

10295

04 - 2019

SPK

**Ecodesign manual
(2281/2016 Regulation)**



COOLING MODE [0]

| | |
|---------------------------------|--|
| Model [1] | |
| Air conditioner type [2] | Air-to-Air [3] |
| Type [4] | Compressor driven vapour compression [5] |

| | | |
|---|--------------|--|
| Rated cooling capacity, kW [6] | Prated,c | |
| Seasonal space cooling energy efficiency, % [7] | $\eta_{s,c}$ | |
| Seasonal Coefficient Of Performance, kWh/kWh [8] | SEER | |
| Sound power level, outdoor, dB [9] | LWA | |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb) [10]

| Climate: [11] | Average (Strasbourg) [12] | | |
|----------------------|--------------------------------------|----------------|-----------------------------------|
| | Cooling capacity Pdc, kW [13] | EERd, % | Degradation coef, Cdc [14] |
| + 35 | | | |
| + 30 | | | |
| + 25 | | | |
| + 20 | | | |

Power consumption in modes other than ‘active mode’ [15]

| | | |
|---------------------------------------|------|--|
| Off mode, kW [16] | POFF | |
| Thermostat-off mode, kW [17] | PTO | |
| Crankcase heater mode, kW [18] | PCK | |
| Standby mode, kW [19] | PSB | |

Other items [20]

| | |
|---|----------------------------|
| Capacity control [21] | fixed/Staged/variable [22] |
| GWP of the refrigerant, kg CO2 eq (100 years) [23] | |

For air-to-air air conditioner [24]

| | |
|---|--|
| Air flow rate, outdoor measured, m3/h [25] | |
|---|--|

| | |
|-----------------------------|--|
| Contact details [26] | |
|-----------------------------|--|

| ENGLISH | ESPAÑOL | FRANÇAIS |
|--|---|---|
| [0] COOLING mode | [0] Modo FRÍO | [0] Mode FROID |
| [1] Model | [1] Modelo | [1] Modèle |
| [2] Air conditioner type | [2] Tipo de acondicionador de aire | [2] Type de climatiseur |
| [3] Air to Air | [3] Aire-aire | [3] Air-air |
| [4] Type: | [4] Tipo: | [4] Type: |
| [5] Compressor driven vapour compression | [5] Compresión de vapor por compresor | [5] Compresseur à cycle à compression de vapeur |
| [6] Rated cooling capacity | [6] Potencia nominal de refrigeración | [6] Puissance frigorifique nominale |
| [7] Seasonal space capacity energy efficiency | [7] Eficiencia energética estacional de refrigeración de espacios | [7] Efficacité énergétique saisonnière pour le refroidissement des locaux |
| [8] Seasonal coefficient of performance | [8] Coeficiente de rendimiento estacional | [8] Coefficient saisonnier de performance |
| [9] Sound power level, dB(A) | [9] Nivel de potencia acústica, dB(A) | [9] Niveau de puissance acoustique, dB(A) |
| [10] Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb) | [10] Potencia frigorífica y factor de eficiencia energética declarados para carga parcial a las temperaturas exteriores dadas Tj y a una temperatura interior de 27°/19°C (bulbo seco/húmedo) | [10] Puissance frigorifique et coefficient d'efficacité énergétique déclarés à charge partielle pour des températures extérieures données Tj et intérieure de 27 °C/19 °C (bulbe sec/ bulbe humide) |
| [11] Climate | [11] Clima | [11] Climat |
| [12] Average (Strasbourg) | [12] Condiciones climáticas medias (Estrasburgo) | [12] Moyennes (Strasbourg) |
| [13] Cooling capacity | [13] Potencia frigorífica | [13] Puissance frigorifique |
| [14] Degradation coeff | [14] Coeficiente de degradación | [14] Coefficient de dégradation |
| [15] Power consumption in modes other than 'active mode' | [15] Consumo de energía en modos distintos del 'modo activo' | [15] Consommation d'énergie dans les modes autres que le 'mode actif' |
| [16] Off mode | [16] Modo desactivado | [16] Mode arrêt |
| [17] Thermostat off-mode | [17] Modo desactivado por termostato | [17] Mode arrêt par thermostat |
| [18] Crankcase heater mode | [18] Modo de calentador del cárter | [18] Mode résistance de carter active |
| [19] Standby mode | [19] Modo de espera | [19] Mode veille |
| [20] Other items | [20] Otros elementos | [20] Autres caractéristiques |
| [21] Capacity control | [21] Control de potencia | [21] Régulation de la puissance |
| [22] Fixed/Staged/variable | [22] Fijo/gradual/variable | [22] fixe/étageée/variable |
| [23] GWP of the refrigerant, kg CO2 eq (100 years) | [23] PCA del refrigerante, kg CO2 eq (100 años) | [23] PRP du fluide frigorigène, kg CO2 eq (100 ans) |
| [24] For air-to-air air conditioner | [24] Para acondicionador de aire aire-aire | [24] Pour les climatiseurs air-air |
| [25] Nominal air flow rate, outdoor measured, m³/h | [25] Caudal de aire nominal, exterior | [25] Débit d'air nominal, mesuré à l'extérieur |
| [26] Contact details | [26] Datos de contacto | [26] Coordonnées de contact |

