* Charge pressure: 29.3 – 30.7 bar (425–445 psi).

### 13.5 Sound Measurements

Products are tested for sound pressure level in accordance with EN 500-4:2011.

Sound power level is tested in accordance with European Directive 2000/14/EC - Noise Emission in the Environment by Equipment for use outdoors.

Machine	Sound Pressure at Operator's Location dB(A)	Guaranteed Sound Power dB(A)
RD 16	88	106