

TECHNICAL INFORMATION COMMUNICATION



Quality and Continuous Improvement

Number: TIC 2019-0006

Date: 04/23/2019

Title: Factory Charge Clarification on Residential Split A/Cs Literature

Product Category: Residential Split Systems

Products Affected:

Residential Split Systems

Situation:

Outdoor split system factory refrigerant charge may not always be sufficient for 15 ft. of lineset on certain models and certain tonnages. The purpose of this document is to clarify the amount of refrigerant charge shipped in the unit and show the amount of refrigerant needed with the indoor coil match that is the Designated Tested Combination AHRI Certified Rating and with 15 ft. lineset.

Technical Information:

Due to coil size and other factors, the factory refrigerant charge levels in certain models may not be sufficient for 15 ft of lineset. The unit rating plate indicates the refrigerant charge amount installed at the factory. Please use the table below to help determine what additional charge may be needed at the time of install. Models in the table with dashes (--) indicate no adjustment necessary for 15 ft of lineset. All other models and tonnages not listed in the table are shipped with sufficient refrigerant for 15 ft of lineset. Literature is being updated and will be implemented as a running change in production.

References:

| Model Number | SEER | 018 | | 024 | | 030 | | 036 | | 042 | | 048 | |
|--------------|------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|
| | | Factory charge lbs | * Required charge lbs | Factory charge lbs | * Required charge lbs | Factory charge lbs | * Required charge lbs | Factory charge lbs | * Required charge lbs | Factory charge lbs | * Required charge lbs | Factory charge lbs | * Required charge lbs |
| 105A | 15 | 3.83 | 4.82 | 4.60 | -- | 5.67 | -- | 7.37 | -- | 7.46 | -- | 8.31 | -- |
| 113A | 13 | 3.15 | 4.20 | 3.15 | 4.17 | 4.30 | 4.90 | 4.67 | 5.36 | 5.84 | -- | 7.10 | 8.20 |
| 114CNA | 14 | 3.72 | 4.77 | 3.87 | 4.20 | 5.67 | -- | 5.42 | -- | 7.94 | -- | 8.31 | -- |
| 123A | 13 | 3.15 | 4.20 | 4.40 | -- | 5.12 | -- | 5.32 | -- | 5.84 | -- | 8.00 | -- |
| 24AAA5 | 15 | 3.83 | 4.82 | 4.60 | -- | 5.67 | -- | 7.37 | -- | 7.46 | -- | 8.31 | -- |
| 24ABB3 | 13 | 3.15 | 4.20 | 3.15 | 4.17 | 4.30 | 4.90 | 4.67 | 5.36 | 5.84 | -- | 7.10 | 8.20 |
| 24ABB3 3ph | 13 | | | | | 4.10 | 4.90 | 5.34 | -- | 5.84 | -- | 7.00 | 8.20 |
| 24ACB3 | 13 | 3.15 | 4.20 | 4.40 | -- | 5.12 | -- | 5.32 | -- | 5.84 | -- | 8.00 | -- |
| 24ACC4 | 14 | 3.72 | 4.77 | 3.87 | 4.20 | 5.67 | -- | 5.42 | -- | 7.94 | -- | 8.31 | -- |
| BA13NA | 13 | 3.15 | 4.20 | 3.15 | 4.17 | 4.30 | 4.90 | 4.67 | 5.36 | 6.07 | -- | 7.10 | 8.20 |
| BA14NA | 14 | 3.18 | 4.77 | 3.73 | 4.20 | 5.67 | -- | 4.67 | 5.42 | 7.90 | -- | 8.31 | -- |
| BA15NA | 15 | 3.70 | 4.82 | 4.60 | -- | 5.67 | -- | 6.40 | -- | 7.46 | -- | 8.31 | -- |
| CA13NA | 13 | 3.15 | 4.20 | 3.15 | 4.17 | 4.30 | 4.90 | 4.67 | 5.36 | 6.07 | -- | 7.10 | 8.20 |
| CA14NA | 14 | 3.18 | 4.77 | 3.73 | 4.20 | 5.67 | -- | 4.67 | 5.42 | 7.90 | -- | 8.31 | -- |
| CA15NA | 15 | 3.70 | 4.82 | 4.60 | -- | 5.67 | -- | 6.40 | -- | 7.46 | -- | 8.31 | -- |
| PA13NA | 13 | 3.15 | 4.20 | 3.15 | 4.17 | 4.30 | 4.90 | 4.67 | 5.36 | 6.07 | -- | 7.10 | 8.20 |
| PA13NA 3ph | 13 | | | | | | | 4.67 | 5.36 | | | 7.00 | 8.20 |
| PA14NC | 14 | 3.18 | 4.77 | 3.73 | 4.20 | 5.67 | -- | 4.67 | 5.42 | 7.90 | -- | 8.31 | -- |
| PA15NC | 15 | 3.70 | 4.82 | 4.60 | -- | 5.67 | -- | 6.40 | -- | 7.46 | -- | 8.31 | -- |

* Required charge for 15 ft of lineset

Only trained and qualified personnel should design, install, repair and service HVAC systems and equipment. All national standards and safety codes must be followed when designing, installing, repairing and servicing HVAC systems and equipment. It is the responsibility of the Dealer to ensure local codes, standards, and ordinances are met.