

# R410A GHP SCROLL COMPRESSORS

## Introduction:

Sanden's R410A Gas Heat Pump (GHP) Scroll Compressors are both efficient and powerful. The R410A refrigerant does not contribute to ozone depletion. In addition, it can help reduce greenhouse gas emissions because of its lower energy demand. Good news for your compressor needs and good news for our planet.



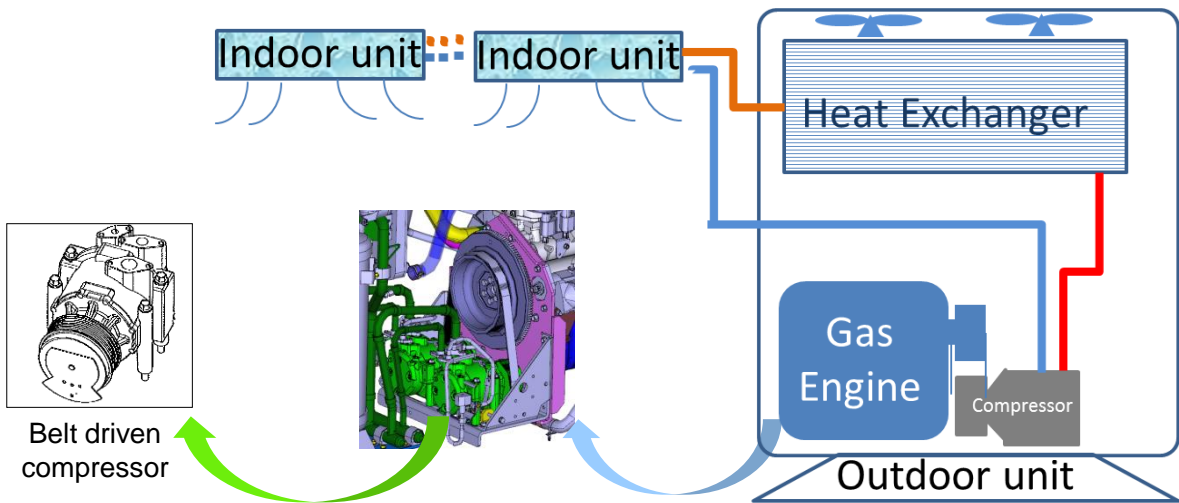
**TGSE05**  
Fixed displacement



**TGVE08**  
2 stage variable displacement

- Why GHP:**
- ✓ Low Energy Consumption
  - ✓ Energy Saving

## Mechanism of GHP AC:



## Applications:



Reference for compressor type and number of compressor(s) by capacity (HP)

Sanden Compressor Model	Displacement	GHP Unit variation				
		< 8 HP	13HP	16HP	20HP	25HP
TGVE08	86cc	1	1	2	2	2
TGSE05	52cc	1				

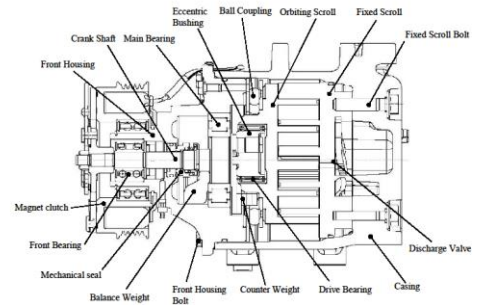
# R410A GHP SCROLL COMPRESSORS

## High Efficient GHP Scroll Compressor

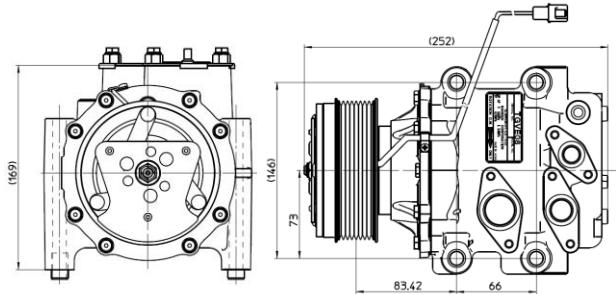
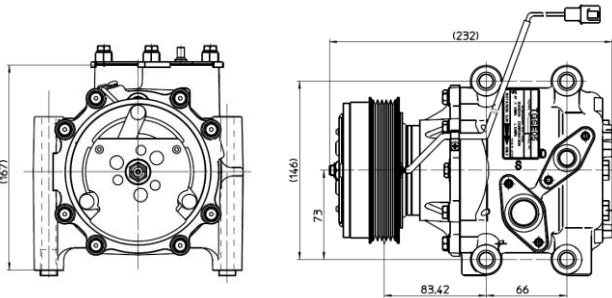
### Feature of Sanden GHP compressor:

- ◆ **Superior efficiency**  
*Unique scroll technology*
- ◆ **Quality and reliability**  
*Long life and robust design*
- ◆ **Best NVH in the industry**  
*Quiet, minimal vibration, high durability*

Cross Section View



### Specifications:



#### 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

\* Poly V 8G clutch available

#### 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

\* Poly V 5G clutch available