

Winterhalter CTR Series

The rack conveyor dishwasher CTR is the perfect partner in your kitchen, when it comes to high outputs in limited spaces. Because it combines in many housing variations a maximum of flexibility and individual handling solutions with capacities up to 195 racks/h. Therefore it represents a real compact alternative to a multiple tank rack conveyor.

The concept of the proven Winterhalter hygiene design has been optimised in many details: for example forced up cleaning performance due to a more powerful wash pump and an additional bottom wash arm, improved water distribution and furthermore a full-covering wash jet set-up. Revised distances between the separate processes in the machine and boosted hygiene tank heating power stand for a marvellous cleaning result.

Due to its three selectable (and individually adjustable) rack capacities the CTR can be easily adapted to different amounts of dishes and their degree of soiling – just by the push of a button. In addition, a hygiene mode that can be pre-set: If the tank or boiler temperature falls below the set value, the machine automatically reduces the transport speed, thus guaranteeing a hygienic wash.

Besides all that, the rack controlled zone activation fits the operation of the machine's zones automatically to a varying utilisation and hence to any individual use: wash systems and fresh water rinse are only active, if a rack is actually in the machine. This avoids unnecessary noise and heat emissions and reduces the running costs equally sustainable as the enduring speed-dependent adjustment of rinse water volume.

The wide power spectrum of the CTR is completed by the following features: its exemplary serviceability and ergonomic cleaning and operation philosophy, as well as many retrofittable options.

Standard equipment (extraction):

- Drain pump
- WLAN connection (CONNECTED WASH)
- Speed dependant rinse water quantity from 130 l/h (on 100 % utilisation)
- Selectable running direction: left-right or right-left
- From on-site water pressure independent fresh water rinse
- Hygiene equipment:
 - Hygiene mode
 - Hygiene logbook
 - Hygiene rear panel
 - Deep drawn hygiene tank
 - 180° pivoting hygiene door
 - Hygiene tank heating elements
 - Quadruple filtration system incl. Mediamat
- Double-skinned machine front, closed base cover
- Colour touch screen on ergonomic height and on inlet side
- Colour coded start button; error and temperature indication



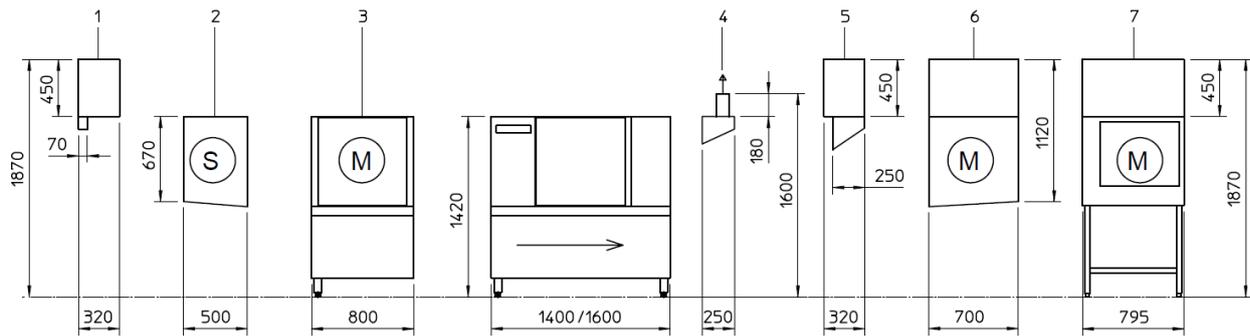
Customer benefits:

- Modern design
- Lowest operational costs
- Reliably perfect wash result
- Versatile and flexible range of use
- Outstanding serviceability, minimal cleaning effort
- Language-independent, as well as comfortable and ergonomic operation
- Retrofittable zones and other optional equipment available in case of modified conditions on site

Optional Equipment (extraction):

- Exhaust air adapter
- Pre-wash zone S or M
- Straight or corner drying zone
- Exhaust air heat recovery Energy
- Dual rinse incl. pumped rinse (CTR L)
- Detergent and rinse aid dosing pump PPX
- Increased boiler heating power on cold water connection
- Alternative working height (850 mm, 950 mm) or mounting on a plinth
- 90° corner entry
- 90° mechanical inlet corner conveyor
- 90° / 180° outlet corner conveyor (mechanical or electrical)

