

General 1

Standard

			MTR 2-120 MM	MTR 2-155 LM	MTR 2-155 SMM	MTR 3-185 MMM	MTR 3-215 MLM / LMM	MTR 3-250 LLM	MTR 4-250 MMMM	MTR 4-285 MMLM	MTR 4-285 MLMM	MTR 4-285 LMMM	MTR 4-315 MLLM	MTR 4-315 LLMM	MTR 4-315 LMLM	MTR 4-350 LLLM
Theoretical capacity of machine *	Intensive programme	racks / hr.	50/ 70/ 75	65/ 85/ 100	80/ 105/ 120	90/ 120/ 135	105/ 140/ 160	120/ 165/ 185	135/ 180/ 200	150/ 200/ 225						
	Standard programme	racks / hr.	75/ 85/ 105	100/ 110/ 130	120/ 135/ 160	135/ 155/ 185	160/ 180/ 215	185/ 205/ 245	200/ 225/ 270	225/ 250/ 300						
	Rapid programme	racks / hr.	105/ 110/ 120	130/ 140/ 155	160/ 175/ 185	185/ 200/ 215	215/ 230/ 250	245/ 265/ 285	270/ 295/ 315	300/ 325/ 350						

HighTemp

Theoretical capacity of machine *	Intensive programme	racks / hr.	50	65	80	90	105	120	135	150
	Standard programme	racks / hr.	75	100	120	135	160	185	200	225
	Rapid programme	racks / hr.	115	130	155	170	210	240	250	300

* The factory setting in the standard programme fulfils the contact period of two minutes required by DIN 10510

General 2

		MTR 2-120 MM	MTR 2-155 LM	MTR 2-155 SMM	MTR 3-185 MMM	MTR 3-215 MLM / LMM	MTR 3-250 LLM	MTR 4-250 MMMM	MTR 4-285 MMLM	MTR 4-285 MLMM	MTR 4-285 LMMM	MTR 4-315 MLLM	MTR 4-315 LLMM	MTR 4-315 LMLM	MTR 4-350 LLLM	
Number of washing tanks in conformance with DIN 10510		2	2	2	3	3	3	4	4	4	4	4	4	4	4	
Number of water connections	Softened water	1 (G ¾")					2 (G ¾")									
	Demineralised water (optional)	1 (G ¾")														
Water drain	on machine	mm	DN 50													
	provided by customer, with siphon	mm	DN 70													
Minimal flow rate	l/min	15														
Water flow pressure required behind foregoing water treatment	bar (kPa)	1.0 – 6.0 (100 - 600)														
Noise emission	L _{pAeq} (related to place of work)	dB(A)	< 70													
Splash guard	back panelling essential when machine is not placed against a wall		IP X5													

General dimensions

Length of machine	without drying zone, with inlet tunnel (175 mm)	mm	1575	1925	1925	2275	2625	2975	2975	3325	3325	3325	3675	3675	3675	4025
Total length of system			calculated as the length of the machine plus drying zone / blowing-out zone													
Depth of machine	door closed / door open	mm	800 / 1480													
Height of machine, incl. air vents (140 mm)	without heat recovery	mm	1910													
	with heat recovery	mm	2010													
Loading height	with rack	mm	460													
Loading width		mm	500													
Rack size		mm	500 x 500													
Ground clearance		mm	150													
Working height	other working heights upon request	mm	900													

Technical Data

Rack Conveyor Dishwashers MTR with / without heat recovery Rack Conveyor Dishwashers MTR with heat pump Climate / Climate⁺