| PORTUGUÊS | TÜRK | РУССКИЙ |
|--|--|---|
| [0] Modo ARREFECIMENTO | [0] SOĞUTMA modu | [0] Режим ОХЛАЖДЕНИЯ |
| [1] Modelo | [1] Model | [1] Модель |
| [2] Tipo de aparelho de ar condicionado | [2] Klima tipi | [2] Тип кондиционера |
| [3] Ar-ar | [3] Havadan Havaya | [3] Воздух-воздух |
| [4] Tipo: | [4] Tip: | [4] Тип: |
| [5] Compressão de vapor acionada por compressor | [5] Kompresör tahraklı buhar kompresyonu | [5] Сжатие паров хладагента с помощью компрессора |
| [6] Potência de arrefecimento nominal | [6] Nominal soğutma kapasitesi | [6] Номинальная холодопроизводительность |
| [7] Eficiência energética sazonal de arrefecimento ambiente | [7] Mevsimsel alan kapasitesi enerji verimi | [7] Сезонная энергоэффективность в режиме охлаждения |
| [8] Coeficiente de desempenho sazonal | [8] Mevsimsel Performans Katsayı, kWh/kWh | [8] Сезонная энергоэффективность, кВт/кВт |
| [9] Nível de potência sonora, dB(A) | [9] Ses gücü seviyesi, dB(A) | [9] Корректированный уровень звуковой мощности, дБА |
| [10] Potência de arrefecimento e rácio de eficiência energética declarados para carga parcial a determinadas temperaturas exteriores Tj e temperaturas interiores de 27/19 °C (bulbo seco/ húmido) | [10] Verilen dış ortam sıcaklığı Tj ve iç mekan 27°/19°C'deki (kuru/yaş termometre sıcaklığı) kısmi yük için belirtilen soğutma kapasitesi ve enerji verim oranı | [10] Заявленная холодопроизводительность и показатель энергоэффективности при работе с частичной нагрузкой при данной температуре наружного воздуха Tj и температуре воздуха в помещении 27 °C/19 °C (по сух./влаж. термометру) |
| [11] Clima | [11] İklim | [11] Климат |
| [12] Condições climáticas médias (Estrasburgo) | [12] Ortalama (Strasbourg) | [12] Средняя (Страсбург) |
| [13] Potência de arrefecimento | [13] Soğutma kapasitesi | [13] Холодопроизводительность |
| [14] Coeficiente de degradação | [14] Azalma katsayı | [14] Коэффициент деградации |
| [15] Consumo energético em modos distintos do «modo ativo» | [15] "Etkin modu"nun dışındaki enerji tüketimi | [15] Потребляемая мощность в других режимах, кроме рабочего |
| [16] Modo desligado | [16] Kapali modu | [16] Режим «Откл.» |
| [17] Modo termostato desligado | [17] Termostat kapali modu | [17] Режим «Термостат отключен» |
| [18] Modo de resistência do cárter | [18] Karter ısıtıcı modu | [18] Режим подогрева картера |
| [19] Modo espera | [19] Bekleme modu | [19] Дежурный режим |
| [20] Outros parâmetros | [20] Diğer öğeler | [20] Прочее |
| [21] Regulação da potência | [21] Kapasite kontrolü | [21] Регулирование производительности |
| [22] Fixa/faseada/variável | [22] Sabit/Kademeli/değişken | [22] Фиксированное/ступенчатое/плавное |
| [23] PAG do refrigerante, kg CO2 eq (100 anos) | [23] Soğutucu akişkanın küresel ısınmaya neden olma potansiyeli (GWP), kg CO2 eşdeğer (100 yıl) | [23] GWP хладагента, килограмм-эквивалентов CO2 (100 лет) |
| [24] Para aparelhos de ar condicionado ar-ar | [24] Havadan havaya klimalar için | [24] Для кондиционера типа «воздух-воздух» |
| [25] Débito de ar, medido no exterior | [25] Dış ortamda ölçülen nominal hava akış debisi, m³/saat | [25] Номинальный расход воздуха(по наружному воздуху), м³/ч |
| [26] Dados de contacto | [26] İletişim bilgileri | [26] Контактная информация |

HEATING MODE [0]

| | |
|---|----------------|
| Model [1] | |
| Heat pump type [2] | Air-to-Air [3] |
| Equipped with supplementary heater [4] | Yes/No [5] |

| | | |
|---|----------|--|
| Rated heating capacity, kW [6] | Prated,h | |
| Seasonal space heating energy efficiency, % [7] | ηs,h | |
| Seasonal Coefficient Of Performance, kWh/kWh [8] | SCOP | |
| Sound power level, outdoor, dB [9] | LWA | |

Declared heating capacity and coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj [10]

| Climate: [11] | Average (Strasbourg) [12] | | |
|---|---------------------------|---------|-----------------------|
| Bivalent temperature Tbiv, °C [13] | | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | | | |
| + 2 | | | |
| + 7 | | | |
| + 12 | | | |
| Bivalent temperature [16] | | | |
| Operating limit temperature [17] | | | |

Power consumption in modes other than ‘active mode’ [18]

| | | |
|---------------------------------------|------|--|
| Off mode, kW [19] | POFF | |
| Thermostat off mode, kW [20] | PTO | |
| Crankcase heater mode, kW [21] | PCK | |

Supplementary heater [22]

| | | |
|--|------|--|
| Back-up heating capacity, kW [23] | elbu | |
| Type of energy input [24] | | |
| Standby mode, kW [25] | PSB | |

Other items [26]

| | |
|---|----------------------------|
| Capacity control [27] | fixed/Staged/variable [28] |
| GWP of the refrigerant, kg CO2 eq (100 years) [29] | |

For air-to-air heat pumps [30]

| | |
|---|--|
| Air flow rate, outdoor measured, m3/h [31] | |
|---|--|

Contact details [32]

