



DD-118HA

Large Asphalt Compactors



*Moving the
World Forward*

Ultimate power and performance

The Ingersoll Rand DD-118HA is a 12-tonnes, 78-inch drum, high-amplitude asphalt compactor. Designed with exclusive 8-amplitude technology, the DD-118HA allows fine-tuning of 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-118HA
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)		3,000 (50)
Nominal Amplitude – in (mm)	High	0.032 (0.80)
	Low	0.013 (0.32)
Centrifugal Force – lb (kN)	High	42,070 (187)
	Low	16,880 (75)
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 (0 – 8.0)
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	
Battery	1 absorbed electrolytic, 900 CCA	
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)	38.2 (115.6)	
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
- Eccentric rotation automatically matches direction of travel, improving smoothness
- Exclusive machined drums with chamfered, radiused drum edges to minimize drum edge marking
- High-frequency vibration system of 3,000 vpm offers faster rolling speeds for increased production
- Higher range of amplitudes to achieve required compaction throughout deep lifts and/or stiffer mix designs
- ONE METER BY ONE METER visibility around the unit
- Patented Impact Spacing Meter provides the 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
- ROPS / FOPS support legs positioned to provide unobstructed side visibility
- SMART start drum vibration system — vibration initiates with lead drum, followed by the 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 water flow 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
- Infrared pavement surface temperature sensor
- Maintenance package
- Strobe light
- Urethane wipers
- Winterization kit



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