

K-66 SERIES

HOT WATER SANITIZING SINGLE-TANK RACK CONVEYOR DISHWASHERS

The clean solution

Special Features:

- Synchronized side-drive dual rack rail pawl-bar system ensures complete water coverage from every angle, even the bottom of the rack
- Large, insulated front doors are spring-loaded to open easily and STAY open, without latching
- Optimally-positioned wash arms in easily-removed assemblies. Arms and assemblies are stainless steel, eliminating high-wear gaskets and O-rings
- Concave, slotted nozzles minimize clogging. Nozzles are optimally-positioned at varying angles to maximize water coverage over all areas of the ware
- **Powerful 3hp wash pump** is 50% more powerful than the industry standard for outstanding cleaning
- Large separation between wash and rinse (16"/ 406mm upper, 17"/432mm lower) avoids splashing of soiled water onto sanitized ware
- Front-sloping tanks for complete drainage and easier cleaning
- External, easily-operated lever drain system makes draining fast, safe and simple

Standard Features:

- Capacity 239 racks per hour
- Water consumption **0.43** gallons (1.63 liters) per rack
- 304-series stainless steel construction
- Double-wall insulated construction on front, top and back to improve operator safety, conserve heating energy, and reduce noise and heat loss into the dishroom
- Large, easily-removed pan strainers with separate prewash scrap basket
- Fully automatic operation including auto-fill and autostart. Prewash, wash and final rinse are activated only when a rack is in place to conserve water and detergent
- Powerful 3hp (2.2 kW) wash pump. Pumps are verticallymounted to be self-draining and easily removed for servicing
- Electromechanical controls for reliability and easy operation.
 Low-voltage 24VAC control circuit for operator safety
- Easily accessible detergent and rinse aid injection ports for fast and easy chemical dispenser installation
- Single-point electrical, water and drain connections.
 Internal booster heater option adds an additional terminal block for simpler replacement of an existing external booster heater
- Low-level heater protection
- External vent fan control
- Pressure reduction valve (machines with internal booster heater)



Options:

- Choice of two clearance heights (standard 18"/457mm or tall hood 26"/660mm)
- Internal booster heater (steam or electric heat)
- External booster heater (steam or electric heat)
- Table limit switch (end stop or whisker switch versions)
- Vent cowl collars
- Direct drive sideloader
- 90° powered loader or unloader
- Flanged feet
- Drain water tempering kit
- Shock arrestor
- Pressure reduction valve (machines without internal booster heater)

Models:

- K-66E: 18" vertical clearance, electric heat
- K-66S: 18" vertical clearance, steam coil heat
- K-66ET: 26" vertical clearance, electric heat
- K-66ST: 26" vertical clearance, steam coil heat

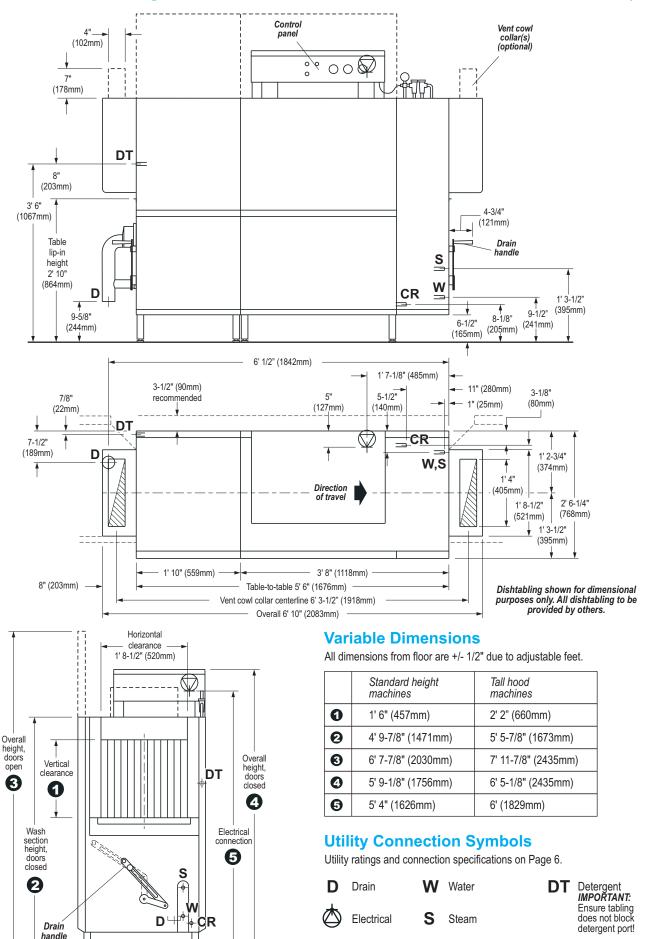
This dishwasher is compliant with the Reduction of Lead in Drinking Water Act (2011) amendment to the Safe Drinking Water Act (SDWA).







