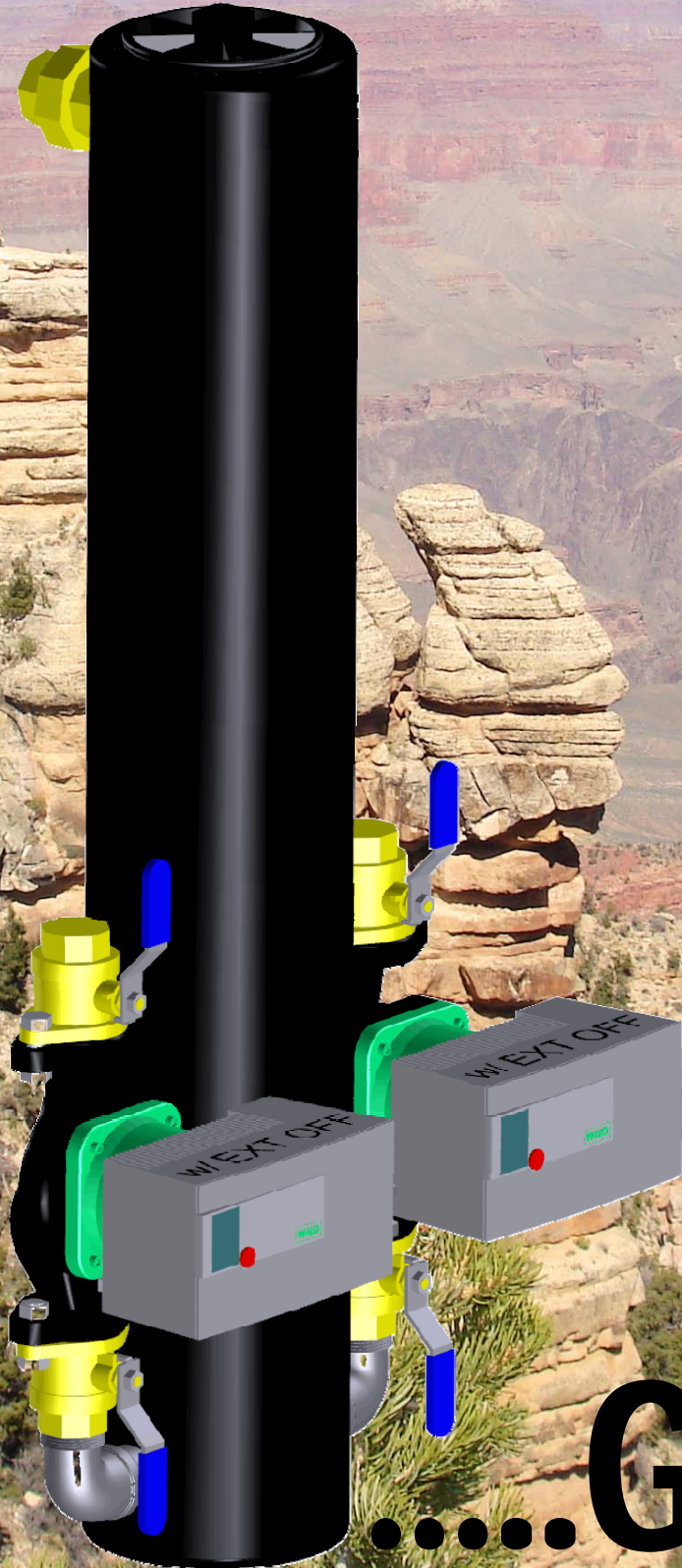


The difference between the

# GV Flow Centers

and other geothermal pumping solutions  
is....



.....**GRAND**

The GV Flow Center combines two proven technologies and a twist of innovation and is frankly, **the first flow center worthy of being incorporated into geothermal heat pump systems.** Dramatically reducing pump energy requirements, the family of GV Flow Centers incorporates a non-pressurized approach with ECM Pump Technology to meet the water source heat pump flow requirements at very low energy levels and do so in a simple robust manner.

Multiple heat pump systems from 6 to 100 Ton can now be easily and efficiently dealt with. At the heart of the product is the Wilo Stratos variable speed ECM Circulator.

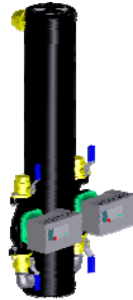
The **design support from Phoenix Energy Supply** can assist in combining energy efficient system design strategies with the appropriate GV Solution that will result in the absolute lowest pump/system energy requirements.