| | |
|--|--|
| | |
|--|--|

| ENGLISH | ESPAÑOL | FRANÇAIS |
|---|--|---|
| [0] HEATING mode | [0] Modo CALOR | [0] Mode CHAUD |
| [1] Model | [1] Modelo | [1] Modèle |
| [2] Heat pump type | [2] Tipo de bomba de calor | [2] Type de pompe à chaleur |
| [3] Air to Air | [3] Aire-aire | [3] Air-air |
| [4] Equipped with supplementary heater | [4] Equipado con calefacción complementaria | [4] Equipé d'un chauffage supplémentaire |
| [5] Yes/No | [5] Sí/No | [5] Oui/Non |
| [6] Rated heating capacity | [6] Potencia nominal de calefacción | [6] Puissance calorifique nominale |
| [7] Seasonal space heating energy efficiency | [7] Eficiencia energética estacional de calefacción de espacios | [7] Efficacité énergétique saisonnière pour le chauffage des locaux |
| [8] Seasonal coefficient of performance | [8] Coeficiente de rendimiento estacional | [8] Coefficient saisonnier de performance |
| [9] Sound power level, dB(A) | [9] Nivel de potencia acústica, dB(A) | [9] Niveau de puissance acoustique, dB(A) |
| [10] Declared heating capacity and coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj | [10] Potencia calorífica y coeficiente de rendimiento declarados para carga parcial a una temperatura interior de 20°C y una temperatura exterior Tj | [10] Puissance calorifique et coefficient de performance déclarés à charge partielle pour une température intérieure de 20°C et une température extérieure Tj |
| [11] Climate | [11] Clima | [11] Climat |
| [12] Average (Strasbourg) | [12] Condiciones climáticas medias (Estrasburgo) | [12] Moyennes (Strasbourg) |
| [13] Bivalent temperature, °C | [13] Temperatura bivalente, °C | [13] Température bivaleure, °C |
| [14] Heating capacity | [14] Potencia calorífica | [14] Puissance calorifique |
| [15] Degradation coeff | [15] Coeficiente de degradación | [15] Coefficient de dégradation |
| [16] Bivalent temperature | [16] Temperatura bivalente | [16] Température bivaleure |
| [17] Operation limit temperature | [17] Temperatura límite de funcionamiento | [17] Température limite de fonctionnement |
| [18] Power consumption in modes other than 'active mode' | [18] Consumo de energía en modos distintos del 'modo activo' | [18] Consommation d'énergie dans les modes autres que le 'mode actif' |
| [19] Off mode | [19] Modo desactivado | [19] Mode arrêt |
| [20] Thermostat off-mode | [20] Modo desactivado por termostato | [20] Mode arrêt par thermostat |
| [21] Crankcase heater mode | [21] Modo de calentador del cárter | [21] Mode résistance de carter active |
| [22] Supplementary heater | [22] Calefactor complementario | [22] Dispositif de chauffage d'appoint |
| [23] Back-up heating capacity | [23] Potencia de calefacción de apoyo | [23] Puissance calorifique du dispositif de chauffage d'appoint |
| [24] Type of energy input | [24] Tipo de energía consumida | [24] Type d'énergie utilisée |
| [25] Standby mode | [25] Modo de espera | [25] Mode veille |
| [26] Other items | [26] Otros elementos | [26] Autres caractéristiques |
| [27] Capacity control | [27] Control de potencia | [27] Régulation de la puissance |
| [28] Fixed/Staged/variable | [28] Fijo/gradual/variable | [28] fixe/étagée/variable |
| [29] GWP of the refrigerant, kg CO2 eq (100 years) | [29] PCA del refrigerante, kg CO2 eq (100 años) | [29] PRP du fluide frigorigène, kg CO2 eq (100 ans) |
| [30] For air-to-air heat pumps | [30] Para bombas de calor aire-aire | [30] Pour les pompes à chaleur air-air |
| [31] Nominal air flow rate, outdoor measured, m³/h | [31] Caudal de aire nominal, exterior | [31] Débit d'air nominal, mesuré à l'extérieur |
| [32] Contact details | [32] Datos de contacto | [32] Coordonnées de contact |

| PORTUGUÊS | TÜRK | РУССКИЙ |
|--|---|--|
| [0] Modo AQUECIMENTO | [0] ISITMA modu | [0] Режим НАГРЕВА |
| [1] Modelo | [1] Model | [1] Модель |
| [2] Tipo de bomba de calor | [2] Isı pompası tipi | [2] Тип теплового насоса |
| [3] Ar-ar | [3] Havadan Havaya | [3] Воздух-воздух |
| [4] Equipado com um aquecedor suplementar | [4] Ek ısıtıcıya sahip | [4] С дополнительным нагревателем |
| Sim/não | [5] Evet/Hayır | [5] Да/Нет |
| [6] Potência de aquecimento nominal | [6] Nominal ısıtma kapasitesi | [6] Номинальная теплопроизводительность |
| [7] Eficiência energética sazonal de aquecimento ambiente | [7] Mevsimsel alan ısıtma enerji verimi | [7] Сезонная энергоэффективность в режиме обогрева |
| [8] Coeficiente de desempenho sazonal | [8] Mevsimsel Performans Katsayı, kWh/kWh | [8] Сезонная энергоэффективность, кВт/кВт |
| [9] Nível de potência sonora, dB(A) | [9] Ses gücü seviyesi, dB(A) | [9] Корректированный уровень звуковой мощности, дБА |
| [10] Potência de aquecimento e coeficiente de desempenho declarados para carga parcial a uma temperatura interior de 20 °C e a uma temperatura exterior Tj | [10] Dış ortam sıcaklığı Tj ve iç mekan sıcaklığı 20°C'deki kısmi yük için belirtilen ısıtma kapasitesi ve performans katsayı | [10] Заявленная теплопроизводительность и показатель эффективности при работе с частичной нагрузкой при температуре воздуха в помещении 20 °C и температуре наружного воздуха Tj |
| [11] Clima | [11] İklim | [11] Климат |
| [12] Condições climáticas médias (Estrasburgo) | [12] Ortalama (Strasbourg) | [12] Усредненные климатические условия (Страсбург) |
| [13] Temperatura bivalente, °C | [13] İki değerli sıcaklık, °C | [13] Температура на входе и выходе, °C |
| [14] Potência de aquecimento | [14] Isıtma kapasitesi | [14] Теплопроизводительность |
| [15] Coeficiente de degradação | [15] Azalma katsayı | [15] Коэффициент деградации |
| [16] Temperatura bivalente | [16] İki değerli sıcaklık | [16] Температура на входе и выходе |
| [17] Temperatura límite de funcionamento | [17] Çalışma sınırı sıcaklığı | [17] Предельные значения рабочей температуры |
| [18] Consumo energético em modos distintos do «modo ativo» | [18] "Etkin modu"nun dışındaki enerji tüketimi | [18] Потребляемая мощность в других режимах, кроме рабочего |
| [19] Modo desligado | [19] Kapalı modu | [19] Режим «Откл.» |
| [20] Modo termostato desligado | [20] Termostat kapalı modu | [20] Режим «Термостат отключен» |
| [21] Modo de resistência do cárter | [21] Karter ısıtıcı modu | [21] Режим подогрева картера |
| [22] Aquecedor suplementar | [22] Ek ısıtıcı | [22] Дополнительный нагреватель |
| [23] Potência de aquecimento de apoio | [23] Yedek ısıtma kapasitesi | [23] Теплопроизводительность резервных электронагревателей |
| [24] Tipo de alimentação de energia | [24] Enerji girişi tipi | [24] Тип подводимой энергии |
| [25] Modo espera | [25] Bekleme modu | [25] Дежурный режим |
| [26] Outros parâmetros | [26] Diğer öğeler | [26] Прочее |
| [27] Regulação da potência | [27] Kapasite kontrolü | [27] Регулирование производительности |
| [28] Fixa/faseada/variável | [28] Sabit/Kademeli/değişken | [28] Фиксированное/ступенчатое/плавное |
| [29] PAG do refrigerante, kg CO2 eq (100 anos) | [29] Soğutucu akişkanın küresel ısınmaya neden olma potansiyeli (GWP), kg CO2 eşdeğer (100 yıl) | [29] GWP хладагента, килограмм-эквивалентов CO2 (100 лет) |
| [30] Para bombas de calor ar-ar | [30] Havadan havaya ısı pompaları için | [30] Для тепловых насосов типа «воздух-воздух» |
| [31] Débito de ar, medida no exterior | [31] Dış ortamda ölçülen nominal hava akış debisi, m³/saat | [31] Номинальный расход воздуха (по наружному воздуху), м³/ч |
| [32] Dados de contacto | [32] İletişim bilgileri | [32] Контактная информация |