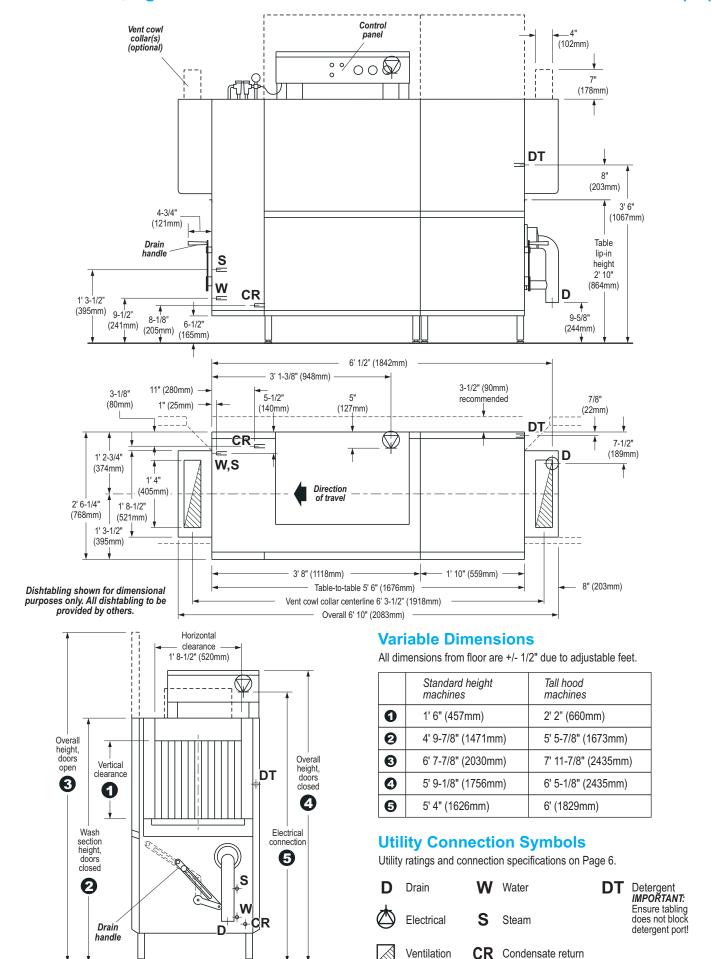
K-66 Series, left-to-right - electric heat w/o internal booster OR steam heat (all)



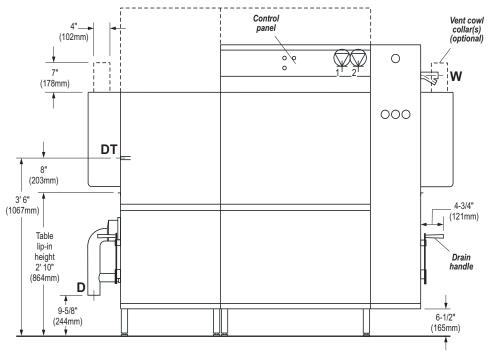
CR Condensate return

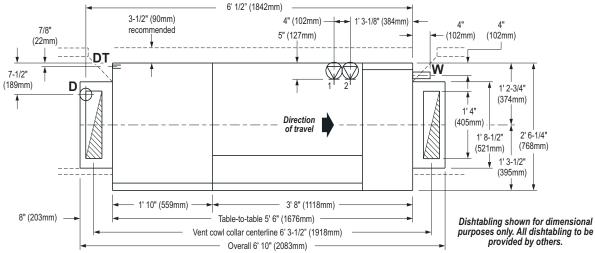
Ventilation

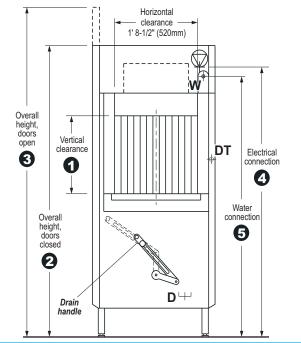
K-66 Series, right-to-left - electric heat w/o internal booster OR steam heat (all)



