10611

10 - 2020

Vectios Power PJ

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]	ηs,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]		
Tj, °C	**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

[0] COOLING mode
[1] Model
[2] Air conditioner type
[3] Air to Air
[4] Type:
[5] Compressor driven vapour compression
[6] Rated cooling capacity
[7] Seasonal space capacity energy efficiency
[8] Seasonal coefficient of performance
[9] Sound power level, 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)
[11] Climate
[12] Average (Strasbourg)
[13] Cooling capacity
[14] Degradation coeff
[15] Power consumption in modes other than 'active mode'
[16] Off mode
[17] Thermostat off-mode
[18] Crankcase heater mode
[19] Standby mode
[20] Other items
[21] Capacity control
[22] Fixed/Staged/variable
[23] GWP of the refrigerant, kg CO2 eq (100 years)
[24] For air-to-air air conditioner
[25] Nominal air flow rate, outdoor measured, m^3/h
[26] Contact details

ESPAÑOL

[0] Modo FRÍO
[1] Modelo
[2] Tipo de acondicionador de aire
[3] Aire-aire
[4] Tipo:
[5] Compresión de vapor por compresor
[6] Potencia nominal de refrigeración
[7] Eficiencia energética estacional de refrigeración de espacios
[8] Coeficiente de rendimiento estacional
[9] Nivel de potencia acústica, dB(A)
[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)
[11] Clima
[12] Condiciones climáticas medias (Estrasburgo)
[13] Potencia frigorífica
[14] Coeficiente de degradación
[15] Consumo de energía en modos distintos del 'modo activo'
[16] Modo desactivado
[17] Modo desactivado por termostato
[18] Modo de calentador del cárter
[19] Modo de espera
[20] Otros elementos
[21] Control de potencia
[22] Fijo/gradual/variable
[23] PCA del refrigerante, kg CO2 eq (100 años)
[24] Para acondicionador de aire aire-aire
[25] Caudal de aire nominal, exterior
[26] Datos de contacto

FRANÇAIS

[0] Mode FROID
[1] Modèle
[2] Type de climatiseur
[3] Air-air
[4] Type:
[5] Compresseur à cycle à compression de vapeur
[6] Puissance frigorifique nominale
[7] Efficacité énergétique saisonnière pour le refroidissement des locaux
[8] Coefficient saisonnier de performance
[9] Niveau de puissance acoustique, dB(A)
[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] Climat
[12] Moyennes (Strasbourg)
[13] Puissance frigorifique
[14] Coefficient de dégradation
[15] Consommation d'énergie dans les modes autres que le 'mode actif'
[16] Mode arrêt
[17] Mode arrêt par thermostat
[18] Mode résistance de carter active
[19] Mode veille
[20] Autres caractéristiques
[21] Régulation de la puissance
[22] fixe/étagée/variable
[23] PRP du fluide frigorigène, kg CO2 eq (100 ans)
[24] Pour les climatiseurs air-air
[25] Débit d'air nominal, mesuré à l'extérieur
[26] Coordonnées de contact

PORTUGUÊS

[0] Modo ARREFECIMENTO
[1] Modelo
[2] Tipo de aparelho de ar condicionado
[3] Ar-ar
[4] Tipo:
[5] Compressão de vapor acionada por compressor
[6] Potência de arrefecimento nominal
[7] Eficiência energética sazonal de arrefecimento ambiente
[8] Coeficiente de desempenho sazonal
[9] Nível de potência sonora, dB(A)
[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 (bolbo seco/ húmido)
[11] Clima
[12] Condições climáticas médias (Estrasburgo)
[13] Potência de arrefecimento
[14] Coeficiente de degradação
[15] Consumo energético em modos distintos do «modo ativo»
[16] Modo desligado
[17] Modo termóstato desligado
[18] Modo de resistência do cárter
[19] Modo espera
[20] Outros parâmetros
[21] Regulação da potência
[22] Fixa/faseada/variável
[23] PAG do refrigerante, kg CO2 eq (100 anos)
[24] Para aparelhos de ar condicionado ar-ar
[25] Débito de ar, medido no exterior
[26] Dados de contacto

