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WAREWASHING PRODUCT SELECTOR

Providing support for all your catering equipment needs

WAREWASHING PRODUCT SELECTOR

When purchasing warewashing machines, it is important to consider several factors. Capacity is considered in terms of plates per hour in commercial dishwashers. This is a measure of the maximum number of standard sized plates that can be washed every hour. Glasswashers have a similar measure using glasses.

Energy efficiency is another consideration. Warewashers in busy catering establishments will be running frequently and so more energy efficient options will save money in the long run. They are also better from an environmental perspective.

When assisting your customer to choose the correct machine needed for their establishment ask these questions:

- Is the machine required to wash glasses?
- Is the machine to wash plates?

If it is for glasses ask what sort of quantities your customer is going to require per hour:

- Under counter 350 basket – 12 pint glasses – approx 240 glasses per hour* (nonik pints)
- Under counter 400 basket – 16 pint glasses - approx 384 glasses per hour*
- Under counter 450 basket – 22 pint glasses – approx 528 glasses per hour*
- Under counter 500 basket – 25 pint glasses – approx 1500 glasses per hour*

If for dishes:

- Under counter: 500mm basket – 360 plates per hour (10 inch plates)
- Pass through: 500mm basket – 540 plates per hour
- Minirack single tank: 500mm basket – 1800 plates per hour
- Minirack dual tank: 500mm basket – 3060 plates per hour

Food debris should be removed before placing plates inside the machine. If ordering a pass-through machine, a sink, table and spray arm may also be fitted to allow the customer to wash off food debris and to prepare another basket whilst one is being washed inside machine therefore maximising output per hour.

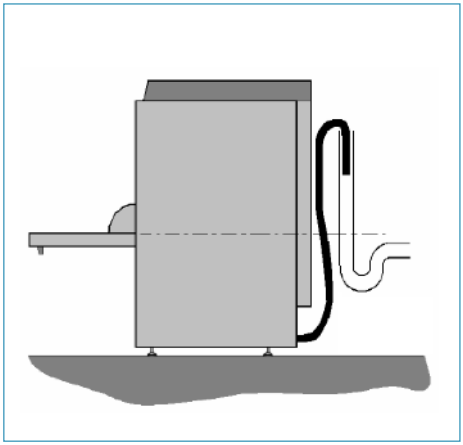
Once your customer has chosen the right size machine

- Is there drainage available?
- Will a hot or cold water supply be available?
- Is there the correct electricity supply available for the machine?
- Does my machine require a water softener?
- Does my machine require a break tank?

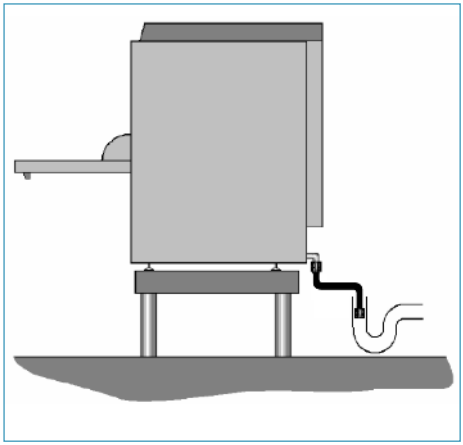
Most installation companies that will install the machine require the services to be within one metre of the machine position or additional charges will be made.

Does the machine require a drain pump?

When assessing the services these diagrams will help you customer to decide whether a drain pump is required:



Drain pump ***required*** when the drain is higher than the machine outlet



Gravity drainage – no drain pump required.

Water pressure

For excellent wash and rinse results the water pressure should be a minimum of 2bar and a maximum of 4bar. If this is not the case you should consider a booster pump for low pressures or pressure reducing valve for high pressures.

Electrical supply

Under counter glasswashers with a 350mm basket up to 400mm basket should operate well on a 13amp.

Under counter glasswashers and dishwashers that have a 450mm basket or 500 basket on 13 amps should ideally have a hot fill (approx between 45 to 50 degrees).

Pass through machines will work on single phase or three phase electricity (ratings can be found inside the product guide).

Minirack, rack, and flight machines all work on three phase electricity.

