



More water equals more milk

DeLaval water troughs
and bowls

Your solution – every day



Milk comprises almost 90 percent water, so it's not surprising that a cow's water intake has a major impact on her milk production. The equation is simple: when you provide enough water, cows drink more and eat more. And produce more milk.

Increased water intake improves milk production

It might sound straightforward, but the amounts of water involved are significant. For example, one kilo of dry matter intake utilises up to five litres of water. In fact, cows need at least three litres of water to produce a single litre of milk. This means that high yielding cows need more than 150 litres of water every day! Satisfying this need is therefore a crucial task for every dairy farmer.

Make drinking easy and convenient

Cows drink fast – up to 20 litres per minute. If they can't, their water intake may fall off and their milk yield could suffer. For example, a 40 percent reduction in water intake can cut milk production by 25 percent.

Cows like to drink when they eat and just after milking. They also prefer a large, calm drinking surface from which they can drink quickly and without stress. Furthermore, such natural drinking behaviour promotes further eating and even more drinking. And this results in healthier cows and higher milk yields.

We understand your cows' needs

DeLaval water supply products meet your cows' physiological and social drinking requirements. Our bowls and troughs provide easy, convenient access to water, in stanchion barns, loose-housing and pasture. Cows can drink as much as they want and as quickly as they want without having to wait.

The water they drink should be fresh, clean and good-tasting. DeLaval bowls and troughs minimize microbial growth and hinder dirt pollution. This also makes them very easy to keep clean, so you save valuable time.

Our durable, well-proven water supply range promotes years of reliable, trouble-free operation which you'll appreciate as much as your cows.



Hygiene, capacity and accessibility are critical factors when supplying water in a loose-housing environment. We use either UV resistant polyethylene or stainless steel in

our hygienic, impact-resistant and durable water troughs, together with high capacity water valves. The cow-friendly design of the water troughs provide easy access to

promote comfortable and undisturbed drinking. The troughs can be wall or floor mounted to match a variety of different barn layouts.



Tip tanks

	ST150	ST200	ST250	T80	T80XL	T400
Material	Stainless steel	Stainless steel	Stainless Steel	UV resistant polyethylene	UV resistant polyethylene	UV resistant polyethylene
Dimensions (w×l×h)	55×150×96 cm 21.6×59×37.8 in	55×200×96 cm 21.6×78.7×37.8 in	55×250×96 cm 21.6×98.4×37.8 in	61×147×61 cm 24×58×24 in	61×236×61 cm 24×93×24 in	62×215×46 cm 24×85×18 in
Weight	56 kg 123.5 lbs	62 kg 136.7 lbs		45.4 kg 100 lbs	63.5 kg 140 lbs	73.5 kg 162 lbs
Drinking height	85 cm 33.5 in	85 cm 33.5 in	85 cm 33.5 in	53 cm 21 in	53 cm 21 in	82 cm 32.3 in
Capacity (approx)	39–56 litres 10.3–14.8 US gal.	52–75 litres 13.7–19.8 US gal.	79–96 liters 20.9–28.3 US gal.	80 litres 21 US gal.	152 litres 40 US gal.	265 litres 70 US gal.
Maximum usage	20–30 dairy	25–40 dairy	–	40 dairy 75 beef	70 dairy 135 beef	80 dairy 150 beef
Water pipe	–	–	–	1/2 in	1/2 in	3/8 in
Installation	Floor/wall mounted	Floor/wall mounted	Floor mounted only	Floor/wall mounted	Floor/wall mounted	Floor/wall mounted
Application	Loose housing	Loose housing	Loose housing	Loose housing	Loose housing	Loose housing





There is a cost-efficient way to increase milk output. A way that is often overlooked: optimizing water supply.

High yielding cows need more than 150 litres of water every day. They like to drink at certain times of the day.

And they are fussy drinkers.

At DeLaval, we have the experience to help you plan your farm so that all your cows, even the less dominant, get to drink as often and as much as they want.

