





- 1. Suitable for VRF systems of 24-26 HP and Chiller Heat Pump systems of 25 HP (65-75 kW).
- 2. Has a high cooling capacity, capable of replacing multiple compressors and connecting with other units for higher cooling capacity.
- 3. Enhances performance and heating capability in low ambient temperatures by Injection technology.
- 4. Features Oval Scroll technology to increase cooling capacity without changing the unit size, resulting in a compact design and reduced resource usage.
- 5. Supports R32, an environmentally friendly refrigerant with GWP less than 700 and zero ODP.

#### **SCI Oil Level Sensor**

SCI compressor comes with an SCI oil level sensor that can be used with the SCI oil supervisory unit (SOS) to improve oil level control within the compressor. This reduces oil management issues in the system, contributing to longer system lifespan and durability.





## **R32 Inverter Twin Rotary Compressor**

- 1. High efficiency motor by Joint lapped DC motor technolgy
- 2. Low noise and low vibration by twin mechanism
- 3. Patented Scrum m plate technology: enlarge stroke volume and increase efficiency
- 4. Environmentally friendly refrigerant (R32): low GWP and ODP

## **R32 Inverter Rotary Compressor**



- High efficiency motor by Joint lapped DC motor technolgy
- 2. Smaller size and light weight
- 3. Environmentally friendly refrigerant (R32) : Low GWP and ODP

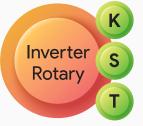


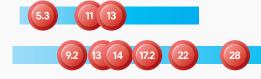




## R32 Inverter Compressor Line-up

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 kW





30.6

0 4 8 12 16 20 24 28 32 36 40 44 48 80 84 88 92 96 kW





128



## **R454B Inverter Scroll Compressor**

- Optimized performance in low ambient conditions
- Enhanced reliability with oil sensor technology
- Increased efficiency by vapor injection technology

## **R454B Inverter Twin Rotary Compressor**



- Compact size, suitable for residential 1.
- Patented scrum m plate technology to increase capacity
- 3. High efficiency by Inverter technology
- Environmentally friendly refrigerant (R454B): low GWP and ODP





## R454B Inverter Compressor Line-up

10 11 12 13 14 15 16 17 18 19 20 21 22 kW





54 kW 15 21 27 30 33 36 42







# Key features and benefits of the APB130 Compressor



- 1. Energy efficiency
- 2. Maximized capacity in low ambient temperatures
- 3. Environmentally and user-friendly
- 4. Smooth operation
- 5. Superior safety



**TPB** 

**SPB** 

# R290 Inverter Twin Rotary Compressor



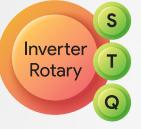
- . Compact size, suitable for residential
- 2. Patented scrum m plate technology to increase capacity
- 3. Low noise and low vibration by twin mechanism
- 4. Environmentally friendly refrigerant (R290): low GWP and ODP





## **R290 Inverter Compressor Line-up**

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 kW









0 3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 kW























Max rps at Low Temperature Condition: ET = -35 °C, CT = 40 °C, SC = 5K, SH = 11.1K