## The GV Family



### Basic

Simple & Elegant and a reflection of the KISS principle, the system designer should strive to use the *GV Basic* for all geothermal applications with 3 or more heat pumps.

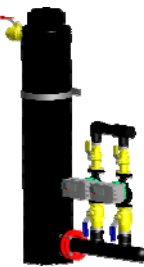


### Primary/Secondary

To deal with the higher pressure drop systems that have a degree of load diversity the *GV Primary/Secondary* should be considered as the perfect solution.

### Dual

When a degree of redundancy is desired, the *GV Dual* provides reliable operation with-out excessive penalty to first cost or performance.



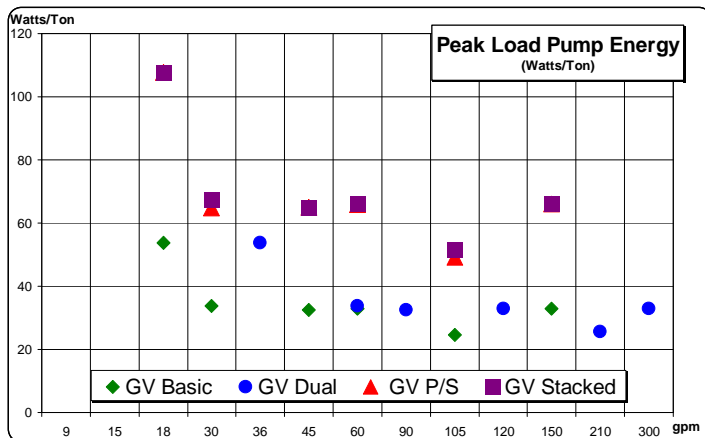
### Stacked

And for retrofits or where system pressure drop cannot be controlled to a desirable level, the *GV Stacked* can double head pressure and provide desired flow.



| SYSTEM FLOW (MAX GPM) | BASIC |           |                 | DUAL   |           |                 | PRIMARY/SECONDARY |           |                 | STACKED |           |                 |
|-----------------------|-------|-----------|-----------------|--------|-----------|-----------------|-------------------|-----------|-----------------|---------|-----------|-----------------|
|                       | MODEL | HEAD (FT) | WATTS FULL LOAD | MODEL  | HEAD (FT) | WATTS FULL LOAD | MODEL             | HEAD (FT) | WATTS FULL LOAD | MODEL   | HEAD (FT) | WATTS FULL LOAD |
| 18                    | GV06  | 38        | 323             |        |           |                 | GV06p2            | 38        | 646             | GV06z2  | 76        | 646             |
| 30                    | GV10  | 28        | 337             |        |           |                 | GV10p2            | 28        | 674             | GV10z2  | 56        | 675             |
| 36                    |       |           |                 | GV06x2 | 38        | 646             |                   |           |                 |         |           |                 |
| 45                    | GV15  | 32        | 487             |        |           |                 | GV15p2            | 32        | 974             | GV15z2  | 64        | 974             |
| 60                    | GV20  | 32        | 659             | GV10x2 | 28        | 675             | GV20p2            | 32        | 1318            | GV20z2  | 64        | 1320            |
| 90                    | GV30  | 27        | 844             | GV15x2 | 32        | 974             | GV30p2            | 27        | 1688            | GV30z2  | 54        | 1688            |
| 120                   |       |           |                 | GV20x2 | 32        | 1320            |                   |           |                 |         |           |                 |
| 150                   | GV50  | 35        | 1650            |        |           |                 | GV50p2            | 35        | 3300            | GV50z2  | 70        | 3300            |
| 180                   |       |           |                 | GV30x2 | 27        | 1690            |                   |           |                 |         |           |                 |
| 300                   |       |           |                 | GV50x2 | 34        | 3240            |                   |           |                 |         |           |                 |

The Story begins with..... *Exceptional Part Load Performance* ....and ends with *Efficient Peak Load Performance* *Huge annual Savings & Green in many ways.*



# 60 - 80%

## Savings in Dollars & Energy

As well as Environmental & Energy Independence.

### Accessories

- GVM Custom Designed and Fabricated Distribution Manifolds
- GVZM Zone Manager to Optimize Performance
- GVPS Control for Primary/Secondary Operation
- GVS Control for Stacked Operation

Contact Phoenix Energy Supply for additional information and assistance on your next project

Brought to You by:



7523 County House Road; Auburn, NY 13021

Phone: (315) 253-3720 Fax: (978) 285-5876

info@phoenixenergysupply.com

www.phoenixenergysupply.com

Can be purchased directly at www.phoenixflowcenters.com