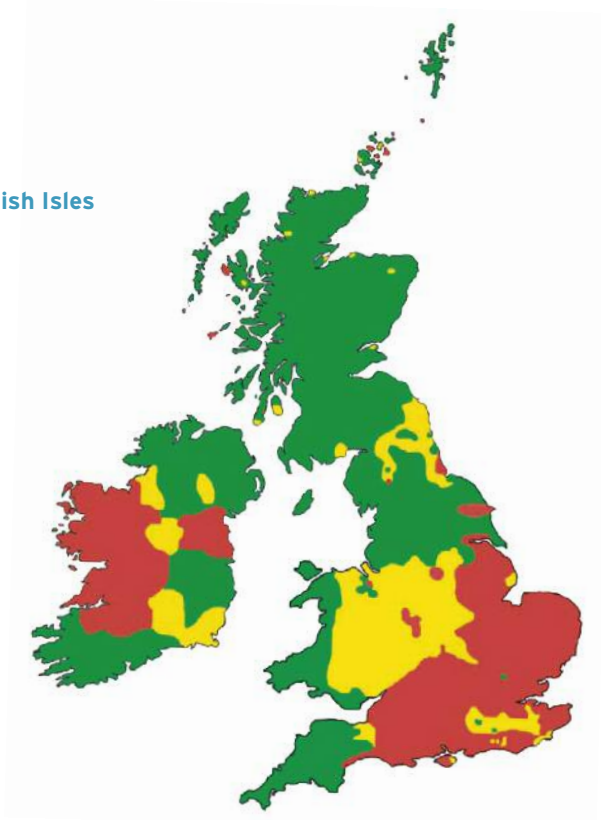
Water Softeners

Water Hardness in the British Isles

Soft Water

Medium Water

Hard Water



Please note: Map prepared by Waterwise and based on generalised data from water companies. Hardness does vary from postcode to postcode so please contact the water supply company for specific information in your area.

There are various types and sizes of water softeners, depending on the consumption and hardness of the water supplied. All areas will require a water softener, but the size will depend on the hardness of water and usage. The following is a guide for soft to medium hardness areas. Hard water areas may require a greater capacity softener.

Manual Softeners

These softeners require a regeneration process, which takes approximately 30-40 minutes per cycle, and will only be required once a week (except in hard water areas).

- Under counter machine – 350-450mm basket – 8 litre softener
- Under counter machine – 500mm basket – 12 litre softener
- Pass through – 16 litre softener

Automatic Softeners

An automatic softener runs an independent regeneration cycle, which requires an independent 13 amp socket. The only requirement from the operator is to fill the unit with salt once a week (dependent on area and usage).

- Pass through (cold water) – 10 litre softener code number Q900100
- Pass through (hot water) – softener code number Q900104
- Minirack as above whether hot or cold fill

Integral Softeners

Integral water softeners are included with D500WS, D500WSD, Evolution 510WS and Evolution 2025WS machines. (Not recommended for water hardness above 35 degrees clark).

Water Board regulation

A "class A" break tank separates the incoming water supply from the machine, preventing soiled water being pushed back into the water supply. WRAS regulations require category 4 and 5 sites to have a breaktank between the water mains and the appliance to prevent back siphonage and contamination of the mains for dishwashers. Category 4 covers most catering establishments. Category 5 covers high risk institutions (e.g. hospitals, schools and nursing homes). Some machines have a breaktank included, but if not one will need to be fitted if installing in a category 4 or 5 site to comply with the legal requirements. (Glasswasher or category 3 only do not require breaktanks).

Once you have established the answers to the above and narrowed the customer's choice, please refer to the following *Technical Specifications* and the *Product Guide* for details of features and benefits of each range to make a final selection.

Machine selection guide

Amika	–	No frills range of solid and reliable products with one years warranty
C-range	–	Push button controls, best selling range with two years warranty
D-range	–	Soft-touch controls with digital display and two years warranty
Evolution range	–	Eco-friendly machine, comprehensive information display with two years warranty
Minirack	–	Compact high capacity machines with full range of operational accessory modules

When looking in the product guide, the products are listed using the following coding:

Under counter machines

The first letter of the product code indicates the range of machine – e.g. a C350 product code indicates a C-range machine.

The number following the initial letter indicates the size of the basket in the machine – e.g. a D500 product code indicates a 500mm x 500mm basket. If the number has a 10 or 20 in it, this indicates that the machine is also supplied with a fitted breaktank – e.g. a C510 product code indicates a 500mm x 500mm basket, with a fitted breaktank.

Letters after the number indicate whether the machine comes with a drain pump and/or integral water softener – e.g. a D500WS product code indicates that the machine comes with an integral water softener, and a C400D product code indicates that the machine comes with a drain pump. A D500WSD comes with both. Please note that all Evolution under counter machines come with a fitted drain pump as standard, even though there is no "D" in the product code.