Displacement

Line-up capacity is based on R404A testing



### Medium temperature for CDU

20









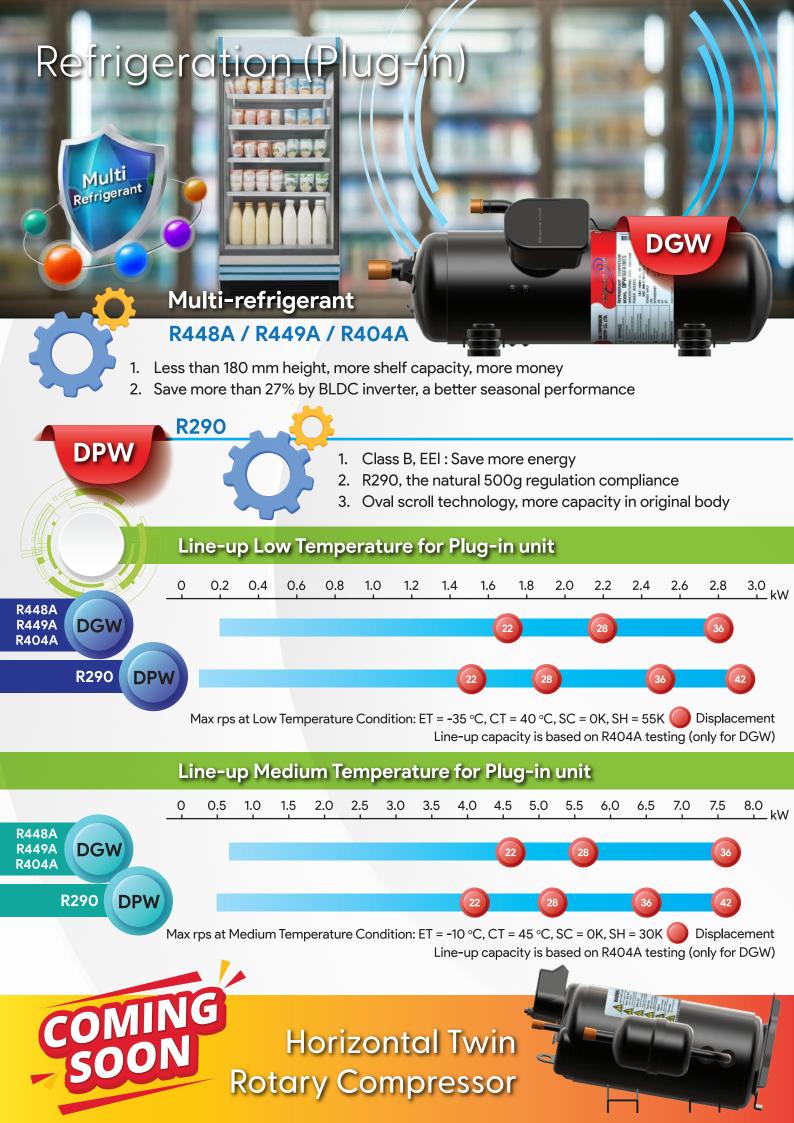




Max rps at Medium Temperature Condition: ET = -10  $^{\circ}$ C, CT = 45  $^{\circ}$ C, SC = 0K, SH = 30K



Displacement





## SCI Integrated Solution

#### **INVERTER DRIVER**

For superior operation and full effectiveness of Inverter Compressors

SCI driver is well-developed to support large capacity up to 34kW, available in 2 heat exchanging systems; liquid cooling and air cooling.

Our driver offers longer lifetime and higher safety standard making it one of the worthiest in the market.







HIGH RELIABILITY



HIGH EFFICIENCY > 95%



#### **INTELLIGENT RS485 PROTOCOL**

It can be programmed to match with user controller and there is no need for new software development



MOTOR HEATING



PERFECTLY MATCHING WITH SCI COMPRESSOR



FUNCTION



ENVELOP CONTROL

### **Inverter Driver Line-up**

**FUNCTION** 



## SCI Integrated Solution

#### THERMOACOUSTIC SHELL



10dBA sound reduction compare with same compressor model without thermoacoustic shell

- Easy to fit
- Optional for sound sensitive application such as metropolitan shops and retailers in residential areas
- Stable compressor operation and performance reliability for heating application (Heat pump)
- Increase efficiency for heating application





Scroll



#### OIL SEPARATOR

#### Features





## Superior efficiency 99%



- Light weight
- No pre-charge oil
- Use centrifugal principle
- External oil return management

#### Specifications -

- Maximum working pressure 5 MPaG
- CE marked per PED 97/83EC
- Certified by UL certification (MUTO-A4053N)





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