

COMMERCIAL  
CONDENSING  
UNITS



# Commercial Condensing Units

FUSION & FUSION SCROLL PRODUCT RANGE 2021

**J&E Hall**  
International



# J & E HALL Commercial Condensing Units

**J & E Hall provides a comprehensive range of Fusion reciprocating and Fusion Scroll condensing units for commercial refrigeration sectors.**

Energy efficiency is key to our product design and we manufacture fully factory built units that are energy efficient, quiet and easy to install.

## Benefits



► **Energy efficient**



► **Low noise**



► **Easy to install and maintain**



► **Reliable**



► **Robust**



► **Multi refrigerant options**

## Applications



**Convenience stores**

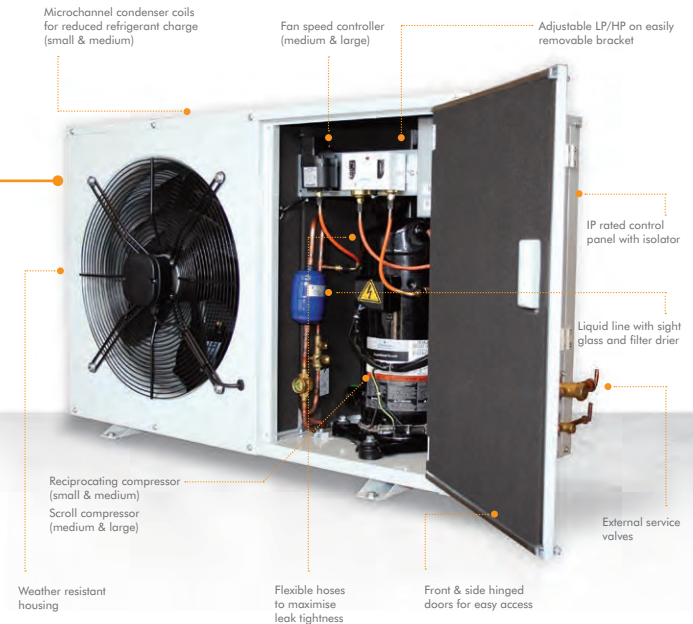


**Petrol forecourts**



**Cold stores**

# Commercial Condensing Units



## End User Benefits

- ▶ Energy efficient features reduce energy bills
- ▶ Quiet units blend into the local environment
- ▶ Quality components for reliability and longer life

## Installer Benefits

- ▶ Simple access for service and maintenance
- ▶ Factory fitted components for quick and easy installation
- ▶ Microchannel condenser coil is easy to clean and smaller refrigerant charge



# Back up and support



1



## Distributor network

Multiple locations throughout the UK

2



## Research & development

Continual product development to meet changing needs



3



## Stock

Held locally throughout distributor network with J & E Hall central stock holding back up



4



## Technical

Specialist knowledge, dedicated product manager, up-to-date manuals and spare part lists



5



## Warranty

Standard warranty and Labour Assist scheme. In the unlikely event of a parts failure, Labour Assist provides installers with a contribution towards labour costs incurred replacing the part. To register go to [www.jehall.co.uk/commercialhub](http://www.jehall.co.uk/commercialhub)