All under counter machines are fitted with detergent and rinse pumps as standard

Pass through machines

Pass through machines all come with a 500mm x 500mm basket, regardless of product code. However, the same 10/20 number principles apply for breaktanks, as above.

None of the pass through machines come with detergent or drain pumps (except the Evolution 2020, which comes with a drain pump), so these need to be ordered as an extra if required.

AMIKA GLASSWASHERS			3X	4X	5X	6XL	6XL B/T
PHYSICAL	Width	mm	400	440	530	580	580
	Width (excluding handle)	mm	x	x	x	x	x
	Height	mm	590	670	710	830	830
	Height (Hood open)	mm	x	x	x	x	x
	Depth	mm	485	525	550	635	650
	Depth (inc. handle)	mm	500	540	565	650	670
	Depth (door open)	mm	720	850	875	980	1000
	Weight	kg	29	34	48	64	66
	Cycle time	secs	180	180	90-150	90-150	90-150
RACKS	Size	mm	350	390	450	500	500
	Glasses per rack (pint)		12	16	20	25	25
	Max usable height	mm	180	260	265	280	280
	Racks supplied		1 Open	1 Open	1 Open	1 Open	1 Plate
	Racks per hour		24	24	40-24	40-24	40-24
WATER	Water inlet		3/4"	3/4"	3/4"	3/4"	3/4"
	Waste outlet (grav/pump)	mm	25/20	25/20	35/25	35/25	35/25
	Pressure min	bar	2	2	2	2	2
	Pressure max	bar	4	4	4	4	4
	Consumption per cycle	litres	2	2	2.5	3	3
	Wash tank capacity	litres	8	9	14	32	32
	Wash tank temp	°C	55	55	55	55	55
	Rinse boiler capacity	litres	2.6	2.6	3	6	6
	Rinse boiler temp	°C	85	85	85	85	85
ELECTRIC	Voltage	V	240	240	240	240/415	240/415
	Phase		Single	Single	Single	Single/three	Single/three
	Current (single phase)	amps	13	13	13	12/20/30	12/20/30
	Current (three phase)	amps	x	x	x	10	10
	Wash pump	kW	0.19	.24	0.33	0.6	0.6
	Wash tank element	kW	1.6	1.6	2.25	3	3
	Rinse boiler element	kW	2.6	2.6	2.6	2/4/6	2/4/6
	Total loading	kW	2.8	2.9	3	2.6/4.6/6.6	2.6/4.6/6.6
FEATURES	Rinsaid pump		Diaphragm	Diaphragm	Diaphragm	Diaphragm	Diaphragm
	Detergent pump		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
	Drain pump		Optional	Optional	Optional	Optional	Optional
	Internal Break-Tank		No	No	No	No	Yes
	Wash temperature adjustmnet		No	No	Yes	Yes	Yes
	Rinse temperature adjustment		Yes	Yes	Yes	Yes	Yes
	Thermostop		Optional	Optional	Optional	Optional	Optional
	Wash arm		Plastic	Plastic	Plastic	Plastic	Plastic
	Rinse arm		Plastic	Plastic	Plastic	Plastic	Plastic

