MOYER DIEBEL®
Simply Engineered Better

Project _____
Item No. _____
Quantity _____

VENTLESS HEAT RECOVERY EXTENDED HOOD-TYPE DOOR MACHINE

MDHHD-VL

Ventless Heat Recovery
Extended Hood-Type
Door Machine

Rendered image is for general visual representation only. Please refer to specifications for the latest detailed product information.

STANDARD FEATURES

- **27" Chamber Clearance**
  Provides ample space for larger dishware.
- **Energy Star Certified**
  Ensures energy efficiency, reducing operational costs.
- **40 Racks Per Hour & 0.73 Gallons Per Rack**
- **Rinse Sentry**
  Extends the wash cycle until the booster reaches the optimal sanitization temperature, ensuring a thorough final rinse.
- **Advanced Touchscreen Display**
  Intuitive interface with condition alerts, multilingual support, and easy-to-follow cleaning and operational guidance.
- **User-Friendly Visual Diagnostic Display**
  Quickly identify and resolve machine faults, minimizing downtime.
- **Programmable Sleep Mode**
  Heaters automatically power down after a user-defined period of inactivity, conserving energy.
- **Multi-Power**
  Ability to switch between three-phase and single-phase incoming power.
- **Electromechanical Door Lock**
  Maximizes energy recovery and minimizes condensation entering the dishroom.
- **Delime Feature**
  Automated alerts based on local water quality to ensure proper maintenance.
- **Adjustable Feed Orientation**
  Configurable for front load, corner installation, and pass-through setups in field.
- **NSF Dual Rated**
  Complies with NSF standards for both stationary rack dish machines and pot-and-pan machines.
- **Auto Start**
  Machine starts the selected wash cycle automatically when the door is closed.
- **High Performance 2 HP Wash Pump**
  Delivers powerful cleaning performance while maintaining energy efficiency
- **Timer Drain Valve**
  Heavy-duty, gear-driven, full-port ball valve made of stainless steel and brass for durability.
- **Four User-Selectable Wash Cycles**
  Choose between 1, 2, 4, or 6-minute wash cycles depending on the soil load.
- **Factory Authorized Startup**
- **Vent Fan, Detergent, and Rinse Aid Signal**

SPECIFIER STATEMENT

Specified unit will be Moyer Diebel model MDHHD-VL with Ventless Heat Recovery and Condensate Removal, high temperature, high-hood type dishwashing machine.

Features HMI controls, Rinse Sentry, Auto Start, up to 40 racks/hour, 0.73 US gals/rack [2.76 liters/rack, 0.61 imp. gals/rack].

1 year parts and labor warranty.

OPTIONS & ACCESSORIES

- ☐ Drain Water Tempering Kit (unmounted)
- ☐ Racks (Peg, Flat, Sheet Pan)
- ☐ Corner operation splash baffle
- ☐ Water Softener (Kinetico)
- ☐ Built-in booster configured to ensure 180° rinse
- ☐ Water hammer kit (unmounted)
- ☐ Dual point electrical connection

Printed in USA

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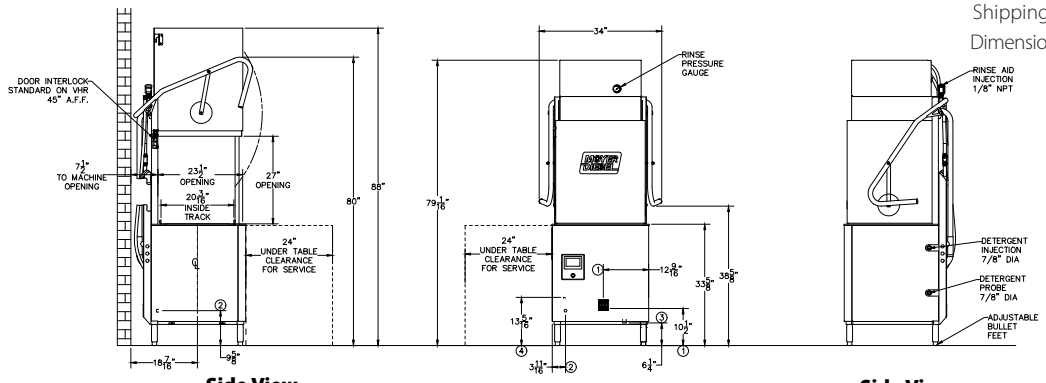
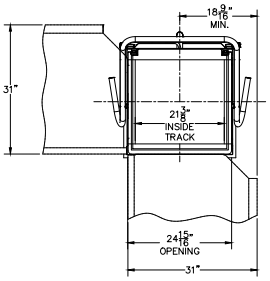
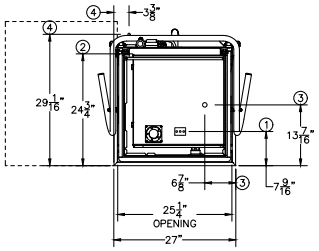
Shipping weight crated: 300 lbs.
Dimensions shown in inches [mm]



