







URBAN MILKSHUTTLE



Urban MilkShuttle

Urban MilkShuttle -top seller-				
	Part no.	Description	PG	Euro
	200.680	MS 100 , container (basic), incl. drain valve 1½", lid with seal and closure, large wheels 40 cm (puncture-free), heating and agitator , computer controlled, for whole milk and concentrated milk powder, 3 kW , 230 Volt (single phase), 12V distribution pump with a pistol, time-controlled (2,5 m pipe length), electric drive , 24 Volt, continuously variable transmission forwards/backwards, emergency stop	4	
	200.681	MS 150 , container (basic), incl. drain valve 1½", lid with seal and closure, large wheels 40 cm (puncture-free), heating and agitator , computer controlled, for whole milk and concentrated milk powder, 6 kW , 400 Volt (3 phase), 12V distribution pump with a pistol, time-controlled (2,5 m pipe length), electric drive , 24 Volt, continuously variable transmission forwards/backwards, emergency stop	4	
	200.682	MS 200 , container (basic), incl. drain valve 1½", lid with seal and closure, large wheels 40 cm (puncture-free), heating and agitator , computer controlled, for whole milk and concentrated milk powder, 6 kW , 400 Volt (3 phase), 12V distribution pump with a pistol, time-controlled (2,5 m pipe length), electric drive , 24 Volt, continuously variable transmission forwards/backwards, emergency stop	4	
	200.683	MS250 , container (basic), incl. drain valve 1½", lid with seal and closure, large wheels 40 cm (puncture-free), heating and agitator , computer controlled, for whole milk and concentrated milk powder, 6 kW , 400 Volt (3 phase), 12V distribution pump with a pistol, time-controlled (2,5 m pipe length), electric drive , 24 Volt, continuously variable transmission forwards/backwards, emergency stop	4	

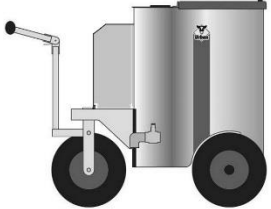


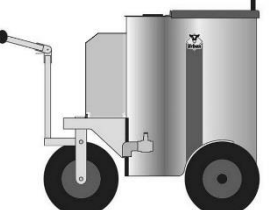
Urban MilkShuttle -Pasteurizer-



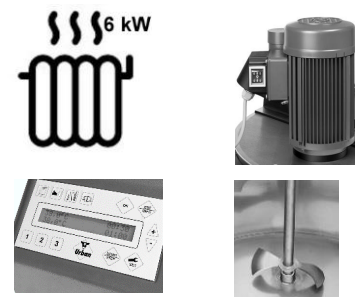


	Part no.	Description	PG	Euro
	200.819	<p>MS Pasteurizer 150, container (basic) with pasteurizing function, 150 litres use volume, ½" water connection for cooling, incl. drain valve 1½", lid with seal and closure, large wheels 40 cm (puncture-free),</p> <p>heating and agitator for whole milk and concentrated milk powder (2 stages) computer controlled, 6 kW, 400 Volt (3 phase), 12V distribution pump with a pistol, time-controlled (2,5 m pipe length), feeding independent of power supply,</p> <p>electric drive, 24 Volt, continuously variable transmission forwards/backwards, emergency stop</p>	4	
	200.820	<p>MS Pasteurizer 200, container (basic) with pasteurizing function, 200 litres use volume, ½" water connection for cooling, incl. drain valve 1½", lid with seal and closure, large wheels 40 cm (puncture-free),</p> <p>heating and agitator for whole milk and concentrated milk powder (2 stages) computer controlled, 6 kW, 400 Volt (3 phase), 12V distribution pump with a pistol, time-controlled (2,5 m pipe length), feeding independent of power supply,</p> <p>electric drive, 24 Volt, continuously variable transmission forwards/backwards, emergency stop</p>	4	
	200.821	<p>MS Pasteurizer 250, container (basic) with pasteurizing function, 250 litres use volume, ½" water connection for cooling, incl. drain valve 1½", lid with seal and closure, large wheels 40 cm (puncture-free),</p> <p>heating and agitator for whole milk and concentrated milk powder (2 stages) computer controlled, 6 kW, 400 Volt (3 phase), 12V distribution pump with a pistol, time-controlled (2,5 m pipe length), feeding independent of power supply,</p> <p>electric drive, 24 Volt, continuously variable transmission forwards/backwards, emergency stop</p>	4	

