



Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH64E/2FES-2Y

Refrigerant: R134a

| Item | Symbol* | Value | | Unit |
|-------------------------|---------|-------|-----|------|
| Evaporating temperature | t | -10 | -35 | °C |

Point A: Parameters at full load and ambient temperature 32°C

| | | | | |
|------------------------|------------------------|-------------|--|----|
| Rated cooling capacity | P _A | 3,04 | | kW |
| Rated power input | D _A | 1,49 | | kW |
| Rated COP | COP_A | 2,03 | | |

Point B: Parameters at part load and ambient temperature 25°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|--|----|
| Declared cooling capacity | P _B | 3,35 | | kW |
| Declared power input | D _B | 1,41 | | kW |
| Declared COP | COP_B | 2,37 | | |

Point E: Parameters at full load and ambient temperature 43°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|--|----|
| Declared cooling capacity | P _E | 2,54 | | kW |
| Declared power input | D _E | 1,59 | | kW |
| Declared COP | COP_E | 1,59 | | |

Other items

| | | | |
|-------------------------|-----------------|-----------|--|
| Capacity control | — | | |
| Reference temperature | Dew point temp. | | |
| Suction gas temperature | toh | 20°C | |
| Power voltage | Net | 400V/50Hz | |

Additional document: [Declaration of Conformity AC-500](#)

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* Symbols taken from english version of the Regulation 2015/1095



Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH64E/2FES-2Y

Refrigerant: R404A

| Item | Symbol* | Value | | Unit |
|-----------------------------------|---------|-------|------|-------|
| Evaporating temperature | t | -10 | -35 | °C |
| Annual electricity consumption | Q | 10787 | 8344 | kWh/a |
| Seasonal Energy Performance Ratio | SEPR | 2,87 | 1,41 | |

Point A: Parameters at full load and ambient temperature 32°C

| | | | | |
|------------------------|------------------------|-------------|-------------|----|
| Rated cooling capacity | P _A | 5,03 | 1,58 | kW |
| Rated power input | D _A | 2,50 | 1,53 | kW |
| Rated COP | COP_A | 2,02 | 1,03 | |

Point B: Parameters at part load and ambient temperature 25°C

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _B | 5,69 | 1,86 | kW |
| Declared power input | D _B | 2,35 | 1,52 | kW |
| Declared COP | COP_B | 2,42 | 1,22 | |

Point C: Parameters at part load and ambient temperature 15°C

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _C | 6,67 | 2,29 | kW |
| Declared power input | D _C | 2,15 | 1,51 | kW |
| Declared COP | COP_C | 3,10 | 1,52 | |

Point D: Parameters at part load and ambient temperature 5°C

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _D | 7,68 | 2,72 | kW |
| Declared power input | D _D | 1,95 | 1,49 | kW |
| Declared COP | COP_D | 3,95 | 1,82 | |

Point E: Parameters at full load and ambient temperature 43°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _E | 4,04 | 1,18 | kW |
| Declared power input | D _E | 2,72 | 1,55 | kW |
| Declared COP | COP_E | 1,48 | 0,76 | |

Other items

| | | | | |
|---|-----------------|-----------------|--|--|
| Capacity control | | — | | |
| Reference temperature | | Dew point temp. | | |
| Suction gas temperature | to _h | 20°C | | |
| Power voltage | Net | 400V/50Hz | | |
| Coefficient of degradation for units w/o capacity control** | C _{dc} | 0,25 | | |

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** Since condensing units are non functional systems C_{dc} can not be determined by test. For this reason the default degradation coefficient C_{dc} (0.25) has to be applied according to EN 13215, Annex A.



Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH64E/2FES-2Y

Refrigerant: R407A

| Item | Symbol* | Value | | Unit |
|-------------------------|---------|-------|-----|------|
| Evaporating temperature | t | -10 | -35 | °C |

Point A: Parameters at full load and ambient temperature 32°C

| | | | | |
|------------------------|------------------------|-------------|-------------|----|
| Rated cooling capacity | P _A | 4,95 | 1,37 | kW |
| Rated power input | D _A | 2,37 | 1,31 | kW |
| Rated COP | COP_A | 2,09 | 1,05 | |

Point B: Parameters at part load and ambient temperature 25°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _B | 5,45 | 1,57 | kW |
| Declared power input | D _B | 2,21 | 1,30 | kW |
| Declared COP | COP_B | 2,47 | 1,21 | |

Point E: Parameters at full load and ambient temperature 43°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _E | 4,17 | 1,07 | kW |
| Declared power input | D _E | 2,58 | 1,30 | kW |
| Declared COP | COP_E | 1,62 | 0,82 | |

Other items

| | | | |
|-------------------------|-----------------|-----------|--|
| Capacity control | — | | |
| Reference temperature | Dew point temp. | | |
| Suction gas temperature | toh | 20°C | |
| Power voltage | Net | 400V/50Hz | |

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH64E/2FES-2Y

Refrigerant: R407C

| Item | Symbol* | Value | | Unit |
|-------------------------|---------|-------|-----|------|
| Evaporating temperature | t | -10 | -35 | °C |

Point A: Parameters at full load and ambient temperature 32°C

| | | | | |
|------------------------|------------------------|-------------|--|----|
| Rated cooling capacity | P _A | 4,87 | | kW |
| Rated power input | D _A | 2,30 | | kW |
| Rated COP | COP_A | 2,12 | | |

Point B: Parameters at part load and ambient temperature 25°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|--|----|
| Declared cooling capacity | P _B | 5,31 | | kW |
| Declared power input | D _B | 2,14 | | kW |
| Declared COP | COP_B | 2,48 | | |

Point E: Parameters at full load and ambient temperature 43°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|--|----|
| Declared cooling capacity | P _E | 4,17 | | kW |
| Declared power input | D _E | 2,52 | | kW |
| Declared COP | COP_E | 1,66 | | |

Other items

| | | | |
|-------------------------|-----------------|-----------|--|
| Capacity control | — | | |
| Reference temperature | Dew point temp. | | |
| Suction gas temperature | to _h | 20°C | |
| Power voltage | Net | 400V/50Hz | |

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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH64E/2FES-2Y

Refrigerant: R407F

| Item | Symbol* | Value | | Unit |
|-----------------------------------|---------|-------|------|-------|
| Evaporating temperature | t | -10 | -35 | °C |
| Annual electricity consumption | Q | 10909 | 7727 | kWh/a |
| Seasonal Energy Performance Ratio | SEPR | 2,95 | 1,41 | |

Point A: Parameters at full load and ambient temperature 32°C

| | | | | |
|------------------------|------------------------|-------------|-------------|----|
| Rated cooling capacity | P _A | 5,23 | 1,46 | kW |
| Rated power input | D _A | 2,51 | 1,37 | kW |
| Rated COP | COP_A | 2,08 | 1,07 | |

Point B: Parameters at part load and ambient temperature 25°C

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _B | 5,74 | 1,67 | kW |
| Declared power input | D _B | 2,34 | 1,35 | kW |
| Declared COP | COP_B | 2,45 | 1,24 | |

Point C: Parameters at part load and ambient temperature 15°C

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _C | 6,46 | 1,95 | kW |
| Declared power input | D _C | 2,07 | 1,31 | kW |
| Declared COP | COP_C | 3,12 | 1,49 | |

Point D: Parameters at part load and ambient temperature 5°C

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _D | 7,17 | 2,21 | kW |
| Declared power input | D _D | 1,77 | 1,24 | kW |
| Declared COP | COP_D | 4,05 | 1,78 | |

Point E: Parameters at full load and ambient temperature 43°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _E | 4,44 | 1,15 | kW |
| Declared power input | D _E | 2,75 | 1,36 | kW |
| Declared COP | COP_E | 1,61 | 0,84 | |

Other items

| | | | |
|---|-----------------|-----------|--|
| Capacity control | — | | |
| Reference temperature | Dew point temp. | | |
| Suction gas temperature | toh | 20°C | |
| Power voltage | Net | 400V/50Hz | |
| Coefficient of degradation for units w/o capacity control** | Cdc | 0,25 | |

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH64E/2FES-2Y

Refrigerant: R454C

| Item | Symbol* | Value | | Unit |
|-------------------------|---------|-------|-----|------|
| Evaporating temperature | t | -10 | -35 | °C |

