

## TECHNICAL SERVICE BULLETIN

**Product:** Cornelius Viper

Subject: Critical Refrigeration System Component Change on 2, 3 and 4 Barrel 60Hz Viper

Dispensers – 3<sup>rd</sup> Revision

Date: 6/29/2022

**Description of Potential Issue:** Installing incorrect component(s), type of refrigerant, or charge amount for a specific system.

Serial Number Range Affected: The new refrigeration components were implemented with serial number: 62E2022VP001

Cause: Compliance with EPA regulations. There are handful of states including DC that have banned equipment with R404a refrigerant already: CA, WA, CO, VA, NY, NJ, VT, MA, DE, MD, RI, DC. Other states – can still accept it but we anticipate them to ban R404a in a near future. Canada – can only use equipment with R448a.

Additional Info: Cornelius 3 Barrel and 4 Barrel 60Hz Viper compressor changed from a Copeland ZB-19 scroll compressor to a Copeland ZS-19 scroll compressor. The Copeland ZB-19 scroll compressor is 404A specific while the Copeland ZS-19 scroll compressor is compatible with 404A and 448A. The change from the ZB-19 compressor to the ZS-19 compressor required additional component changes as well as a different refrigerant charge amount. See matrix below detailing specific component change and refrigerant charge amount per specific system.

Conclusion: All 60Hz 3 Barrel and 4 Barrel Cornelius Vipers manufactured prior to the 22nd week of 2020 will utilize 404A refrigerant with the ZB-19 compressor and 404A compatible components. Cornelius 3 Barrel and 4 Barrel 60Hz Vipers built the 22nd week of 2020 or after and shipped within the USA will utilize 404A refrigerant with the ZS-19 compressor and 404A compatible components. All Cornelius Vipers manufactured with R448a refrigerant will utilize the Copeland ZS-19 and 448A compatible components.





















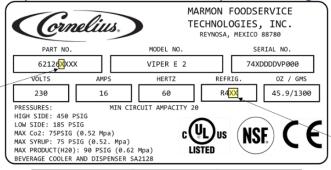


Refrigerant Code

0 = R404a

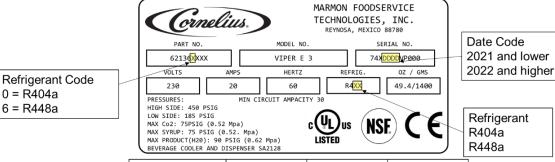
6 = R448a

## **Viper 2 Barrel Critical REF Component Changes**



| Refrigerant                | R404a R448a        |                    |  |
|----------------------------|--------------------|--------------------|--|
| Part No.                   | 621260XXX 621266XX |                    |  |
| Serial Number Date<br>Code | n/a                | n/a                |  |
| Compressor                 | 620607926          | 20607926 620072509 |  |
| Condenser                  | 620608016          | 620071570          |  |
| Fan                        | 629096902          | 620073140          |  |
| AEV                        | 620609156          | 620071188          |  |
| TXV                        | n/a 620072704      |                    |  |
| Thermostat Switch          | n/a 620072408      |                    |  |
| Charge                     | 60 oz. / 1700 g    | 45.9 oz. / 1300 g  |  |

## **Viper 3 Barrel Critical REF Component Changes**



| Refrigerant                | R404a           | R404a             | R448a             |
|----------------------------|-----------------|-------------------|-------------------|
| Part No.                   | 621360XXX       | 621360XXX         | 621366XXX         |
| Serial Number Date<br>Code | 2021 or earlier | 2022 or later     | n/a               |
| Compressor                 | 620607932       | 620070871         | 620070871         |
| Condenser                  | 620608016       | 620071625         | 620071625         |
| Fan                        | 620073140       | 620073140         | 620073140         |
| AEV                        | 620609156       | 620609156         | 620071188         |
| TXV                        | n/a             | n/a               | 620072704         |
| Thermostat Switch          | n/a             | n/a               | 620072408         |
| Charge                     | 96 oz. / 2722 g | 74.1 oz. / 2100 g | 49.4 oz. / 1400 g |

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Refrigerant R404a R448a

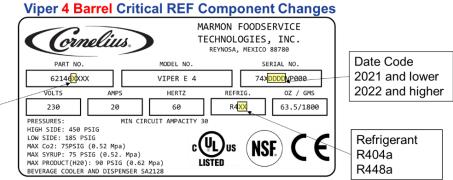




Refrigerant Code

0 = R404a

6 = R448a



Refrigerant R404a R404a R448a Part No. 621360XXX 621360XXX 621366XXX Serial Number Date 2021 or earlier 2022 or later n/a Code 620070871 620070871 Compressor 620607932 Condenser 620608016 620071625 620071625 Fan 620073140 620073140 620073140 AEV 620609156 620609156 620071188 TXV 620072704 n/a n/a Thermostat Switch 620072408 n/a n/a Charge 108 oz. / 3062 g 81.1 oz. / 2300 g 63.5 oz. / 1800 g

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