3X 4X 5X 6XL & 6XL BT

WAREWASHING PRODUCT SELECTOR

AMIKA DISHWASHERS			5X	6XL	6XL B/T	8XL	9XL B/T
PHYSICAL	Width	mm	530	580	580	725	725
	Width (excluding handle)	mm	x	x	x	635	635
	Height	mm	710	830	830	1455/1515	1455/1515
	Height (Hood open)	mm	x	x	x	1890/1950	1890/1950
	Depth	mm	550	635	650	750	750
	Depth (inc. handle)	mm	565	650	670	820	820
	Depth (door open)	mm	875	980	1000	x	x
	Weight	kg	48	64	66	100	106
	Cycle time	secs	90-150	90-150	90-150	90-150	90-150
RACKS	Size	mm	450	500	500	500	500
	Glasses per rack (pint)		20	25	25	25	25
	Max usable height	mm	265	280	280	400	400
	Plates per rack		x	16	16	16	16
	Racks supplied		1 Open	1 Open	1 Plate	1Plate	1Plate
	Racks per hour		40-24	40-24	40-24	40-24	40-24
WATER	Water inlet		3/4"	3/4"	3/4"	3/4"	3/4"
	Waste outlet (grav/pump)	mm	35/25	35/25	35/25	35/25	35/25
	Pressure min	bar	2	2	2	2	2
	Pressure max	bar	4	4	4	6	6
	Consumption per cycle	litres	2.5	3	3	3.2	3.2
	Wash tank capacity	litres	14	32	32	20	20
	Wash tank temp	°C	55	55	55	55	55
	Rinse boiler capacity	litres	3	6	6	12	12
	Rinse boiler temp	°C	85	85	85	85	85
ELECTRIC	Voltage	V	240	240/415	240/415	240/415	240/415
	Phase		Single	Single/three	Single/three	Single/three	Single/three
	Current (single phase)	amps	13	12/20/30	12/20/30	24	20
	Current (three phase)	amps	x	10	10	12	10
	Wash pump	kW	0.33	0.6	0.6	0.47	0.47
	Wash tank element	kW	2.25	3	3	1.4	1.4
	Rinse boiler element	kW	2.6	2/4/6	2/4/6	5.3/1 8/3	4/6
	Total loading	kW	3	2.6/4.6/6.6	2.6/4.6/6.6	6.5/1 9.1/3	4.5/6.5
FEATURES	Rinsaid pump		Diaphragm	Diaphragm	Diaphragm	Diaphragm	Diaphragm
	Detergent pump		Peristaltic	Peristaltic	Peristaltic	Optional	Optional
	Drain pump		Optional	Optional	Optional	Optional	Optional
	Internal Break-Tank		No	No	Yes	No	Yes
	Wash temperature adjustment		Yes	Yes	Yes	No	Yes
	Rinse temperature adjustment						
	Thermostop		Yes	Yes	Yes	Yes	Yes
	Energy saving						
	Fast Heat		Optional	Optional	Optional	Optional	Optional
	Wash arm		x	x	x	x	Yes
	Rinse arm		x	x	x	x	Yes
			Plastic	Plastic	Plastic	Plastic	Plastic
			Plastic	Plastic	Plastic	Plastic	Plastic

8XL & 9XL BT

6XL BT

6XL

5X

C RANGE GLASSWASHERS			C350	C400	C450	C500
PHYSICAL	Width	mm	400	435	530	575
	Height	mm	580	670	705	830
	Depth	mm	475	530	56	600
	Depth (door open)	mm	715	820	875	960
	Weight	kg	30	32	48	63
	Cycle time	secs	180	180	90-150	60-180
RACKS	Size	mm	350	390	450	500
	Glasses per rack (pint)	no.	12	16	20	25
	Max useable height	mm	190	250	265	280
	Racks supplied	no.	2	2	2	2
	Racks per hour	no.	24	24	24-40	20-60
WATER	Water inlet		3/4"	3/4"	3/4"	3/4"
	Waste outlet (grav/pump)		25	25	25	25
	Pressure min	bar	2	2	2	2
	max	bar	4	4	4	4
	Consumption per cycle	litres	2	2	2.5	3
	Wash tank capacity	litres	5.7	7	20	33
	Wash tank temp	°C	55	55	55	55
	Rinse boiler capacity	litres	2.6	2.6	3	6
	Rinse boiler temp	°C	85	85	85	85
ELECTRIC	Voltage	v	240	240	240	240
	Phase		Single	Single	Single	Single
	Current	amps	13	13	13	13/20/30
	Wash pump	kW	0.14	0.2	0.3	0.6
	Wash tank element	kW	1.6	1.6	2.25	2.3
	Rinse boiler element	kW	2.6	2.6	2.6	2/4/6
	Total loading	kW	2.8	2.8	2.9	2.6/4.6/6.6
FEATURES	Rinsaid pump		Diaphragm	Diaphragm	Diaphragm	Diaphragm
	Detergent pump		Peristaltic	Peristaltic	Peristaltic	Peristaltic
	Drain pump		Optional	Optional	Optional	Optional
	Internal break tank		No	No	No	No