Technical specifications subject to change without notice

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Pre-wash zone

			MTR 2-120 MM	MTR 2-155 LM	MTR 2-155 SMM	MTR 3-185 MMM	MTR 3-215 MLM / LMM	MTR 3-250 LLM	MTR 4-250 MMMM	MTR 4-285 MMLM	MTR 4-285 MLMM	MTR 4-285 LMMM	MTR 4-315 MLLM	MTR 4-315 LLMM	MTR 4-315 LMLM	MTR 4-350 LLLM
Length	S: Small; M: Medium; L: Large	mm	-	-	350 (S)	700 (M)	700 (M) 1050 (L)	1050 (L)	700 (M)	700 (M)	700 (M)	1050 (L)	700 (M)	1050 (L)	1050 (L)	1050 (L)
Tank capacity		l	-	-	-											85
Tank temperature *	in conformance with DIN 10510	°C	-	-	-											40 - 50
Circulation rate		l/min	-	-	-											450
Cold water regulator	thermostat-controlled		-	-	-											
Number of wash arms	top (with 6 nozzles each)		-	-	1											3
	bottom (with 5 nozzles each)		-	-	-											2

Main wash zone 1

Length	M: Medium; L: Large	mm	700 (M)	1050 (L)	700 (M)	700 (M)	1050 (L)	1050 (L)	700 (M)	700 (M)	1050 (L)	700 (M)	1050 (L)	1050 (L)	700 (M)	1050 (L)
Tank capacity		l														85
Tank temperature *	in conformance with DIN 10510	°C														60 - 65
Circulation rate		l/min														650
Number of wash arms	top (with 6 nozzles each)															5
	bottom (with 5 nozzles each)															3

Main wash zone 2

Length	M: Medium; L: Large	mm	-	-	-	-	-	-	700 (M)	1050 (L)	700 (M)	700 (M)	1050 (L)	700 (M)	1050 (L)	1050 (L)
Tank capacity		l	-	-	-	-	-	-								85
Tank temperature *	in conformance with DIN 10510	°C	-	-	-	-	-	-								60 - 65
Circulation rate		l/min	-	-	-	-	-	-								650
Number of wash arms (pump rinse)	top (with 6 nozzles each)		-	-	-	-	-	-								5
	bottom (with 5 nozzles each)		-	-	-	-	-	-								3

Rinse zone

Length	M: Medium	mm														700 (M)
Tank capacity		l														70
Tank temperature	in conformance with DIN 10510	°C														60 - 70
Number of wash arms (pump rinse)	top (with 5 nozzles each)															1
	bottom (with 5 nozzles each)															1
Rinse temperature		°C														85

* Detergent without disinfection component

Vapour extraction

			MTR 2-120 MM	MTR 2-155 LM	MTR 2-155 SMM	MTR 3-185 MMM	MTR 3-215 MLM / LMM	MTR 3-250 LLM	MTR 4-250 MMMM	MTR 4-285 MMLM	MTR 4-285 MLMM	MTR 4-285 LMMM	MTR 4-315 MLLM	MTR 4-315 LLMM	MTR 4-315 LMLM	MTR 4-350 LLLM
Volume of extracted air	without heat recovery	m ³ /h	400-500													
	with heat recovery	m ³ /h	400-500													
Temperature of exhaust air	without heat recovery	°C	30-40													
	with heat recovery	°C	25-30													
Relative humidity	without heat recovery	%	95													
	with heat recovery	%	95													

OPTIONAL: drying zone

Length	straight drying zone	mm	optional 700/1050/1400													
	corner drying zone	mm	795													
	straight and corner drying zone	mm	optional 1495/1845													
Air temperature at the jet	adjustable	°C	60													

OPTIONAL: blowing-out zone

Length		mm	optional 700/1050													
Air temperature at the jet	adjustable	°C	60													

Consumption values ¹

Detergent when dosed at 2 g/l, for example	pre-dosing	g	170	170	170	170	170	170	170	170	170	170	170	170	170	170
	post-dosing	g/h	520	520	520	520	520	560	560	600	600	600	640	640	640	720
Rinse aid at a dosage of 0.3 g/l, for example Double rinse / Triple rinse		g/h	57 / 78	57 / 78	57 / 78	57 / 78	57 / 78	57 / 84	57 / 84	63 / 90	63 / 90	63 / 90	66 / 96	66 / 96	66 / 96	75 / 108
Rinse water Double rinse		l/h	190	190	190	190	190	190	190	210	210	210	220	220	220	250
Rinse water Triple rinse		l/h	260	260	260	260	260	280	280	300	300	300	320	320	320	360

