



Ingersoll Rand crowned climate leader lay, March 9, 2016 - Leave a Cor

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USA: Ingersoll Rand, with its brands Thermo King transport refrigeration and Trane air conditioners, was today recognised for its refrigerant phase-out efforts by the US EPA.































US places bans on R404A and R134a Posted on Tureday, September 27, 2010 - Leare a Comment SHARE THIS ARTICLE USA: The US EPA is to ban a host of high GWP refrigerants including R404A, R134a, R407C and R410A in certain new products from as early as January 1, 2021. The bans are part of wide ranging new rules finalised by the US Environmental Protection Agency yesterday, that will see bans on a number of existing refrigerants R404A and R507A are among a number of refrigerants to be banned in new retail food refrigeranto from as early as January 1, 2021. Commonly-used high GWP refrigerants R404A and R507A are among a number of refrigerants to be banned in new retail food refrigeranto from as early as January 1, 2021. R134a is one of a number of common refrigerants that will be banned from use in new centrifugal and positive displacement chillers as of January 1, 2024. Others include R407C and R410A, as well as a number of Interim "drop-line" blends.

The new rules will also see R134a being banned in new domestic fridges and freezers from January 1. 2021.

| Designated products % | Present refrigerant (GWP) | Target value (GWP) | Target yea |
|---|--|-----------------------|------------|
| Room air-conditioning | R410A(2090) R32(675) | 750 | 2018 |
| Commercial air-conditioning (for offices and stores) | R410A(2090) | 750 | 2020 |
| Condensing unit and refrigerating unit (for separate type showcases etc. | R404A(3920) R410A(2090) R407C(1774) CO ₂ (1) | 1500 | 2 0 2 5 |
| Cold storage warehouse (for more than 50000 m) | R404A(3920) Ammonia (single digit) | 100 | 2019 |
| Mobile air-conditioner | R134a(1430) | 150 | 2023 |
| Urethane foam (for House building materials) | HFC-245fa(1030) HFC-365mfc(795) | 100 | 2020 |
| Dust blowers | HFC-134a(1430) HFC-152a(124) CO ₂ (1), DMF(1) | 10 | 2019 |



| Country Specific Plan | | TRAN | |
|--|----------------|--------------------------------|--|
| | Year | HFC quota | |
| THE OWNER ADDRESS OF THE OWNER | 2015 | 100 % | |
| | 2020 | 63 % | |
| COS TO DE COS | - 019 O 016 | | |
| S TABLE IN | 2030 | 21 % | |
| 2014 – European Parliament adopted overwhelming vote in favor 2015 – Established baseline, based or averace | the F-gas | Regulation with 2 EU market | |
| 2020 – Remove 37% of bulk supply | | | |
| 2030 – Remove 79% of bulk supply | | | |
| | | | |
| 15 Transitioning towards the Next Gen Technology | ology | (J | |

















































| HK G-PASS scori | ng for | Trane | CTV (self-asses Centravect |
|--------------------------------------|--------------|--------------|--|
| Credit item | Max score | Trane CTV | Description Chiller GPASS-L-10 |
| Energy Efficiency | 40 | 40 | Highest full load COP = 7.8 ^[a] |
| Operating Noise | 15 | 15 | 81 ~ 83 ^[b] dBA |
| Eco-friendly Refrigerant | 15 | 15 | R123: GWP = 77 ^[c] |
| Refrigerant Leakage Rate | 10 | 10 | Annual leakage 0.5%; leak detection by refrigerant monitor |
| Environmental Management System | 5 | 5 | ISO 14001 |
| Paint Used | 5 | 5 | Latest lab test reports |
| Identification of Lubrication Oil | 5 | 5 | O&M manual |
| Recyclability | 5 | 5 | Re-cycling principle including electronic components |
| Tot | al score: | 100 | |