TÜRK

[0] SOĞUTMA modu
[1] Model
[2] Klima tipi
[3] Havadan Havaya
[4] Tip:
[5] Kompresör tahrikli buhar kompresyonu
[6] Nominal soğutma kapasitesi
[7] Mevsimsel alan kapasitesi enerji verimi
[8] Mevsimsel Performans Katsayısı, kWh/kWh
[9] Ses gücü seviyesi, dB(A)
[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
[11] İklim
[12] Ortalama (Strasbourg)
[13] Soğutma kapasitesi
[14] Azalma katsayısı
[15] "Etkin modu"nun dışındaki enerji tüketimi
[16] Kapalı modu
[17] Termostat kapalı modu
[18] Karter ısıtıcısı modu
[19] Bekleme modu
[20] Diğer öğeler
[21] Kapasite kontrolü
[22] Sabit/Kademeli/değişken
[23] Soğutucu akışkanın küresel ısınmaya neden olma potansiyeli (GWP), kg CO2 eşdeğer (100 yıl)
[24] Havadan havaya klimalar için
[25] Dış ortamda ölçülen nominal hava akış debisi, m^3/saat
[26] İletişim bilgileri

РУССКИЙ

[0] Режим ОХЛАЖДЕНИЯ
[1] Модель
[2] Тип кондиционера
[3] Воздух-воздух
[4] Тип:
[5] Сжатие паров хладагента с помощью компрессора
[6] Номинальная холодопроизводительность
[7] Сезонная энергоэффективность в режиме охлаждения
[8] Сезонная энергоэффективность, кВт/кВт
[9] Корректированный уровень звуковой мощности, дБА
[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] Климат
[12] Средняя (Страсбург)
[13] Холодопроизводительность
[14] Коэффициент деградации
[15] Потребляемая мощность в других режимах, кроме рабочего
[16] Режим «Откл.»
[17] Режим «Термостат отключен»
[18] Режим подогрева картера
[19] Дежурный режим
[20] Прочее
[21] Регулирование производительности
[22] Фиксированное/ступенчатое/плавное
[23] GWP хладагента, килограмм-эквивалентов CO2 (100 лет)
[24] Для кондиционера типа «воздух-воздух»
[25] Номинальный расход воздуха (по наружному воздуху), $м^3/ч$
[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, ºC [13]			
Tj, °C	**Heating capacity Pdh, kW** [14]	**COPd, %**	**Degradation coef, Cdh** [15]
- 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

[0] HEATING mode
[1] Model
[2] Heat pump type
[3] Air to Air
[4] Equipped with supplementary heater
[5] Yes/No
[6] Rated heating capacity
[7] Seasonal space heating energy efficiency
[8] Seasonal coefficient of performance
[9] Sound power level, dB(A)
[10] Declared heating capacity and coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj
[11] Climate
[12] Average (Strasbourg)
[13] Bivalent temperature, ºC
[14] Heating capacity
[15] Degradation coeff
[16] Bivalent temperature
[17] Operation limit temperature
[18] Power consumption in modes other than 'active mode'
[19] Off mode
[20] Thermostat off-mode
[21] Crankcase heater mode
[22] Supplementary heater
[23] Back-up heating capacity
[24] Type of energy input
[25] Standby mode
[26] Other items
[27] Capacity control
[28] Fixed/Staged/variable
[29] GWP of the refrigerant, kg CO2 eq (100 years)
[30] For air-to-air heat pumps
[31] Nominal air flow rate, outdoor measured, m^3/h
[32] Contact details