C RANGE DISHWASHERS			C500	C510	C1000	C1010
PHYSICAL	Width	mm	575	575	716	716
	Width (excluding handle)	mm	-	-	635	635
	Height	mm	830	830	1449/1509	1449/1509
	Height (hood open)	mm	-	-	1885/1945	1885/1945
	Depth	mm	600	625	740	740
	Depth (inc. handle)	mm	-	-	810	810
	Depth (door open)	mm	960	985	-	-
	Weight	kg	63	64	120	120
	Cycle time	secs	60-180	60-180	60-120	60-120
RACKS	Size	mm	500	500	500	500
	Glasses per rack (pint)	no.	25	25	25	25
	Max useable height	mm	280	280	400	400
	Racks supplied	no.	2	2	2	2
	Racks per hour	no.	20-60	20-60	30-60	30-60
WATER	Water inlet		3/4"	3/4"	3/4"	3/4"
	Waste outlet (grav/pump)		25	25	35/25	35/25
	Pressure min	bar	2	2	2	2
	max	bar	4	4	4	4
	Consumption per cycle	litres	3	3	3	3
	Wash tank capacity	litres	33	33	20	20
	Wash tank temp	°C	55	55	55	55
	Rinse boiler capacity	litres	6	6	12	12
	Rinse boiler temp	°C	85	85	85	85
ELECTRIC	Voltage	v	240	240	240	240
	Phase		Single	Single	Single/three	Single/three
	Current	amps	13/20/30	13/20/30	30/1 10/3	30/1 10/3
	Wash pump	kW	0.6	0.6	0.8	0.8
	Wash tank element	kW	2.3	2.3	3.0	3.0
	Rinse tank element	kW	2/4/6	2/4/6	6.0	6.0
	Total loading	kW	2.6/4.6/6.6	2.6/4.6/6.6	6.8/1 6.8/3*	6.8/1 6.8/3*
FEATURES	Rinsaid pump		Diaphragm	Diaphragm	Diaphragm	Diaphragm
	Detergent pump		Peristaltic	Peristaltic	Optional	Optional
	Drain pump		Optional	Optional	Optional	Optional
	Internal break tank		No	No	No	Yes

*Available 4.8kW (20amps) single phase

WAREWASHING PRODUCT SELECTOR

D RANGE GLASSWASHERS			D350	D400	D450	D500
PHYSICAL	Width	mm	400	435	525	575
	Height	mm	625	670	695	815
	Depth	mm	475	530	560	610
	Depth (inc. handle)	mm	495	550	580	635
	Depth (door open)	mm	775	870	875	955
	Weight	kg	30	36	47	63
	Cycle time	secs	150	150	150	60-120-180 + R Setting
RACKS	Size	mm	350	390	450	500
	Glasses per rack (pint)		12	16	20	25
	Max usable height	mm	250	290	260	280
	Plates per rack		x	x	x	16
	Racks supplied		2 Open	2 Open	2 Open	1 Open 1 Plate
	Racks per hour		24	24	24	60-30-20
WATER	Water inlet		3/4"	3/4"	3/4"	3/4"
	Waste outlet (grav/pump)	mm	20	20	25/20	25/20
	Pressure min	bar	2	2	2	2
	max	bar	4	4	4	4
	Consumption per cycle	litres	2	2	2.5	3
	Wash tank capacity	litres	9	11	24	33
	Wash tank temp	oC	55	55	55	55
	Rinse boiler capacity	litres	2.6	2.6	2.6	6
	Rinse boiler temp	oC	85	85	85	85
ELECTRIC	Voltage	v	240	240	240	240
	Phase		Single	Single	Single	Single
	Current (options)	amps	13	13	13	13/20/30
	Wash pump	kW	0.14	0.25	0.33	0.8
	Wash tank element	kW	1.6	1.6	2.3	2
	Rinse boiler element	kW	2.6	2.6	2.6	2/4/6
	Total loading	kW	2.8	2.9	3	2.8/4.8/6.8
FEATURES	Rinsaid pump		Diaphragm	Diaphragm	Diaphragm	Peristaltic
	Detergent pump		Peristaltic	Peristaltic	Peristaltic	Peristaltic
	Drain pump		Optional	Optional	Optional	Optional
	Internal Breaktank		No	No	No	No
	Temperature adjustment		Yes	Yes	Yes	Yes
	Thermostop		Selectable	Selectable	Selectable	Selectable
	Energy saving		Selectable	Selectable	Selectable	Selectable
	Fast Heat		Selectable	Selectable	Selectable	Selectable
	Wash arm		Plastic	Plastic	Plastic	Plastic S/S
	Rinse arm		Plastic	Plastic	Plastic	Plastic S/S