K-66 Series, left-to-right - electric heat with internal booster







Variable Dimensions

All dimensions from floor are +/- 1/2" due to adjustable feet.

| | Standard height machines | Tall hood machines | |
|---|-----------------------------|-----------------------|--|
| 0 | 1' 6" (457mm) | 2' 2" (660mm) | |
| 0 | 5' 9-1/8" (1756mm) | 6' 5-1/8" (2435mm) | |
| 8 | 6' 7-7/8" (2030mm) | 7' 11-7/8" (2435mm) | |
| 4 | 5' 4" (1626mm) | 6' (1829mm) | |
| 6 | 5' 2" (1576mm) | 5' 10" (1778mm) | |

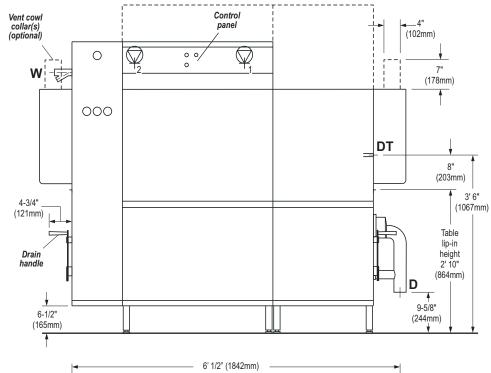
Utility Connection Symbols

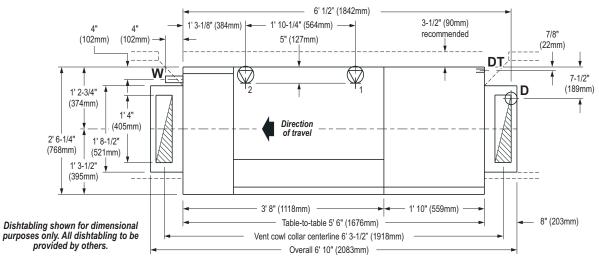
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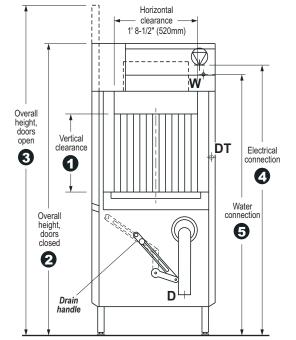
Utility ratings and connection specifications on Page 6.

D Drain W Water DT Detergent IMPORTANT:
Ensure tabling does not block detergent port!

K-66 Series, right-to-left - electric heat with internal booster







Variable Dimensions

All dimensions from floor are +/- 1/2" due to adjustable feet.

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Utility Connection Symbols

Utility ratings and connection specifications on Page 6.

D Drain W Water DT Detergent IMPORTANT:
Ensure tabling does not block detergent port!

Ventilation

K-66 Series Utility Connections

D Drain

2-15/16" (75mm) OD vertical, gravity-fed drain outlet (HDPE piping). Recommend placement directly above 4" floor drain. Additional piping to drain (if so required) to be supplied by customer.

Connection is 9-5/8" (244mm) AFF. If using optional 2" NPT adapter, connection is 8-1/2" (214mm) AFF. Refer to **Detail View: Drain** for suggested connection.



Single electrical connection

Single terminal block inside control box (4-wire with ground - no neutral).

Dual electrical connections - machines with internal electric booster heater

- Two terminal blocks inside control box (4-wire with ground no neutral).
 - 1 Machine electrical supply
 - 2 Booster heater electrical supply

Electrical supply (or supplies) should be routed into control box through strain relief(s) on rear of control box. Incoming leads must be appropriately sized for electrical supply. Individual disconnect with lockout/tagout strongly recommended (provided by customer).