ESPAÑOL

[0] Modo CALOR
[1] Modelo
[2] Tipo de bomba de calor
[3] Aire-aire
[4] Equipado con calefacción complementaria
[5] Sí/No
[6] Potencia nominal de calefacción
[7] Eficiencia energética estacional de calefacción de espacios
[8] Coeficiente de rendimiento estacional
[9] Nivel de potencia acústica, dB(A)
[10] Potencia calorífica y coeficiente de rendimiento declarados para carga parcial a una temperatura interior de 20°C y una temperatura exterior Tj
[11] Clima
[12] Condiciones climáticas medias (Estrasburgo)
[13] Temperatura bivalente, ºC
[14] Potencia calorífica
[15] Coeficiente de degradación
[16] Temperatura bivalente
[17] Temperatura límite de funcionamiento
[18] Consumo de energía en modos distintos del 'modo activo'
[19] Modo desactivado
[20] Modo desactivado por termostato
[21] Modo de calentador del cárter
[22] Calefactor complementario
[23] Potencia de calefacción de apoyo
[24] Tipo de energía consumida
[25] Modo de espera
[26] Otros elementos
[27] Control de potencia
[28] Fijo/gradual/variable
[29] PCA del refrigerante, kg CO2 eq (100 años)
[30] Para bombas de calor aire-aire
[31] Caudal de aire nominal, exterior
[32] Datos de contacto

FRANÇAIS

[0] Mode CHAUD
[1] Modèle
[2] Type de pompe à chaleur
[3] Air-air
[4] Equipé d'un chauffage supplémentaire
[5] Oui/Non
[6] Puissance calorifique nominale
[7] Efficacité énergétique saisonnière pour le chauffage des locaux
[8] Coefficient saisonnier de performance
[9] Niveau de puissance acoustique, dB(A)
[10] Puissance calorifique et coefficient de performance déclarés à charge partielle pour une température intérieure de 20°C et une température extérieure Tj
[11] Climat
[12] Moyennes (Strasbourg)
[13] Température bivalente, ºC
[14] Puissance calorifique
[15] Coefficient de dégradation
[16] Température bivalente
[17] Température limite de fonctionnement
[18] Consommation d'énergie dans les modes autres que le 'mode actif'
[19] Mode arrêt
[20] Mode arrêt par thermostat
[21] Mode résistance de carter active
[22] Dispositif de chauffage d'appoint
[23] Puissance calorifique du dispositif de chauffage d'appoint
[24] Type d'énergie utilisée
[25] Mode veille
[26] Autres caractéristiques
[27] Régulation de la puissance
[28] fixe/étagée/variable
[29] PRP du fluide frigorigène, kg CO2 eq (100 ans)
[30] Pour les pompes à chaleur air-air
[31] Débit d'air nominal, mesuré à l'extérieur
[32] Coordonnées de contact

PORTUGUÊS

[0] Modo AQUECIMENTO
[1] Modelo
[2] Tipo de bomba de calor
[3] Ar-ar
[4] Equipado com um aquecedor suplementar
[5] Sim/não
[6] Potência de aquecimento nominal
[7] Eficiência energética sazonal de aquecimento ambiente
[8] Coeficiente de desempenho sazonal
[9] Nível de potência sonora, dB(A)
[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
[11] Clima
[12] Condições climáticas médias (Estrasburgo)
[13] Temperatura bivalente, ºC
[14] Potência de aquecimento
[15] Coeficiente de degradação
[16] Temperatura bivalente
[17] Temperatura limite de funcionamento
[18] Consumo energético em modos distintos do «modo ativo»
[19] Modo desligado
[20] Modo termóstato desligado
[21] Modo de resistência do cárter
[22] Aquecedor suplementar
[23] Potência de aquecimento de apoio
[24] Tipo de alimentação de energia
[25] Modo espera
[26] Outros parâmetros
[27] Regulação da potência
[28] Fixa/faseada/variável
[29] PAG do refrigerante, kg CO2 eq (100 anos)
[30] Para bombas de calor ar-ar
[31] Débito de ar, medido no exterior
[32] Dados de contacto

