



USING THE PRESSURE PAK SYSTEM: A STUDY IN SIMPLICITY



THE PRESSURE PAK SYSTEM IS AN ADD-ON ACCESSORY KIT CONSISTING OF THREE MAIN PIECES: AN ULTRA-LIGHTWEIGHT NYLON COMPRESSION BAG (SHOWN IN BLUE WITH LOGO), DESIGNED TO EXERT PRESSURE ON THE USER'S HYDRATION BLADDER. THIS IS DONE VIA A HIGH VOLUME, HAND OPERATED BULB PUMP THAT HAS A THUMBSCREW FOR RELEASING PRESSURE. FINALLY, THE BACKBOARD, A RIBBED, CURVED, CAD ENGINEERED PIECE OF BLACK ABS PLASTIC THAT KEEPS THE ENTIRE SYSTEM CONTOURED TO THE CURVE OF THE USER'S BACK ONCE PRESSURE IS EMPLOYED.

TOTAL SYSTEM WEIGHT: 250 GRAMS

THE PRESSURE PAK PRESSURIZES BOTH INTERNALLY AND EXTERNALLY LOCATED FILL SPOUT HYDRATION SYSTEMS EQUALLY WELL, BUT THE SETUP IS SLIGHTLY DIFFERENT FOR EACH TYPE.

FOUR EASY STEPS TO PRESSURIZE YOUR HYDRATION PACK WITH THE PRESSURE PAK:



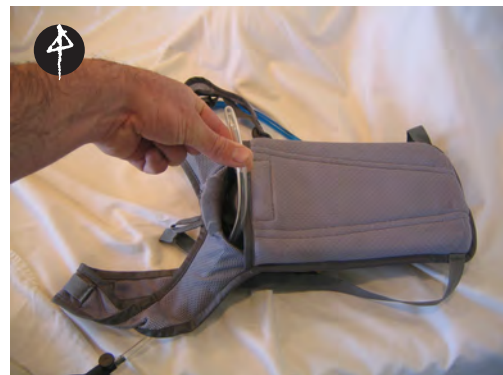
FOR INTERNALLY LOCATED FILL SPOUT SYSTEMS (WHERE THE HYDRATION PACK MUST BE OPENED AND THE BLADDER REMOVED TO BE FILLED), THE FILLED HYDRATION BLADDER IS SLID INTO THE PRESSURE PAK ITSELF, MUCH LIKE A PILLOW INTO A PILLOWCASE.



ONCE THE HYDRATION BLADDER IS SLID INTO THE PRESSURE PAK, IT IS SLID BACK INTO THE HYDRATION PACK, AS NORMAL.



THE BACKBOARD IS NOW SLID INTO THE HYDRATION PACK BETWEEN THE PRESSURE PAK AND THE HYDRATION PACK (ON THE SIDE THAT WILL CONTACT THE USER'S BACK, OF COURSE).



FINALLY, THE PRESSURE PAK'S TUBING IS ROUTED TO THE OPPOSITE SHOULDER STRAP OF THE HYDRATION PACK AS THE DRINKING TUBE, BUT IN THE EXACT SAME WAY.



AS YOU CAN SEE, THE BULB PUMP RESTS OUT OF THE USER'S WAY NEAR THE HOLLOW OF THE ARMPIT WHERE IT IS EASILY ACCESSED FOR PRESSURIZATION PURPOSES.



ASSUMING A FULL HYDRATION BLADDER IS BEING PRESSURIZED, IT TAKES ONLY SIX PUMPS OF THE PRESSURE PAK'S BULB PUMP TO GET 2PSI OF BITE VALVE PRESSURE - A 10FT. SPRAY FROM THE VALVE! FOUR MORE PUMPS GETS YOU A TOTAL OF 4PSI AND A 16FT. SPRAY AND ALMOST TOO MUCH WATER TO SWALLOW IN ONE BITE OF THE VALVE. A FEW MORE PUMPS AND AT 6PSI YOU CAN SQUIRT A 20FT FAN OF WATER - TOO MUCH TO DRINK, BUT PERFECT FOR SPRAYING OFF GEAR, COOLING OR WASHING YOU OR FRIENDS OFF, PUTTING OUT A FIRE, ETC.. (CONT.)



WITH AN EXTERNALLY LOCATED FILL SPOUT (WHERE THE HYDRATION BLADDER'S FILL SPOUT PROTRUDES THROUGH A HOLE IN THE PACK), THE PRESSURE PAK IS SLID BEHIND AN EMPTY HYDRATION BLADDER AS THE BLADDER NORMALLY RESTS IN THE PACK, THEN THE BLADDER IS FILLED.

NOTE: PRESSURES INTO THE 10-12PSI RANGE HAVE BEEN TESTED, BUT OVER TIME CAN STRESS THE HYDRATION BLADDER AND ULTIMATELY DON'T MAKE MUCH SENSE (OUR PRODUCT IS TESTED IN OUR LAB TO 35PSI, HOWEVER). AT THE NORMAL OPERATING RANGE OF 2-4PSI, YOU CAN USE 1/3 OF YOUR WATER BEFORE NEEDING TO REPRESSURIZE OR YOU CAN GIVE A FEW PUMPS EVERY FOURTH OR FIFTH SQUIRT TO KEEP HIGHER PRESSURES UP.



ONCE THE PRESSURE PAK IS IN AND THE BLADDER FILLED, THE BACKBOARD IS SLID BETWEEN THE PRESSURE PAK AND THE BACK OF THE HYDRATION PACK AND THE HOSE GETS ROUTED TO THE APPROPRIATE SHOULDER STRAP. AS THE PRESSURE PAK IS INFLATED, A SANDWICHING EFFECT CAUSES THE DESIRED PRESSURE.

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