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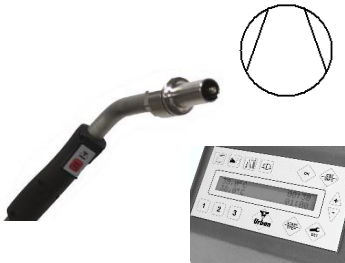



Urban MilkShuttle

Container (Basic) / Wheels / Lid






 <p>MS100 Basic container</p>	200.649	MS100 , container (basic), incl. drain valve 1½", lid with seal and closure, large wheels (puncture-free)	4	
 <p>MS150 Basic container</p>	200.650	MS150 , container (basic), incl. drain valve 1½", lid with seal and closure, large wheels (puncture-free)	4	
 <p>MS200 Basic container</p>	200.651	MS200 , container (basic), incl. drain valve 1½", lid with seal and closure, large wheels (puncture-free)	4	
 <p>MS250 Basic container</p>	200.652	MS250 , container (basic), incl. drain valve 1½", lid with seal and closure, large wheels (puncture-free)	4	




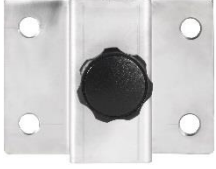
Single Pasteurizer function & Heating / Agitator				
	Part no.	Description	PG	Euro
	200.826	MS – Pasteurizing function for MS 150-250 incl. heat exchanging floor (200.825), computer controlled (no retrofit option!!!)	4	
	200.675	Heating and Agitator, computer controlled, for whole milk and concentrated milk powder (2 stages), 3 kw, 230 Volt (single phase)	4	
	200.657	Heating and Agitator, computer controlled, for whole milk and concentrated milk powder (2 stages), 6 kw, 400 Volt (3 phase), not available for MS 100	4	
	200.677	Agitator, computer controlled, for the use of whole milk	4	
	200.676	Agitator (2 stages) manual controlled (on/off), for stirring milk powder or medicaments	4	

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Distribution Pump / Electric Drive				
	Part no.	Description	PG	Euro
	200.660	12V Distribution pump with a pistol, time-controlled (2,5 m hose length), feeding independent of power supply	4	
	200.665	Electric drive, 24 Volt, continuously variable transmission forwards/backwards, emergency stop	4	
Accessories				
	200.691 200.692 200.693 200.694	Insulation for MS 100 Insulation for MS 150 Insulation for MS 200 Insulation for MS 250	4	
	200.696	Whole-milk suction pipe connection for Urban automatic feeders, stainless steel	4	





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	Part no.	Description	PG	Euro
	200.699	LED lights (only available for new fabricated MilkShuttles, no retrofit option. Also only in combination with the electric drive)	4	
	200.697	Vacuum lid (including a suction connection and a vacuum connection, up to -0,5 bar) (without hoses)	4	
	200.698	Drench connection (with fast coupling made of stainless steel), without drenching equipment	4	
	200.700	Drenching equipment for cows , gavage 1.25m, tubing 2m (200.698 necessary)	4	
	200.707	Spraying head – rotating cleaning device made of stainless steel incl. protection lid (sealing)	4	

	Part no.	Description	PG	Euro
	200.635	Bucket tray for MilkShuttle without MS-bracket (200.638) or wall bracket (200.639), please order additionally	4	
	200.636	Bucket carrier for 16 teat buckets without MS-bracket (200.638) or wall bracket (200.639), please order additionally FOR TYPES MS 150-250 ONLY	4	
	200.638	MS-bracket for bucket carrier (200.636) and bucket tray (200.635)	4	
	200.639	Wall bracket for bucket tray (200.635) and bucket carrier (200.636)	4	

