



- Factory Applied Condenser Fin & Tube "Blue Coil Coat" Corrosion Protection
- High Efficiency BLDC Scroll Compressor
- Slim profile, Suitable for Limited Space
- Web monitoring readiness
- Easy Access to Service
- Low Noise
- User Friendly Digital Controller with LED Display

■ Full Coil Coating
Condenser Fin &
Condenser Tube

■ Fan Speed Control *

■ EMI Filter *
Corresponding to
EMC Requirement

■ Sound Insulation
Casing

■ Additional Oil
Pre-charged

■ Easy Access Front
Door Design

■ Phase Protection
■ Discharge gas overheat
Protection
■ Hi/Low Pressure Protection
■ Compressor minimum off
time control
■ Web monitoring readiness **

■ Suction/Discharge Pressure
Gauge *

■ BLDC Scroll Compressor
20-100 RPS

■ Galvanized Steel Casing with
Powder Coating

■ Easy Access Liquid Sight
Glass with Moisture Indicator

*Optional

**Web monitoring readiness

- Remote parameter setting
- Real-time suction pressure, discharge temperature, operating duty, running status, alarm status

Inverter Benefits

■ Precision Temperature Control

Unnoticeable swing in temperature because of its adaptation of capacity to match with any variable conditions automatically

■ High Efficiency

Deliver only the energy needed to satisfy the cooling condition, thereby saving both energy and cash

■ Humidity Control

Enjoy greater comfortable climate with desired level of humidity at a glance

R404A Med Temp

| Capacity (Watts) @20Hz | | | | | | | | Power Input (Watts) @20Hz | | | | | |
|------------------------|--------------|-----------------------|------|------|------|------|------|---------------------------|------|------|------|------|------|
| Model | Ambient (°C) | Evaporating Temp (°C) | | | | | | Evaporating Temp (°C) | | | | | |
| | | -20 | -15 | -10 | -5 | 0 | 5 | -20 | -15 | -10 | -5 | 0 | 5 |
| CIV400 | 32 | 1.09 | 1.32 | 1.60 | 1.92 | 2.29 | 2.71 | 0.64 | 0.65 | 0.65 | 0.66 | 0.66 | 0.67 |
| | 38 | 0.95 | 1.17 | 1.44 | 1.75 | 2.11 | 2.52 | 0.72 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 |
| | 43 | 0.86 | 1.07 | 1.32 | 1.62 | 1.96 | 2.35 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| CIV500 | 32 | 1.24 | 1.58 | 1.94 | 2.34 | 2.80 | 3.32 | 0.76 | 0.78 | 0.79 | 0.80 | 0.81 | 0.81 |
| | 38 | 1.11 | 1.43 | 1.77 | 2.16 | 2.59 | 3.08 | 0.84 | 0.86 | 0.87 | 0.89 | 0.90 | 0.91 |
| | 43 | 1.01 | 1.31 | 1.63 | 1.99 | 2.40 | 2.87 | 0.92 | 0.94 | 0.95 | 0.97 | 0.99 | 1.00 |
| CIV800 | 32 | 2.09 | 2.64 | 3.29 | 4.05 | 4.91 | 5.87 | 1.63 | 1.62 | 1.60 | 1.59 | 1.59 | 1.58 |
| | 38 | 1.92 | 2.42 | 3.03 | 3.73 | 4.54 | 5.45 | 1.77 | 1.75 | 1.74 | 1.73 | 1.72 | 1.71 |
| | 43 | 1.75 | 2.22 | 2.78 | 3.45 | 4.21 | 5.08 | 1.90 | 1.88 | 1.87 | 1.86 | 1.85 | 1.85 |
| CIV1000 | 32 | 2.56 | 3.23 | 4.03 | 4.95 | 5.99 | 7.13 | 1.73 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 |
| | 38 | 2.33 | 2.96 | 3.70 | 4.56 | 5.52 | 6.60 | 1.93 | 1.92 | 1.92 | 1.93 | 1.94 | 1.95 |
| | 43 | 2.13 | 2.71 | 3.41 | 4.21 | 5.12 | 6.12 | 2.15 | 2.15 | 2.15 | 2.16 | 2.17 | 2.19 |