Connection for standard-height machines is 5' 4 " (1626mm) AFF. Connection for tall hood machines is 6' (1829mm) AFF.

Refer to utility chart on Page 7 for electrical load information.



Vent connection - machines with optional vent cowl collars

Refer to Detail View: Vent for suggested connection.

The waste air connection must be corrosion-resistant and frost-free. In particular, provisions must be made to prevent air temperatures of 32°F/0°C or colder from reaching the machine at any time. A provision for draining moisture from the waste air pipe is strongly recommended.

- Load end 150 CFM (255 m³h)
- Unload end 150 CFM (255 m³h)
- Total 300 CFM (510 m³h)

DT Detergent

Connection is 3' 6" (1067mm) AFF. Provided hole is end of pre-plumbed detergent conduit. Feed external detergent line through conduit to wash tank.

IMPORTANT: Ensure tabling does not block detergent port!

W Hot water connection - machines without internal booster heater

1/2" NPT female pipe connection is 9-1/2" (241mm) AFF.

- Temperature 180°F (82°C)
- Pressure 15-25 PSI (1.0-1.7 bars)
- Initial fill 42.3 U.S. gals. (160.1 liters)
- · Consumption 102.0 U.S. gals per hour (386.1 liters) per hour
- · Recommended hardness 1-6 grains/U.S. gal.

Water connection - machines with internal booster heater only

For steam heat, 1/2" NPT female pipe connection is 9-1/2" (241mm) AFF. For electric heat, 1/2" NPT female pipe connection is 5' 2" (1576mm) AFF for standard-height, 5' 10" (1778mm) AFF with tall hood option.

- Temperature:
- Machines with 40°F booster: 140°F (60°C) Machines with 70°F booster: 110°F (43°C)
- Pressure 15-25 PSI (1.0-1.7 bars)
- Initial fill 42.3 U.S. gals. (160.1 liters)
- Consumption 102.0 U.S. gals per hour (386.1 liters) per hour
- · Recommended hardness 1-6 grains/U.S. gal.

Steam connection - steam-heated machines

Pipe connection is 1' 3-1/2" (395mm) AFF.

- Machines without internal steam booster heater: 3/4" male NPT connection
- Machines with internal steam booster heater: 1-1/4" male NPT connection
- 10-30 PSI CONSTANT steam pressure is REQUIRED. If pressure is above 30 PSI, use of a regulator is REQUIRED (supplied by customer).
- The pipe connection does NOT reflect the steam line size from the boiler to the dishwasher. The necessary steam line sizing must be determined by the facility's steam engineer based on the pressure and volume requirements.
- · Consumption: Refer to utility chart on Page 7

CR Condensate return connection - steam-heated machines

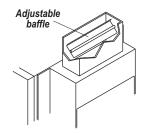
3/4" NPT male pipe connection is 8-1/8" (205mm) AFF. Condensate line MUST be pressure-free.

Vent Connection

Machines equipped with optional vent cowl collars may be installed underneath a ventilation hood, or may use "pant leg" ventilation ducts (to be supplied by the customer). To determine the dimensions of the duct, first determine how they will be installed:

- Duct sleeved outside collar Inside dimensions of duct: 4" W x 16" D (102 x 406mm).
- Duct sleeved inside collar
 Outside dimensions of duct: 3-3/4" W x 15-3/4" D (95 x 400mm).

The duct must not interfere with the adjustable baffle, as shown.



collar (recommended) 4" x 16" (102x406mm) inside dimensions

Duct sleeved outside

Duct sleeved inside collar (if required) 3-3/4" x 15-3/4" (95x400mm) outside dimensions

Drain Connection

The machine is equipped with a 2-15/16" (75mm) OD vertical, gravity-fed drain. If possible, the machine drain can simply be positioned directly above a 4" floor drain.

If a floor drain is not in the correct location, or if local codes require a trap, a 2" indirect drain line may be attached using the supplied 2" NPT male adapter.