TÜRK

[0] ISITMA modu
[1] Model
[2] Isı pompası tipi
[3] Havadan Havaya
[4] Ek ısıtıcıya sahip
[5] Evet/Hayır
[6] Nominal ısıtma kapasitesi
[7] Mevsimsel alan ısıtma enerji verimi
[8] Mevsimsel Performans Katsayısı, kWh/kWh
[9] Ses gücü seviyesi, dB(A)
[10] Dış ortam sıcaklığı Tj ve iç mekan sıcaklığı 20°C'deki kısmi yük için belirtilen ısıtma kapasitesi ve performans katsayısı
[11] İklim
[12] Ortalama (Strasbourg)
[13] İki değerli sıcaklık, ºC
[14] Isıtma kapasitesi
[15] Azalma katsayısı
[16] İki değerli sıcaklık
[17] Çalışma sınırı sıcaklığı
[18] "Etkin modu"nun dışındaki enerji tüketimi
[19] Kapalı modu
[20] Termostat kapalı modu
[21] Karter ısıtıcısı modu
[22] Ek ısıtıcı
[23] Yedek ısıtma kapasitesi
[24] Enerji girişi tipi
[25] Bekleme modu
[26] Diğer öğeler
[27] Kapasite kontrolü
[28] Sabit/Kademeli/değişken
[29] Soğutucu akışkanın küresel ısınmaya neden olma potansiyeli (GWP), kg CO2 eşdeğer (100 yıl)
[30] Havadan havaya ısı pompaları için
[31] Dış ortamda ölçülen nominal hava akış debisi, m^3/saat
[32] İletişim bilgileri

РУССКИЙ

[0] Режим НАГРЕВА
[1] Модель
[2] Тип теплового насоса
[3] Воздух-воздух
[4] С дополнительным нагревателем
[5] Да/Нет
[6] Номинальная теплопроизводительность
[7] Сезонная энергоэффективность в режиме обогрева
[8] Сезонная энергоэффективность, кВт/кВт
[9] Корректированный уровень звуковой мощности, дБА
[10] Заявленная теплопроизводительность и показатель эффективности при работе с частичной нагрузкой при температуре воздуха в помещении 20 °C и температуре наружного воздуха Tj
[11] Климат
[12] Усредненные климатические условия (Страсбург)
[13] Температура на входе и выходе, ºC
[14] Теплопроизводительность
[15] Коэффициент деградации
[16] Температура на входе и выходе
[17] Предельные значения рабочей температуры
[18] Потребляемая мощность в других режимах, кроме рабочего
[19] Режим «Откл.»
[20] Режим «Термостат отключен»
[21] Режим подогрева картера
[22] Дополнительный нагреватель
[23] Теплопроизводительность резервных электронагревателей
[24] Тип подводимой энергии
[25] Дежурный режим
[26] Прочее
[27] Регулирование производительности
[28] Фиксированное/ступенчатое/плавное
[29] GWP хладагента, килограмм-эквивалентов CO2 (100 лет)
[30] Для тепловых насосов типа «воздух-воздух»
[31] Номинальный расход воздуха (по наружному воздуху), $м^3/ч$
[32] Контактная информация

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0420 ___E____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	100,30
Seasonal space cooling energy efficiency, %	ηs,c	187%
Seasonal coefficient of performance, kWh/kWh	SEER	4,76
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	100,30	3,18	-
+ 30	73,91	3,86	-
+ 25	47,51	5,36	-
+ 20	32,26	6,40	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	18.000

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0420 ___E____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	100,50
Seasonal space heating energy efficiency, %	ηs,h	135%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,44
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	60,59	2,62	–
+ 2	41,87	3,41	–
+ 7	26,91	4,35	–
+ 12	32,29	4,94	0,25
Bivalent temperature	62,80	2,70	–
Operating limit temperature	54,59	2,42	–

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	23,16
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	18.000

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0450 ___E____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	110,10
Seasonal space cooling energy efficiency, %	ηs,c	183%
Seasonal coefficient of performance, kWh/kWh	SEER	4,64
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	110,10	3,07	-
+ 30	81,13	3,76	-
+ 25	52,15	5,17	-
+ 20	31,52	6,25	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	19.800

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0450 ___E____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	110,30
Seasonal space heating energy efficiency, %	ηs,h	135%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,44
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	61,36	2,55	–
+ 2	42,67	3,35	–
+ 7	27,43	4,10	–
+ 12	32,40	6,72	0,25
Bivalent temperature	64,00	2,70	–
Operating limit temperature	57,86	2,46	–

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	21,38
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	19.800

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0500 ___E____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	119,50
Seasonal space cooling energy efficiency, %	ηs,c	179%
Seasonal coefficient of performance, kWh/kWh	SEER	4,55
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	119,50	3,01	-
+ 30	88,05	3,65	-
+ 25	56,61	5,18	-
+ 20	34,96	6,00	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	21.600