6



## Part of Daikin Group

Group backup and support



7



## Ecodesign compliant

Legal compliance







# Unit Specification

## SMALL, MEDIUM, LARGE & TWIN FAN

| Casing | Part No.  | Unit Model       | Compressor Model | Phase | Electrical Data (A) |      |       | SPL @ 10m dB(A) | Unit Connections |         | Dry Weight (kgs) | Dimensions (mm) (W x D x H) | Mounting Dimensions (mm) (W x D) | Medium temperature |
|--------|-----------|------------------|------------------|-------|---------------------|------|-------|-----------------|------------------|---------|------------------|-----------------------------|----------------------------------|--------------------|
|        |           |                  |                  |       | NC                  | MCC  | LRC   |                 | Liquid           | Suction |                  |                             |                                  |                    |
| Small  | N04120079 | JEHR-0050-B1-M-1 | AE 4460Z-FZ1C    | 1     | 3.6                 | 5.9  | 19.4  | 28              | 1/4              | 3/8     | 49               | 876 x 430 x 606             | 545 x 400                        |                    |
|        | N04120080 | JEHR-0067-B1-M-1 | CAJ 9480Z        | 1     | 3.3                 | 6.7  | 24.1  | 28              | 3/8              | 1/2     | 56               |                             |                                  |                    |
|        | N04120081 | JEHR-0100-B1-M-1 | CAJ 9510Z        | 1     | 4.1                 | 8.4  | 29.5  | 28              | 3/8              | 1/2     | 57               |                             |                                  |                    |
|        | N04120082 | JEHR-0113-B1-M-1 | CAJ 9513Z        | 1     | 5.1                 | 11.3 | 33.5  | 28              | 3/8              | 1/2     | 58               |                             |                                  |                    |
| Medium | N04120083 | JEHR-0140-B2-M-1 | CAJ 4517Z        | 1     | 5.9                 | 12.7 | 38.5  | 32              | 3/8              | 1/2     | 67               | 1101 x 444 x 662            | 703 x 408                        |                    |
|        | N04120084 | JEHR-0140-B2-M-3 | TAJ 4517Z        | 3     | 2.9                 | 4.0  | 18.0  | 32              | 3/8              | 1/2     | 67               |                             |                                  |                    |
|        | N04120140 | JEHR-0170-B2-M-1 | CAJ 4519Z        | 1     | 7.0                 | 15.2 | 45.0  | 33              | 3/8              | 5/8     | 68               |                             |                                  |                    |
|        | N04120141 | JEHR-0170-B2-M-3 | TAJ 4519Z        | 3     | 3.7                 | 4.8  | 22.0  | 33              | 3/8              | 5/8     | 68               |                             |                                  |                    |
|        | N04120087 | JEHS-0200-B2-M-1 | ZB15KQE-PFJ      | 1     | 7.9                 | 18.5 | 58.0  | 33              | 3/8              | 3/4     | 70               |                             |                                  |                    |
|        | N04120088 | JEHS-0200-B2-M-3 | ZB15KQE-TFD      | 3     | 3.5                 | 7.0  | 26.0  | 33              | 3/8              | 3/4     | 70               |                             |                                  |                    |
|        | N04120089 | JEHS-0250-B2-M-1 | ZB19KQE-PFJ      | 1     | 9.9                 | 20.5 | 61.0  | 34              | 3/8              | 3/4     | 72               |                             |                                  |                    |
|        | N04120090 | JEHS-0250-B2-M-3 | ZB19KQE-TFD      | 3     | 4.8                 | 7.0  | 32.0  | 34              | 3/8              | 3/4     | 72               |                             |                                  |                    |
|        | N04120091 | JEHS-0300-B2-M-1 | ZB21KQE-PFJ      | 1     | 12.8                | 21.5 | 82.0  | 36              | 3/8              | 3/4     | 74               |                             |                                  |                    |
|        | N04120092 | JEHS-0300-B2-M-3 | ZB21KQE-TFD      | 3     | 5.0                 | 10.3 | 40.0  | 36              | 3/8              | 3/4     | 74               |                             |                                  |                    |
|        | N04120093 | JEHS-0350-B2-M-1 | ZB26KQE-PFJ      | 1     | 15.4                | 25.0 | 97.0  | 39              | 3/8              | 3/4     | 74               |                             |                                  |                    |
|        | N04120094 | JEHS-0350-B2-M-3 | ZB26KQE-TFD      | 3     | 6.4                 | 9.0  | 46.0  | 39              | 3/8              | 3/4     | 74               |                             |                                  |                    |
| Large  | N04120099 | JEHS-0350-B3-M-1 | ZB26KQE-PFJ      | 1     | 14.8                | 25.0 | 97.0  | 37              | 1/2              | 3/4     | 112              | 1353 x 575 x 872            | 945 x 500                        |                    |
|        | N04120100 | JEHS-0350-B3-M-3 | ZB26KQE-TFD      | 3     | 6.8                 | 9.0  | 46.0  | 37              | 1/2              | 3/4     | 112              |                             |                                  |                    |
|        | N04120101 | JEHS-0400-B3-M-1 | ZB29KQE-PFJ      | 1     | 17.0                | 28.0 | 114.0 | 37              | 1/2              | 7/8     | 119              |                             |                                  |                    |
|        | N04120102 | JEHS-0400-B3-M-3 | ZB29KQE-TFD      | 3     | 8.2                 | 11.0 | 50.0  | 37              | 1/2              | 7/8     | 119              |                             |                                  |                    |
|        | N04120103 | JEHS-0500-B3-M-3 | ZB38KQE-TFD      | 3     | 9.1                 | 13.5 | 65.5  | 38              | 1/2              | 7/8     | 123              |                             |                                  |                    |
|        | N04120104 | JEHS-0600-B3-M-3 | ZB45KQE-TFD      | 3     | 9.6                 | 14.2 | 74.0  | 40              | 1/2              | 1 1/8   | 125              |                             |                                  |                    |
| Twin   | N04120105 | JEHS-0680-B3-M-3 | ZB48KQE-TFD      | 3     | 12.3                | 19.1 | 101.0 | 40              | 1/2              | 1 1/8   | 126              | 1348 x 612 x 1727           | 940 x 560                        |                    |
|        | N04120106 | JEHS-0800-B4-M-3 | ZB57KCE-TFD      | 3     | 11.4                | 21.3 | 102.0 | 43              | 3/4              | 1 1/8   | 204              |                             |                                  |                    |
|        | N04120107 | JEHS-1000-B4-M-3 | ZB76KCE-TFD      | 3     | 16.2                | 28.0 | 118.0 | 43              | 3/4              | 1 3/8   | 226              |                             |                                  |                    |
|        | N04120137 | JEHS-1300-B4-M-3 | ZB95K5E-TFD      | 3     | 22.0                | 34.0 | 140.0 | 46              | 3/4              | 1 3/8   | 238              |                             |                                  |                    |
| Sp     | N04120138 | JEHS-1500-B6-M-3 | ZB114K5E-TFD     | 3     | 27.4                | 38.0 | 174.0 | 48              | 3/4              | 1 3/8   | 332              | 1735 x 854 x 1727           | 1240 x 808                       |                    |