Choose a piping material that:

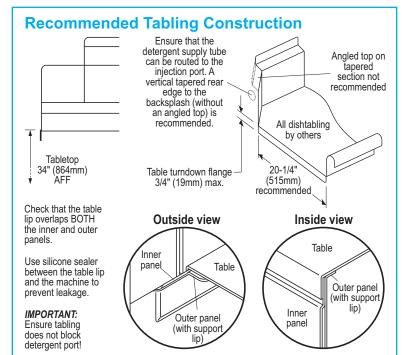
Complies with any applicable local and national codes

Is rated for use with water temperatures up to 180°F/82°C

Is rated for use with water temperatures up to 180°F/82°C

Is rated for 3-12 pH to accommodate detergents and rinse aid in the drain water

9-5/8"
(244mm) 8-1/2"
Optional 2"
NPT adapter



K-66 Series Technical Specifications

Operating Capacities (NSF Rated)

| Racks per hour | 239 |
|------------------|-------|
| Dishes per hour | 5,975 |
| Glasses per hour | 8,604 |

Conveyor Specifications

| Conveyor belt speed | 6.64 feet/min. (2.02m/min.) |
|-------------------------------------|-----------------------------|
| Horizontal clearance | 1′ 8-1/2″ (520mm) |
| Vertical clearance (K-66E, K-66S) | 1′ 6″ (457mm) |
| Vertical clearance (K-66ET, K-66ST) | 2′ 2″ (660mm) |

This machine may not pass through standard doorways without machine disassembly or doorway modification. Check all dimensions carefully prior to ordering, or contact MEIKO at sales@meiko.us for assistance.

Venting Specifications

| Load end | 150 CFM (255m ³ /h) |
|------------|--------------------------------|
| Unload end | 150 CFM (255m ³ /h) |
| Total | 300 CFM (510m3/h) |

Shipping Information

| 11 0 0 | |
|--------|--|
| | |

Some options and accessories may affect shipping weight or dimensions. Contact MEIKO at sales@meiko.us for assistance.

Water Specifications

| Minimum water temperatures: |
|--|
| Prewash tank No minimum - 110-140°F (43-60°C) typical |
| Wash tank 160°F (72°C) |
| Final rinse 180°F (82°C) |
| Minimum incoming water temperature: |
| Machines without internal booster 180°F (82°C) |
| Machines with internal booster 110° or 140°F (43° or 60°C) |
| Initial fill |

| Incoming water line size | 1/2" NPT |
|-------------------------------|---|
| ŭ | 1-6 grains/U.S. gal. |
| Consumption at 100% capacity: | |
| Final rinse flow pressure | 15-25 PSI (1.0-1.7 bars) |
| Flow rate | |
| Drain line size | 2-15/16" (75mm) OD, 2" NPT adapter supplied |
| Maximum drain flow rate | |
| | |

Electrical Specifications

| Machine supply connection | Peak current draw | Minimum supply circuit ampacity | Maximum breaker/ disconnect | | |
|---|-------------------------|---------------------------------------|-----------------------------------|--|--|
| K-66E (standard height, electric ta | ank heat) | | | | |
| 208V/60 Hz/3 Ph | 54.4 A | 70 A | 70 A | | |
| 230V/60 Hz/3 Ph | 49.3 A | 70 A | 70 A | | |
| 460V/60 Hz/3 Ph | 24.6 A | 35 A | 35 A | | |
| K-66ET (tall hood, electric tank heat) | | | | | |
| 208V/60 Hz/3 Ph | 66.7 A | 90 A | 90 A | | |
| 230V/60 Hz/3 Ph | 58.0 A | 80 A | 80 A | | |
| 460V/60 Hz/3 Ph | 28.4 A | 40 A | 40 A | | |
| K-66S, K-66ST (standard height and tall hood, steam coil tank heat) | | | | | |
| 208V/60 Hz/3 Ph | 12.7 A | 20 A | 20 A | | |
| 230V/60 Hz/3 Ph | 12.8 A | 20 A | 20 A | | |
| 460V/60 Hz/3 Ph | 5.8 A | 15 A | 15 A | | |

