

# Introducing **R410A GHP SCROLL COMPRESSORS**

Sanden's R410A Gas Heat Pump (GHP) Scroll Compressors are both efficient and powerful. The R410A refrigerant does not contribute to ozone depletion and due to its lower demand for power can help reduced greenhouse gas emissions from power plants. Good news for your compressor needs and good news for our planet.

TGSE05  
FIXED DISPLACEMENT



TGVE08  
2-STAGE VARIABLE



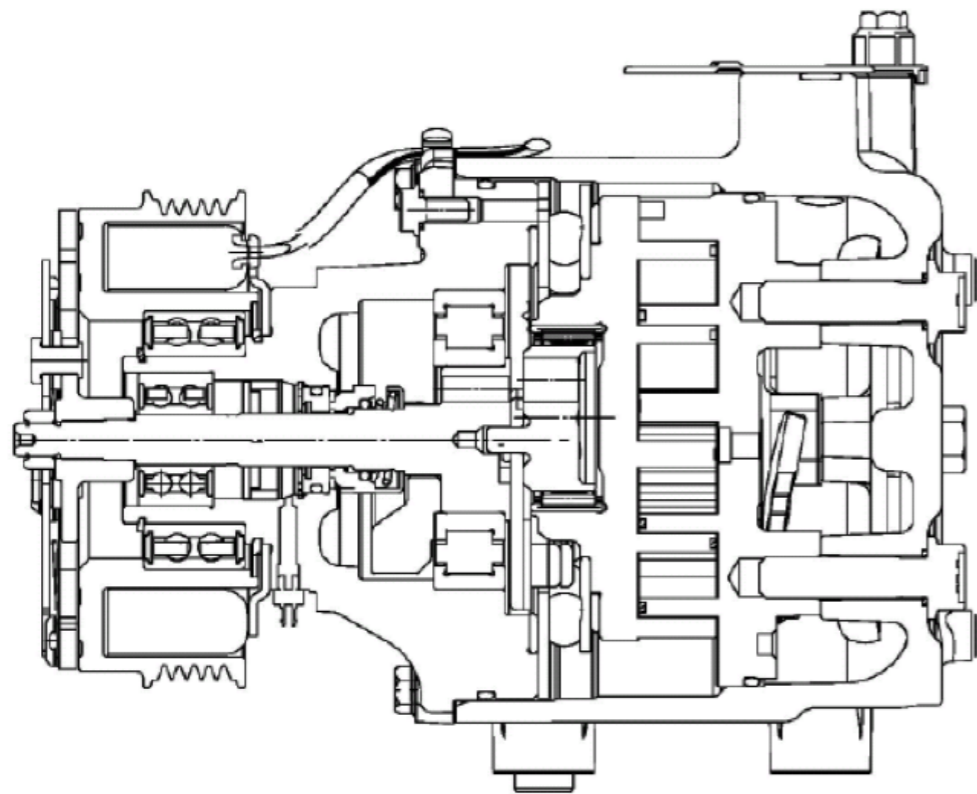
**SANDEN**

Delivering Excellence

# TGSE05 Specifications

# R410A GHP SCROLL COMPRESSORS

## FIXED DISPLACEMENT



## COMPRESSOR

|                       |                    |
|-----------------------|--------------------|
| Type                  | Fixed displacement |
| Displacement          | 52.0 cc/rev        |
| Maximum speed         | 5,000 rpm          |
| Lubricant             | NL10 / FVC68D      |
| Oil circulation ratio | Min. 5 %           |
| Refrigerant           | R410A              |
| Weight                | 18 lbs             |

## CLUTCH

|                        |                |
|------------------------|----------------|
| Rated voltage          | DC 12 V        |
| Static friction torque | 22.6 N-m       |
| Power consumption      | 50 W (68 DegF) |
| Belt type              | Poly V 5G      |
| Pulley diameter        | 115            |
| Weight                 | 5.3 lbs        |