¹ The consumption values are for continuous operation under ideal conditions

Connected electrical loads

Standard

			MTR 2-120 MM	MTR 2-155 LM	MTR 2-155 SMM	MTR 3-185 MMM	MTR 3-215 MLM / LMM	MTR 3-250 LLM	MTR 4-250 MMMM	MTR 4-285 MMLM	MTR 4-285 MLMM	MTR 4-285 LMMM	MTR 4-315 MLLM	MTR 4-315 LLMM	MTR 4-315 LMLM	MTR 4-350 LLLM
Voltage			3N~ / 3~ / 3(N)~													
Heating capacity drying zone	OPTIONAL	kW	drying zone 1: 4 kW as provided ex works; 2 kW reserve; make provisions for 6 kW when calculating the current consumption drying zone 2: 4 kW as provided ex works; 2 kW reserve; make provisions for 6 kW when calculating the current consumption													
Ventilator drying zone (P1)	OPTIONAL	kW	1 drying zone: 0.5 kW; 2 drying zones: 1 kW													
Heating capacity blowing-out zone	OPTIONAL	kW	4 kW as provided ex works; 2 kW reserve; make provisions for 6 kW when calculating the current consumption													
Fan motor blowing-out zone (P1)	OPTIONAL	kW	0.6 kW													
Total connected load without drying zone, without blowing-out zone (heater in rinse zone locked; if unlocked: + 6 kW)	Water inlet 10-20°C	kW	37.9	37.9	37.9	39.6	39.6	39.6	50.9	50.9	50.9	50.9	53.9	53.9	53.9	56.9
	Water inlet 21-40°C	kW	34.9	34.9	34.9	36.6	36.6	36.6	47.9	47.9	47.9	47.9	47.9	47.9	47.9	50.9
	Water inlet 41-70°C	kW	28.9	28.9	28.9	30.6	30.6	30.6	41.9	41.9	41.9	41.9	41.9	41.9	41.9	44.9
	Water inlet 10-20°C and heat recovery	kW	28.9	28.9	28.9	30.6	30.6	30.6	41.9	44.9	44.9	44.9	44.9	44.9	44.9	47.9

HighTemp (3N~)

Heating capacity drying zone	OPTIONAL	kW	drying zone 1: 6 kW drying zone 2: 6 kW													
Ventilator drying zone (P1)	OPTIONAL	kW	1 drying zone: 0.5 kW; 2 drying zones: 1 kW													
Total connected load without drying zone	Water inlet 10-20°C	kW	64.9	64.9	64.9	66.6	66.6	66.6	80.9	80.9	80.9	80.9	80.9	80.9	80.9	86.9
	Water inlet 21-40°C	kW	58.9	58.9	58.9	60.6	60.6	60.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9	80.9
	Water inlet 41-70°C	kW	52.9	52.9	52.9	54.6	54.6	54.6	68.9	68.9	68.9	68.9	68.9	68.9	68.9	74.9
	Water inlet 10-20°C and heat recovery	kW	52.9	52.9	52.9	54.6	54.6	54.6	68.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9

HighTemp (3~ / 3(N)~)

Heating capacity drying zone	OPTIONAL	kW	drying zone 1: 6 kW drying zone 2: 6 kW													
Ventilator drying zone (P1)	OPTIONAL	kW	1 drying zone: 0.5 kW; 2 drying zones: 1 kW													
Total connected load without drying zone	Water inlet 10-20°C	kW	58.9	58.9	58.9	66.6	66.6	66.6	80.9	80.9	80.9	80.9	80.9	80.9	80.9	86.9
	Water inlet 21-40°C	kW	52.9	52.9	52.9	60.6	60.6	60.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9	80.9
	Water inlet 41-70°C	kW	46.9	46.9	46.9	54.6	54.6	54.6	68.9	68.9	68.9	68.9	68.9	68.9	68.9	74.9
	Water inlet 10-20°C and heat recovery	kW	46.9	46.9	46.9	54.6	54.6	54.6	68.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9