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0500 ___E____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	121,50
Seasonal space heating energy efficiency, %	ηs,h	134%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,42
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	74,70	2,57	–
+ 2	51,67	3,32	–
+ 7	33,21	4,05	–
+ 12	36,86	6,57	0,25
Bivalent temperature	77,50	2,70	–
Operating limit temperature	70,74	2,47	–

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	25,22
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	21.600

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0560 ___E____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	129,60
Seasonal space cooling energy efficiency, %	ηs,c	187%
Seasonal coefficient of performance, kWh/kWh	SEER	4,76
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	129,60	3,08	-
+ 30	95,49	3,99	-
+ 25	61,39	5,31	-
+ 20	41,81	6,31	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	23.400

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0560 ___E____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	131,50
Seasonal space heating energy efficiency, %	ηs,h	134%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,43
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	79,11	2,52	–
+ 2	55,58	3,44	–
+ 7	35,73	3,95	–
+ 12	42,11	6,20	0,25
Bivalent temperature	83,37	2,69	–
Operating limit temperature	76,08	2,45	–

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	27,13
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	23.400

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0620 ___E____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	144,50
Seasonal space cooling energy efficiency, %	ηs,c	182%
Seasonal coefficient of performance, kWh/kWh	SEER	4,62
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	144,50	3,01	-
+ 30	106,47	3,63	-
+ 25	68,45	5,26	-
+ 20	47,17	6,35	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	26.100

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0620 ___E____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	148,60
Seasonal space heating energy efficiency, %	ηs,h	134%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,42
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	90,55	2,55	–
+ 2	63,78	3,32	–
+ 7	41,00	4,18	–
+ 12	46,97	6,19	0,25
Bivalent temperature	95,67	2,67	–
Operating limit temperature	83,83	2,41	–

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	34,62
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	26.100

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0680 ___E____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	158,90
Seasonal space cooling energy efficiency, %	ηs,c	180%
Seasonal coefficient of performance, kWh/kWh	SEER	4,57
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	158,90	2,89	-
+ 30	117,08	3,79	-
+ 25	75,27	5,15	-
+ 20	52,19	6,09	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	28.800

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0680 ___E____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	163,10
Seasonal space heating energy efficiency, %	ηs,h	132%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,37
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	102,85	2,49	–
+ 2	73,78	3,24	–
+ 7	47,43	4,37	–
+ 12	43,62	5,28	0,25
Bivalent temperature	110,67	2,64	–
Operating limit temperature	98,85	2,41	–

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	38,17
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	28.800

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0720 ___E____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	167,10
Seasonal space cooling energy efficiency, %	ηs,c	180%
Seasonal coefficient of performance, kWh/kWh	SEER	4,58
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	167,10	2,81	-
+ 30	123,13	3,88	-
+ 25	79,15	5,15	-
+ 20	57,61	6,10	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	30.600

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0720 ___E____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	171,30
Seasonal space heating energy efficiency, %	ηs,h	132%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,38
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	111,47	2,43	–
+ 2	81,54	3,28	–
+ 7	52,42	4,08	–
+ 12	59,50	6,21	0,25
Bivalent temperature	122,31	2,69	–
Operating limit temperature	105,95	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	45,49
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	30.600

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0760 ___E____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	180,10
Seasonal space cooling energy efficiency, %	ηs,c	192%
Seasonal coefficient of performance, kWh/kWh	SEER	4,88
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	180,10	3,19	-
+ 30	132,71	4,45	-
+ 25	85,31	5,20	-
+ 20	58,58	6,30	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	32.400

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0760 ___E____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	190,10
Seasonal space heating energy efficiency, %	ηs,h	133%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,40
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	116,47	2,50	–
+ 2	83,52	3,26	–
+ 7	53,69	4,19	–
+ 12	62,87	6,45	0,25
Bivalent temperature	125,28	2,67	–
Operating limit temperature	113,64	2,45	–

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	41,46
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	32.400

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0840 ___E____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	200,40
Seasonal space cooling energy efficiency, %	ηs,c	185%
Seasonal coefficient of performance, kWh/kWh	SEER	4,71
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	200,40	3,01	-
+ 30	147,66	4,19	-
+ 25	94,93	5,13	-
+ 20	66,71	6,10	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	36.000