1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-090 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 19,10 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 142% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,63 |
| Sound power level, outdoor, dB | LWA | 84,7 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | |
|-----------------|---------------------------------|----------------|------------------------------|
| | Cooling capacity Pdc, kW | EERd, % | Degradation coef, Cdc |
| + 35 | 19,10 | 2,47 | - |
| + 30 | 14,07 | 3,47 | - |
| + 25 | 12,61 | 4,23 | 0,25 |
| + 20 | 13,12 | 4,83 | 0,25 |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,02 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,02 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|---|------|
| Air flow rate, outdoor measured, m³/h | 7000 |
|---|------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-090 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 19,27 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 119% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,06 |
| Sound power level, outdoor, dB | LWA | 84,7 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| Climate: | Average (Strasbourg) | | |
|-------------------------------|--------------------------|---------|-----------------------|
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 13,87 | 2,40 | - |
| + 2 | 9,71 | 3,32 | - |
| + 7 | 11,15 | 3,69 | 0,250 |
| + 12 | 12,77 | 4,13 | 0,25 |
| Bivalent temperature | 14,57 | 2,54 | - |
| Operating limit temperature | 12,57 | 2,27 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,12 |
| Crankcase heater mode, kW | PCK | 0,10 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 5,47 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,12 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|------|
| Air flow rate, outdoor measured, m3/h | 7000 |
|--|------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
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1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-120 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 25,33 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 148% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,78 |
| Sound power level, outdoor, dB | LWA | 88,2 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | |
|-----------------|---------------------------------|----------------|------------------------------|
| | Cooling capacity Pdc, kW | EERd, % | Degradation coef, Cdc |
| + 35 | 25,33 | 2,82 | - |
| + 30 | 18,66 | 3,24 | - |
| + 25 | 15,53 | 4,48 | 0,25 |
| + 20 | 16,25 | 5,15 | 0,25 |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,02 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,02 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|---|-------|
| Air flow rate, outdoor measured, m³/h | 10000 |
|---|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-120 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 27,63 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 124% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,16 |
| Sound power level, outdoor, dB | LWA | 88,2 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| Climate: | Average (Strasbourg) | | |
|-------------------------------|--------------------------|---------|-----------------------|
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 18,26 | 2,53 | - |
| + 2 | 12,96 | 3,36 | - |
| + 7 | 14,77 | 3,90 | 0,250 |
| + 12 | 16,72 | 4,32 | 0,25 |
| Bivalent temperature | 19,45 | 2,64 | - |
| Operating limit temperature | 16,87 | 2,38 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,12 |
| Crankcase heater mode, kW | PCK | 0,10 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 7,21 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,12 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 10000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
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1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-160 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 33,94 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 140% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,57 |
| Sound power level, outdoor, dB | LWA | 88,5 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | |
|-----------------|---------------------------------|----------------|------------------------------|
| | Cooling capacity Pdc, kW | EERd, % | Degradation coef, Cdc |
| + 35 | 33,94 | 2,62 | - |
| + 30 | 25,01 | 3,25 | - |
| + 25 | 20,48 | 4,06 | 0,25 |
| + 20 | 21,00 | 4,78 | 0,25 |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,02 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,02 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|---|-------|
| Air flow rate, outdoor measured, m³/h | 13000 |
|---|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
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1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-160 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 37,16 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 129% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,29 |
| Sound power level, outdoor, dB | LWA | 88,5 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| Climate: | Average (Strasbourg) | | |
|--------------------------------------|---------------------------------|----------------|------------------------------|
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 24,73 | 2,61 | - |
| + 2 | 17,38 | 3,52 | - |
| + 7 | 18,79 | 3,96 | 0,250 |
| + 12 | 21,10 | 4,40 | 0,25 |
| Bivalent temperature | 26,07 | 2,81 | - |
| Operating limit temperature | 22,75 | 2,50 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,12 |
| Crankcase heater mode, kW | PCK | 0,10 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 9,53 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,12 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 13000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-180 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 39,74 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 130% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,33 |
| Sound power level, outdoor, dB | LWA | 88,8 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | |
|-----------------|---------------------------------|----------------|------------------------------|
| | Cooling capacity Pdc, kW | EERd, % | Degradation coef, Cdc |
| + 35 | 39,74 | 2,53 | - |
| + 30 | 29,28 | 2,95 | - |
| + 25 | 26,40 | 3,64 | 0,25 |
| + 20 | 27,62 | 4,14 | 0,25 |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,02 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,02 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|---|-------|
| Air flow rate, outdoor measured, m³/h | 13000 |
|---|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-180 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 44,64 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 126% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,21 |
| Sound power level, outdoor, dB | LWA | 88,8 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| Climate: | Average (Strasbourg) | | |
|-------------------------------|--------------------------|---------|-----------------------|
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 28,96 | 2,83 | - |
| + 2 | 17,63 | 3,46 | - |
| + 7 | 23,58 | 4,02 | 0,250 |
| + 12 | 26,86 | 4,46 | 0,25 |
| Bivalent temperature | 26,45 | 2,53 | - |
| Operating limit temperature | 19,90 | 2,09 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,12 |
| Crankcase heater mode, kW | PCK | 0,10 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 12,85 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,12 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 13000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