| Casing | Part No.  | Unit Model           | Compressor Model | Phase | Electrical Data (A) |      |       | SPL @ 10m dB(A) | Unit Connections |         | Dry Weight (kgs) | Dimensions (mm) (W x D x H) | Mounting Dimensions (mm) (W x D) | Low temperature |
|--------|-----------|----------------------|------------------|-------|---------------------|------|-------|-----------------|------------------|---------|------------------|-----------------------------|----------------------------------|-----------------|
|        |           |                      |                  |       | NC                  | MCC  | LRC   |                 | Liquid           | Suction |                  |                             |                                  |                 |
| Small  | N04120135 | JEHR-0115-B1-L-1     | CAJ2446Z         | 1     | 3.0                 | 8.2  | 30.0  | 27              | 3/8              | 1/2     | 59               | 876 x 430 x 606             | 545 x 400                        |                 |
|        | N04120136 | JEHR-0135-B1-L-1     | CAJ2464Z         | 1     | 4.8                 | 10.0 | 40.0  | 27              | 3/8              | 1/2     | 61               |                             |                                  |                 |
| Medium | N04120142 | JEHR-0180-B2-L-1     | FH2480Z-XC3A     | 1     | 6.7                 | 12.0 | 65.0  | 35              | 3/8              | 5/8     | 81               | 1101 x 444 x 662            | 703 x 408                        |                 |
|        | N04120143 | JEHR-0180-B2-L-3     | FH2480Z-XG1A     | 3     | 3.1                 | 6.4  | 31.0  | 35              | 3/8              | 5/8     | 80               |                             |                                  |                 |
|        | N04120144 | JEHR-0210-B2-L-1     | FH2511Z-XC3A     | 1     | 7.3                 | 24.0 | 71.0  | 38              | 3/8              | 5/8     | 83               |                             |                                  |                 |
|        | N04120145 | JEHR-0210-B2-L-3     | FH2511Z-XG1A     | 3     | 4.0                 | 8.3  | 60.0  | 38              | 3/8              | 5/8     | 81               |                             |                                  |                 |
|        | N04120113 | JEHS-0300-B2-L-3     | ZF09KQE-TFD      | 3     | 4.4                 | 6.5  | 40.0  | 33              | 3/8              | 3/4     | 78               |                             |                                  |                 |
| Large  | N04120114 | JEHS-0400-B3-L-3     | ZF13KQE-TFD      | 3     | 5.8                 | 10.0 | 51.5  | 37              | 1/2              | 7/8     | 132              | 1353 x 575 x 872            | 945 x 500                        |                 |
|        | N04120115 | JEHS-0500-B3-L-3     | ZF15KQE-TFD      | 3     | 7.6                 | 12.0 | 64.0  | 39              | 1/2              | 7/8     | 132              |                             |                                  |                 |
|        | N04120116 | JEHS-0600-B3-L-3     | ZF18KQE-TFD      | 3     | 8.5                 | 12.5 | 74.0  | 41              | 1/2              | 7/8     | 133              |                             |                                  |                 |
| Twin   | N04120117 | JEHS-0750-B4-L-3     | ZF25K5E-TFD      | 3     | 8.1                 | 16.6 | 102.0 | 41              | 1/2              | 1 1/8   | 203              | 1348 x 612 x 1727           | 940 x 560                        |                 |
|        | N04120118 | JEHS-0950-B4-L-3-EVI | ZF18KVE-TFD-EVI  | 3     | 8.5                 | 13.0 | 74.0  | 37              | 1/2              | 7/8     | 200              |                             |                                  |                 |
|        | N04120133 | JEHS-1150-B4-L-3-EVI | ZFI36KQE-TFD-EVI | 3     | 10.7                | 20.5 | 102.0 | 42              | 1/2              | 1 1/8   | 211              |                             |                                  |                 |
|        | N04120146 | JEHS-1400-B4-L-3-EVI | ZF34K5E-TFD EVI  | 3     | 15.5                | 24.0 | 100.0 | 44              | 1/2              | 1 3/8   | 235              |                             |                                  |                 |

NC = Nominal Current at -10°Cte/+32°Cta MT and -35°Cte/+32°Cta LT conditions with R448A refrigerant. MCC = Maximum Continuous Current. LRC = Locked Rotor Current. Sound Pressure Level (SPL) measured in an anechoic room at -10°Cte/+32°Cta MT and -25°Cte/+32°Cta LT conditions. Alternative conditions may produce different results.



# R134a Performance Data

MEDIUM, LARGE & TWIN FAN

| Casing | Part No.  | Unit Model       | R134a Cooling Capacity (Watts) @ Te |       |       |       |       |       |       | Ecodesign Conditions <sup>⊙</sup> |        |       |
|--------|-----------|------------------|-------------------------------------|-------|-------|-------|-------|-------|-------|-----------------------------------|--------|-------|
|        |           |                  | -15°C                               | -10°C | -5°C  | 0°C   | 5°C   | 10°C  | 15°C  | COP                               | SEPR   | Watts |
| Small  | N04120079 | JEHR-0050-B1-M-1 | -                                   | -     | -     | -     | -     | -     | -     | -                                 | -      | -     |
|        | N04120080 | JEHR-0067-B1-M-1 | -                                   | -     | -     | -     | -     | -     | -     | -                                 | -      | -     |
|        | N04120081 | JEHR-0100-B1-M-1 | -                                   | -     | -     | -     | -     | -     | -     | -                                 | -      | -     |
|        | N04120082 | JEHR-0113-B1-M-1 | -                                   | -     | -     | -     | -     | -     | -     | -                                 | -      | -     |
| Medium | N04120083 | JEHR-0140-B2-M-1 | -                                   | -     | -     | -     | -     | -     | -     | -                                 | -      | -     |
|        | N04120084 | JEHR-0140-B2-M-3 | -                                   | -     | -     | -     | -     | -     | -     | -                                 | -      | -     |
|        | N04120140 | JEHR-0170-B2-M-1 | -                                   | -     | -     | -     | -     | -     | -     | -                                 | -      | -     |
|        | N04120141 | JEHR-0170-B2-M-3 | -                                   | -     | -     | -     | -     | -     | -     | -                                 | -      | -     |
|        | N04120087 | JEHS-0200-B2-M-1 | 1610                                | 2050  | 2550  | 3120  | 3770  | 4530  | 5360  | 1.92                              | -      | 2130  |
|        | N04120088 | JEHS-0200-B2-M-3 | 1730                                | 2170  | 2700  | 3310  | 4020  | 4850  | 5770  | 2.19                              | -      | 2240  |
|        | N04120089 | JEHS-0250-B2-M-1 | 2010                                | 2590  | 3230  | 3980  | 4870  | 5930  | 7140  | (2.14)                            | -      | -     |
|        | N04120090 | JEHS-0250-B2-M-3 | 1980                                | 2480  | 3070  | 3770  | 4570  | 5510  | 6550  | (2.13)                            | -      | -     |
|        | N04120091 | JEHS-0300-B2-M-1 | 2410                                | 3090  | 3830  | 4690  | 5690  | 6890  | 8240  | (2.13)                            | -      | -     |
|        | N04120092 | JEHS-0300-B2-M-3 | 2460                                | 3060  | 3790  | 4620  | 5600  | 6740  | 7990  | (2.10)                            | -      | -     |
|        | N04120093 | JEHS-0350-B2-M-1 | 2700                                | 3410  | 4250  | 5240  | 6410  | 7800  | 9330  | (1.86)                            | -      | -     |
|        | N04120094 | JEHS-0350-B2-M-3 | 2800                                | 3480  | 4300  | 5240  | 6320  | 7610  | 9010  | (2.08)                            | -      | -     |
| Large  | N04120099 | JEHS-0350-B3-M-1 | 2840                                | 3610  | 4520  | 5600  | 6850  | 8290  | 9920  | 2.13                              | -      | 3730  |
|        | N04120100 | JEHS-0350-B3-M-3 | 2940                                | 3690  | 4570  | 5600  | 6790  | 8150  | 9680  | 2.36                              | -      | 3810  |
|        | N04120101 | JEHS-0400-B3-M-1 | 3850                                | 4900  | 5950  | 7170  | 8740  | 10800 | 13600 | (2.28)                            | -      | 5050  |
|        | N04120102 | JEHS-0400-B3-M-3 | 3400                                | 4240  | 5220  | 6360  | 7690  | 9230  | 11000 | 2.36                              | -      | 4370  |
|        | N04120103 | JEHS-0500-B3-M-3 | 4160                                | 5240  | 6460  | 7870  | 9490  | 11350 | 13450 | -                                 | (2.69) | -     |
|        | N04120104 | JEHS-0600-B3-M-3 | 4930                                | 6160  | 7610  | 9300  | 11250 | 13350 | 15700 | -                                 | (2.63) | -     |
|        | N04120105 | JEHS-0680-B3-M-3 | 5570                                | 6890  | 8400  | 10150 | 12100 | 14400 | 16850 | -                                 | (2.57) | -     |
| Twin   | N04120106 | JEHS-0800-B4-M-3 | 6340                                | 7950  | 9850  | 12050 | 14650 | 17550 | 20800 | -                                 | 3.10   | 8210  |
|        | N04120107 | JEHS-1000-B4-M-3 | 8360                                | 10400 | 12750 | 15500 | 18700 | 22200 | 26100 | -                                 | 3.37   | 10750 |
|        | N04120137 | JEHS-1300-B4-M-3 | 10474                               | 13043 | 15952 | 19241 | 22951 | 27122 | 31795 | -                                 | 3.09   | 13519 |
| Sp     | N04120138 | JEHS-1500-B6-M-3 | 12251                               | 15573 | 19386 | 23734 | 28665 | 34224 | -     | -                                 | 2.96   | 16134 |