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0840 ___E____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	210,40
Seasonal space heating energy efficiency, %	ηs,h	132%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,38
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	122,83	2,53	–
+ 2	88,28	3,16	–
+ 7	56,75	4,19	–
+ 12	62,82	6,54	0,25
Bivalent temperature	132,42	2,76	–
Operating limit temperature	119,20	2,47	–

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	44,74
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	36.000

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0960 ___E____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	220,30
Seasonal space cooling energy efficiency, %	ηs,c	185%
Seasonal coefficient of performance, kWh/kWh	SEER	4,70
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	220,30	2,84	-
+ 30	162,33	3,90	-
+ 25	104,35	5,26	-
+ 20	76,79	6,50	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	39.000

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0960 ___E____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	235,30
Seasonal space heating energy efficiency, %	ηs,h	132%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,38
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	154,22	2,43	–
+ 2	112,55	3,28	–
+ 7	72,35	4,12	–
+ 12	83,08	6,33	0,25
Bivalent temperature	168,82	2,67	–
Operating limit temperature	150,53	2,39	–

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	58,48
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	39.000

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-1050 ___E____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	253,20
Seasonal space cooling energy efficiency, %	ηs,c	181%
Seasonal coefficient of performance, kWh/kWh	SEER	4,61
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	253,20	3,05	-
+ 30	186,57	3,59	-
+ 25	119,94	5,30	-
+ 20	76,74	6,10	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	40.500

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-1050 ___E____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	280,40
Seasonal space heating energy efficiency, %	ηs,h	132%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,38
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	164,06	2,43	–
+ 2	118,00	3,14	–
+ 7	75,86	4,75	–
+ 12	84,42	5,26	0,25
Bivalent temperature	177,00	2,61	–
Operating limit temperature	160,35	2,39	–

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	58,79
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	40.500

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-1200 ___E____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	280,20
Seasonal space cooling energy efficiency, %	ηs,c	179%
Seasonal coefficient of performance, kWh/kWh	SEER	4,56
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	280,20	2,90	-
+ 30	206,46	3,65	-
+ 25	132,73	5,04	-
+ 20	91,49	6,47	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	45.000

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

1 - STANDARD UNITS WITH OUTDOOR EC FAN (ELECTRONIC FAN)

1.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-1200 ___E____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	308,70
Seasonal space heating energy efficiency, %	ηs,h	132%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,37
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	195,01	2,44	–
+ 2	142,69	3,22	–
+ 7	91,73	4,19	–
+ 12	98,80	6,41	0,25
Bivalent temperature	214,03	2,64	–
Operating limit temperature	189,89	2,40	–

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	75,10
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	45.000

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0420 ___E____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	100,30
Seasonal space cooling energy efficiency, %	ηs,c	160%
Seasonal coefficient of performance, kWh/kWh	SEER	4,08
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	100,30	3,16	-
+ 30	73,91	3,46	-
+ 25	47,51	4,53	-
+ 20	32,18	4,98	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	18.000

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0420 ___A____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	100,50
Seasonal space heating energy efficiency, %	ηs,h	129%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,29
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	60,59	2,50	–
+ 2	44,67	3,20	–
+ 7	28,71	4,07	–
+ 12	32,51	5,38	0,25
Bivalent temperature	67,00	2,67	–
Operating limit temperature	54,59	2,27	–

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	28,36
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	18.000

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0450 ___A____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	110,10
Seasonal space cooling energy efficiency, %	ηs,c	159%
Seasonal coefficient of performance, kWh/kWh	SEER	4,06
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	110,10	3,05	-
+ 30	81,13	3,34	-
+ 25	52,15	4,56	-
+ 20	37,28	5,13	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	19.800

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0450 ___A____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	110,30
Seasonal space heating energy efficiency, %	ηs,h	128%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,28
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	61,45	2,22	–
+ 2	43,33	3,27	–
+ 7	27,86	4,10	–
+ 12	32,46	5,97	0,25
Bivalent temperature	65,00	2,41	–
Operating limit temperature	57,95	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	22,53
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	19.800