| Capacity (Watts) @60Hz | | | | | | | | Power Input (Watts) @60Hz | | | | | |
|------------------------|--------------|-----------------------|------|-------|-------|-------|-------|---------------------------|------|------|------|------|------|
| Model | Ambient (°C) | Evaporating Temp (°C) | | | | | | Evaporating Temp (°C) | | | | | |
| | | -20 | -15 | -10 | -5 | 0 | 5 | -20 | -15 | -10 | -5 | 0 | 5 |
| CIV400 | 32 | 3.15 | 3.80 | 4.60 | 5.56 | 6.67 | 7.91 | 1.76 | 1.81 | 1.87 | 1.91 | 1.94 | 1.96 |
| | 38 | 3.08 | 3.68 | 4.43 | 5.33 | 6.36 | 7.52 | 2.05 | 2.09 | 2.12 | 2.15 | 2.18 | 2.20 |
| | 43 | 2.95 | 3.50 | 4.20 | 5.03 | 6.00 | 7.09 | 2.31 | 2.33 | 2.35 | 2.38 | 2.40 | 2.42 |
| CIV500 | 32 | 3.86 | 4.89 | 6.00 | 7.22 | 8.56 | 10.07 | 2.21 | 2.30 | 2.37 | 2.45 | 2.53 | 2.60 |
| | 38 | 3.48 | 4.45 | 5.48 | 6.60 | 7.86 | 9.26 | 2.48 | 2.56 | 2.66 | 2.75 | 2.84 | 2.93 |
| | 43 | 3.14 | 4.05 | 5.01 | 6.06 | 7.23 | 8.55 | 2.75 | 2.83 | 2.93 | 3.02 | 3.12 | 3.22 |
| CIV800 | 32 | 6.62 | 8.07 | 9.79 | 11.77 | 13.95 | 16.38 | 4.22 | 4.23 | 4.27 | 4.32 | 4.40 | 4.49 |
| | 38 | 6.05 | 7.38 | 8.96 | 10.79 | 12.85 | 15.12 | 4.68 | 4.70 | 4.74 | 4.81 | 4.90 | 5.02 |
| | 43 | 5.54 | 6.75 | 8.22 | 9.94 | 11.87 | 14.01 | 5.10 | 5.14 | 5.19 | 5.27 | 5.38 | 5.51 |
| CIV1000 | 32 | 7.64 | 9.29 | 11.27 | 13.56 | 16.11 | 18.91 | 4.68 | 4.72 | 4.79 | 4.88 | 5.00 | 5.15 |
| | 38 | 6.92 | 8.46 | 10.29 | 12.42 | 14.82 | 17.45 | 5.27 | 5.31 | 5.39 | 5.50 | 5.63 | 5.80 |
| | 43 | 6.27 | 7.71 | 9.45 | 11.46 | 13.75 | 16.25 | 5.81 | 5.86 | 5.95 | 6.07 | 6.21 | 6.38 |