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Caddy Urban Trailer

	Part no.	Description	PG	Euro
	200.633	Trailer coupling for Caddy	4	
	200.634	Caddy for 24 feeding buckets (without feeding dishes and buckets)	4	
	200.076	Feeding bucket, transparent, with 1-Click-Valve & red teat, antibacterial	4	
	200.077	Lid (red) for transparent feeding bucket	4	

Urban MILKSHUTTLE

Technical Details

speed: 5 km/h (= medium walking speed)
 ground clearance without electric drive: 135mm
 ground clearance with electric drive: 115mm

Agitator with 2 different speeds: stage 1 - 700 U/min, stage 2 - 1450 U/min

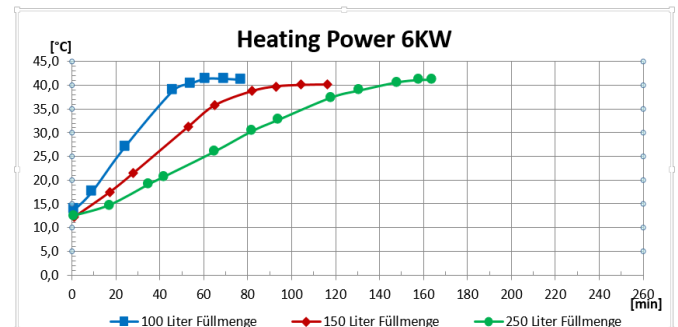
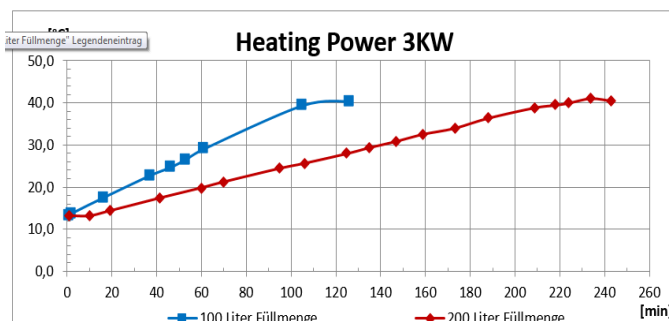
Pump capacity (with time dosing) approx. 37,25 l/min

Heating time and the influencing factors

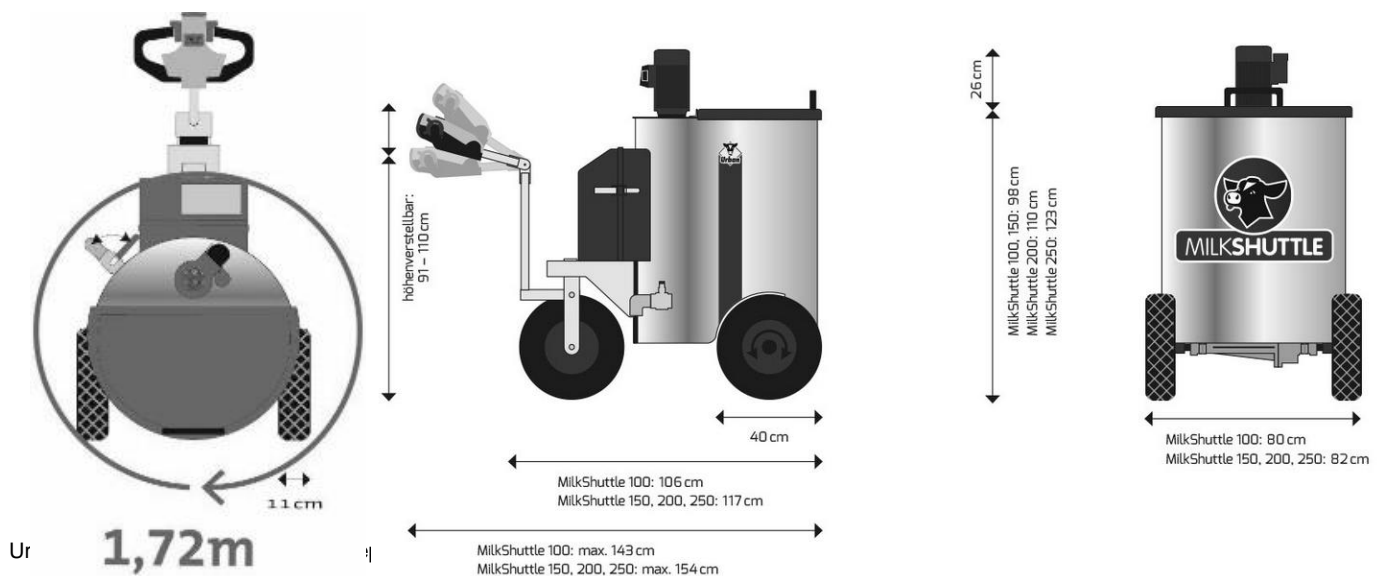
The heating up of a complete container depends on several factors:

- difference between actual and target temperature
- ambient temperature
- used heating power (3 kW or 6kW)

For this reason, the following diagrams are only examples from which the approximate heating time can be read.



Very small turning circle



Urban MILKSHUTTLE

Technical data

	Type 100	Type 150	Type 200	Type 250
Dimensions				
Length (without drawbar) [cm]	106	117		
Length (with drawbar) [cm]	142	153		
Width [cm]	78-93	79-100		
Height [cm]	98	98	110	123
Weight fully equipped [kg]	128	141	144	147
Power supply [V~]	230/400			
Power consumption max. [VA]	3000	3.000/6.000		
Current consumption max. [A]	13/13			
Protection class	I			
Mixing volume max./min. [l]	100/15	150/30	200/30	250/30
Transport volume max. [l]	depending on slope of covered distance <i>(see figure 3/1)</i>			
Noise emission	<72 dbA			

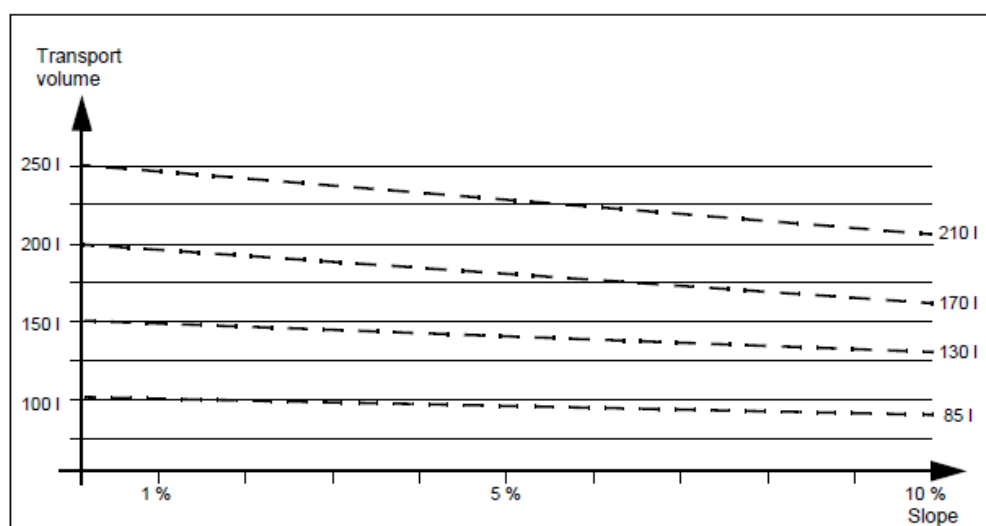
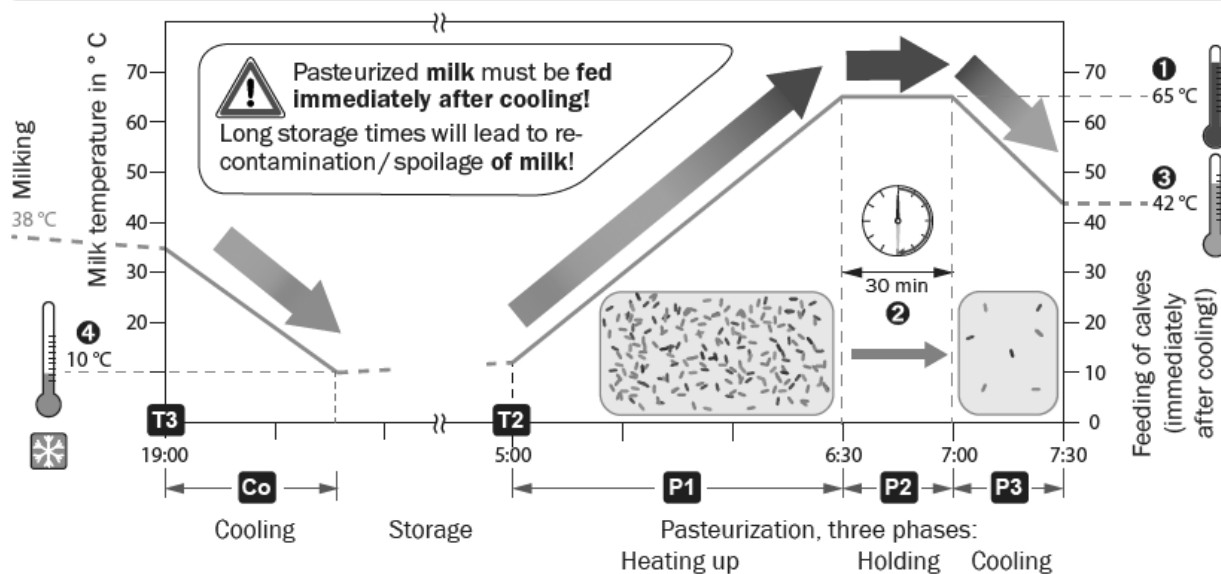


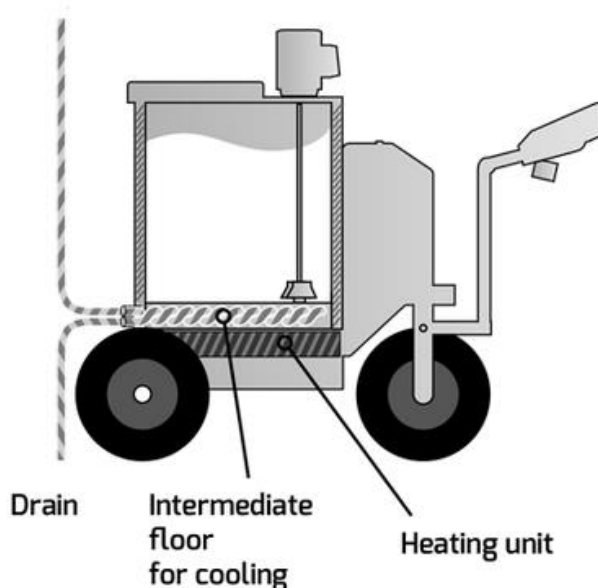
Figure 3/1: Permitted transport volume

Urban MILKSHUTTLE Pasteurizer

PROCESS FLOW OF AUTOMATED COOLING AND PASTEURIZATION



Start times		Process parameters for pasteurization and cooling			
T2	Start time pasteurization	1	Temperature holding phase	3	End temperature after pasteurization
T3	Start time cooling	2	Duration of holding phase	4	End temperature cooling