Technical Data

Rack Conveyor Dishwashers MTR with / without heat recovery
Rack Conveyor Dishwashers MTR with heat pump Climate / Climate⁺

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General 1

Standard

		MTR 2-120 MM	MTR 2-155 LM	MTR 2-155 SMM	MTR 3-185 MMM	MTR 3-215 MLM / LMM	MTR 3-250 LLM	MTR 4-250 MMMM	MTR 4-285 MMLM	MTR 4-285 MLMM	MTR 4-285 LMMM	MTR 4-315 MLLM	MTR 4-315 LLMM	MTR 4-315 LMLM	MTR 4-350 LLLM
Theoretical capacity of machine * The factory setting is indicated in ,bold'. It can be adjusted, when commissioning the machine.	Intensive programme	racks / hr.	50/ 70/ 75	65/ 85/ 100	80/ 105/ 120	90/ 120/ 135	105/ 140/ 160		120/ 165/ 185		135/ 180/ 200				150/ 200/ 225
	Standard programme	racks / hr.	75/ 85/ 105	100/ 110/ 130	120/ 135/ 160	135/ 155/ 185	160/ 180/ 215		185/ 205/ 245		200/ 225/ 270				225/ 250/ 300
	Rapid programme	racks / hr.	105/ 110/ 120	130/ 140/ 155	160/ 175/ 185	185/ 200/ 215	215/ 230/ 250		245/ 265/ 285		270/ 295/ 315				300/ 325/ 350

HighTemp

Theoretical capacity of machine *	Intensive programme	racks / hr.	50	65	80	90	105		120		135		150
	Standard programme	racks / hr.	75	100	120	135	160		185		200		225
	Rapid programme	racks / hr.	115	130	155	170	210		240		250		300

* The factory setting in the standard programme fulfils the contact period of two minutes required by DIN 10510

General 2

		MTR 2-120 MM	MTR 2-155 LM	MTR 2-155 SMM	MTR 3-185 MMM	MTR 3-215 MLM / LMM	MTR 3-250 LLM	MTR 4-250 MMMM	MTR 4-285 MMLM	MTR 4-285 MLMM	MTR 4-285 LMMM	MTR 4-315 MLLM	MTR 4-315 LLMM	MTR 4-315 LMLM	MTR 4-350 LLLM	
Number of washing tanks in conformance with DIN 10510		2	2	2	3	3	3	4	4	4	4	4	4	4	4	
Available versions of heat pump		Climate	Climate Climate⁺				Climate⁺									
Water inlet temperature	°C	10-20														
Number of water connections	Softened water	1 (G ¾")					2 (G ¾")									
	Demineralised water (optional)	1 (G ¾"); not with heat pump Climate														
Water drain	on machine	DN 50														
	provided by customer, with siphon	DN 70														
Minimal flow rate	l/min	15														
Water flow pressure required behind foregoing water treatment	bar (kPa)	1.0 – 6.0 (100 - 600)														
Noise emission	L _{pAeq} (related to place of work)	dB(A) < 70														
Splash guard	back panelling essential when machine is not placed against a wall	IP X5														

General dimensions

Length of machine	without drying zone, with inlet tunnel (175 mm)	mm	1575	1925	1925	2275	2625	2975	2975	3325	3325	3325	3675	3675	3675	4025
Total length of system			calculated as the length of the machine plus drying zone / blowing-out zone													
Depth of machine	door closed / door open	mm	800 / 1480													
Height of machine, incl. air vents (140 mm)		mm	2180													
Loading height	with rack	mm	460													
Loading width		mm	500													
Rack size		mm	500 x 500													
Ground clearance		mm	150													
Working height	other working heights upon request	mm	900													

Technical Data

Rack Conveyor Dishwashers MTR with / without heat recovery
Rack Conveyor Dishwashers MTR with heat pump Climate / Climate⁺