Point A: Parameters at full load and ambient temperature 32°C

| | | | | |
|------------------------|------------------------|-------------|-------------|----|
| Rated cooling capacity | P _A | 4,15 | 1,05 | kW |
| Rated power input | D _A | 2,14 | 1,19 | kW |
| Rated COP | COP_A | 1,94 | 0,89 | |

Point B: Parameters at part load and ambient temperature 25°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _B | 4,63 | 1,21 | kW |
| Declared power input | D _B | 2,04 | 1,19 | kW |
| Declared COP | COP_B | 2,26 | 1,02 | |

Point E: Parameters at full load and ambient temperature 43°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _E | 3,35 | 0,72 | kW |
| Declared power input | D _E | 2,29 | 1,20 | kW |
| Declared COP | COP_E | 1,46 | 0,60 | |

Other items

| | | | |
|-------------------------|-----------------|-----------|--|
| Capacity control | — | | |
| Reference temperature | Dew point temp. | | |
| Suction gas temperature | to _h | 20°C | |
| Power voltage | Net | 400V/50Hz | |

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH64E/2FES-2Y

Refrigerant: R455A

Condensing unit with the selected refrigerant at low temperature application (LT) is only intended for deliveries outside the EU. For EU suitable condensing units, see Declaration of Conformity AC-500.

| Item | Symbol* | Value | Unit |
|-------------------------|---------|-------|------|
| Evaporating temperature | t | -10 | °C |

Point A: Parameters at full load and ambient temperature 32°C

| | | | |
|------------------------|------------------------|-------------|----|
| Rated cooling capacity | P _A | 3,99 | kW |
| Rated power input | D _A | 2,35 | kW |
| Rated COP | COP_A | 1,69 | |

Point B: Parameters at part load and ambient temperature 25°C (information only)

| | | | |
|---------------------------|------------------------|-------------|----|
| Declared cooling capacity | P _B | 4,54 | kW |
| Declared power input | D _B | 2,24 | kW |
| Declared COP | COP_B | 2,02 | |

Point E: Parameters at full load and ambient temperature 43°C (information only)

| | | | |
|---------------------------|------------------------|-------------|----|
| Declared cooling capacity | P _E | 3,17 | kW |
| Declared power input | D _E | 2,58 | kW |
| Declared COP | COP_E | 1,23 | |

Other items

| | | | |
|-------------------------|-----------------|-----------|--|
| Capacity control | — | | |
| Reference temperature | Dew point temp. | | |
| Suction gas temperature | toh | 20°C | |
| Power voltage | Net | 400V/50Hz | |

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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH64E/2FES-2Y

Refrigerant: R507A

| Item | Symbol* | Value | | Unit |
|-----------------------------------|---------|-------|------|-------|
| Evaporating temperature | t | -10 | -35 | °C |
| Annual electricity consumption | Q | 10791 | 8347 | kWh/a |
| Seasonal Energy Performance Ratio | SEPR | 2,94 | 1,48 | |

Point A: Parameters at full load and ambient temperature 32°C

| | | | | |
|------------------------|------------------------|-------------|-------------|----|
| Rated cooling capacity | P _A | 5,16 | 1,66 | kW |
| Rated power input | D _A | 2,50 | 1,53 | kW |
| Rated COP | COP_A | 2,07 | 1,09 | |

Point B: Parameters at part load and ambient temperature 25°C

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _B | 5,84 | 1,95 | kW |
| Declared power input | D _B | 2,36 | 1,52 | kW |
| Declared COP | COP_B | 2,48 | 1,28 | |

Point C: Parameters at part load and ambient temperature 15°C

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _C | 6,86 | 2,40 | kW |
| Declared power input | D _C | 2,15 | 1,51 | kW |
| Declared COP | COP_C | 3,18 | 1,59 | |

Point D: Parameters at part load and ambient temperature 5°C

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _D | 7,91 | 2,87 | kW |
| Declared power input | D _D | 1,95 | 1,49 | kW |
| Declared COP | COP_D | 4,05 | 1,92 | |

Point E: Parameters at full load and ambient temperature 43°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _E | 4,13 | 1,25 | kW |
| Declared power input | D _E | 2,73 | 1,55 | kW |
| Declared COP | COP_E | 1,52 | 0,80 | |