D350 D400 D450 D500

D RANGE DISHWASHERS			D500	D510	D1000	D2020
PHYSICAL	Width	mm	575	575	710	710
	Width (excluding handle)		x	x	635	635
	Height	mm	815	815	1510/1565	1510/1565
	Height (hood open)		x	x	1945/2000	1945/2000
	Depth	mm	610	635	740	740
	Depth (including handle)		635	660	810	810
	Depth (door open)	mm	955	980	x	x
	Weight	kg	63	64	120	144
	Cycle time	secs	60/120/180 + R Setting	60/120/180 Continuous	60/120/180 Continuous	60-110-150 Continuous
RACKS	Size	mm	500	500	500	500
	Glasses per rack (pint)		25	25	25	25
	Max useable height	mm	280	280	400	400
	Plates per rack		18	18	18	18
	Racks supplied		1 Open 1 Plate	1 Open 1 Plate	1 Open 1 Plate	1Open 2Plate
	Racks per hour		60-30-20	60-30-20	60-30-20	60-33-24
WATER	Water inlet		3/4"	3/4"	3/4"	3/4"
	Waste outlet	mm	25/20	25/20	35/25	35/25
	Pressure min	bar	2	2	2	2
	max	bar	4	4	4	4
	Consumption per cycle	litres	3	3	3	3
	Wash tank capacity	litres	33	33	20	20
	Wash tank temp	°C	55	55	55	55
	Rinse boiler capacity	litres	6	6	12	12
	Rinse boiler temp	°C	85	85	85	85
ELECTRIC	Voltage	v	240	240	240/415	240/415
	Phase		Single	Single	Single/three	Single/three
	Current (options)	amps	13/20/30	13/20/30	20/1 10/3	28/1 13/3
	Wash pump	kW	0.8	0.8	0.8	1.1
	Wash tank element	kW	2	2	3	3
	Rinse boiler element	kW	2/4/6	2/4/6	4/1 6/3	5.3/1 8/3
	Total loading	kW	2.8/4.8/6.8	2.8/4.8/6.8	4.8/1 6.8/3	6.4/1 9.1/3
FEATURES	Rinsaid pump		Peristaltic	Peristaltic	Diaphragm	Diaphragm
	Detergent pump		Peristaltic	Peristaltic	Optional	Optional
	Drain pump		Optional	Optional	Optional	Optional
	Internal breaktank		No	Yes	No	Yes
	Temperature adjustment		Yes	Yes	Yes	Yes
	Thermostop		Selectable	Selectable	Selectable	Selectable
	Energy saving		Selectable	Selectable	Selectable	Selectable
	Fast heat		Selectable	Selectable	Selectable	Selectable
	Wash arm		Plastic/SS	Plastic/SS	Stainless	Stainless
	Rinse arm		Plastic/SS	Plastic/SS	Plastic/SS	Plastic S/S

D1000

D2020
(shown with tabling, sink and pre-wash spray arm - not included)

D500

D510

WAREWASHING PRODUCT SELECTOR

EVOLUTION GLASS & DISHWASHERS			EVO 500	EVO 510	EVO 510WS	EVO 1010	EVO 2020
PHYSICAL	Width	mm	600	600	600	706	706
	Width (excluding handle)	mm	-	-	-	640	640
	Height (including feet)	mm	720	820	820	1510/1565	1510/1565
	Height (hood open)	mm	-	-	-	1930/1985	1930/1985
	Depth	mm	600	600	600	740	740
	Depth (inc. handle)	mm	640	640	640	800	800
	Depth (door open)	mm	925	1020	1020	-	-
	Weight	kg	62	65	66	118	140
	Cycle times - adjustable	secs	90-120	90-120-180	90-120-180	60-120-180	60-120-180
RACKS	Size	mm	500	500	500	500	500
	Glasses per rack (pint)		25	25	25	25	25
	Max usable height	mm	265	360	360	400	400
	Plates per rack		16	16	16	18	18
	Racks supplied		1Open 1Plate	1Open 1Plate	1Open 1Plate	1Open 1Plate	1Open 1Plate
	Racks per hour		40-30	60-30-20	60-30-20	60-30-20	60-30-20
WATER	Water inlet		3/4"	3/4"	3/4"	3/4"	3/4"
	Waste outlet (grav/pump)	mm	25/20	25/20	25/20	35/25	35/25
	Pressure min	bar	2	2	2.5	2	2
	Pressure max	bar	4	4	4	4	4
	Consumption per cycle	litres	2.3	2.3	2.3	2.4	2.4
	Wash tank capacity	litres	15	15	15	20	20
	Wash tank temp	deg C	45 to 65	45 to 65	45 to 65	45 to 65	45 to 65
	Rinse boiler capacity	litres	6	6	6	6	6
	Rinse boiler temp	deg C	65 to 90	65 to 90	65 to 90	65 to 90	65 to 90
ELECTRIC	Voltage	V	240	240	240	240/415	240/415
	Phase		Single/three	Single/three	Single/three	Single/three	Single/three
	Current - single phase	amps	13/21/30	13/21/30	13/21/30	16to26/1 13/3	16to30/1 13/3
	Wash pump	kw	0.6	0.6	0.6	0.8	1.1
	Wash tank element	kw	1.4	1.4	1.4	3	3
	Rinse tank element	kw	2.2/4.4/6.6	2.2/4.4/6.6	2.2/4.4/6.6	2.7/5.3/8	2.7/5.3/8
	Total loading	kw	2.8/5/7.2	2.8/5/7.2	2.8/5/7.2	6.2(1), 8.8(3)	6.5(1), 9.1(3)
FEATURES	Rinse aid pump		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
	Detergent pump		Peristaltic	Peristaltic	Peristaltic	Optional	Optional
	Drain pump - as standard		Yes	Yes	Yes	Optional	Yes
	Drain system MDS		No	No	No	Optional	No
	Drain system MDT		Yes	Yes	Yes	No	Yes
	Internal Break-Tank		No	Yes	Yes	Yes	Yes
	MRT (Maidaid Rinse Technology)		Yes	Yes	Yes	Yes	Yes
	MWT (Maidaid Wash Technology)		Yes	Yes	Yes	Yes	Yes
	Temperature adjustment		Yes	Yes	Yes	Yes	Yes
	Thermostop		Selectable	Selectable	Selectable	Selectable	Selectable
	Energy saving		Selectable	Selectable	Selectable	Selectable	Selectable
	Fast heat		Selectable	Selectable	Selectable	Selectable	Selectable
	Wash arm		Co-polymer	Co-polymer	Co-polymer	Co-polymer	Co-polymer
	Rinse arm		Co-polymer	Co-polymer	Co-polymer	Co-polymer	Co-polymer
	Water softener - ECS (Continuous)		No	No	Yes	No	No

