Example 1 : Adjust 90 degree brine to 70 degrees strength

How much salt and water is in 1200 litres of 90 degree brine?

90 degree brine contains 280.10g salt per litre so 1200 litres contains Col H 1200 x 280.10 = **336,120** grams salt 90 degree brine contains 899 grams of water per litre so 1200 litres contains Col G 1200 x 899 = **1,078,800** grams water This is approx.* **1079** litres of water

To make up a 70 degree brine with 336120 grams of salt, you would use how much water?

Col C 226.78 grams salt for each litre of added water

Total water = 336120/226.78

1,482.14 litres water

Natas

As the brine already has 1079 litres of water in it you only need to add 1482-1079 litres of water

1482 -1079= 403 litres

It's a similar process w 1200 brine + 403 litres water is approx 1603 litres of final 70 degree brine.

Summary of steps

How much salt and water do you have in your brine? How much salt and water should you have in your brine? What is the difference that needs altering?

* As 1 litre of water weighs 998 grams at room temperature it is more accurate to divide grams of water by 998 to get litres.

Try these examples

1. Adjust 500 litres of 86 degree brine to 70 degree brine by adding water

			notes
How much salt is in the 500 litres?	A	grams	Col H
How much water is in the 500 litres?		grams	Col G
How many litres of water is that? If you started with this much salt , how much		litres	divide grams by 998 to get litres
water would you have needed to make the 70 degree brine?			Salt / Col C
How much water should you add to your brine?		litres	difference between what you have and what you need.

2. Adjust 750 litres of 56 degree brine to 80 degree brine by adding salt.