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Pre-wash zone

			MTR 2-120 MM	MTR 2-155 LM	MTR 2-155 SMM	MTR 3-185 MMM	MTR 3-215 MLM / LMM	MTR 3-250 LLM	MTR 4-250 MMMM	MTR 4-285 MMLM	MTR 4-285 MLMM	MTR 4-285 LMMM	MTR 4-315 MLLM	MTR 4-315 LLMM	MTR 4-315 LMLM	MTR 4-350 LLLM
Length	S: Small; M: Medium; L: Large	mm	-	-	350 (S)	700 (M)	700 (M) 1050 (L)	1050 (L)	700 (M)	700 (M)	700 (M)	1050 (L)	700 (M)	1050 (L)	1050 (L)	1050 (L)
Tank capacity		l	-	-	-											85
Tank temperature *	in conformance with DIN 10510	°C	-	-	-											40 - 50
Circulation rate		l/min	-	-	-											450
Cold water regulator	thermostat-controlled		-	-	-											
Number of wash arms	top (with 6 nozzles each)		-	-	1											3
	bottom (with 5 nozzles each)		-	-	-											2

Main wash zone 1

Length	M: Medium; L: Large	mm	700 (M)	1050 (L)	700 (M)	700 (M)	1050 (L)	1050 (L)	700 (M)	700 (M)	1050 (L)	700 (M)	1050 (L)	1050 (L)	700 (M)	1050 (L)
Tank capacity		l														85
Tank temperature *	in conformance with DIN 10510	°C														60 - 65
Circulation rate		l/min														650
Number of wash arms	top (with 6 nozzles each)															5
	bottom (with 5 nozzles each)															3

Main wash zone 2

Length	M: Medium; L: Large	mm	-	-	-	-	-	-	700 (M)	1050 (L)	700 (M)	700 (M)	1050 (L)	700 (M)	1050 (L)	1050 (L)
Tank capacity		l	-	-	-	-	-	-								85
Tank temperature *	in conformance with DIN 10510	°C	-	-	-	-	-	-								60 - 65
Circulation rate		l/min	-	-	-	-	-	-								650
Number of wash arms	top (with 6 nozzles each)		-	-	-	-	-	-								5
	bottom (with 5 nozzles each)		-	-	-	-	-	-								3

Rinse zone

Length	M: Medium	mm							700 (M)							
Tank capacity		l							70							
Tank temperature*	in conformance with DIN 10510	°C							60 - 70							
Number of wash arms (pump rinse)	top (with 5 nozzles each)								1							
	bottom (with 5 nozzles each)								1							
Rinse temperature		°C							85							

* Detergent without disinfection component

Vapour extraction

			MTR 2-120 MM	MTR 2-155 LM	MTR 2-155 SMM	MTR 3-185 MMM	MTR 3-215 MLM / LMM	MTR 3-250 LLM	MTR 4-250 MMMM	MTR 4-285 MMLM	MTR 4-285 MLMM	MTR 4-285 LMMM	MTR 4-315 MLLM	MTR 4-315 LLMM	MTR 4-315 LMLM	MTR 4-350 LLLM	
Volume of extracted air	Heat pump Climate	m ³ /h	400-500					-									
	Heat pump Climate⁺		-	550-650													
Temperature of exhaust air	Heat pump Climate	°C	16-25					-									
	Heat pump Climate⁺		-	15-20													
Relative humidity	Heat pump Climate	%	100					-									
	Heat pump Climate⁺		-	100													

OPTIONAL: drying zone

Length	straight drying zone	mm	optional 700/1050/1400													
	corner drying zone	mm	795													
	straight and corner drying zone	mm	optional 1495/1845													
Air temperature at the jet	adjustable	°C	60													

OPTIONAL: blowing-out zone

Length		mm	optional 700/1050													
Air temperature at the jet	adjustable	°C	60													

