



DD-112HF

Large Asphalt Compactors



*Moving the
World Forward*

The future of dual amplitudes

The Ingersoll Rand DD-112HF is a 12-tonnes, 78-inch drum, dual-amplitude, high-frequency asphalt hot mix compactor. The high-frequency design allows for faster rolling speeds to deliver maximum productivity and keep up with today's faster paving speeds. Dual amplitude allows the operator to easily select between high amplitude for thick lift jobs and low amplitude for light overlay work.

MODEL		DD-112HF
MACHINE WEIGHTS W/ ROPS / FOPS		
Operating Weight (CECE) – lb (kg)		27,670 (12548)
Weight @ Front Drum – lb (kg)		14,545 (6596)
Weight @ Rear Drum – lb (kg)		13,125 (5952)
Shipping Weight – lb (kg)		26,100 (11836)
MACHINE DIMENSIONS		
Length – in (mm)		236 (5995)
Width – in (mm)		87 (2210)
Height – Top Of Steering Wheel – in (mm)		93.4 (2372)
Height – Top Of ROPS / FOPS – in (mm)		124.4 (3160)
Drum Base – in (mm)		139.8 (3550)
Curb Clearance – in (mm)		20 (510)
Inside Turning Radius (to drum edge) – in (mm)		148.5 (3772)
DRUM		
Width – in (mm)		78.7 (2000)
Diameter – in (mm)		55.1 (1400)
Shell Thickness (nominal) – in (mm)		0.78 (20)
Finish	Machined surface; chamfered & radiused edges	
VIBRATION		
Frequency – vpm (Hz)	High	4,200 (70)
	Low	3,000 (50)
Nominal Amplitude – in (mm)	High	0.031 (0.8)
	Low	0.013 (0.32)
Centrifugal Force – lb (kN)	High	42,070 (187.1)
	Low	33,090 (147.2)
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 B3.9-C125	
Engine Type	Turbocharged & charge air-cooled 4-cylinder	
Rated Power @ 2,200 rpm – hp (kW)	125 (93.2)	
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; 10 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)	+ / - 40°	
Oscillation Angle	+ / - 10°	
Fuel Tank Capacity – gal (L)	53 (201)	
Hydraulic Oil Capacity – gal (L)	30.5 (115.5)	
Gradeability (theoretical)	36%	

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

- Complete access to engine compartment through rear-hinged, 1-piece composite engine hood
- Exclusive machined drums with chamfered, radiused drum edges minimize drum edge marking
- High frequency of 4,200 vpm offers the industry's fastest rolling speed with vibration
- Industry-leading centrifugal force of 42,070 lb for maximum compaction
- ONE METER BY ONE METER visibility around the unit
- Patented Impact Spacing Meter provides operator with 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
- ROPS / FOPS support legs positioned for unobstructed side visibility
- SMART start drum vibration system — vibration initiates with lead drum, followed by trailing drum for compaction efficiency
- Superior drum spray system to maintain maximum productivity
 - 10 spray nozzles on each spray bar, more closely spaced for better drum coverage
 - Dual drum wipers as standard equipment
 - Independent primary and secondary spray systems
 - Variable waterflow control to conserve water

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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