Other items

| | | | |
|---|-----------------|-----------|--|
| Capacity control | — | | |
| Reference temperature | Dew point temp. | | |
| Suction gas temperature | toh | 20°C | |
| Power voltage | Net | 400V/50Hz | |
| Coefficient of degradation for units w/o capacity control** | Cdc | 0,25 | |

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH64E/2FES-2Y

Refrigerant: R448A

| Item | Symbol* | Value | | Unit |
|-------------------------|---------|-------|-----|------|
| Evaporating temperature | t | -10 | -35 | °C |

Point A: Parameters at full load and ambient temperature 32°C

| | | | | |
|------------------------|------------------------|-------------|-------------|----|
| Rated cooling capacity | P _A | 4,70 | 1,22 | kW |
| Rated power input | D _A | 2,36 | 1,28 | kW |
| Rated COP | COP_A | 1,99 | 0,95 | |

Point B: Parameters at part load and ambient temperature 25°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _B | 5,23 | 1,39 | kW |
| Declared power input | D _B | 2,24 | 1,28 | kW |
| Declared COP | COP_B | 2,33 | 1,08 | |

Point E: Parameters at full load and ambient temperature 43°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _E | 3,81 | 0,84 | kW |
| Declared power input | D _E | 2,56 | 1,30 | kW |
| Declared COP | COP_E | 1,49 | 0,65 | |

Other items

| | | | |
|-------------------------|-----------------|-----------|--|
| Capacity control | — | | |
| Reference temperature | Dew point temp. | | |
| Suction gas temperature | to _h | 20°C | |
| Power voltage | Net | 400V/50Hz | |

Additional document: [Declaration of Conformity AC-500](#)

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH64E/2FES-2Y

Refrigerant: R449A

| Item | Symbol* | Value | | Unit |
|-------------------------|---------|-------|-----|------|
| Evaporating temperature | t | -10 | -35 | °C |

Point A: Parameters at full load and ambient temperature 32°C

| | | | | |
|------------------------|------------------------|-------------|-------------|----|
| Rated cooling capacity | P _A | 4,68 | 1,22 | kW |
| Rated power input | D _A | 2,36 | 1,28 | kW |
| Rated COP | COP_A | 1,98 | 0,95 | |

Point B: Parameters at part load and ambient temperature 25°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _B | 5,21 | 1,39 | kW |
| Declared power input | D _B | 2,24 | 1,28 | kW |
| Declared COP | COP_B | 2,32 | 1,09 | |

Point E: Parameters at full load and ambient temperature 43°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|-------------|----|
| Declared cooling capacity | P _E | 3,79 | 0,84 | kW |
| Declared power input | D _E | 2,56 | 1,30 | kW |
| Declared COP | COP_E | 1,48 | 0,65 | |

Other items

| | | | |
|-------------------------|-----------------|-----------|--|
| Capacity control | — | | |
| Reference temperature | Dew point temp. | | |
| Suction gas temperature | toh | 20°C | |
| Power voltage | Net | 400V/50Hz | |

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH64E/2FES-2Y

Refrigerant: R450A

| Item | Symbol* | Value | | Unit |
|-------------------------|---------|-------|-----|------|
| Evaporating temperature | t | -10 | -35 | °C |

Point A: Parameters at full load and ambient temperature 32°C

| | | | | |
|------------------------|------------------------|-------------|--|----|
| Rated cooling capacity | P _A | 2,75 | | kW |
| Rated power input | D _A | 1,34 | | kW |
| Rated COP | COP_A | 2,06 | | |

Point B: Parameters at part load and ambient temperature 25°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|--|----|
| Declared cooling capacity | P _B | 3,05 | | kW |
| Declared power input | D _B | 1,25 | | kW |
| Declared COP | COP_B | 2,44 | | |

Point E: Parameters at full load and ambient temperature 43°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|--|----|
| Declared cooling capacity | P _E | 2,30 | | kW |
| Declared power input | D _E | 1,45 | | kW |
| Declared COP | COP_E | 1,59 | | |