Rating Condition: Suction Gas Superheat 10K / Subcooling 0K / 32°C Ambient

<sup>⊙</sup> Ecodesign conditions: -10°Cte/+32°Cta MT with RGT 20°C & 0K SC

COP & SEPR data in brackets shown at 10K SH condition where RGT 20°C data unavailable

Capacity data presented in accordance with BS EN 13215:2016



# R448A Performance Data

SMALL, MEDIUM, LARGE & TWIN FAN

| Casing | Part No.  | Unit Model       | R448A Cooling Capacity (Watts) @ Te |       |       |       |       |       |       | Ecodesign Conditions ① |      |       | Medium temperature |
|--------|-----------|------------------|-------------------------------------|-------|-------|-------|-------|-------|-------|------------------------|------|-------|--------------------|
|        |           |                  | -20°C                               | -15°C | -10°C | -5°C  | 0°C   | 5°C   | 10°C  | COP                    | SEPR | Watts |                    |
| Small  | N04120079 | JEHR-0050-B1-M-1 | 496                                 | 643   | 817   | 1023  | 1267  | 1558  | 1902  | 1.66                   | -    | 872   |                    |
|        | N04120080 | JEHR-0067-B1-M-1 | 611                                 | 811   | 1045  | 1322  | 1652  | 2045  | 2514  | 1.64                   | -    | 1120  |                    |
|        | N04120081 | JEHR-0100-B1-M-1 | 740                                 | 977   | 1252  | 1575  | 1958  | 2448  | 2959  | 1.64                   | -    | 1345  |                    |
|        | N04120082 | JEHR-0113-B1-M-1 | 859                                 | 1169  | 1523  | 1926  | 2442  | 3000  | 3665  | 1.71                   | -    | 1639  |                    |
| Medium | N04120083 | JEHR-0140-B2-M-1 | 1192                                | 1571  | 2016  | 2540  | 3158  | 3942  | 4889  | 2.09                   | -    | 2149  |                    |
|        | N04120084 | JEHR-0140-B2-M-3 | 1156                                | 1556  | 2020  | 2560  | 3194  | 3936  | 4808  | 2.00                   | -    | 2152  |                    |
|        | N04120140 | JEHR-0170-B2-M-1 | 1409                                | 1869  | 2399  | 3010  | 3715  | 4526  | 5459  | 1.73                   | -    | 2574  |                    |
|        | N04120141 | JEHR-0170-B2-M-3 | 1452                                | 1892  | 2399  | 2980  | 3645  | 4405  | 5273  | 1.76                   | -    | 2572  |                    |
|        | N04120087 | JEHS-0200-B2-M-1 | 2080                                | 2620  | 3240  | 3940  | 4740  | 5670  | 6740  | 2.02                   | -    | 3330  |                    |
|        | N04120088 | JEHS-0200-B2-M-3 | 2080                                | 2620  | 3240  | 3940  | 4740  | 5670  | 6740  | 2.02                   | -    | 3330  |                    |
|        | N04120089 | JEHS-0250-B2-M-1 | 2440                                | 3030  | 3700  | 4470  | 5360  | 6380  | 7560  | 1.93                   | -    | 3820  |                    |
|        | N04120090 | JEHS-0250-B2-M-3 | 2440                                | 3030  | 3700  | 4470  | 5360  | 6380  | 7560  | 1.93                   | -    | 3820  |                    |
|        | N04120091 | JEHS-0300-B2-M-1 | 3060                                | 3770  | 4570  | 5470  | 6510  | 7710  | 9120  | 1.85                   | -    | 4730  |                    |
|        | N04120092 | JEHS-0300-B2-M-3 | 3060                                | 3770  | 4570  | 5470  | 6510  | 7710  | 9120  | 1.85                   | -    | 4730  |                    |
|        | N04120093 | JEHS-0350-B2-M-1 | 3530                                | 4340  | 5270  | 6320  | 7530  | 8940  | 10600 | -                      | 2.72 | 5460  |                    |
|        | N04120094 | JEHS-0350-B2-M-3 | 3530                                | 4340  | 5270  | 6320  | 7530  | 8940  | 10600 | -                      | 2.72 | 5460  |                    |
| Large  | N04120099 | JEHS-0350-B3-M-1 | 3630                                | 4550  | 5600  | 6770  | 8130  | 9690  | 11500 | -                      | 3.02 | 5760  |                    |
|        | N04120100 | JEHS-0350-B3-M-3 | 3630                                | 4550  | 5600  | 6770  | 8130  | 9690  | 11500 | -                      | 3.02 | 5760  |                    |
|        | N04120101 | JEHS-0400-B3-M-1 | 4100                                | 5070  | 6170  | 7410  | 8840  | 10500 | 12400 | -                      | 3.13 | 6370  |                    |
|        | N04120102 | JEHS-0400-B3-M-3 | 4100                                | 5070  | 6170  | 7410  | 8840  | 10500 | 12400 | -                      | 3.13 | 6370  |                    |
|        | N04120103 | JEHS-0500-B3-M-3 | 4830                                | 6190  | 7600  | 9120  | 10850 | 12900 | 15300 | -                      | 2.97 | 7880  |                    |
|        | N04120104 | JEHS-0600-B3-M-3 | 5790                                | 7420  | 9130  | 10950 | 13000 | 15400 | 18200 | -                      | 3.22 | 9450  |                    |
|        | N04120105 | JEHS-0680-B3-M-3 | 6430                                | 8240  | 10150 | 12100 | 14350 | 16950 | 20000 | -                      | 2.96 | 10500 |                    |
|        | N04120106 | JEHS-0800-B4-M-3 | 7250                                | 9670  | 12300 | 15200 | 18450 | 22100 | -     | -                      | 2.88 | 12650 |                    |
| Twin   | N04120107 | JEHS-1000-B4-M-3 | -                                   | 12150 | 15250 | 18800 | 22800 | 27300 | -     | -                      | 2.83 | 15850 |                    |
|        | N04120137 | JEHS-1300-B4-M-3 | 11693                               | 15327 | 19164 | 23283 | 27761 | 32674 | 38100 | -                      | 2.97 | 19909 |                    |
| Sp     | N04120138 | JEHS-1500-B6-M-3 | 14757                               | 19205 | 24093 | 29487 | 35458 | 42072 | 49399 | -                      | 2.94 | 24876 |                    |

