

# Dedicated Panacea Sampling Systems

Custom, dedicated sampling systems. From pump to well cap, designed to fit your monitoring wells. Cut to specified lengths and assembled in-house.



## Time Savings

Pre-assembly means no measuring or connecting in the field.

Dedicated pump do not need to be decontaminated between samples.

## Sample Integrity

No risk of cross contamination because each pump is stationed in only one well.

Simply purge out the tubing at the start of each sampling event.

## Extended Equipment Life

No wear and tear from repeated transport, deployment and retrieval and decontamination.

Customizable filter solutions and elegant, simplified pump design minimize maintenance needs.

## Why choose Panacea for your dedicated systems?

- Sophisticated filter design features Andalusite based filter with redundant SS screen mesh to guarantee pump remains free of detritus and sediment, ensuring long pump life.
- Dual-valve design means no more worry about broken bladders to replace.
- Compatible with Zone Isolation Sampling Technology (ZIST) to dramatically reduce time spent purging the well prior to sampling. (See page 2 for more info)

## Customization Options:

- 1", 1.25", 2", 4", 5" and 6" dedicated systems available.
- Push-in connectors for wells 580 ft bgs and shallower. Compression fittings for deeper wells.
- Slip caps for stick-up wells. Inverted well caps for flush mounted wells and wells with low clearance.
- Different tubing configurations available. Standard 1/4" connections save cost compared to 3/8" tubing, but 3/16", 3/8" and 1/2" are available depending on the well.
- Zone Isolation available in 1", 1.25", 2" and 4" wells.

## Dedicated ZIST and Multi-level Systems

BESST's line of Panacea Pumps are fully compatible with patented Zone Isolation Sampling Technology (ZIST) which isolates the well screen from the blank casing above it, dramatically decreasing the water volume needed to be purged prior to sampling. Lower purge volumes mean less time spent in the field and less water disposal costs!

ZIST systems can also be used in nested wells to build multi-level sampling systems. Zones can be installed in riser pipe as small as 1" in diameter, with screens separated by bentonite seals.

### Benefits of ZIST

- Maintains representativeness of samples by physically isolating the well screen from the stagnant water in the casing.
- Minimizes volume of water needed to be purged prior to sampling.
- Eliminates the need for expensive packers.
- The same Panacea pump can be used for purging and for low flow sampling.
- The weight of the system is supported by the receiver, relieving tension on the tubing. This makes installation easier, and helps preserve the tubing strength.
- 1", 1.25", 2" and 4" Inline receivers available. 2" and 4" Retrofit kit available.
- Can be used in nested wells to create multi-level sampling systems.