# TGVE08 Specifications

# R410A GHP SCROLL COMPRESSORS

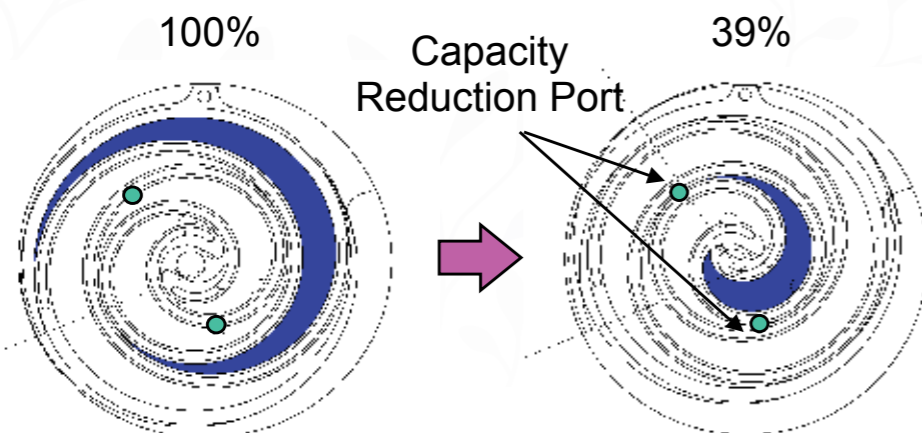
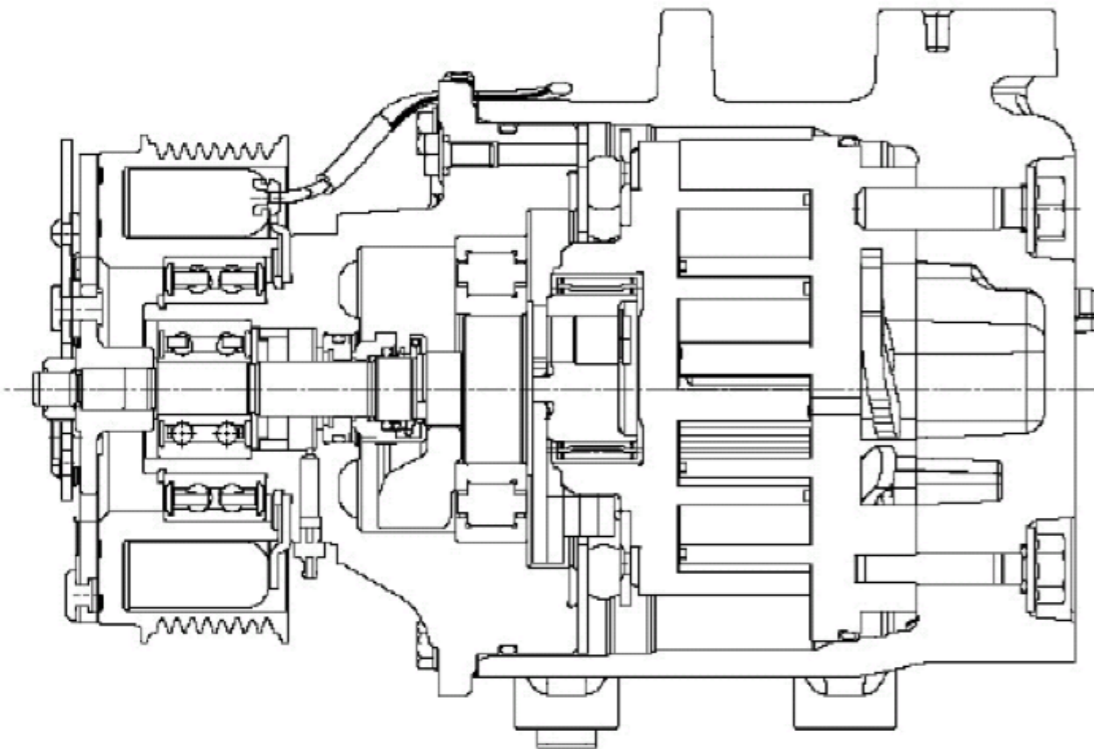
2-STAGE VARIABLE

## COMPRESSOR

|                       |                  |             |
|-----------------------|------------------|-------------|
| Type                  | 2 stage variable |             |
| Displacement          | 100%             | 86.2 cc/rev |
|                       | 39%              | 33.6 cc/rev |
| Maximum speed         | 6,000 rpm        |             |
| Lubricant             | NL10             |             |
| Oil circulation ratio | Min. 5 %         |             |
| Refrigerant           | R410A            |             |
| Weight                | 22.2 lbs         |             |

## CLUTCH

|                        |                |
|------------------------|----------------|
| Rated voltage          | DC 12 V        |
| Static friction torque | 36.2 N-m       |
| Power consumption      | 50 W (68 DegF) |
| Belt type              | Poly V 8G      |
| Pulley diameter        | 115            |
| Weight                 | 5.3 lbs        |