| Casing | Part No.  | Unit Model           | R448A Cooling Capacity (Watts) @ Te |       |       |       |       |       |       | Ecodesign Conditions ① |        |       | Low temperature |
|--------|-----------|----------------------|-------------------------------------|-------|-------|-------|-------|-------|-------|------------------------|--------|-------|-----------------|
|        |           |                      | -45°C                               | -40°C | -35°C | -30°C | -25°C | -20°C | -15°C | COP                    | SEPR   | Watts |                 |
| Small  | N04120135 | JEHR-0115-B1-L-1     | *                                   | *     | *     | *     | *     | *     | *     | *                      | *      | *     |                 |
|        | N04120136 | JEHR-0135-B1-L-1     | *                                   | *     | *     | *     | *     | *     | *     | *                      | *      | *     |                 |
| Medium | N04120142 | JEHR-0180-B1-L-1     | -                                   | -     | 937   | 1372  | 1911  | 2569  | -     | 0.96                   | -      | -     |                 |
|        | N04120143 | JEHR-0180-B2-L-3     | -                                   | -     | 846   | 1247  | 1743  | 2351  | -     | 1.00                   | -      | 979   |                 |
|        | N04120144 | JEHR-0210-B2-L-1     | -                                   | -     | 1221  | 1790  | 2491  | 3339  | -     | 0.99                   | -      | 1420  |                 |
|        | N04120145 | JEHR-0210-B2-L-3     | -                                   | -     | 1170  | 1701  | 2354  | 3145  | -     | 1.00                   | -      | 1356  |                 |
|        | N04120113 | JEHS-0300-B2-L-3     | -                                   | 1230  | 1580  | 1990  | 2480  | 3030  | -     | 0.97                   | -      | 1700  |                 |
|        | N04120114 | JEHS-0400-B3-L-3     | -                                   | 1820  | 2380  | 3030  | 3790  | 4670  | -     | -                      | 1.67   | 2530  |                 |
| Large  | N04120115 | JEHS-0500-B3-L-3     | -                                   | 2200  | 2850  | 3600  | 4480  | 5480  | -     | -                      | -      | 3040  |                 |
|        | N04120116 | JEHS-0600-B3-L-3     | -                                   | 2430  | 3250  | 4150  | 5160  | 6310  | -     | -                      | 1.64   | 3490  |                 |
|        | N04120117 | JEHS-0750-B4-L-3     | -                                   | 3550  | 4510  | 5630  | 6900  | 8370  | -     | -                      | 1.64   | 4810  |                 |
| Twin   | N04120118 | JEHS-0950-B4-L-3 EVI | -                                   | 3880  | 4860  | 5970  | 7250  | 8750  | -     | -                      | (1.76) | 4860  |                 |
|        | N04120133 | JEHS-1150-B4-L-3 EVI | -                                   | 4920  | 6230  | 7730  | 9390  | 11200 | -     | -                      | (1.71) | 6230  |                 |
|        | N04120146 | JEHS-1400-B4-L-3 EVI | -                                   | 5965  | 7839  | 9902  | 12149 | 14567 | -     | -                      | (1.67) | 7839  |                 |

Rating Condition: Suction Gas Superheat 10K / Subcooling 0K / 32°C Ambient

① Ecodesign conditions: -10°Cte/+32°Cta MT and -35°Cte/+32°Cta LT with RGT 20°C & 0K SC

COP & SEPR data in brackets shown at 10K SH condition where RGT 20°C data unavailable