COOLING MODE

| | | |
|-----------------------------|--------------------------------------|--|
| Model | ISPK-200 | |
| Air conditioner type | Air-to-Air | |
| Type | Compressor driven vapour compression | |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 47,23 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 141% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,61 |
| Sound power level, outdoor, dB | LWA | 89,5 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | |
|-----------------|---------------------------------|----------------|------------------------------|
| | Cooling capacity Pdc, kW | EERd, % | Degradation coef, Cdc |
| + 35 | 47,23 | 2,56 | - |
| + 30 | 34,80 | 3,30 | - |
| + 25 | 22,37 | 4,01 | - |
| + 20 | 17,32 | 4,45 | 0,25 |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,03 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,03 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 19000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-200 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 51,99 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 122% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,13 |
| Sound power level, outdoor, dB | LWA | 89,5 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| Climate: | Average (Strasbourg) | | |
|-------------------------------|--------------------------|---------|-----------------------|
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 49,39 | 2,60 | - |
| + 2 | 28,71 | 2,90 | - |
| + 7 | 18,45 | 4,02 | - |
| + 12 | 14,69 | 3,76 | 0,25 |
| Bivalent temperature | 43,06 | 2,70 | - |
| Operating limit temperature | 44,03 | 2,50 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,25 |
| Crankcase heater mode, kW | PCK | 0,20 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 9,28 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,25 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 19000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-240 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 52,07 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 154% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,93 |
| Sound power level, outdoor, dB | LWA | 89,1 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | | |
|-----------------|----------------------|---------------------------------|----------------|------------------------------|
| | Tj, °C | Cooling capacity Pdc, kW | EERd, % | Degradation coef, Cdc |
| + 35 | 52,07 | 2,78 | - | |
| + 30 | 38,37 | 3,14 | - | |
| + 25 | 24,66 | 4,62 | - | |
| + 20 | 17,25 | 4,91 | 0,25 | |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,03 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,03 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 23000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-240 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 57,49 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 127% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,25 |
| Sound power level, outdoor, dB | LWA | 89,1 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| Climate: | Average (Strasbourg) | | |
|--------------------------------------|---------------------------------|----------------|------------------------------|
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 34,03 | 2,37 | - |
| + 2 | 23,35 | 3,38 | - |
| + 7 | 15,01 | 3,86 | - |
| + 12 | 17,20 | 3,87 | 0,25 |
| Bivalent temperature | 35,03 | 2,50 | - |
| Operating limit temperature | 30,88 | 2,31 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,25 |
| Crankcase heater mode, kW | PCK | 0,20 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 12,48 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,25 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 23000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
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1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-280 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 60,59 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 153% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,89 |
| Sound power level, outdoor, dB | LWA | 89,4 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | |
|-----------------|----------------------|---------------------------------|----------------|
| | Tj, °C | Cooling capacity Pdc, kW | EERd, % |
| + 35 | 60,59 | 2,75 | - |
| + 30 | 44,65 | 3,13 | - |
| + 25 | 28,70 | 4,57 | - |
| + 20 | 19,54 | 4,77 | 0,25 |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,03 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,03 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 23000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-280 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 64,65 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 125% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,21 |
| Sound power level, outdoor, dB | LWA | 89,4 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| Climate: | Average (Strasbourg) | | |
|--------------------------------------|---------------------------------|----------------|------------------------------|
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 38,32 | 2,23 | - |
| + 2 | 26,13 | 3,26 | - |
| + 7 | 16,80 | 3,96 | - |
| + 12 | 19,25 | 4,77 | 0,25 |
| Bivalent temperature | 39,19 | 2,42 | - |
| Operating limit temperature | 34,60 | 2,20 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,25 |
| Crankcase heater mode, kW | PCK | 0,20 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 13,93 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,25 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 23000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-320 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 69,66 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 151% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,85 |
| Sound power level, outdoor, dB | LWA | 89,5 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | |
|-----------------|----------------------|---------------------------------|----------------|
| | Tj, °C | Cooling capacity Pdc, kW | EERd, % |
| + 35 | 69,66 | 2,68 | - |
| + 30 | 51,33 | 2,86 | - |
| + 25 | 33,00 | 4,57 | - |
| + 20 | 21,15 | 5,07 | 0,25 |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,03 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,03 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 24400 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-320 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 74,07 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 127% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,25 |
| Sound power level, outdoor, dB | LWA | 89,5 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| Climate: | Average (Strasbourg) | | |
|--------------------------------------|---------------------------------|----------------|------------------------------|
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 45,53 | 2,32 | - |
| + 2 | 30,62 | 3,27 | - |
| + 7 | 19,69 | 4,05 | - |
| + 12 | 21,10 | 4,50 | 0,25 |
| Bivalent temperature | 45,93 | 2,53 | - |
| Operating limit temperature | 41,19 | 2,36 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,25 |
| Crankcase heater mode, kW | PCK | 0,20 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 15,68 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,25 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 24400 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