EVO 500 EVO 1010 EVO 510

MINIRACK			R3000	R3002	R3003	R3004
PHYSICAL	Width	mm	1150	1150	1970	1970
	Height	mm	1565±30	1565±30	1565±30	1565±30
	Height with door open	mm	2025±30	2025±30	2025±30	2025±30
	Depth	mm	770	770	770	770
	Weight	kg	225	230	350	360
RACKS	Size	mm	500	500	500	500
	Racks per hour	No.	50-100	50-100-130	65-130-170	85-170-220
	Dishes per hour - max	No.	1800	2340	3060	3960
	Inlet clearance	mm	400	400	400	400
WATER	Water inlet	bsp	3/4"	3/4"	3/4"	3/4"
	Pressure min	bar	1.5	1.5	1.5	1.5
	Pressure max	bar	4	4	4	4
	Drain spigot	mm	50Ø	50Ø	50Ø	50Ø
	Minimum consumption per rack	litres	2	1.8	1.8	1.8
	Consumption - continuos running	litres/hour	200	230	310	400
	Wash tank capacity	litres	70	70	70	70
	Wash tank temp - adjustable	ºC	55	55	55	55
	Pre-wash tank capacity	litres	-	-	45	45
	Rinse boiler capacity	litres	14	14	14	14
	Rinse boiler temp - adjustable	ºC	80	80	80	80
ELECTRIC	Voltage	V	415	415	415	415
	Phase		3 + N	3 + N	3 + N	3 + N
	Wash pump(s)	kW	1.1	1.1	1.1 x 2	1.1 x 2
	Wash tank element	kW	8	8	8	8
	Rinse boiler elements - Hot water supply	kW	12	16	21	24
	Rinse boiler elements - Cold water supply	kW	22	26	30	31
	Total loading - hot water supply 50ºC *	kW (amps)	14 (20)	18 (26)	21 (30)	24 (34)
	Total loading - hot water supply 15ºC *	kW (amps)	23 (33)	27 (38)	31 (44)	34 (48)
FEATURES	Auto or manual start selectable		selectable	selectable	selectable	selectable
	Thermal interlock		selectable	selectable	selectable	selectable
	Wash/rinse heating in tandem selectable		selectable	selectable	selectable	selectable
	Fast heat		selectable	selectable	selectable	selectable
	Detergent/rinse-aid dosing		optional	optional	optional	optional
	Wash arms - water blades		Stainless	Stainless	Stainless	Stainless
	Rinse arms		Stainless	Stainless	Stainless	Stainless
ACCESSORIES						
DRYER	Air movement	m^3/hr	1,150	1,150	1,150	1,150
	Voltage	V	415	415	415	415
	Phase		3	3	3	3
	Heating elements	kW (amps)	6 (8.5)	6 (8.5)	6 (8.5)	6 (8.5)
	Fan power	kW	0.4	0.4	0.4	0.4
STEAM CONDENSER	Air movement	m^3/hr	700	700	700	700
	Fan power	kW	0.2	0.2	0.2	0.2
	Cold water consumption	litres/hour	250	250	250	250
HEAT RECOVERY	Air movement	m^3/hr	700	700	700	700
	Fan power	kW	0.2	0.2	0.2	0.2
	Potential energy recovery	kW	5	5	5	5