Capacity data presented in accordance with BS EN 13215:2016

\* FOR CAPACITY DATA PLEASE CONTACT YOUR LOCAL REPRESENTATIVE



# R449A Performance Data

SMALL, MEDIUM, LARGE & TWIN FAN

| Casing | Part No.  | Unit Model       | R449A Cooling Capacity (Watts) @ Te |       |       |       |       |       |       | Ecodesign Conditions ○ |      |       |                    |
|--------|-----------|------------------|-------------------------------------|-------|-------|-------|-------|-------|-------|------------------------|------|-------|--------------------|
|        |           |                  | -20°C                               | -15°C | -10°C | -5°C  | 0°C   | 5°C   | 10°C  | COP                    | SEPR | Watts |                    |
| Small  | N04120079 | JEHR-0050-B1-M-1 | 496                                 | 643   | 817   | 1023  | 1267  | 1558  | 1902  | 1.66                   | -    | 872   | Medium temperature |
|        | N04120080 | JEHR-0067-B1-M-1 | 611                                 | 811   | 1045  | 1322  | 1652  | 2045  | 2514  | 1.64                   | -    | 1120  |                    |
|        | N04120081 | JEHR-0100-B1-M-1 | 740                                 | 977   | 1252  | 1575  | 1958  | 2448  | 2959  | 1.64                   | -    | 1345  |                    |
|        | N04120082 | JEHR-0113-B1-M-1 | 859                                 | 1169  | 1523  | 1926  | 2442  | 3000  | 3665  | 1.71                   | -    | 1639  |                    |
| Medium | N04120083 | JEHR-0140-B2-M-1 | 1192                                | 1571  | 2016  | 2540  | 3158  | 3942  | 4889  | 2.09                   | -    | 2149  |                    |
|        | N04120084 | JEHR-0140-B2-M-3 | 1156                                | 1556  | 2020  | 2560  | 3194  | 3936  | 4808  | 2.00                   | -    | 2152  |                    |
|        | N04120140 | JEHR-0170-B2-M-1 | 1409                                | 1869  | 2399  | 3010  | 3715  | 4526  | 5459  | 1.73                   | -    | 2574  |                    |
|        | N04120141 | JEHR-0170-B2-M-3 | 1452                                | 1892  | 2399  | 2980  | 3645  | 4405  | 5273  | 1.76                   | -    | 2572  |                    |
|        | N04120087 | JEHS-0200-B2-M-1 | 2080                                | 2620  | 3240  | 3940  | 4740  | 5670  | 6740  | 2.02                   | -    | 3330  |                    |
|        | N04120088 | JEHS-0200-B2-M-3 | 2080                                | 2620  | 3240  | 3940  | 4740  | 5670  | 6740  | 2.02                   | -    | 3330  |                    |
|        | N04120089 | JEHS-0250-B2-M-1 | 2440                                | 3030  | 3700  | 4470  | 5360  | 6380  | 7560  | 1.93                   | -    | 3820  |                    |
|        | N04120090 | JEHS-0250-B2-M-3 | 2440                                | 3030  | 3700  | 4470  | 5360  | 6380  | 7560  | 1.93                   | -    | 3820  |                    |
|        | N04120091 | JEHS-0300-B2-M-1 | 3060                                | 3770  | 4570  | 5470  | 6510  | 7710  | 9120  | 1.85                   | -    | 4730  |                    |
|        | N04120092 | JEHS-0300-B2-M-3 | 3060                                | 3770  | 4570  | 5470  | 6510  | 7710  | 9120  | 1.85                   | -    | 4730  |                    |
|        | N04120093 | JEHS-0350-B2-M-1 | 3530                                | 4340  | 5270  | 6320  | 7530  | 8940  | 10600 | -                      | 2.72 | 5460  |                    |
|        | N04120094 | JEHS-0350-B2-M-3 | 3530                                | 4340  | 5270  | 6320  | 7530  | 8940  | 10600 | -                      | 2.72 | 5460  |                    |
| Large  | N04120099 | JEHS-0350-B3-M-1 | 3630                                | 4550  | 5600  | 6770  | 8130  | 9690  | 11500 | -                      | 3.02 | 5760  |                    |
|        | N04120100 | JEHS-0350-B3-M-3 | 3630                                | 4550  | 5600  | 6770  | 8130  | 9690  | 11500 | -                      | 3.02 | 5760  |                    |
|        | N04120101 | JEHS-0400-B3-M-1 | 4100                                | 5070  | 6170  | 7410  | 8840  | 10500 | 12400 | -                      | 3.13 | 6370  |                    |
|        | N04120102 | JEHS-0400-B3-M-3 | 4100                                | 5070  | 6170  | 7410  | 8840  | 10500 | 12400 | -                      | 3.13 | 6370  |                    |
|        | N04120103 | JEHS-0500-B3-M-3 | 4830                                | 6190  | 7600  | 9120  | 10850 | 12900 | 15300 | -                      | 2.97 | 7880  |                    |
|        | N04120104 | JEHS-0600-B3-M-3 | 5790                                | 7420  | 9130  | 10950 | 13000 | 15400 | 18200 | -                      | 3.22 | 9450  |                    |
|        | N04120105 | JEHS-0680-B3-M-3 | 6430                                | 8240  | 10150 | 12100 | 14350 | 16950 | 20000 | -                      | 2.96 | 10500 |                    |
|        | N04120106 | JEHS-0800-B4-M-3 | 7250                                | 9670  | 12300 | 15200 | 18450 | 22100 | -     | -                      | 2.88 | 12650 |                    |
| Twin   | N04120107 | JEHS-1000-B4-M-3 | -                                   | 12150 | 15250 | 18800 | 22800 | 27300 | -     | -                      | 2.83 | 15850 |                    |
|        | N04120137 | JEHS-1300-B4-M-3 | 11693                               | 15327 | 19164 | 23283 | 27761 | 32674 | 38100 | -                      | 2.97 | 19909 |                    |
| Sp     | N04120138 | JEHS-1500-B6-M-3 | 14757                               | 19205 | 24093 | 29487 | 35458 | 42072 | 49399 | -                      | 2.94 | 24876 |                    |