Troughs



	S28	SC1	DC2	PT11	Energy free waterer	
					1 lid	2 lid
Material	Stainless steel	UV resistant polyethylene	UV resistant polyethylene	UV resistant polyethylene	UV resistant polyethylene	UV resistant polyethylene
Dimensions (w×l×h) (cm in)	40×40×48 cm 16×16×19 in	55.8×68.6×66 cm 22×27×26 in	55.8×81.3×66 cm 22×32×26 in	43×43×35 cm 17×17×13.5 in	58.4×71×51 cm 23×28×20 in	58.4×104×51 cm 23×41×20 in
Weight (kg)	14.3 kg 31.5 lbs	18.1 kg 40 lbs	24.5 kg 54 lbs	11.6 kg 26 lbs	22.7 kg 50 lbs	34 kg 75 lbs
Drinking height (cm)	90 cm 35.4 in	48.3 cm 19 in	48.3 cm 19 in	28 cm 11 in or desired wall mount height	38 cm 15 in	38 cm 15 in
Capacity (approx litres)	–	18 litres 4.8 US gallons	35 litres 9.2 US gallons	11 litres 2.9 US gallons	64 litres 17 US gallons	83 litres 22 US gallons
Maximum usage	20 dairy	25 dairy 60 beef	50 dairy 100 beef	10 head or single stall use	50 dairy 120 beef	70 dairy 150 beef
Heater	–	500 W submersible heater	500 W submersible heater	500 W submersible heater	–	–
Application	Loose housing	Loose housing and pasture	Loose housing and pasture	Loose housing, stanchion barn and pasture	Loose housing and pasture	Loose housing and pasture



Water bowls are the obvious choice for supplying water in stanchion barns, but they also provide convenient access to water in loose-housing barns and pastures. Their large drinking surfaces and high flow rates match cows’ natural drinking preferences. We recommend one bowl per cow to reduce stress and

to increase water intake in stanchion barns. All bowls are designed to hinder dirt build-up and are easy to clean. The unique, patented volume valve delivers a gentle, non-splash, large volume flow and is available for most models.



Water bowls




	C5	C20	S22
Material	Cast iron coated with enamel	Cast iron coated with acid-resistant with enamel	Stainless steel
Dimensions (w×l×h) (cm/in)	21.5×28×17 cm 8.5×11×6.7 in	28×28×16.5 cm 11×11×6.5 in	25×26×24 cm 9.8×10.2×9.4 in
Weight (kg)	4.5 kg	6.8 kg	2.4 kg
Volume (approx litres)	1.8 litres	3 litres	4 litres
Flow rate (tube valve l/min)*	5 l/min	20 l/min	22 l/min
Flow rate (paddle valve l/min)*	6 l/min	-	-
Water pipe	1/2 in	1/2 in (US ¾ in)	1/2 in
Recommended for:	calves	high yielding cows	high yielding cows

* = at 4 bar water pressure





A correctly functioning water trough, providing a continual supply of clean water, is a must during the hot days and warm nights that your animals spend outside the barn. High capacity DeLaval pasture troughs are made of impact resistance, lightweight and durable UV resistant polyethylene. Large drainage plugs and the smooth, round shape mean not only easy cleaning, but also full accessibility and animal friendliness.

Water troughs			
	WT7	WT10	WT12
Material	UV resistant polyethylene	UV resistant polyethylene	UV resistant polyethylene
Dimensions (WxLxH) (cm/in)	61×210×61 cm 24×84×24 in	61×290×61 cm 24×115×24 in	61×370×61 cm 24×144×24 in
Weight (kg/lbs)	68 kg 150 lbs	84 kg 185 lbs	118 kg 260 lbs
Drinking height (cm/in)	61 cm 24 in	61 cm 24 in	61 cm 24 in
Capacity (l/US gallons)	132 l 35 US gallons	225 l 59 US gallons	265 l 70 US gallons
Maximum usage	125 dairy 250 beef	210 dairy 420 beef	250 dairy 500 beef
Application	Loose housing Pasture	Loose housing Pasture	Loose housing Pasture
Optional	500 W submersible heater	500 W submer- sible heater	500 W submer- sible heater





Drawings/Notes:



Are your cows getting enough water?

Lactating cows should be close to a supply of water, especially during periods of heat stress or low temperatures when surfaces can become frozen. During conditions such as these, try to place a clean supply of water near shaded or otherwise cooled resting areas, and on slopes that do not become slippery when cold.

There must always be enough water troughs or bowls per group of animals, so that even low-ranking cows have good opportunities to drink.

Cows tend to consume most water directly after milking, so it's a good idea to make water available in the return lane from the parlour, or by the exit from a robotic milking system.

Like people, cows prefer to eat, then drink, eat, then drink and so on. Water troughs should be easily accessible, preferably within 15 metres of the feeding table. Farmers who ensure a plentiful supply of clean water can provide an excellent environment in their barns for their cows.

At DeLaval, we have experience and competence in water supply, plus a full range of solutions. Consequently, we can help plan and configure water supplies so that all your cows – including the less dominant – get access to as much water as they want, as often as they want.

But nobody knows your farm like you do. Every farm is unique: you know your cows and the best way to milk them. Talk to us and we will provide the solution you need. Your solution – every day.