

10492

09 - 2018

POWERCIATTM

Ecoconception (2015/1095)

TECHNICAL DATA MANUAL



Performances according to Regulation (EU) 2015/1095			
Model [1]			
Chiller type [2]			
Outdoor side heat exchanger [2]			
Indoor side heat exchanger [4]	R410A	GWP	Bilge Medium temperature -2°C -8°C [5]
Refrigerant Type [6]	Symbol [8]	Value [9]	Unit [10]
Item [7]	T		°C
Operating Temperature [11]	SEPR		kW/kWh
Seasonal Energy Performance Ratio [12]	Q		kWh
Annual electricity consumption [13]			

Parameters at full load and reference ambient temperature(A) [14]

Rated cooling capacity [15]	P-A		kW
Rated power input [16]	D-A		kW
Degradation coefficient for fixed staged capacity units [17/1]	Cc-A		-
Rated EER [18]	EER-A		kW/kW

Parameters at rating point B [19]

Declared cooling capacity [20]	P-B		kW
Declared power input [21]	D-B		kW
Degradation coefficient for fixed staged capacity units [17/1]	Cc-B		-
Declared EER [22]	EER-B		kW/kW

Parameters at rating point C [19]

Declared cooling capacity [20]	P-C		kW
Declared power input [21]	D-C		kW
Degradation coefficient for fixed staged capacity units [17/1]	Cc-C		-
Declared EER [22]	EER-C		kW/kW

Parameters at rating point D [19]

Declared cooling capacity [20]	P-D		kW
Declared power input [21]	D-D		kW
Degradation coefficient for fixed staged capacity units [17/1]	Cc-D		-
Declared EER [22]	EER-D		kW/kW

Other items [23]

Capacity control [24]	Fixed/Variable [25]		
Glycol type and concentration [26]	Evap Fluid Type: Ethylene Glycol Concentration: 30 % [27]		

Contact details [28]

Ciat - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	(*) If Cc is not determined by measurement then the default degradation coefficient shall be Cc = 0.9. Where the default Cc value is chosen, then results from cycling tests shall not be required. Otherwise, the cooling cycling test value shall be required.
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ENGLISH	FRANCAIS	DEUTSCH	ITALIANO
[1] Model Outdoor side heat exchanger Air 35°C [3] Indoor side heat exchanger Brine Medium temperature -2°C / -8°C [5] Refrigerant Type Item [7] Symbol [9] Value Unit [10] Operating Temperature [11] Seasonal Energy Performance Ratio [13] Annual electricity consumption [14] Parameters at full load and reference ambient T.point(A) [15] Rated cooling capacity [16] Rated power input [17] Degradation coefficient for fixed staged capacity units(*) [18] Rated EER [19] Parameters at rating point B [20] Declared cooling capacity [21] Declared power input [22] Declared EER [23] Other items [24] Capacity control [25] Fixed/Variable [26] Glycol type and concentration [27] Evap.Fluid Type: Ethylene Glycol Concentration: 30 % [28] Contact details	[1] Modèle Échangeur côté extérieur Air 35°C [3] Échangeur côté intérieur Eau glycolée Moyenne température - 2°C / -8°C [5] Type de fluide frigorigène Élément [7] Symbole [9] Valeur Valeur [10] Unité Unité [11] Température de fonctionnement [12] Coefficient d'efficacité énergétique saisonnier [13] Consommation annuelle d'électricité [14] Paramètres à pleine charge et à la température ambiante de référence, point (A) [15] Puissance frigorigène nominale [16] Puissance absorbée nominale [17] Coefficient de dégradation pour les unités à puissance étageée fixe(*) [18] EER nominal [19] Paramètres au point de référence B [20] Puissance frigorifique déclarée [21] Puissance absorbée déclarée [22] EER déclaré [23] Autres caractéristiques [24] Régulation de la puissance [25] Fixe/variable [26] Type de glycol et concentration [27] Type de fluide évap. : Concentration éthylène glycol : 30 % [28] Coordonnées de contact	[1] Modell(e) Äußerer Wärmetauscher Luft 35°C [3] Innerer Wärmetauscher Sole Medium Temperatur -2°C / -8°C [5] Kältemitteltyp Punkt [7] Element [8] Symbol [9] Wert Einheit [10] Betriebstemperatur Jahresarbeitszahl Jährlicher Stromverbrauch Parameter bei Vollast und Bezugsumgebung temperatur, (Punkt A) [12] Nenn-Kalteleistung [13] Nenn-L-Eistungsaufnahme [14] Abminderungskoeffizient für Geräte mit festen Leistungsstufen(*) [15] EER nominale [16] Parameter am Bezugspunkt B Angegebene Kälteleistung Angegebene Leistungsaufnahme Jahresarbeitszahl EER [17] Nenn-EER [18] Parameter am Bezugspunkt B Angegebene Kälteleistung Angegebene Leistungsaufnahme Jahresarbeitszahl EER [19] Sonstige Elemente [20] Leistungssteuerung Fix / variabel Glykolan und -konzentration Verd.-Flüssigkeitstyp: Ethylen glykol- Konzentration: 30 % [21] Potenza assorbita dichiarata [22] EER dichiarato [23] Altri elementi [24] Controllo della capacità fissi/variabile [25] Tipo di glicole e concentrazione [26] Tipo di fluido evap.: Concentrazione glicole etilenico : 30% [27] Recipiti [28] Kontakt	[1] Modelli Scambiatore di calore lato esterno Aria 35°C [3] Scambiatore di calore lato interno Sistema a media temperatura -2°C / -8°C [5] Tipo di refrigerante Elemento [7] Simbolo [9] Valore Unità [10] Temperatura di funzionamento Indice di prestazione energetica stagionale [12] Consumo annuale di elettricità Parametri a pieno carico e a T ambiente di riferimento, punto (A) Capacità di raffreddamento nominale Potenza assorbita nominale Coefficiente di degradazione delle unità a capacità fissa progressiva (*) [17] EER nominale Parametri al punto di valutazione B Capacità di raffreddamento dichiarata Potenza assorbita dichiarata EER dichiarato Altri elementi Controllo della capacità [18] Recipiti [19] Recipiti [20] Recipiti [21] Recipiti [22] Recipiti [23] Recipiti [24] Recipiti [25] Recipiti [26] Recipiti [27] Recipiti [28] Recipiti

