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DD-112HF Large Asphalt Compactors

Moving the World Forward

(IR) Ingersoll Rand

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The future of dual amplitudes

The Ingersoll Rand DD-112HF is a 12-tonnes, 78-inch drum, dual-amplitude, highfrequency 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.

MACHINE WEIGHTS W/ ROPS / FOPS Operating Weight (ECEE) - Ib (kg) 27,670 (12548) Weight @ Front Drum - Ib (kg) 13,125 (5952) Shipping Weight - Ib (kg) 26,100 (11836) MACHINE DIMENSIONS 236 (5995) Length - in (mm) 236 (5995) Width - in (mm) 93 4 (2372) Height - Top Of Steering Wheel - in (mm) 93 4 (2372) Height - Top Of ROPS / FOPS - in (mm) 124.4 (3160) Drum Base - in (mm) 20 (510) Inside Turning Radius (to drum edge) - in (mm) 148.5 (3772) DRUM 200 (510) Width - in (mm) 78.7 (2000) Diameter - in (mm) 0.78 (20) Finish Machined surface; chamfered & radiused edges WIBATION 78.7 (2000) Frequency - vpm (Hz) Low 3,000 (50) Nominal Amplitude - in (mm) High 4,200 (70) Low 0.031 (0.8) Low 0.031 (0.8) Centrifugal Force - Ib (kN) High 0.403 (0.8) Low 0.78 (20) Type Closed-loop hydrostatic, parallel circuit to both drums Drum D	MODEL		DD-112HF	
Operating Weight (CECE) - Ib (kg) 27,670 (12548) Weight @ Front Drum - Ib (kg) 14,545 (6596) Weight @ Rear Drum - Ib (kg) 13,125 (5952) Shipping Weight - Ib (kg) 26,100 (11836) MACHINE DIMENSIONS Length - in (mm) Length - in (mm) 236 (5995) Width - in (mm) 93,4 (2372) Height - Top Of FOPS / FOPS - in (mm) 124,4 (3160) Drum Base - in (mm) 200 (510) Inside Turning Radius (to drum edge) - in (mm) 148,5 (3772) DRUM Utidh - in (nm) Width - in (nm) 7.8.7 (2000) Diameter - in (mm) 0.78 (20) Finish Machined surface; chamfered & radiused edges VIBRATION Frequency - vpm (Hz) Frequency - vpm (Hz) High 0.031 (0.8) Low 30,000 (50) Nominal Amplitude - in (mm) High 42,007 (187.1) Low 33,090 (147.2) PROPULSION Low 33,090 (147.2) Frequency - wpm (km/h) High 0 - 6.6 (0 - 10.6) Low 0 - 5 (0 - 8) EMGINE <td>MACHINE WEIGHTS W/ R</td> <td>OPS / FOPS</td> <td></td>	MACHINE WEIGHTS W/ R	OPS / FOPS		
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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) ENCINE 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 Service Dynamic hydrostatic through propulsion system Parking / Secondary SAHR on front-drum & rear-drum drive motors WATER SYSTEM Type Type Pressure spray drum wetting system with LDPE water tanks Pumps Diaphragm water pumps, primary & secondary spray bars Nozzles Hand-serviceable fan spray nozzles; 10 per spray bar Filtration Sock strainer each tank, primary water filter each nozzle Drum Wipers Front & rear rubber wipers for each drum Water Tank Capacity – gal (L)	Nominal Amplitude – in (mm)	High	0.031 (0.8)	
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 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) MSCELLANEOUS + / - 40° Oscillation Angle (center pivot steering) + / - 40° <		Low	0.013 (0.32)	
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 Service Dynamic hydrostatic through propulsion system Parking / Secondary SAHR on front-drum & rear-drum drive motors WATER SYSTEM Type 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) <t< td=""><td>Centrifugal Force – lb (kN)</td><td>High</td><td>42,070 (187.1)</td></t<>	Centrifugal Force – lb (kN)	High	42,070 (187.1)	
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Oscillation Angle + / - 10° Fuel Tank Capacity – gal (L) 53 (201) Hydraulic Oil Capacity – gal (L) 30.5 (115.5)	Articulation Angle (center pivot	steering)	+ / - 40°	
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Hydraulic Oil Capacity – qal (L) 30.5 (115.5)	Fuel Tank Capacity – gal (L)		53 (201)	
Gradeability (theoretical) 36%	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

(HID) lighting with drum

 Front and rear halogen work lights

edge lighting

- Strobe light Urethane wipers Winterization kit

Ingersoll Rand infrared

pavement surface

temperature sensor Maintenance package

 Euel strainer High Intensity Discharge



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