

MAHLE AFTERMARKET INC. LETTER REPORT

SCOPE OF WORK

LETTER OF EQUIVALANCE FOR THE MISSING MODELS IN ETL LISTING REPORT
101574769COL-008

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Subject: Letter of Equivalence between Model 1281 and Model 1280 Listed in ETL Report 101574769COL-008

Dear Mr. Issac Nielsen,

This letter report represents the results of our evaluation of the above referenced product(s) to the requirements contained in the following standards:

Standard for Refrigerant Recovery/Recycling Equipment [UL 1963:2011 Ed.4]

Refrigeration Equipment (R2018) [CSA C22.2#120:2013 Ed.4]

SECTION 1 SUMMARY

Intertek wishes to inform you that after a thorough evaluation, we have determined that the ArticPRO® 1281 model of Automotive Refrigerant Recovery, Recycling, and Recharge Equipment is equivalent to the ArticPRO® 1280 model, which is certified under the ETL listing report 101574769COL-008. Both models are used for servicing the air conditioning systems of vehicles that utilize R-1234yf refrigerant.

Our evaluation of the critical components, design, and key specifications (such as power ratings, material compatibility, protection against shock and fire, etc.) has shown that the operational safety of both models is equivalent. Further details on the key equivalency aspects are provided in Section 2.

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SECTION 2

KEY EQUIVALENCY DETAILS:

1. CRITICAL COMPONENTS & MATERIALS

We compared the critical components and materials of the ArticPRO® 1281 model with the ArticPRO® 1280 model, which is ETL listed under report 101574769COL-008. Both models share similar key components, including:

- **Enclosure Material:** Both models have enclosure material with a UL flammability rating of HB. The aesthetic design and logo were the only thing that differed between the two models which does not affect the operational safety of the ArticPRO® 1281.
- **Electrical Components:** All key electrical components, such as the on/off switches, relays, high voltage conductors, compressor, vacuum pump, appliance inlet, circuit breaker, ventilation fans, power supply cord, and attachment plug, are sourced from the same manufacturer and have identical specifications in both models.
- **Ignition Components:** The ignition components in both models are from the same manufacturer and model, and have been verified to ensure they do not cause ignition of leaked R-1234yf.

While most components are identical, there are a few differences between the ArticPRO® 1281 model and the ETL listed ArticPRO® 1280 model. However, these differences do not impact the electrical safety or functionality of the ArticPRO® 1281 model, as outlined below:

- **Hose Quick Connecting Shutoff Valves:**
 - The ETL-listed ArticPRO® 1280 uses the "YF Series" valves from Parker, while the ArticPRO® 1281 uses the "E3 Series." Both models are SAE J639 certified, marked for R-1234yf (blue for low side and red for high side), and comply with UL 1963 and CSA C22.2 #120 requirements.
- **Internal Tank:**
 - Both models use a Mastercool DOT-4BA400 tank, which is DOT certified with the following specifications:
 - Tank pressure rating: 40 psig
 - Pressure relief valve rating: 600 psig
 - Minimum air flow: 208 cfm
 - Colored valves: blue for low side, red for high side
 - The ArticPRO® 1280 ETL listed model uses a 30 lb capacity tank, while the ArticPRO® 1281 model uses a 50 lb capacity tank. This difference in capacity does not affect the electrical safety operation of the ArticPRO® 1281 model.

SECTION 3

CONCLUSION

Based on our comparison of the two models, Intertek confirms that the ArticPRO® 1281 model is equivalent to the ETL-listed ArticPRO® 1280 model, as certified in ETL Listing Report number 101574769COL-008.

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SECTION 4

PROJECT STATUS & ACTION

Issuance of this letter report completes the evaluation covered by Intertek Project No. G106102277.

If there are any questions regarding the results contained in this report, or any of the other services offered by Intertek, please do not hesitate to contact your dedicated Intertek Project Manager.

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|---------------|---|--------------|---|
| Completed by: | Philip Dombo | Reviewed by: | Brandon Button |
| Title: | Engineer | Title: | Engineering Team Lead |
| Signature: |  | Signature |  |
| Date | 26-February-2025 | Date: | 26-February-2025 |

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