| Capacity (Watts) @100Hz | | | | | | | | Power Input (Watts) @100Hz | | | | | |
|-------------------------|--------------|-----------------------|-------|-------|-------|-------|-------|----------------------------|-------|-------|-------|-------|-------|
| Model | Ambient (°C) | Evaporating Temp (°C) | | | | | | Evaporating Temp (°C) | | | | | |
| | | -20 | -15 | -10 | -5 | 0 | 5 | -20 | -15 | -10 | -5 | 0 | 5 |
| CIV400 | 32 | 5.08 | 6.14 | 7.43 | 8.91 | 10.59 | 12.43 | 3.53 | 3.68 | 3.81 | 3.92 | 4.02 | 4.11 |
| | 38 | 4.61 | 5.58 | 6.77 | 8.15 | 9.69 | 11.40 | 4.11 | 4.23 | 4.33 | 4.43 | 4.53 | 4.61 |
| | 43 | 4.18 | 5.08 | 6.17 | 7.46 | 8.88 | 10.46 | 4.65 | 4.74 | 4.82 | 4.90 | 4.99 | 5.07 |
| CIV500 | 32 | 5.99 | 7.56 | 9.21 | 10.96 | 12.90 | 15.01 | 4.32 | 4.53 | 4.75 | 4.99 | 5.23 | 5.48 |
| | 38 | 5.34 | 6.79 | 8.30 | 9.91 | 11.68 | 13.63 | 4.88 | 5.10 | 5.33 | 5.58 | 5.84 | 6.12 |
| | 43 | 4.77 | 6.12 | 7.52 | 9.01 | 10.63 | 12.44 | 5.42 | 5.63 | 5.87 | 6.13 | 6.42 | 6.72 |
| CIV800 | 32 | 10.15 | 12.14 | 14.52 | 17.20 | 20.20 | 23.41 | 7.81 | 8.01 | 8.25 | 8.57 | 8.93 | 9.37 |
| | 38 | 9.09 | 10.89 | 13.05 | 15.55 | 18.33 | 21.35 | 8.64 | 8.87 | 9.16 | 9.50 | 9.90 | 10.37 |
| | 43 | 8.13 | 9.79 | 11.79 | 14.12 | 16.70 | 19.54 | 9.46 | 9.71 | 10.02 | 10.40 | 10.86 | 11.37 |
| CIV1000 | 32 | 11.86 | 14.12 | 16.86 | 19.97 | 23.43 | 27.18 | 8.95 | 9.22 | 9.54 | 9.93 | 10.38 | 10.91 |
| | 38 | 10.63 | 12.71 | 15.21 | 18.08 | 21.28 | 24.76 | 9.97 | 10.24 | 10.57 | 11.00 | 11.49 | 12.08 |
| | 43 | 9.53 | 11.45 | 13.78 | 16.45 | 19.45 | 22.71 | 10.87 | 11.15 | 11.50 | 11.96 | 12.49 | 13.13 |

Note : The rating condition is based on a suction superheat of 10 K. , Subcooling with the limits of the condensing unit

R448A / R449A Med Temp

| Capacity (Watts) @20Hz | | | | | | | | Power Input (Watts) @20Hz | | | | | |
|------------------------|--------------|-----------------------|------|------|------|------|------|---------------------------|------|------|------|------|------|
| Model | Ambient (°C) | Evaporating Temp (°C) | | | | | | Evaporating Temp (°C) | | | | | |
| | | -20 | -15 | -10 | -5 | 0 | 5 | -20 | -15 | -10 | -5 | 0 | 5 |
| CIV400 | 32 | 0.89 | 1.10 | 1.35 | 1.64 | 1.99 | 2.38 | 0.56 | 0.58 | 0.59 | 0.60 | 0.61 | 0.62 |
| | 38 | 0.83 | 1.02 | 1.26 | 1.54 | 1.86 | 2.23 | 0.63 | 0.64 | 0.66 | 0.67 | 0.68 | 0.69 |
| | 43 | 0.77 | 0.95 | 1.18 | 1.45 | 1.76 | 2.11 | 0.69 | 0.71 | 0.72 | 0.73 | 0.75 | 0.76 |
| CIV500 | 32 | 1.05 | 1.35 | 1.69 | 2.07 | 2.51 | 3.03 | 0.71 | 0.73 | 0.75 | 0.76 | 0.78 | 0.79 |
| | 38 | 0.96 | 1.25 | 1.56 | 1.91 | 2.33 | 2.81 | 0.78 | 0.81 | 0.83 | 0.85 | 0.87 | 0.88 |
| | 43 | 0.88 | 1.15 | 1.44 | 1.78 | 2.16 | 2.62 | 0.85 | 0.88 | 0.91 | 0.93 | 0.95 | 0.97 |
| CIV800 | 32 | 1.71 | 2.14 | 2.69 | 3.33 | 4.08 | 4.90 | 1.38 | 1.41 | 1.44 | 1.46 | 1.46 | 1.46 |
| | 38 | 1.58 | 1.99 | 2.50 | 3.12 | 3.82 | 4.61 | 1.51 | 1.54 | 1.57 | 1.59 | 1.60 | 1.60 |
| | 43 | 1.47 | 1.85 | 2.34 | 2.92 | 3.60 | 4.35 | 1.63 | 1.67 | 1.70 | 1.73 | 1.74 | 1.74 |
| CIV1000 | 32 | 2.17 | 2.77 | 3.49 | 4.33 | 5.27 | 6.31 | 1.46 | 1.51 | 1.54 | 1.57 | 1.60 | 1.61 |
| | 38 | 2.01 | 2.57 | 3.26 | 4.05 | 4.94 | 5.92 | 1.67 | 1.72 | 1.76 | 1.79 | 1.82 | 1.83 |
| | 43 | 1.86 | 2.39 | 3.04 | 3.79 | 4.64 | 5.58 | 1.87 | 1.92 | 1.96 | 2.00 | 2.03 | 2.04 |