Urban MILKSHUTTLE Pasteur

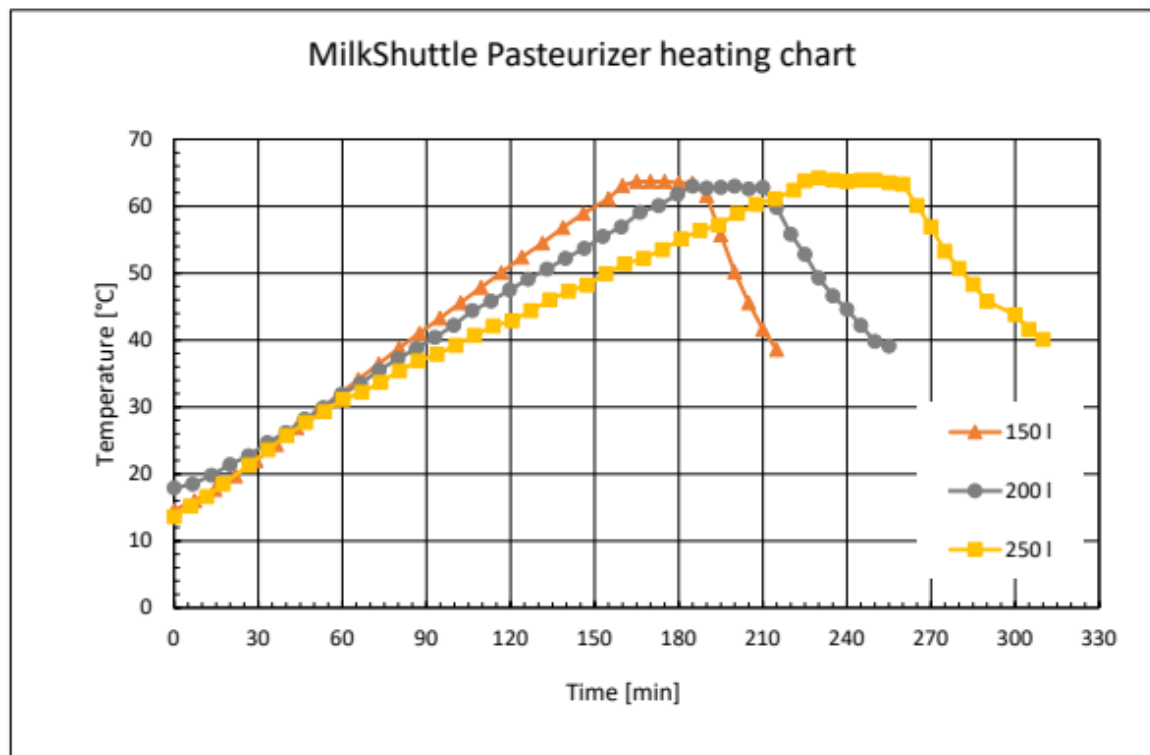
Process duration and its influencing factors

The duration of the entire pasteurisation process depends on several factors:

Difference between actual and setpoint temperature

- Ambient air temperature
- Temperature and flow rate of the cooling water used.

For this reason, the following diagram is only an example from which the approximate process duration can be read.





Caddy Urban Trailer

Technical details

Product details

Name.....	Urban Caddy
Description.....	Trailer for the MilkShuttle
Manufacturer.....	Urban GmbH & Co. KG
	Auf der Striepe 9
	D-27798 Hude/Wüstring
Length.....	1720 mm
Width.....	820 mm
Height	
1 level with 8 brackets for teat buckets.....	1105 mm
2 levels with 16 brackets for teat buckets.....	1365 mm
3 levels with 24 brackets for teat buckets.....	1735 mm
Weight with 3 levels.....	50 kg
Permissible speed.....	6 km/h

Trailer hitch ball

Permitted load values

Permissible axle load.....	200 kg
Permissible tensile load.....	30 kg

Angular mobility

Horizontal.....	25°
Vertical.....	20°