



WATER EXPRESS

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DISTILLED WATER LABORATORY PACK

Pharmaceutical quality distilled water packaged in foodgrade plastic bag.

The bag holds 20 litres of distilled water and is contained in a cardboard box of 25x25x40 cm. The water quality inside the bag remains constant when water is drained through an attached 50 cm hose with flowcontrol clamp. The bag collapses when water is used. No air and airborne contaminants can enter the water bag.

DISTILLED WATER

The Definition:

A process that drives impurities (gas or solid) from raw water by heating and condensing to a purified liquid state.

The Machine:

The distiller used by Canadian Springs is manufactured by Aqua-Chem, a technological leader in the water industry. It's proper name is "Pharmaceutical bottled water vapour compression distilling unit". For the sake of simplicity we will call it the "distiller" or the "unit".

The Process:

Feedwater entering the distiller contains dissolved solids, suspended solids, organics, dissolved gases, etc.... The key is to keep these impurities from carrying over with the boiled steam which will be condensed as distillate. The distillers design sprays the water in the opposite direction of the steam flow, then a tightly woven mesh demister allows the steam to pass through while knocking down any impure water droplets being carried with the steam. The centrifugal compressor spinning at high speed further removes any fine droplets being carried through with the steam because of the centrifugal force. The steam is then condensed into "pure" distillate. The distillate however can still come into contact with carbon dioxide gas which will redissolve into the distillate because of the distillates aggressive nature. Any carbon dioxide gas present in the feedwater separates from the water in the boiling process and will come over with the steam into the condensing chamber. Our unit uses a final polisher, and a distillate deaerator, both of which strip the distillate of carbon dioxide or other gases. This process occurs just prior to the distillate leaving the unit. The carbon dioxide and any other non-condensable gases are eventually vented from the unit.

The Result:

The highest purity distilled water that can be produced. The quality of our distilled water passes the most stringent water quality requirements today.

FOR YOUR COMPARISON TESTS PLEASE ORDER YOUR FREE LABORATORY PACK NOW.