| Capacity (Watts) @60Hz | | | | | | | | Power Input (Watts) @60Hz | | | | | |
|------------------------|--------------|-----------------------|------|------|-------|-------|-------|---------------------------|------|------|------|------|------|
| Model | Ambient (°C) | Evaporating Temp (°C) | | | | | | Evaporating Temp (°C) | | | | | |
| | | -20 | -15 | -10 | -5 | 0 | 5 | -20 | -15 | -10 | -5 | 0 | 5 |
| CIV400 | 32 | 2.84 | 3.41 | 4.13 | 4.99 | 5.99 | 7.11 | 1.56 | 1.61 | 1.66 | 1.70 | 1.74 | 1.77 |
| | 38 | 2.70 | 3.23 | 3.91 | 4.73 | 5.67 | 6.74 | 1.79 | 1.84 | 1.89 | 1.93 | 1.97 | 2.01 |
| | 43 | 2.57 | 3.07 | 3.71 | 4.49 | 5.40 | 6.41 | 2.01 | 2.05 | 2.10 | 2.15 | 2.19 | 2.23 |
| CIV500 | 32 | 3.34 | 4.30 | 5.31 | 6.43 | 7.71 | 9.20 | 1.84 | 1.93 | 2.02 | 2.10 | 2.19 | 2.28 |
| | 38 | 3.03 | 3.92 | 4.86 | 5.89 | 7.09 | 8.46 | 2.06 | 2.16 | 2.26 | 2.36 | 2.45 | 2.57 |
| | 43 | 2.74 | 3.58 | 4.46 | 5.43 | 6.55 | 7.85 | 2.26 | 2.38 | 2.48 | 2.59 | 2.70 | 2.82 |
| CIV800 | 32 | 5.40 | 6.68 | 8.19 | 9.92 | 11.86 | 14.03 | 3.49 | 3.64 | 3.77 | 3.90 | 4.02 | 4.13 |
| | 38 | 5.04 | 6.23 | 7.64 | 9.27 | 11.11 | 13.17 | 3.90 | 4.06 | 4.22 | 4.37 | 4.51 | 4.63 |
| | 43 | 4.71 | 5.83 | 7.16 | 8.71 | 10.47 | 12.43 | 4.30 | 4.47 | 4.65 | 4.81 | 4.96 | 5.11 |
| CIV1000 | 32 | 6.58 | 8.08 | 9.95 | 12.11 | 14.55 | 17.19 | 3.90 | 4.09 | 4.28 | 4.46 | 4.64 | 4.83 |
| | 38 | 6.08 | 7.51 | 9.28 | 11.31 | 13.62 | 16.11 | 4.39 | 4.61 | 4.82 | 5.04 | 5.25 | 5.47 |
| | 43 | 5.65 | 7.02 | 8.70 | 10.64 | 12.82 | 15.20 | 4.85 | 5.09 | 5.34 | 5.58 | 5.82 | 6.06 |