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- 1 Energy (inlet side in combination with drying zone)
- 2 Pre-wash zone S
- 3 Pre-wash zone M
CTR M / L

- 4 Exhaust air adapter (outlet side only; w/o drying zone/Energy)
- 5 Energy (outlet side only in combination w/o any drying zone)
- 6 Straight drying zone -M
- 7 Corner drying zone -M

Measurements [mm]

Machine depth	800
Depth with open door (90°)	1,480
Clear entry height	450
Entry width / clear entry width	510 / 530
Rack size	500 x 500
Fresh water connection	G ¾"
Waste water hose connection	ø 40/50
Adjustment range feet	+35 / -10

Weights [approx. kg]

CTR M	212 / 264
CTR L	244 / 296
Pre-wash zone S	37 / 84
Pre-wash zone M	128 / 177
Straight drying zone -M	61 / 109
Corner drying zone -M	110 / 158
Energy	38 / 40

net/gross

Theoretical capacity [racks/h]

	Max DIN speed ¹	Factory setting
CTR M	100	50 / 75 / 120
CTR SM	140	70 / 100 / 150
CTR MM	125	90 / 125 / 185
CTR L	87	60 / 85 / 130
CTR SL	117	80 / 110 / 160
CTR ML	135	100 / 135 / 195

Water

Rinse water quantity (on 100 % utilisation) ²	130 – 260 l/h
Flow pressure (150 – 600 kPa)	1.5 – 6.0 bar
Throughput	8.0 – 15.0 l/min.
Inlet temperature	10 – 60 °C
Inlet temperature Energy	10 – 20 °C
Tank content (initial fill) CTR M / L	75 l / 83 l
Tank content (initial fill) CTR MM / ML	128 l / 136 l
Circulation capacity wash pump CTR M / L	630 l/min
Circulation capacity wash pump CTR SM / SL	680 l/min
Circulation capacity wash pump pre-wash zone M	250 l/min
Circulation capacity pumped rinse	24 l/min

Residual heat emissions³ [in kW]

	sensible	latent
CTR M (-M)	3,8 (4,5)	1,9 (2,2)
CTR M Energy (-M)	4,5 (5,4)	1,1 (1,3)
CTR SM (-M)	3,8 (4,5)	1,9 (2,2)
CTR SM Energy (-M)	4,5 (5,4)	1,1 (1,3)
CTR MM (-M)	3,8 (4,5)	1,9 (2,3)
CTR MM Energy (-M)	4,6 (5,4)	1,1 (1,4)
CTR L (-M)	3,8 (4,5)	1,9 (2,2)
CTR L Energy (-M)	4,5 (5,4)	1,1 (1,3)
CTR SL (-M)	3,8 (4,5)	1,9 (2,2)
CTR SL Energy (-M)	4,5 (5,4)	1,1 (1,3)
CTR ML (-M)	3,8 (4,5)	1,9 (2,3)
CTR ML Energy (-M)	4,6 (5,4)	1,1 (1,4)

Weight per foot [approx. kg; ready for operation]

CTR M (-M)	81 (97)
CTR SM (-M)	91 (106)
CTR MM (-M)	90 (100)
CTR L (-M)	89 (105)
CTR SL (-M)	99 (114)
CTR ML (-M)	95 (105)

General

Operator position noise emission LpA (measuring inaccuracy KpA: 4 dB)	< 70 dB(A)
Conformity: CB, SVGW, WRAS	

Electrical values [@ 400 V]

Type of machine	Total connected load from [kW] ⁴	Power (corner) drying zone [kW]
CTR M / L	27.4 / 27.7	4.5
CTR SM / SL	27.4 / 27.7	4.5
CTR MM / ML	28.0 / 28.3	4.5

¹ All rack capacities can be independently and individually adjusted on site by a Winterhalter certified technician. An alteration is possible between 50 and 195 racks/h.

² Non-binding information. The actual rinse water consumption may vary depending on the on-site conditions, chosen conveyor speed and individual adjustment.

³ At an utilisation of the machine of 80 %.

⁴ The total connected load depends on on-site conditions and optional equipment. The individual value gets correctly calculated after a completed configuration of the machine.