## 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



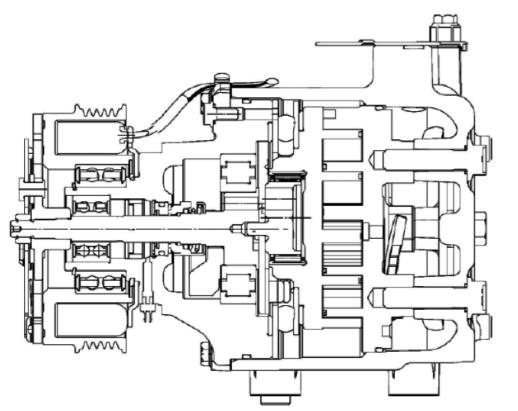




# **TGSE05** Specifications

## R410A GHP SCROLL COMPRESSORS

### FIXED DISPLACEMENT



COMPRESSOR	
Туре	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

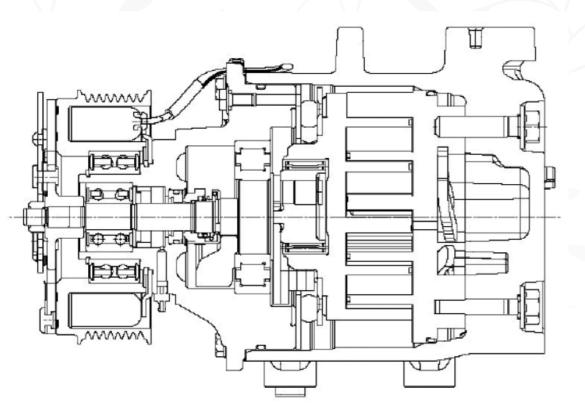
Rated voltage	DC 12 V
Static friction torque	22.6 N-m
Power consumption	50 W (68 DegF)
Belt type	Poly V 5G
Pulley diameter	115
Weight	5.3 lbs

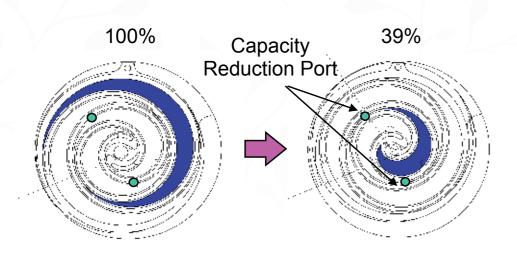


# **TGVE08 Specifications**

## R410A GHP SCROLL COMPRESSORS

#### 2-STAGE VARIABLE







COMPRESSOR	
Туре	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

DC 12 V
36.2 N-m
50 W (68 DegF)
Poly V 8G
115
5.3 lbs

## Refrigerant & Oil Flow

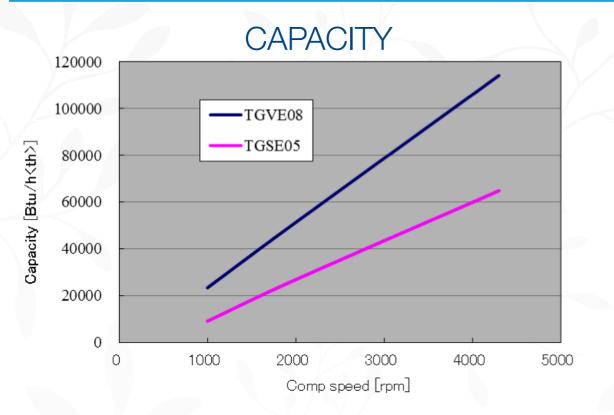
### R410A GHP SCROLL COMPRESSORS

Arrows indicate the flow GHP System of refrigerant through the Refrigerant Oil Refrigerant (From System) Separator (To System) compressor. Suction Port-**Discharge** Port www Ц (COL) - dall P) G m



Oil flow in the compressor is not controlled. Compressor must always be applied using an external oil separator.

## Performance Test Data

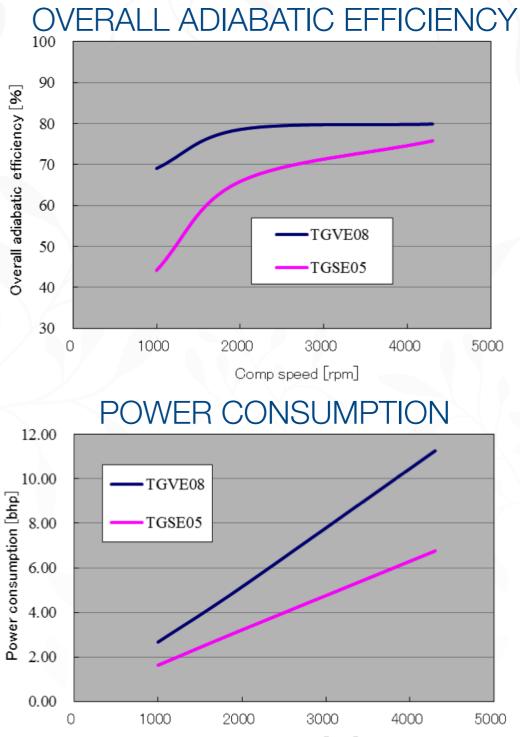


### Conditions

Discharge Pressure Pd:	413 Psig
Suction Pressure Ps:	125 Psig
Super Heat:	50°F
Sub Cool:	41°F
Oil Ratio:	5%



## R410A GHP SCROLL COMPRESSORS



Comp speed [rpm]



Sanden is a world-wide manufacturer of living and environmental systems, including HVAC components, such as GHP compressors, CO<sub>2</sub> compressors, microchannel coils, CO<sub>2</sub> heat pump water heaters, and other technologies.

At Sanden, our goal is to maximize energy efficiency and minimize environmental impact both in our products and in our manufacturing processes and facilities while creating value for our stakeholders.



Sanden's Akagi plant lies at the base of Mount Akagi in central Japan, surrounded by woodlands with abundant oaks and evergreens, ponds and wildlife. This innovative manufacturing facility is designated as an award-winning model for the coexistence of manufacturing and the environment.



## Global Distribution Network FOR CO<sub>2</sub> COMPRESSORS

**Global R&D Center** 



Sanden International
Europe

SandenVendo America



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