| Capacity (Watts) @100Hz | | | | | | | | Power Input (Watts) @100Hz | | | | | |
|-------------------------|--------------|-----------------------|-------|-------|-------|-------|-------|----------------------------|------|-------|-------|-------|-------|
| Model | Ambient (°C) | Evaporating Temp (°C) | | | | | | Evaporating Temp (°C) | | | | | |
| | | -20 | -15 | -10 | -5 | 0 | 5 | -20 | -15 | -10 | -5 | 0 | 5 |
| CIV400 | 32 | 4.41 | 5.35 | 6.54 | 7.92 | 9.49 | 11.19 | 3.10 | 3.23 | 3.37 | 3.51 | 3.63 | 3.76 |
| | 38 | 4.06 | 4.94 | 6.04 | 7.35 | 8.83 | 10.43 | 3.58 | 3.72 | 3.85 | 3.99 | 4.12 | 4.25 |
| | 43 | 3.76 | 4.58 | 5.62 | 6.86 | 8.25 | 9.78 | 4.04 | 4.17 | 4.30 | 4.43 | 4.58 | 4.72 |
| CIV500 | 32 | 5.13 | 6.55 | 8.03 | 9.64 | 11.44 | 13.50 | 3.34 | 3.55 | 3.76 | 3.98 | 4.21 | 4.48 |
| | 38 | 4.58 | 5.91 | 7.28 | 8.76 | 10.43 | 12.36 | 3.75 | 3.98 | 4.21 | 4.46 | 4.72 | 5.01 |
| | 43 | 4.12 | 5.38 | 6.66 | 8.05 | 9.62 | 11.42 | 4.13 | 4.38 | 4.64 | 4.90 | 5.19 | 5.51 |
| CIV800 | 32 | 8.43 | 10.26 | 12.40 | 14.86 | 17.59 | 20.58 | 6.49 | 6.89 | 7.31 | 7.73 | 8.17 | 8.63 |
| | 38 | 7.75 | 9.47 | 11.49 | 13.76 | 16.30 | 19.08 | 7.29 | 7.74 | 8.18 | 8.65 | 9.13 | 9.62 |
| | 43 | 7.17 | 8.80 | 10.69 | 12.83 | 15.22 | 17.85 | 8.07 | 8.55 | 9.03 | 9.52 | 10.03 | 10.53 |
| CIV1000 | 32 | 10.46 | 12.57 | 15.17 | 18.15 | 21.45 | 25.03 | 7.48 | 7.97 | 8.48 | 9.05 | 9.68 | 10.35 |
| | 38 | 9.56 | 11.56 | 13.99 | 16.79 | 19.87 | 23.20 | 8.34 | 8.88 | 9.47 | 10.11 | 10.83 | 11.59 |
| | 43 | 8.82 | 10.71 | 13.00 | 15.64 | 18.55 | 21.66 | 9.14 | 9.75 | 10.41 | 11.12 | 11.91 | 12.78 |

Note : 1. The rating condition is based on a suction superheat of 10 K, Subcooling with the limits of the condensing unit
 2. R448A & R449A are considered at dew point