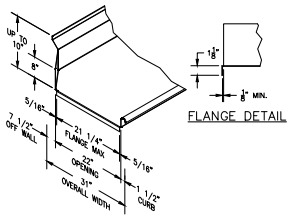
Side View **Front View** **Side View**



Plan View



Corner Table Configuration



Typical Table Construction

Utilities

1	**Electrical Connection** Machine and booster (See electrical chart)
2	**Cold Water Connection** 3/4" NPT Cold Water 50° - 75°F 45 PSI dynamic incoming Final rinse 18 PSI
3	**Drain Connection** 1" NPT Connection Gravity flow 15 Drain Max Flow Rate (g/min)
4	**Drain Water Tempering** 1/2" Cold water line with customer supplied cut-off valve (optional)
5	**Integrated Detergent System** Detergent bottle supply connections (optional)

Note: Water Hammer Arrestor (meeting ASSE-1010 standard or equivalent) to be supplied (by others) in common water supply line at service connection.

Note: Optional Drain Tempering: 1/2" NPT cold water connection required. 1/2" NPT drain connection from back flow preventer to house drain. (FIELD INSTALLED and PLUMBED).

Warning: Plumbing and electrical connections should be made by qualified personnel who will observe all the applicable plumbing, sanitary and safety codes.

Machine & Built-in Booster (Standard)

Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Overcurrent Protective Device
208-240/60/1	72-81	100	100
208-240/60/3	48-50	60	60
480/60/3	21	30	30

Machine Only
(two point electrical connection or no built-in booster)

Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Overcurrent Protective Device
208-240/60/1	36-39	50	50
208-240/60/3	26-27	30	30
480/60/3	10	15	15

Booster Only (two point electrical connection or no built-in booster)

Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Overcurrent Protective Device
208-240/60/1	36-42	50	50
208-240/60/3	21-28	30	30
480/60/3	19	15	15

Plumbing Notes: Because of the variation in house-supplied water pressures and water pressure regulating valves (PRVs) may be needed. (Water PRV is standard on machines with booster.) The PRVs can either be purchased from Champion or obtained locally.

Champion does not endorse using on-demand (tankless) water heating systems, as well as PEX and other plumbing materials that may limit water flow, as these could impair machine performance. For optimal results, we recommend using appropriately sized conventional hot water tanks and standard copper water supply lines that adhere to our specifications. Not following these recommendations may void the manufacturer's warranty.

Water hardness of 3 grains/US Gal (0.83 Imp Gal) - 5.3 Mg/L or less

SPECIFICATIONS

Capacities

Racks per hr. (NSF rated)	40
Wash tank (gal.)	10

Motor horsepower 2 HP

Water consumption

Gal. per hr. (max. use)	39
Gal. per rack	0.73

Temperature °F/°C

Wash	150
Rinse	180

Heating

Tank heat, electric	5.2 kW
Electric Booster	7.5 kW

	Dish-washer Mode	Pot & Pan Mode		
Selectable cycle times in minutes	1	2	4	6
Time cycles in seconds				
Wash	36	94	214	334
Rinse	8	10	10	10
Sanitary Dwell	16	16	16	16
Vent Fan	30	30	30	30
Total	**90**	**150**	**270**	**390**

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