Other items

| | | | |
|-------------------------|-----------------|-----------|--|
| Capacity control | — | | |
| Reference temperature | Dew point temp. | | |
| Suction gas temperature | toh | 20°C | |
| Power voltage | Net | 400V/50Hz | |

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH64E/2FES-2Y

Refrigerant: R513A

| Item | Symbol* | Value | | Unit |
|-------------------------|---------|-------|-----|------|
| Evaporating temperature | t | -10 | -35 | °C |

Point A: Parameters at full load and ambient temperature 32°C

| | | | | |
|------------------------|------------------------|-------------|--|----|
| Rated cooling capacity | P _A | 3,33 | | kW |
| Rated power input | D _A | 1,53 | | kW |
| Rated COP | COP_A | 2,18 | | |

Point B: Parameters at part load and ambient temperature 25°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|--|----|
| Declared cooling capacity | P _B | 3,70 | | kW |
| Declared power input | D _B | 1,43 | | kW |
| Declared COP | COP_B | 2,59 | | |

Point E: Parameters at full load and ambient temperature 43°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|--|----|
| Declared cooling capacity | P _E | 2,77 | | kW |
| Declared power input | D _E | 1,66 | | kW |
| Declared COP | COP_E | 1,67 | | |

Other items

| | | | |
|-------------------------|-----------------|-----------|--|
| Capacity control | — | | |
| Reference temperature | Dew point temp. | | |
| Suction gas temperature | to _h | 20°C | |
| Power voltage | Net | 400V/50Hz | |

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COP Declaration Model: LH64E/2FES-2Y

Refrigerant: R1234yf

| Item | Symbol* | Value | | Unit |
|-------------------------|---------|-------|-----|------|
| Evaporating temperature | t | -10 | -35 | °C |

Point A: Parameters at full load and ambient temperature 32°C

| | | | | |
|------------------------|------------------------|-------------|--|----|
| Rated cooling capacity | P _A | 3,10 | | kW |
| Rated power input | D _A | 1,53 | | kW |
| Rated COP | COP_A | 2,02 | | |

Point B: Parameters at part load and ambient temperature 25°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|--|----|
| Declared cooling capacity | P _B | 3,46 | | kW |
| Declared power input | D _B | 1,45 | | kW |
| Declared COP | COP_B | 2,39 | | |

Point E: Parameters at full load and ambient temperature 43°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|--|----|
| Declared cooling capacity | P _E | 2,55 | | kW |
| Declared power input | D _E | 1,64 | | kW |
| Declared COP | COP_E | 1,55 | | |

Other items

| | | | |
|-------------------------|-----------------|-----------|--|
| Capacity control | — | | |
| Reference temperature | Dew point temp. | | |
| Suction gas temperature | to _h | 20°C | |
| Power voltage | Net | 400V/50Hz | |

Additional document: [Declaration of Conformity AC-500](#)

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* Symbols taken from english version of the Regulation 2015/1095



Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH64E/2FES-2Y

Refrigerant: R1234ze

| Item | Symbol* | Value | | Unit |
|-------------------------|---------|-------|-----|------|
| Evaporating temperature | t | -10 | -35 | °C |

Point A: Parameters at full load and ambient temperature 32°C

| | | | | |
|------------------------|------------------------|-------------|--|----|
| Rated cooling capacity | P _A | 2,31 | | kW |
| Rated power input | D _A | 1,24 | | kW |
| Rated COP | COP_A | 1,87 | | |

Point B: Parameters at part load and ambient temperature 25°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|--|----|
| Declared cooling capacity | P _B | 2,57 | | kW |
| Declared power input | D _B | 1,17 | | kW |
| Declared COP | COP_B | 2,19 | | |

Point E: Parameters at full load and ambient temperature 43°C (information only)

| | | | | |
|---------------------------|------------------------|-------------|--|----|
| Declared cooling capacity | P _E | 1,93 | | kW |
| Declared power input | D _E | 1,31 | | kW |
| Declared COP | COP_E | 1,47 | | |

Other items

| | | | |
|-------------------------|-----------------|-----------|--|
| Capacity control | — | | |
| Reference temperature | Dew point temp. | | |
| Suction gas temperature | toh | 20°C | |
| Power voltage | Net | 400V/50Hz | |

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