COOLING MODE

| | | |
|-----------------------------|--------------------------------------|--|
| Model | ISPK-360 | |
| Air conditioner type | Air-to-Air | |
| Type | Compressor driven vapour compression | |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 81,52 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 148% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,78 |
| Sound power level, outdoor, dB | LWA | 89,8 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | |
|-----------------|----------------------|---------------------------------|----------------|
| | Tj, °C | Cooling capacity Pdc, kW | EERd, % |
| + 35 | 81,52 | 2,53 | - |
| + 30 | 60,07 | 2,91 | - |
| + 25 | 38,61 | 4,43 | - |
| + 20 | 25,69 | 4,96 | 0,25 |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,03 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,03 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 24400 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-360 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 84,77 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 126% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,21 |
| Sound power level, outdoor, dB | LWA | 89,8 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| Climate: | Average (Strasbourg) | | |
|--------------------------------------|---------------------------------|----------------|------------------------------|
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 54,58 | 2,28 | - |
| + 2 | 37,11 | 3,17 | - |
| + 7 | 23,85 | 4,05 | - |
| + 12 | 26,81 | 4,87 | 0,25 |
| Bivalent temperature | 55,66 | 2,48 | - |
| Operating limit temperature | 50,48 | 2,35 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,25 |
| Crankcase heater mode, kW | PCK | 0,20 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 18,44 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,25 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 24400 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
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1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-420 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|--------|
| Rated cooling capacity, kW | Prated,c | 105,52 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 140% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,57 |
| Sound power level, outdoor, dB | LWA | 91,1 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | | |
|-----------------|----------------------|---------------------------------|----------------|------------------------------|
| | Tj, °C | Cooling capacity Pdc, kW | EERd, % | Degradation coef, Cdc |
| + 35 | 105,52 | 2,55 | - | |
| + 30 | 77,75 | 3,40 | - | |
| + 25 | 49,98 | 3,86 | - | |
| + 20 | 32,86 | 4,13 | 0,25 | |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,05 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,05 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 30000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-420 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|--------|
| Rated heating capacity, kW | Prated,h | 108,66 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 117% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 2,99 |
| Sound power level, outdoor, dB | LWA | 91,1 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| Climate: | Average (Strasbourg) | | |
|--------------------------------------|---------------------------------|----------------|------------------------------|
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 66,94 | 2,44 | - |
| + 2 | 45,73 | 3,01 | - |
| + 7 | 29,40 | 3,52 | - |
| + 12 | 32,60 | 3,87 | 0,25 |
| Bivalent temperature | 68,59 | 2,50 | - |
| Operating limit temperature | 60,64 | 2,32 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,35 |
| Crankcase heater mode, kW | PCK | 0,30 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 24,28 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,35 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 30000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-485 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|--------|
| Rated cooling capacity, kW | Prated,c | 114,87 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 139% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,55 |
| Sound power level, outdoor, dB | LWA | 93,3 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | |
|-----------------|----------------------|---------------------------------|----------------|
| | Tj, °C | Cooling capacity Pdc, kW | EERd, % |
| + 35 | 114,87 | 2,54 | - |
| + 30 | 84,64 | 3,30 | - |
| + 25 | 54,41 | 3,83 | - |
| + 20 | 35,73 | 4,23 | 0,25 |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,05 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,05 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 35000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