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0500 ___A____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	119,50
Seasonal space cooling energy efficiency, %	ηs,c	156%
Seasonal coefficient of performance, kWh/kWh	SEER	3,98
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	119,50	3,00	-
+ 30	88,05	3,52	-
+ 25	56,61	4,40	-
+ 20	34,88	4,66	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	21.600

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0500 ___A____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	121,50
Seasonal space heating energy efficiency, %	ηs,h	128%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,27
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	74,70	2,49	–
+ 2	49,33	3,27	–
+ 7	31,71	3,70	–
+ 12	37,23	5,55	0,25
Bivalent temperature	74,00	2,64	–
Operating limit temperature	67,21	2,38	–

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	24,41
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	21.600

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0560 ___A____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	129,60
Seasonal space cooling energy efficiency, %	ηs,c	160%
Seasonal coefficient of performance, kWh/kWh	SEER	4,09
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	129,60	3,05	-
+ 30	95,49	3,87	-
+ 25	61,39	4,49	-
+ 20	43,64	4,60	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	23.400

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0560 ___A____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	131,50
Seasonal space heating energy efficiency, %	ηs,h	128%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,27
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	85,10	2,57	–
+ 2	63,95	3,43	–
+ 7	41,11	3,65	–
+ 12	43,29	4,09	0,25
Bivalent temperature	95,93	2,87	–
Operating limit temperature	77,10	2,34	–

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	41,67
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	23.400

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0620 ___A____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	144,50
Seasonal space cooling energy efficiency, %	ηs,c	159%
Seasonal coefficient of performance, kWh/kWh	SEER	4,04
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	144,50	2,98	-
+ 30	106,47	3,72	-
+ 25	68,45	4,41	-
+ 20	48,19	4,74	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	26.100

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0620 ___A____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	148,60
Seasonal space heating energy efficiency, %	ηs,h	128%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,28
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	92,42	2,54	–
+ 2	69,73	3,49	–
+ 7	44,83	3,62	–
+ 12	48,14	4,05	0,25
Bivalent temperature	104,59	2,83	–
Operating limit temperature	82,42	2,28	–

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	47,08
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	26.100

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0680 ___A____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	158,90
Seasonal space cooling energy efficiency, %	ηs,c	151%
Seasonal coefficient of performance, kWh/kWh	SEER	3,86
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	158,90	2,89	-
+ 30	117,08	3,59	-
+ 25	75,27	4,18	-
+ 20	52,42	4,47	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	28.800

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0680 ___A____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	163,10
Seasonal space heating energy efficiency, %	ηs,h	125%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,21
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	111,85	2,57	–
+ 2	83,11	3,24	–
+ 7	53,43	3,71	–
+ 12	53,92	4,16	0,25
Bivalent temperature	124,67	2,82	–
Operating limit temperature	103,85	2,40	–

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	50,51
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	28.800

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0720 ___A____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	167,10
Seasonal space cooling energy efficiency, %	ηs,c	152%
Seasonal coefficient of performance, kWh/kWh	SEER	3,86
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	167,10	2,81	-
+ 30	123,13	3,63	-
+ 25	79,15	4,18	-
+ 20	57,91	4,54	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	30.600

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0720 ___A____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	171,30
Seasonal space heating energy efficiency, %	ηs,h	126%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,22
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	113,20	2,35	–
+ 2	90,02	3,32	–
+ 7	57,87	3,72	–
+ 12	60,44	4,12	0,25
Bivalent temperature	135,03	2,82	–
Operating limit temperature	103,20	2,16	–

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	63,98
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	30.600

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0760 ___A____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	180,10
Seasonal space cooling energy efficiency, %	ηs,c	166%
Seasonal coefficient of performance, kWh/kWh	SEER	4,22
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	180,10	3,09	-
+ 30	132,71	3,88	-
+ 25	85,31	4,59	-
+ 20	59,53	5,00	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	32.400

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0760 ___A____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	190,10
Seasonal space heating energy efficiency, %	ηs,h	128%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,28
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	112,24	2,36	–
+ 2	89,33	3,40	–
+ 7	57,43	3,80	–
+ 12	65,18	4,27	0,25
Bivalent temperature	134,00	2,81	–
Operating limit temperature	108,46	2,30	–