Consumption values ¹

Detergent when dosed at 2 g/l, for example	pre-dosing	g	170	170	170	170	170	170	170	170	170	170	170	170	170	170
	post-dosing	g/h	520	520	520	520	520	560	560	600	600	600	640	640	640	720
Rinse aid at a dosage of 0.3 g/l, for example Double rinse / Triple rinse		g/h	- / 84	57 / 84	57 / 84	57 / 84	57 / 84	57 / 84	57 / 84	63 / 90	63 / 90	63 / 90	66 / 96	66 / 96	66 / 96	75 / 108
Rinse water Double rinse	only for machines with heat pump Climate⁺	l/h	-	190	190	190	190	190	190	210	210	210	220	220	220	250
Rinse water Triple rinse		l/h	280	280	280	280	280	280	280	300	300	300	320	320	320	360

¹ The consumption values are for continuous operation under ideal conditions

Connected electrical loads

Standard

			MTR 2-120 MM	MTR 2-155 LM	MTR 2-155 SMM	MTR 3-185 MMM	MTR 3-215 MLM / LMM	MTR 3-250 LLM	MTR 4-250 MMMM	MTR 4-285 MMLM	MTR 4-285 MLMM	MTR 4-285 LMMM	MTR 4-315 MLLM	MTR 4-315 LLMM	MTR 4-315 LMLM	MTR 4-350 LLLM	
Available voltages	Heat pump Climate		*					415V3N~,60Hz; 400V3~,50Hz (Trafo); 440V3(N)~,60Hz (Trafo); 230V3~,50/60Hz; 200V3~,50/60Hz									
	Heat pump Climate⁺		-	380 - 420V3N~,50Hz													
Heating capacity drying zone	OPTIONAL	kW	drying zone 1: 4 kW as provided ex works; 2 kW reserve; make provisions for 6 kW when calculating the current consumption drying zone 2: 4 kW as provided ex works; 2 kW reserve; make provisions for 6 kW when calculating the current consumption														
Ventilator drying zone (P1)	OPTIONAL	kW	1 drying zone: 0.5 kW; 2 drying zones: 1 kW														
Heating capacity blowing-out zone	OPTIONAL	kW	4 kW as provided ex works; 2 kW reserve; make provisions for 6 kW when calculating the current consumption														
Fan motor blowing-out zone (P1)	OPTIONAL	kW	0.6 kW														
Total connected load with heat pump Climate without drying zone; without blowing-out zone	locked	kW	30,6	30,6	30,6	32,3	-	-	-	-	-	-	-	-	-	-	
	unlocked	kW	36,6	36,6	36,6	38,3	-	-	-	-	-	-	-	-	-	-	
Total connected load with heat pump Climate⁺ without drying zone; without blowing-out zone	locked	kW	-	26,5	26,5	28,2	28,2	28,2	39,5	39,5	39,5	39,5	42,5	42,5	42,5	42,5	
	unlocked	kW	-	38,5	38,5	46,2	46,2	46,2	57,5	57,5	57,5	57,5	60,5	60,5	60,5	60,5	

* 380 - 420V3N~,50Hz; 415V3N~,60Hz; 400V3~,50Hz (Transformator); 440V3(N)~,60Hz (Transformator); 230V3~,50/60Hz; 200V3~,50/60Hz

HighTemp (3N~)

Heating capacity drying zone	OPTIONAL	kW	drying zone 1: 6 kW drying zone 2: 6 kW													
Ventilator drying zone (P1)	OPTIONAL	kW	1 drying zone: 0.5 kW; 2 drying zones: 1 kW													
Total connected load without drying zone; with heat pump Climate		kW	51.6	51.6	51.6	53.3	53.3	53.3	67.6	67.6	67.6	67.6	73.6	73.6	73.6	73.6

HighTemp (3~ / 3(N)~)

Heating capacity drying zone	OPTIONAL	kW	drying zone 1: 6 kW drying zone 2: 6 kW													
Ventilator drying zone (P1)	OPTIONAL	kW	1 drying zone: 0.5 kW; 2 drying zones: 1 kW													
Total connected load without drying zone; with heat pump Climate		kW	45.6	45.6	45.6	53.3	53.3	53.3	67.6	67.6	67.6	67.6	73.6	73.6	73.6	73.6