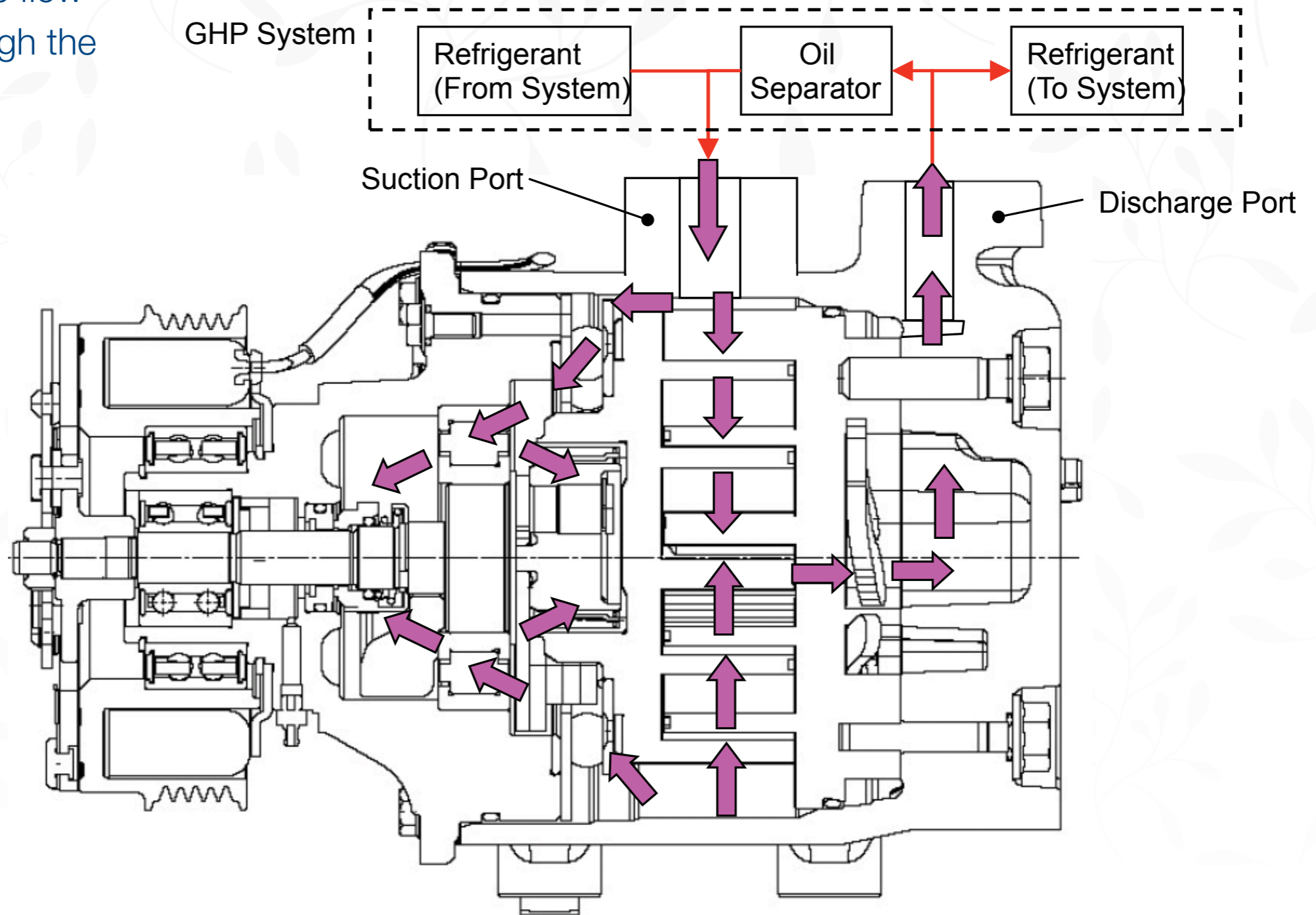




# Refrigerant & Oil Flow

## R410A GHP SCROLL COMPRESSORS

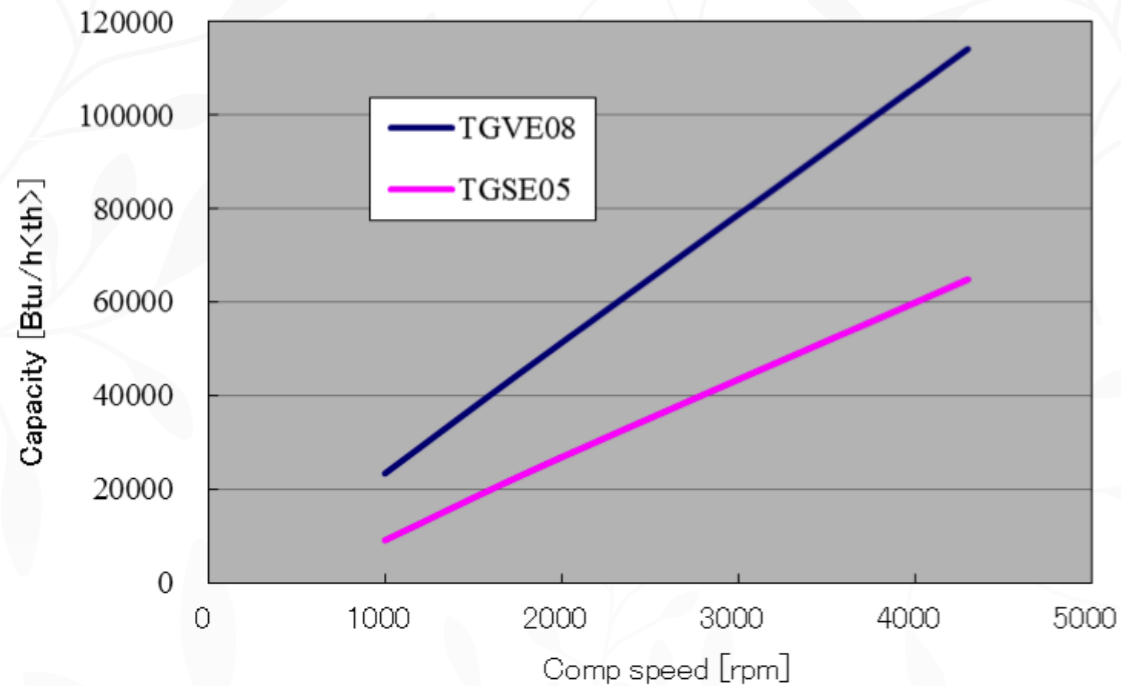
Arrows indicate the flow of refrigerant through the compressor.



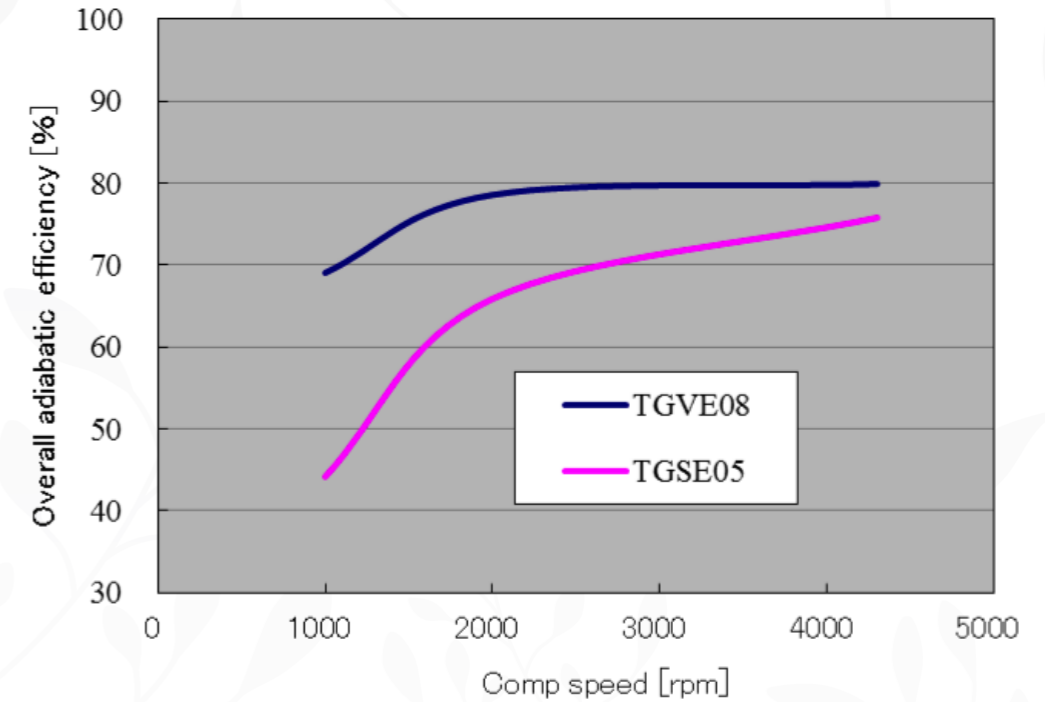
# Performance Test Data

# R410A GHP SCROLL COMPRESSORS

### CAPACITY



### OVERALL ADIABATIC EFFICIENCY



### Conditions

Discharge Pressure Pd: 413 Psig

Suction Pressure Ps: 125 Psig

Super Heat: 50°F

Sub Cool: 41°F

Oil Ratio: 5%

### POWER CONSUMPTION