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	57,44
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	32.400

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0840 ___A____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	200,40
Seasonal space cooling energy efficiency, %	ηs,c	162%
Seasonal coefficient of performance, kWh/kWh	SEER	4,11
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	200,40	2,98	-
+ 30	147,66	3,82	-
+ 25	94,93	4,50	-
+ 20	67,49	4,43	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	36.000

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0840 ___A____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	210,40
Seasonal space heating energy efficiency, %	ηs,h	126%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,22
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	109,86	2,27	–
+ 2	86,67	3,26	–
+ 7	55,71	3,87	–
+ 12	63,39	4,36	0,25
Bivalent temperature	130,00	2,72	–
Operating limit temperature	101,17	2,11	–

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	59,78
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	36.000

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-0960 ___A____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	220,30
Seasonal space cooling energy efficiency, %	ηs,c	162%
Seasonal coefficient of performance, kWh/kWh	SEER	4,12
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	220,30	2,57	-
+ 30	162,33	3,91	-
+ 25	104,35	4,52	-
+ 20	76,88	5,00	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	39.000

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-0960 ___A____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	235,30
Seasonal space heating energy efficiency, %	ηs,h	126%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,24
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	144,22	2,30	–
+ 2	116,67	3,15	–
+ 7	75,00	4,05	–
+ 12	84,46	4,58	0,25
Bivalent temperature	175,00	2,79	–
Operating limit temperature	140,61	2,25	–

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	76,06
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	39.000

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-1050 ___A____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	253,20
Seasonal space cooling energy efficiency, %	ηs,c	157%
Seasonal coefficient of performance, kWh/kWh	SEER	4,00
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	253,20	3,11	-
+ 30	186,57	3,81	-
+ 25	119,94	4,30	-
+ 20	76,72	4,44	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	40.500

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-1050 ___A____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	280,40
Seasonal space heating energy efficiency, %	ηs,h	126%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,24
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	149,11	2,25	–
+ 2	116,67	3,21	–
+ 7	75,00	4,07	–
+ 12	86,76	4,63	0,25
Bivalent temperature	175,00	2,63	–
Operating limit temperature	144,58	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	72,08
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	40.500

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

HEATING MODE

Model	IPJ-1200 ___A____
Air conditioner type	Air-to-Air
Type	Compressor driven vapour compression

Rated cooling capacity, kW	Prated,c	280,20
Seasonal space cooling energy efficiency, %	ηs,c	152%
Seasonal coefficient of performance, kWh/kWh	SEER	3,87
Sound power level, outdoor, dB	LWA	86,5

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, %**	**Degradation coef, Cdc**
+ 35	280,2	2,95	-
+ 30	206,5	3,53	-
+ 25	132,7	4,22	-
+ 20	91,1	4,49	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)	2.088

For air-to-air air conditioner

Air flow rate, outdoor measured, m3/h	45.000

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN

2 - OPTIONAL UNITS WITH OUTDOOR AC FAN (2-SPEED AXIAL FAN)

2.1. REVERSIBLE HEAT PUMPS

COOLING MODE

Model	IPJ-1200 ___A____
Heat pump type	Air-to-Air
Equipped with supplementary heater	No

Rated heating capacity, kW	Prated,h	308,70
Seasonal space heating energy efficiency, %	ηs,h	126%
Seasonal coefficient of performance, kWh/kWh	SCOP	3,22
Sound power level, outdoor, dB	LWA	86,5

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, ºC	-5		
Tj, °C	**Heating capacity Pdh, kW**	**COPd, %**	**Degradation coef, Cdh**
- 7	176,62	2,28	–
+ 2	140,00	3,34	–
+ 7	90,00	3,79	–
+ 12	101,14	4,18	0,25
Bivalent temperature	210,00	2,68	–
Operating limit temperature	171,44	2,23	–

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	88,56
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)	2.088

For air-to-air heat pumps

Air flow rate, outdoor measured, m3/h	45.000

Contact details	Manufactured by CIAT- 14550 Montilla SPAIN