1 - STANDARD UNITS WITH INDOOR EC PLUG-FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-485 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|--------|
| Rated heating capacity, kW | Prated,h | 119,86 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 117% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,00 |
| Sound power level, outdoor, dB | LWA | 93,3 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| Climate: | Average (Strasbourg) | | |
|--------------------------------------|---------------------------------|----------------|------------------------------|
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 75,87 | 2,47 | - |
| + 2 | 51,61 | 3,04 | - |
| + 7 | 33,18 | 3,50 | - |
| + 12 | 37,21 | 3,80 | 0,25 |
| Bivalent temperature | 77,41 | 2,51 | - |
| Operating limit temperature | 68,85 | 2,36 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,35 |
| Crankcase heater mode, kW | PCK | 0,30 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 26,99 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,35 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 35000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-090 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 19,03 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 130% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,32 |
| Sound power level, outdoor, dB | LWA | 84,7 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | |
|-----------------|---------------------------------|----------------|------------------------------|
| | Cooling capacity Pdc, kW | EERd, % | Degradation coef, Cdc |
| + 35 | 19,03 | 2,45 | - |
| + 30 | 14,02 | 3,14 | - |
| + 25 | 12,69 | 3,85 | 0,25 |
| + 20 | 13,23 | 4,39 | 0,25 |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,02 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,02 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|---|------|
| Air flow rate, outdoor measured, m³/h | 7000 |
|---|------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-090 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 19,35 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 120% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,09 |
| Sound power level, outdoor, dB | LWA | 84,7 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| Climate: | Average (Strasbourg) | | |
|-------------------------------|--------------------------|---------|-----------------------|
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 13,93 | 2,43 | - |
| + 2 | 9,76 | 3,35 | - |
| + 7 | 11,26 | 3,71 | 0,250 |
| + 12 | 12,84 | 4,16 | 0,25 |
| Bivalent temperature | 14,64 | 2,57 | - |
| Operating limit temperature | 12,64 | 2,30 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,12 |
| Crankcase heater mode, kW | PCK | 0,10 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 5,48 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,12 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|------|
| Air flow rate, outdoor measured, m3/h | 7000 |
|--|------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-120 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 25,20 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 132% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,37 |
| Sound power level, outdoor, dB | LWA | 88,2 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | |
|-----------------|---------------------------------|----------------|------------------------------|
| | Cooling capacity Pdc, kW | EERd, % | Degradation coef, Cdc |
| + 35 | 25,19 | 2,75 | - |
| + 30 | 18,56 | 3,08 | - |
| + 25 | 16,25 | 3,88 | 0,25 |
| + 20 | 16,87 | 4,37 | 0,25 |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,02 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,02 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|---|-------|
| Air flow rate, outdoor measured, m³/h | 10000 |
|---|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-120 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 27,80 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 124% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,17 |
| Sound power level, outdoor, dB | LWA | 88,2 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| Climate: | Average (Strasbourg) | | |
|-------------------------------|--------------------------|---------|-----------------------|
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 18,40 | 2,49 | - |
| + 2 | 13,06 | 3,38 | - |
| + 7 | 14,90 | 3,73 | 0,250 |
| + 12 | 16,90 | 4,23 | 0,25 |
| Bivalent temperature | 19,58 | 2,88 | - |
| Operating limit temperature | 17,00 | 2,36 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,12 |
| Crankcase heater mode, kW | PCK | 0,10 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 7,24 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,12 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 10000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-160 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 34,02 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 128% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,27 |
| Sound power level, outdoor, dB | LWA | 88,5 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | |
|-----------------|----------------------|---------------------------------|----------------|
| | Tj, °C | Cooling capacity Pdc, kW | EERd, % |
| + 35 | 34,02 | 2,65 | - |
| + 30 | 25,07 | 3,09 | - |
| + 25 | 21,49 | 3,62 | 0,25 |
| + 20 | 21,95 | 4,30 | 0,25 |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,02 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,02 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 13000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-160 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 37,08 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 120% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,07 |
| Sound power level, outdoor, dB | LWA | 88,5 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| Climate: | Average (Strasbourg) | | |
|--------------------------------------|---------------------------------|----------------|------------------------------|
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 24,81 | 2,58 | - |
| + 2 | 17,44 | 3,13 | - |
| + 7 | 19,24 | 3,82 | 0,250 |
| + 12 | 21,85 | 4,22 | 0,25 |
| Bivalent temperature | 26,15 | 2,72 | - |
| Operating limit temperature | 22,83 | 2,48 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,12 |
| Crankcase heater mode, kW | PCK | 0,10 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 9,55 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,12 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 13000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-180 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 39,80 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 124% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,19 |
| Sound power level, outdoor, dB | LWA | 88,8 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | |
|-----------------|---------------------------------|----------------|------------------------------|
| | Cooling capacity Pdc, kW | EERd, % | Degradation coef, Cdc |
| + 35 | 39,78 | 2,54 | - |
| + 30 | 29,31 | 2,95 | - |
| + 25 | 26,41 | 3,65 | 0,25 |
| + 20 | 27,63 | 4,15 | 0,25 |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,02 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,02 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|---|-------|
| Air flow rate, outdoor measured, m³/h | 13000 |
|---|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-180 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 44,60 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 120% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,08 |
| Sound power level, outdoor, dB | LWA | 88,8 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| Climate: | Average (Strasbourg) | | |
|-------------------------------|--------------------------|---------|-----------------------|
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 29,16 | 2,57 | - |
| + 2 | 17,47 | 3,35 | - |
| + 7 | 23,80 | 3,91 | 0,250 |
| + 12 | 27,08 | 4,34 | 0,25 |
| Bivalent temperature | 26,21 | 2,46 | - |
| Operating limit temperature | 19,36 | 1,99 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,12 |
| Crankcase heater mode, kW | PCK | 0,10 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 19,43 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,12 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 13000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-200 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 46,51 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 126% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,23 |
| Sound power level, outdoor, dB | LWA | 89,5 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | |
|-----------------|---------------------------------|----------------|------------------------------|
| | Cooling capacity Pdc, kW | EERd, % | Degradation coef, Cdc |
| + 35 | 46,51 | 2,43 | - |
| + 30 | 34,27 | 3,31 | - |
| + 25 | 22,03 | 3,51 | - |
| + 20 | 16,21 | 3,46 | 0,25 |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,03 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,03 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|---|-------|
| Air flow rate, outdoor measured, m³/h | 19000 |
|---|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
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2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-200 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 52,71 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 115% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 2,96 |
| Sound power level, outdoor, dB | LWA | 89,5 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| Climate: | Average (Strasbourg) | | |
|-------------------------------|--------------------------|---------|-----------------------|
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 37,34 | 2,70 | - |
| + 2 | 30,72 | 2,94 | - |
| + 7 | 19,75 | 3,46 | - |
| + 12 | 16,22 | 3,06 | 0,25 |
| Bivalent temperature | 46,08 | 2,85 | - |
| Operating limit temperature | 47,06 | 2,55 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,25 |
| Crankcase heater mode, kW | PCK | 0,20 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 9,99 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,25 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 19000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
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2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-240 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 51,91 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 148% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,79 |
| Sound power level, outdoor, dB | LWA | 89,1 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | |
|-----------------|----------------------|---------------------------------|----------------|
| | Tj, °C | Cooling capacity Pdc, kW | EERd, % |
| + 35 | 51,91 | 2,75 | - |
| + 30 | 38,25 | 3,01 | - |
| + 25 | 24,59 | 4,46 | - |
| + 20 | 17,09 | 4,66 | 0,25 |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,03 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,03 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 23000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
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2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-240 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 57,65 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 122% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,12 |
| Sound power level, outdoor, dB | LWA | 89,1 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| | | | |
|--------------------------------------|---------------------------------|----------------|------------------------------|
| Climate: | Average (Strasbourg) | | |
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 34,16 | 2,35 | - |
| + 2 | 22,90 | 3,18 | - |
| + 7 | 14,72 | 3,74 | - |
| + 12 | 17,34 | 4,47 | 0,25 |
| Bivalent temperature | 34,34 | 2,43 | - |
| Operating limit temperature | 31,01 | 2,29 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,25 |
| Crankcase heater mode, kW | PCK | 0,20 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 8,18 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,25 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 23000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
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2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-280 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 60,12 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 146% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,72 |
| Sound power level, outdoor, dB | LWA | 89,4 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | |
|-----------------|----------------------|---------------------------------|----------------|
| | Tj, °C | Cooling capacity Pdc, kW | EERd, % |
| + 35 | 60,12 | 2,68 | - |
| + 30 | 44,30 | 3,29 | - |
| + 25 | 28,48 | 4,24 | - |
| + 20 | 19,12 | 4,26 | 0,25 |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,03 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,03 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 23000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-280 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 65,12 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 121% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,09 |
| Sound power level, outdoor, dB | LWA | 89,4 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| | | | |
|--------------------------------------|---------------------------------|----------------|------------------------------|
| Climate: | Average (Strasbourg) | | |
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 38,70 | 2,20 | - |
| + 2 | 26,83 | 3,26 | - |
| + 7 | 17,24 | 3,57 | - |
| + 12 | 19,67 | 4,29 | 0,25 |
| Bivalent temperature | 40,24 | 2,42 | - |
| Operating limit temperature | 34,97 | 2,17 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,25 |
| Crankcase heater mode, kW | PCK | 0,20 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 14,84 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,25 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 23000 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
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2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-320 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 69,77 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 146% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,73 |
| Sound power level, outdoor, dB | LWA | 89,5 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | |
|-----------------|----------------------|---------------------------------|----------------|
| | Tj, °C | Cooling capacity Pdc, kW | EERd, % |
| + 35 | 69,77 | 2,70 | - |
| + 30 | 51,41 | 2,98 | - |
| + 25 | 33,05 | 4,36 | - |
| + 20 | 22,49 | 4,58 | 0,25 |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,03 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,03 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|---|-------|
| Air flow rate, outdoor measured, m³/h | 24400 |
|---|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
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2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-320 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 73,95 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 121% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,11 |
| Sound power level, outdoor, dB | LWA | 89,5 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| | | | |
|--------------------------------------|---------------------------------|----------------|------------------------------|
| Climate: | Average (Strasbourg) | | |
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 45,39 | 2,33 | - |
| + 2 | 30,01 | 3,08 | - |
| + 7 | 19,29 | 3,79 | - |
| + 12 | 22,04 | 4,46 | 0,25 |
| Bivalent temperature | 45,02 | 2,50 | - |
| Operating limit temperature | 41,05 | 2,37 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,25 |
| Crankcase heater mode, kW | PCK | 0,20 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 14,69 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,25 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 24400 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
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2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