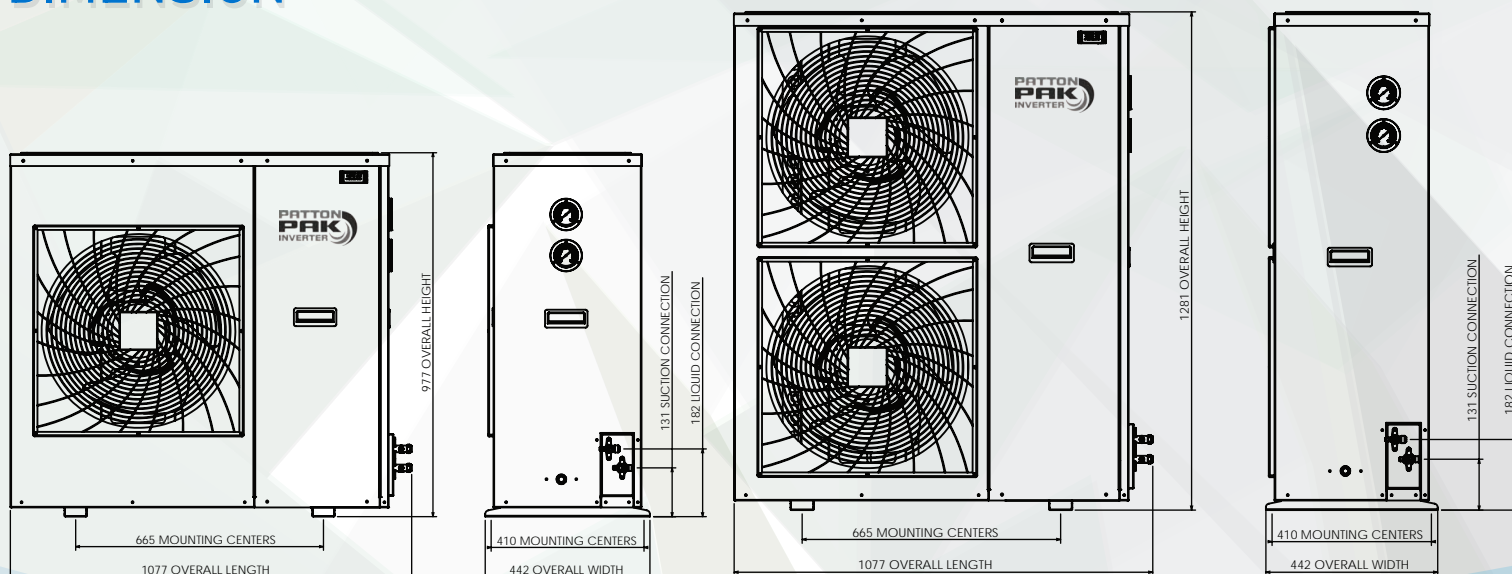
TECHNICAL DATA

| Model Name | CIV400 | CIV500 | CIV800 | CIV1000 |
|-----------------------|--------------------------|-------------|-------------|-------------|
| COMPRESSOR | | | | |
| Model | ADB33FCAMTS | ADB42FCAMTS | ADB66FDAMTS | ADB78FDAMTS |
| Voltage | 3PH AC 380-460V 50/60 Hz | | | |
| RLA Amps | 7.5 | 9.1 | 13.3 | 15.2 |
| MCC Amps | 13.1 | 13.1 | 21.5 | 23.8 |
| Oil Type | PVE 68 | | | |
| Oil Pre-charge | 1.9 L | | | |
| CONDENSER | | | | |
| Airflow (m3/hr) | 4,880 | 4,880 | 8,600 | 9,690 |
| No. Fan Motor (1) | 1 x 20" | 1 x 20" | 2 x 20" | 2 x 20" |
| Total Watts | 118 | 118 | 236 | 236 |
| Receiver (litre) | 7.9 | 7.9 | 7.9 | 7.9 |
| Suction size | 7/8" | 7/8" | 1-1/8" | 1-1/8" |
| Liquid size | 1/2" | 1/2" | 1/2" | 5/8" |
| Weight (kg) | 105 | 108 | 130 | 140 |
| Noise level (dBA) (2) | 63 | 63 | 64 | 64 |

Note : (1) All fans 220-240V / 1PH / 50Hz

(2) All noise level rating are "Free Field" based at a distance of 2.0 meters and 100 RPS

DIMENSION





SCMREF THAI

"Quality we care, United we are"