| Internal booster heater supply connection | Rating, machine startup | Rating, machine operation | Peak current draw | Minimum supply circuit ampacity | Maximum breaker/ disconnect |
|---|-------------------------------|---------------------------------|-------------------------|---------------------------------------|-----------------------------------|
| 40°F rise electric booster | (140°F/60° | C water sup | ply tempe | erature) | |
| 208V/60 Hz/3 Ph | 18.0 kW | 10.8 kW | 50.0 A | 70 A | 70 A |
| 230V/60 Hz/3 Ph | 18.0 kW | 10.8 kW | 45.0 A | 60 A | 60 A |
| 460V/60 Hz/3 Ph | 18.0 kW | 10.8 kW | 22.6 A | 30 A | 30 A |
| 70°F rise electric booster | · (110°F/43° | C water sup | ply tempe | erature) | |
| 208V/60 Hz/3 Ph | 28.8 kW | 21.6 kW | 79.9 A | 100 A | 100 A |
| 230V/60 Hz/3 Ph | 28.8 kW | 21.6 kW | 72.3 A | 100 A | 100 A |
| 460V/60 Hz/3 Ph | 28.8 kW | 21.6 kW | 36.1 A | 50 A | 50 A |
| | | | | | |

| Electric tank heater ratings (K-66E, K-66ET) | | | | | |
|--|---------------|---------------|----------------------|--|--|
| | 208V/60Hz/3Ph | 230V/60Hz/3Ph | 460V/60Hz/3Ph | | |
| K-66E | 15.0 kW | 14.6 kW | 15.0 kW | | |
| K-66ET | 19.5 kW | 18.0 kW | 18.0 kW | | |
| Prewash pump motor 0.75 hp (0.55 kW) | | | | | |
| Wash pump motor | | | | | |
| Conveyor motor | | | . 0.125 hp (0.09 kW) | | |

Steam Specifications (K-66S, K-66ST)

Steam line connection:

| Machines without internal steam booster heater | 3/4" NPT |
|---|---------------|
| Machines with internal steam booster heater | 1-1/4" NPT |
| Condensate return connection | 3/4" NPT |
| Steam pressure | 7-2.0 bars) |
| Steam consumption: | |
| Tank heat | . 60 lbs./hr. |
| 40°F rise steam booster (140°F/60°C water supply temperature) | +50 lbs./hr. |
| 70°F rise steam booster (110°F/43°C water supply temperature) + | 100 lbs./hr. |

External Booster Heater Recommendations (for machines without optional internal booster heater)

Booster ratings are based on peak capacity of 102.0 U.S. gals. (386.1 liters) per hour and a flow rate of 1.70 U.S. gals. (6.44 liters) per minute. Recommended boosters are one size larger than required to help compensate for any local conditions that may prevent full performance.

| Water supply temperature | 7 | ommended oster rating |
|-----------------------------|-----------|--------------------------|
| 110°F/43°C | 70°F/39°C | 24 kW |
| 140°F/60°C | 40°F/22°C | 12 kW |

Note: All specifications are subject to change without notice based on MEIKO's dedicated product improvement program.

Equipment Specification: K-66 Rack Conveyor Dishwasher- Item No.

Item will be an NSF and ETL-listed MEIKO K-66 single tank, rack conveyor dishwasher, consisting of a prewash zone with 3/4 hp (0.55 kW) pump motor, a wash zone with 3 hp (2.2 kW) pump motor, and a final rinse zone. Total length of the tank section (not including vent cowls) will be 5' 6" (1676mm). Unit will utilize a 180°F/82°C minimum fresh water sanitizing rinse.

Unit will have a capacity of 239 racks per hour at an NSF-rated belt speed of 6.64 feet (2.02m) per minute. Unit will consume an NSF-rated 102.0 U.S. gals./386.1 liters per hour (0.43 U.S. gals./1.62 liters per rack).

Steam heated

Electrically heated

Sized for a minimum 40°F (22°C) rise and 140°F (60°C)

Sized for a minimum 70°F (39°C) rise and 110°F (43°C)

min. incoming water temperature

min. incoming water temperature

Pressure reduction valve (machines without internal booster

___ 90° side loader (hooded), 23" long

__ 90° power unloader, 34-1/4" long

___ 90° power loader, 34-1/4" long

Flanged, bolt-down feet

Shock arrestor

heater only)

Drain water tempering kit