COOLING MODE

| | |
|-----------------------------|--------------------------------------|
| Model | ISPK-360 |
| Air conditioner type | Air-to-Air |
| Type | Compressor driven vapour compression |

| | | |
|---|--------------|-------|
| Rated cooling capacity, kW | Prated,c | 81,53 |
| Seasonal space cooling energy efficiency, % | $\eta_{s,c}$ | 141% |
| Seasonal Coefficient Of Performance, kWh/kWh | SEER | 3,61 |
| Sound power level, outdoor, dB | LWA | 89,8 |

Declared cooling capacity and energy efficiency ratio for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)

| Climate: | Average (Strasbourg) | | | |
|-----------------|----------------------|---------------------------------|----------------|------------------------------|
| | Tj, °C | Cooling capacity Pdc, kW | EERd, % | Degradation coef, Cdc |
| + 35 | 81,53 | 2,53 | - | |
| + 30 | 60,07 | 3,09 | - | |
| + 25 | 38,62 | 4,11 | - | |
| + 20 | 27,01 | 4,34 | 0,25 | |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,03 |
| Crankcase heater mode, kW | PCK | 0,00 |
| Standby mode, kW | PSB | 0,03 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air air conditioner

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 24400 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

2 - OPTIONAL UNITS WITH INDOOR CENTRIFUGAL FAN

HEATING MODE

| | |
|---|------------|
| Model | ISPK-360 |
| Heat pump type | Air-to-Air |
| Equipped with supplementary heater | No |

| | | |
|---|--------------|-------|
| Rated heating capacity, kW | Prated,h | 84,76 |
| Seasonal space heating energy efficiency, % | $\eta_{s,h}$ | 121% |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP | 3,10 |
| Sound power level, outdoor, dB | LWA | 89,8 |

Declared heating capacity and energy efficiency ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| Climate: | Average (Strasbourg) | | |
|-------------------------------|--------------------------|---------|-----------------------|
| Bivalent temperature Tbiv, °C | -5 | | |
| Tj, °C | Heating capacity Pdh, kW | COPd, % | Degradation coef, Cdh |
| - 7 | 54,54 | 2,28 | - |
| + 2 | 37,08 | 3,18 | - |
| + 7 | 23,84 | 3,62 | - |
| + 12 | 27,67 | 4,25 | 0,25 |
| Bivalent temperature | 55,63 | 2,48 | - |
| Operating limit temperature | 50,44 | 2,35 | - |

Power consumption in modes other than 'active mode'

| | | |
|----------------------------------|------|------|
| Off mode, kW | POFF | 0,00 |
| Thermostat-off mode, kW | PTO | 0,25 |
| Crankcase heater mode, kW | PCK | 0,20 |

Supplementary heater

| | | |
|---------------------------------|------|----------|
| Back-up heating capacity | elbu | 18,43 |
| Type of energy input | | Electric |
| Standby mode, kW | PSB | 0,25 |

Other items

| | |
|--|--------|
| Capacity control | Staged |
| GWP of the refrigerant, kg CO2 eq (100 years) | 2088 |

For air-to-air heat pumps

| | |
|--|-------|
| Air flow rate, outdoor measured, m3/h | 24400 |
|--|-------|

| | |
|------------------------|--|
| Contact details | Manufactured by CIAT- 14550 Montilla SPAIN |
|------------------------|--|

