



DD-138HF

Large Asphalt Compactors



*Moving the
World Forward*

Accelerate your productivity

The Ingersoll Rand DD-138HF is a 13.5-tonnes, 84-inch drum, high-frequency, asphalt compactor. The high-frequency design allows for faster rolling speeds to keep up with the paver. High frequency also assists in reaching target densities quicker by compacting in higher temperatures. Designed with exclusive Ingersoll Rand 8-amplitude technology, the DD-138HF fine-tunes drum energy for differing materials and changing conditions. Adjusting drum amplitude by only a thousandth of an inch can mean the difference between achieving required density or fracturing aggregate particles in the mix. Eight amplitudes are not a luxury when you consider what's at stake.

MODEL		DD-138HF
MACHINE WEIGHTS W/ ROPS / FOPS		
Operating Weight (CECE) – lb (kg)		30,325 (13752)
Weight @ Front Drum – lb (kg)		15,880 (7202)
Weight @ Rear Drum – lb (kg)		14,445 (6551)
Shipping Weight – lb (kg)		28,728 (13028)
MACHINE DIMENSIONS		
Length – in (mm)		236 (5995)
Width – in (mm)		92 (2337)
Height — Top Of Steering Wheel – in (mm)		93.8 (2382)
Height — Top Of ROPS / FOPS – in (mm)		125.2 (3179)
Drum Base – in (mm)		139.8 (3550)
Curb Clearance – in (mm)		20 (509)
Inside Turning Radius (to drum edge) – in (mm)		179.6 (4562)
DRUM		
Width – in (mm)		84 (2135)
Diameter – in (mm)		55.1 (1400)
Shell Thickness (nominal) – in (mm)		0.78 (20)
Finish		Machined surface; chamfered & radiused edges
VIBRATION		
Frequency – vpm (Hz)		3,200 (53.3)
Nominal Amplitude – in (mm)	High	0.025 (0.63)
	Low	0.013 (0.33)
Centrifugal Force – lb (kN)	High	42,260 (188)
	Low	21,840 (97.1)
PROPULSION		
Type	Closed-loop hydrostatic, parallel circuit to both drums	
Drum Drive	Heavy-duty radial piston LSHT motors; 2-speed rear motor	
Travel Speed – mph (km/h)	High	0 – 6.6 (0 – 10.6)
	Low	0 – 5 (0 – 8)
ENGINE		
Make / Model	Cummins B5.9-TAA	
Engine Type	Turbocharged & charge air-cooled 6-cylinder	
Rated Power @ 2,200 rpm – hp (kW)	173 (129)	
Electrical	12 V DC, negative ground; 95 A alternator	
BRAKES		
Service	Dynamic hydrostatic through propulsion system	
Parking / Secondary	SAHR on front-drum & rear-drum drive motors	
WATER SYSTEM		
Type	Pressure spray drum wetting system with LDPE water tanks	
Pumps	Diaphragm water pumps, primary & secondary for each drum	
Spray Bars	Primary & secondary spray bars for each drum	
Nozzles	Hand-serviceable fan spray nozzles; 12 per spray bar	
Filtration	Sock strainer each tank; primary water filter each pump, fine filter each nozzle	
Drum Wipers	Front & rear rubber wipers for each drum	
Water Tank Capacity – gal (L)	328 (1241)	
MISCELLANEOUS		
Articulation Angle (center pivot steering)	+ / - 35°	
Oscillation Angle	+ / - 10°	
Fuel Tank Capacity – gal (L)	68.4 (259)	
Hydraulic Oil Capacity – gal (L)	32 (121.1)	
Gradeability (theoretical)	32%	

Product improvement is a continuing goal at Ingersoll Rand. Designs and specifications are subject to change without notice or obligation.



OPERATING COMFORT AND CONTROL

Ergonomic design of switches and controls promotes smooth and efficient operation. Lighted instrumentation makes evening and nighttime work easier.

Swivel console places controls within optimum reach. As part of the operator platform, a 5-position swivel console optimizes operator performance.



PERFORMANCE FEATURES

- Constant 3,200 vpm system allows high, predictable rolling speeds
- Eccentric rotation automatically matches direction of travel, improving smoothness
- Excellent visibility with clear line-of-sight to the leading drum edge
- Exclusive machined drums with chamfered, radiused drum edges minimize drum edge marking and facilitate finish rolling
- Industry-leading centrifugal force of 42,260 lb for maximum compaction effort
- Patented Impact Spacing Meter provides operator with a visual reference for speed control to maintain proper impact spacing, resulting in consistent smoothness
- Premium shock and vibration isolated operator platform and ROPS/FOPS, with 5-position swivel console
- SMART start drum vibration system — vibration initiates with lead drum, followed by trailing drum for compaction efficiency

AVAILABLE OPTIONS

- Back-up alarm
- Cocoa mats
- Engine air pre-cleaner
- Engine grid heater
- Front and rear halogen work lights
- Fuel strainer
- High Intensity Discharge (HID) lighting with drum edge lighting
- Ingersoll Rand infrared pavement surface temperature sensor
- Maintenance package
- Strobe light
- Urethane wipers
- Winterization kit



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