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|                     |  |          |             |
|---------------------|--|----------|-------------|
| Summary of          | Triple C R32 - RAM-70NYP4E & TAW-190RHC        | Reg. No. | 041-K002-44 |
| Certificate Holder  |  |          |             |
| Name                | Johnson Controls-Hitachi AirConditioning Spain |          |             |
| Address             | Ronda Shimizu, 1. Pol. Ind. Can Torrella       | Zip      | 08233       |
| City                | Vacarisses, Barcelona                          | Country  | Spain       |
| Certification Body  | BRE Global Limited                             |          |             |
| Subtype title       | Triple C R32 - RAM-70NYP4E & TAW-190RHC        |          |             |
| Heat Pump Type      | Heat Pump for Domestic Hot Water (DHW)         |          |             |
| Refrigerant         | R32  |          |             |
| Mass of Refrigerant | 2.05 kg  |          |             |
| Certification Date  | 07.08.2020                                     |          |             |
| Testing basis       | HP Keymark Scheme Rules Rev 07                 |          |             |

## Model: RAM-70NYP4E & TAW-190RHC

| Configure model             |                          |
|-----------------------------|--------------------------|
| Model name                  | RAM-70NYP4E & TAW-190RHC |
| Units                       | Indoor + Outdoor         |
| Climate zone (for heating)  | Warmer                   |
| Heat Source                 | Outdoor Air              |
| Any additional heat sources | n/a                      |

| General Data     |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | Yes         |

Domestic Hot Water (DHW)

Warmer Climate

| EN 12102-2                |          |
|---------------------------|----------|
|                           |          |
| Sound power level indoor  | 0 dB(A)  |
| Sound power level outdoor | 63 dB(A) |

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| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 136 %      |
| COP                             | 3.35       |
| Heating up time                 | 2:10 h:min |
| Standby power input             | 26.0 W     |
| Reference hot water temperature | 52.6 °C    |
| Mixed water at 40°C             | 256 l      |

## Average Climate

| <b>EN 12102-2</b>         |          |
|---------------------------|----------|
| Sound power level indoor  | 0 dB(A)  |
| Sound power level outdoor | 63 dB(A) |

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 126 %      |
| COP                             | 3.10       |
| Heating up time                 | 2:20 h:min |
| Standby power input             | 26.0 W     |
| Reference hot water temperature | 52.6 °C    |
| Mixed water at 40°C             | 256 l      |

## Operating test

| <b>EN 16147</b>              |        |
|------------------------------|--------|
| Temperature operating range  | passed |
| Safety devices checking test | passed |
| Condensate draining          | passed |