* Total loading is for non tandem operation

R3000
(Illustration shown with tabling - not included)

R3003
(Illustration shown with tabling - not included)

Dishwasher/Glasswasher Care

BEFORE PLACING GLASSES INTO THE GLASSWASHER, YOU MUST:

- **MANUALLY REMOVE LIPSTICK**
- **DISCARD ANY DRINK RESIDUES INTO THE SINK**
- **Food debris should be removed before placing plates inside the machine**

OPERATION – CABINET GLASSWASHER ONLY

1. Ensure that the machine is up to temperature
2. Fill basket. ONLY GLASSES! No coffee cups or ashtrays
3. Put in basket, close door and run cycle.
4. Check glasses at end of cycle.

   Is water running off glass as a clear sheet? – This is correct

   Can you see droplets sticking to the surface? – This is incorrect and indicates there is a problem – see ***Renovation*** below.
5. Always use a specially formulated glass washing detergent and rinse aid.

DAILY MAINTENANCE PROCEDURE – DISHWASHERS & GLASSWASHERS

1. Switch off power
2. Remove basket
3. Drain machine
4. Remove and clean filters
5. Top up chemicals
6. Leave door open overnight

WEEKLY MAINTENANCE PROCEDURE – DISHWASHERS & GLASSWASHERS

1. Remove wash arms
2. Remove and clean jets and nozzles
3. Re-assemble
4. Clean machine by running cycle with Renovate
5. Regenerate water softener (if fitted)

RENOVATION – DISHWASHERS & GLASSWASHERS

- New Glasses may be coated in lubricant used in glass manufacture. To remove these, RENOVATE ALL NEW GLASSES BEFORE USE.
- Sugars, Proteins, Hop Resins and Detergent residues may gradually build up a film on the glass which may cause the beer foam to collapse. TO PREVENT THIS GLASSES SHOULD BE RENOVATED REGULARLY.

Troubleshooting

Machine does not start. Machine does not rinse. Machine does not fill.

- Check water supply is turned ON.
- Check water supply hose is not trapped or kinked.
- Check that the appliance is switched ON.
- Drain appliance fully, then try again to fill the machine.

Machine fills slowly

- Check water supply tap is fully open.
- Check water supply pressure, should be above 2 bar, if not a booster pump is required to increase water pressure.
- Check and clean rinse jets (rinse jets will always be the smaller jets in any system).
- Check water supply hose is not trapped or kinked.
- Adjust any pressure regulator or reducer from the water supply.

Machine not draining

- Check and clean all filters within the appliance.
- Check that the stand pipe/drain is not clogged/ blocked.

Poor wash results

- Check and replenish chemicals.
- Check and clean wash and rinse jets on wash arm assembly.
- Clean filters within appliance and check that they are fitted correctly.
- Check water supply is ON and fully open.
- Rinse dishes of any food debris before placing into the dishwasher.
- Glasses may need to be renovated.
- If a water softener is fitted, replenish the salt within the softener, as per the water softener instructions.

Foaming

- Check if domestic washing up liquid has been introduced into the machine. Are items pre-washed in domestic washing up liquid before going into machine?
- Ensure the detergent and rinse aid tubes are going to the correct product and the correct product is in the containers.

Overfilling

- Drain appliance fully, then try again to fill the machine.
- Check and clean all filters within the appliance.
- Check that the stand pipe/drain is not clogged/ blocked.

Will not switch ON

- On a 13 amp appliance check and replace the fuse in the plug, ensuring the replacement fuse is of the correct rating. Should the fuse blow again then a technician is required to check the machine.
- On other amperage appliances check and reset the circuit breaker within the site's fuse board.
- If any problems persist then contact a qualified warewashing engineer for assistance.

All Maidaid Halcyon equipment carries the European 'CE' identification. The 'CE' mark signifies that all glasswashers and dishwashers will have been subjected to a thorough examination of all circuitry, components, electromagnetic compatibility and overall safety.

maidaid halcyon

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