| Casing | Part No.  | Unit Model           | R449A Cooling Capacity (Watts) @ Te |       |       |       |       |       |       | Ecodesign Conditions ○ |        |       |                 |
|--------|-----------|----------------------|-------------------------------------|-------|-------|-------|-------|-------|-------|------------------------|--------|-------|-----------------|
|        |           |                      | -45°C                               | -40°C | -35°C | -30°C | -25°C | -20°C | -15°C | COP                    | SEPR   | Watts |                 |
| Small  | N04120135 | JEHR-0115-B1-L-1     | *                                   | *     | *     | *     | *     | *     | *     | *                      | *      | *     | Low temperature |
|        | N04120136 | JEHR-0135-B1-L-1     | *                                   | *     | *     | *     | *     | *     | *     | *                      | *      | *     |                 |
|        | N04120142 | JEHR-0180-B1-L-1     | -                                   | -     | 937   | 1372  | 1911  | 2569  | -     | 0.96                   | -      | 1082  |                 |
| Medium | N04120143 | JEHR-0180-B2-L-3     | -                                   | -     | 846   | 1247  | 1743  | 2351  | -     | 1.00                   | -      | 979   |                 |
|        | N04120144 | JEHR-0210-B2-L-1     | -                                   | -     | 1221  | 1790  | 2491  | 3339  | -     | 0.99                   | -      | 1420  |                 |
|        | N04120145 | JEHR-0210-B2-L-3     | -                                   | -     | 1170  | 1701  | 2354  | 3145  | -     | 1.00                   | -      | 1356  |                 |
|        | N04120113 | JEHS-0300-B2-L-3     | -                                   | 1230  | 1580  | 1990  | 2480  | 3030  | -     | 0.97                   | -      | 1700  |                 |
|        | N04120114 | JEHS-0400-B3-L-3     | -                                   | 1820  | 2380  | 3030  | 3790  | 4670  | -     | -                      | 1.67   | 2530  |                 |
| Large  | N04120115 | JEHS-0500-B3-L-3     | -                                   | 2200  | 2850  | 3600  | 4480  | 5480  | -     | -                      | -      | 3040  |                 |
|        | N04120116 | JEHS-0600-B3-L-3     | -                                   | 2430  | 3250  | 4150  | 5160  | 6310  | -     | -                      | 1.64   | 3490  |                 |
|        | N04120117 | JEHS-0750-B4-L-3     | -                                   | 3550  | 4510  | 5630  | 6900  | 8370  | -     | -                      | 1.64   | 4810  |                 |
| Twin   | N04120118 | JEHS-0950-B4-L-3 EVI | -                                   | 3880  | 4860  | 5970  | 7250  | 8750  | -     | -                      | (1.76) | 4860  |                 |
|        | N04120133 | JEHS-1150-B4-L-3 EVI | -                                   | 4920  | 6230  | 7730  | 9390  | 11200 | -     | -                      | (1.71) | 6230  |                 |
|        | N04120146 | JEHS-1400-B4-L-3 EVI | -                                   | 5965  | 7839  | 9902  | 12149 | 14567 | -     | -                      | (1.67) | 7839  |                 |

Rating Condition: Suction Gas Superheat 10K / Subcooling 0K / 32°C Ambient

○ Ecodesign conditions: -10°C<sub>Te</sub>/+32°C<sub>Ta</sub> MT and -35°C<sub>Te</sub>/+32°C<sub>Ta</sub> LT with RGT 20°C & 0K SC

COP & SEPR data in brackets shown at 10K SH condition where RGT 20°C data unavailable

Capacity data presented in accordance with BS EN 13215:2016





# R452A Performance Data

SMALL & MEDIUM

| Casing | Part No.  | Unit Model       | R452A Cooling Capacity (Watts) @ Te |       |       |      |      |      |      | Ecodesign Conditions ① |      |       | Medium temperature |
|--------|-----------|------------------|-------------------------------------|-------|-------|------|------|------|------|------------------------|------|-------|--------------------|
|        |           |                  | -20°C                               | -15°C | -10°C | -5°C | 0°C  | 5°C  | 10°C | COP                    | SEPR | Watts |                    |
| Small  | N04120079 | JEHR-0050-B1-M-1 | 552                                 | 696   | 866   | 1065 | 1301 | 1580 | 1908 | 1.67                   | -    | 949   |                    |
|        | N04120080 | JEHR-0067-B1-M-1 | 687                                 | 885   | 1116  | 1388 | 1707 | 2085 | 2533 | 1.67                   | -    | 1229  |                    |
|        | N04120081 | JEHR-0100-B1-M-1 | 837                                 | 1071  | 1341  | 1656 | 2026 | 2463 | 2982 | 1.68                   | -    | 1481  |                    |
|        | N04120082 | JEHR-0113-B1-M-1 | 983                                 | 1277  | 1612  | 1997 | 2444 | 2968 | 3584 | 1.73                   | -    | 1788  |                    |
| Medium | N04120083 | JEHR-0140-B2-M-1 | 1232                                | 1585  | 1995  | 2475 | 3041 | 3711 | 4505 | 1.92                   | -    | 2196  |                    |
|        | N04120084 | JEHR-0140-B2-M-3 | 1188                                | 1564  | 1995  | 2493 | 3076 | 3759 | 4565 | 1.83                   | -    | 2195  |                    |
|        | N04120140 | JEHR-0170-B2-M-1 | 1456                                | 1904  | 2417  | 3005 | 3681 | 4454 | 5344 | 1.65                   | -    | 2685  |                    |
|        | N04120141 | JEHR-0170-B2-M-3 | 1506                                | 1931  | 2423  | 2981 | 3618 | 4340 | 5390 | 1.73                   | -    | 2688  |                    |
|        | N04120087 | JEHS-0200-B2-M-1 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
|        | N04120088 | JEHS-0200-B2-M-3 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
|        | N04120089 | JEHS-0250-B2-M-1 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
|        | N04120090 | JEHS-0250-B2-M-3 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
|        | N04120091 | JEHS-0300-B2-M-1 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
|        | N04120092 | JEHS-0300-B2-M-3 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
|        | N04120093 | JEHS-0350-B2-M-1 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
|        | N04120094 | JEHS-0350-B2-M-3 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
| Large  | N04120099 | JEHS-0350-B3-M-1 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
|        | N04120100 | JEHS-0350-B3-M-3 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
|        | N04120101 | JEHS-0400-B3-M-1 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
|        | N04120102 | JEHS-0400-B3-M-3 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
|        | N04120103 | JEHS-0500-B3-M-3 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
|        | N04120104 | JEHS-0600-B3-M-3 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
|        | N04120105 | JEHS-0680-B3-M-3 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
| Twin   | N04120106 | JEHS-0800-B4-M-3 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
|        | N04120107 | JEHS-1000-B4-M-3 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
|        | N04120137 | JEHS-1300-B4-M-3 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |
| Sp     | N04120138 | JEHS-1500-B6-M-3 | -                                   | -     | -     | -    | -    | -    | -    | -                      | -    | -     |                    |

