



Moving the World Forward

## Continuous innovation for changing times

The Ingersoll Rand DD-138HA is a 13.5-tonnes, 84-inch drum, high-amplitude hot mix asphalt compactor. Designed with exclusive 8-amplitude technology, the DD-138HA 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.

MACHINE WEIGHTS W/ ROPS / FOPS   Soperating Weight (CECE) — Ib (kg)   30,325 (13752)   Weight @ Front Drum — Ib (kg)   15,880 (7202)   Weight @ Rear Drum — Ib (kg)   14,445 (6551)   Shipping Weight — Ib (kg)   28,728 (13028)   MACHINE DIMENSIONS	MODEL	DD-138HA	
Depretating Weight (CECE) - Ib (kg)   30,325 (13752)	MACHINE WEIGHTS W/ ROPS	/ FOPS	
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)           Width − in (mm)         9.78 (20)           Finish − in (mm)         9.78 (20)           Finish − in (mm)         Machined surface; chamfered & radiused edges           VIBRATION         Nominal Amplitude − in (mm)         High           Frequency − vpm (Hz)         2,700 (45)           Nominal Amplitude − in (mm)         High         0.035 (0.88)           Low         16,710 (74)           PROPULSION         High         41,720 (186)           Type System         Closed-loop hydrostatic, parallel circuit to both drums           Drum Drive         Heavy-duty radial piston LSHT mot			
Shipping Weight - Ib (kg)   28,728 (13028)		15,880 (7202)	
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Inside Turning Radius (to drum edge) – in (mm)  DRUM  Width – in (mm)  Shell Thickness (nominal) – in (mm)  Shell Thickness (nominal) – in (mm)  Shell Thickness (nominal) – in (mm)  Frequency – vpm (Hz)  Nominal Amplitude – in (mm)  Tequency – vpm (Hz)  Low  O.014 (0.35)  Centrifugal Force – lb (kN)  High  Low  16,710 (74)  PROPULSION  Type System  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  O – 6.6 (O – 10.6)  Low  O – 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 System  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 Spray Bars  Primary & secondary spray bars for each drum Spray Bars  Primary & secondary spray bars for each drum Spray Bars  Primary & secondary spray bars for each drum Mozzles  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)  MISCELLANEOUS  Atticulation Anale (center pivot steering)  + / - 35°			
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PROPULSION  Type System	Centrifugal Force – lb (kN)	, ,	
PROPULSION  Type System  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  O – 6.6 (0 – 10.6)  Low  O – 5 (0 – 8)  ENGINE  Make / Model  Engine Type  Turbocharged & charge air-cooled 6-cylinder  Rated Power @ 2,200 rpm – hp (kW)  173 (129)  Electrical System  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)  MISCELLANEOUS  Articulation Angle (center pivot steering)  + / - 35°			
Type System  Drum Drive  Heavy-duty radial piston LSHT motors; 2-speed rear motor  Travel Speed – mph (km/h)  High Low 0 – 6.6 (0 – 10.6) Low 0 – 5 (0 – 8)  ENGINE  Make / Model  Engine Type  Turbocharged & charge air-cooled 6-cylinder  Rated Power @ 2,200 rpm – hp (kW)  Flectrical System  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)  MISCELLANEOUS  Articulation Angle (center pivot steering)  + / - 35°	PROPULSION		
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 System 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°		Closed-loop hydrostatic, parallel circuit to both drums	
Travel Speed – mph (km/h)  High			
ENGINE  Make / Model  Engine Type  Rated Power @ 2,200 rpm – hp (kW)  Electrical System  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  Water Tank Capacity – gal (L)  MISCELLANEOUS  Articulation Angle (center pivot steering)  Fundown Scharage air-cooled 6-cylinder Tays Outmins B5.9-TAA  Engine Type  Turbocharged & charge air-cooled 6-cylinder Tays Outmins B5.9-TAA  Titrobcharged & charge air-cooled 6-cylinder Tays Outmins B5.9-TAA  Engine Type Type Type Type Type Type Type Type Type			
Make / Model  Engine Type  Turbocharged & charge air-cooled 6-cylinder Rated Power @ 2,200 rpm - hp (kW)  173 (129)  Electrical System  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)  MISCELLANEOUS  Articulation Angle (center pivot steering)  4 / - 35°			
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MISCELLANEOUS Articulation Angle (center pivot steering) + / - 35°			
Articulation Angle (center pivot steering) + / - 35°		525 (.2.1)	
Oscillation Angle + / - 10°		+ / - 35°	
Oscination Angle T / TO		+ / - 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

- 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 minimize drum edge marking
- Higher range of amplitudes achieve required compaction of deep lifts and/or stiffer mix designs
- ONE METER BY ONE METER visibility around the unit
- 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
- 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
- 12 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
- Infrared pavement surface temperature sensor
- Maintenance package
- Strobe light
- Urethane wipers
- Winterization kit