| Casing | Part No.  | Unit Model           | R452A Cooling Capacity (Watts) @ Te |       |       |       |       |       |       | Ecodesign Conditions ① |      |       | Low temperature |
|--------|-----------|----------------------|-------------------------------------|-------|-------|-------|-------|-------|-------|------------------------|------|-------|-----------------|
|        |           |                      | -45°C                               | -40°C | -35°C | -30°C | -25°C | -20°C | -15°C | COP                    | SEPR | Watts |                 |
| Small  | N04120135 | JEHR-0115-B1-L-1     | -                                   | -     | 517   | 708   | 938   | 1213  | -     | 1.05                   | -    | 637   |                 |
|        | N04120136 | JEHR-0135-B1-L-1     | -                                   | -     | 658   | 886   | 1164  | 1498  | -     | 0.98                   | -    | 814   |                 |
| Medium | N04120142 | JEHR-0180-B1-L-1     | -                                   | 635   | 985   | 1425  | 1967  | 2626  | -     | 1.01                   | -    | 1223  |                 |
|        | N04120143 | JEHR-0180-B2-L-3     | -                                   | 590   | 912   | 1315  | 1813  | 2415  | -     | 1.07                   | -    | 1133  |                 |
|        | N04120144 | JEHR-0210-B2-L-1     | -                                   | 827   | 1279  | 1839  | 2523  | 3342  | -     | 0.99                   | -    | 1604  |                 |
|        | N04120145 | JEHR-0210-B2-L-3     | -                                   | 805   | 1228  | 1753  | 2394  | 3162  | -     | 1.05                   | -    | 1532  |                 |
|        | N04120113 | JEHS-0300-B2-L-3     | -                                   | -     | -     | -     | -     | -     | -     | -                      | -    | -     |                 |
| Large  | N04120114 | JEHS-0400-B3-L-3     | -                                   | -     | -     | -     | -     | -     | -     | -                      | -    | -     |                 |
|        | N04120115 | JEHS-0500-B3-L-3     | -                                   | -     | -     | -     | -     | -     | -     | -                      | -    | -     |                 |
|        | N04120116 | JEHS-0600-B3-L-3     | -                                   | -     | -     | -     | -     | -     | -     | -                      | -    | -     |                 |
| Twin   | N04120117 | JEHS-0750-B4-L-3     | -                                   | -     | -     | -     | -     | -     | -     | -                      | -    | -     |                 |
|        | N04120118 | JEHS-0950-B4-L-3 EVI | -                                   | -     | -     | -     | -     | -     | -     | -                      | -    | -     |                 |
|        | N04120133 | JEHS-1150-B4-L-3 EVI | -                                   | -     | -     | -     | -     | -     | -     | -                      | -    | -     |                 |
|        | N04120146 | JEHS-1400-B4-L-3 EVI | -                                   | -     | -     | -     | -     | -     | -     | -                      | -    | -     |                 |

Rating Condition: Suction Gas Superheat 10K / Subcooling 0K / 32°C Ambient

① Ecodesign conditions: -10°Cte/+32°Cta MT and -35°Cte/+32°Cta LT with RGT 20°C & 0K SC

COP & SEPR data in brackets shown at 10K SH condition where RGT 20°C data unavailable

Capacity data presented in accordance with BS EN 13215:2016

**Note: R404A, R407A and R407F data available on request or visit [www.jehall.co.uk](http://www.jehall.co.uk)**



## Labour Assist Scheme

Labour Assist provides installers with a contribution towards labour costs in the unlikely event of needing to replace a part under our standard warranty terms.

To be eligible, installers must complete our online registration form with full details regarding the claim process at [www.jehall.co.uk/commercialhub](http://www.jehall.co.uk/commercialhub)

If a component fails and is accepted under our standard warranty terms, we will automatically activate the scheme and issue a voucher to be redeemed at the place of purchase.



# J & E Hall commercial product range



## Digital & Inverter condensing units

Digital scroll compressor capacity matches varying display case loads for an energy efficient solution. The units are suitable for multi cabinet systems and multiple evaporators for coldrooms. With an increased demand for higher energy efficiency refrigeration systems at part load, J & E Hall now also offers a range of Fusion Scroll Inverter condensing units.



## Cellar coolers

The JCC cellar cooler range provides cost effective and reliable units designed with electronic control down to 4°C for beer cellars and other temperature controlled environments. CELLAR+ systems have increased capacities and longer pipe runs for larger cellar cooler applications.

# Refrigerants information

| Refrigerants | GWP  | TCO <sub>2</sub> eq (Tonnes CO <sub>2</sub> equivalent)                |
|--------------|------|------------------------------------------------------------------------|
| R134a        | 1430 | <div>GWP x total system refrigerant charge (Kgs)</div> <div>1000</div> |
| R407A        | 2107 |                                                                        |
| R407F        | 1825 |                                                                        |
| R448A        | 1387 |                                                                        |
| R449A        | 1397 |                                                                        |
| R452A        | 2140 |                                                                        |

J & E Hall commercial condensing units' functioning relies on fluorinated greenhouse gases. This table illustrates refrigerants used, GWP values and Tonnes CO<sub>2</sub> equivalent calculation.

COMMERCIAL  
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UNITS



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