SVENSKA

[1]	Modell(er)
[2]	Värmeväxläre på utomhusidan
[3]	Luft 35°C
[4]	Värmeväxläre på inomhusidan
[5]	Brine Medium temperatur -2°C / -8°C
[6]	köldmedietyp
[7]	Funktion
[8]	Symbol
[9]	Värde
[10]	Enhet
[11]	Drifttemperatur
[12]	Arsidshörende energiprestanza
[13]	Antig efförbrukning
[14]	Parametrar vid full belastning och referensomsättnings-T, punkt (A)
[15]	Angiven kylkapacitet
[16]	Nominell tillförd effekt
[17]	Degraderingskoefficient för enheter med fast och stegväts kapacitet(*)
[18]	Energieffektivitetskvot
[19]	Parametrar vid bedömningspunkt B
[20]	Deklarerad kylkapacitet
[21]	Deklarerad tillförd effekt
[22]	Deklarerad EER
[23]	Övriga poster
[24]	Kapacitetsreglering
[25]	Fast/variabel
[26]	Glukoltyp och koncentration
[27]	Avdunstningsvätsketyp: koncentration etylenglykol: 30 %
[28]	Kontakt

ESPAÑOL

[1]	Modelos
[2]	Intercambiador de calor lateral exterior
[3]	Aire 35°C
[4]	Intercambiador de calor lateral interior
[5]	Salmuera Temperatura media -2°C / -8°C
[6]	Tipo di refrigerante
[7]	Elemento
[8]	Símbolo
[9]	Valor
[10]	Unidad
[11]	Temperatura de funcionamiento
[12]	Indice de eficiencia energética estacional
[13]	Consumo eléctrico anual
[14]	Parámetros con carga total y temperatura ambiente de referencia (punto A)
[15]	Potencia frigorífica nominal
[16]	Potencia absorbida nominal
[17]	Coeficiente de degradación para equipos de potencia fija y por etapas(*)
[18]	EER nominal
[19]	Parámetros con punto de clasificación B
[20]	Potencia frigorífica declarada
[21]	Potencia absorbida declarada
[22]	EER declarado
[23]	Otros elementos
[24]	Control de capacidad de la puissance
[25]	Fijo/variable
[26]	Tipo y concentración de glicol
[27]	Tipo de fluido evap.: concentración de etilenglicol: 30 %
[28]	Datos de contacto

POLSKI

[1]	Model(-e)
[2]	Wymiennik ciepła po zewnętrznej stronie
[3]	Woda 35°C
[4]	Wymiennik ciepła po wewnętrznej stronie
[5]	Średnia temperatura solanki -2°C / 8°C
[6]	-
[7]	Typ czynnika chłodniczego
[8]	Pozycja
[9]	Wartość
[10]	Value
[11]	Jednostka
[12]	Temperatura robocza
[13]	Wsądczynnik sezonowej sprawności energetycznej
[14]	Roczne zużycie energii elektrycznej
[15]	Parametry przy pełnym obciążeniu i referencyjnej temperaturze otoczenia T (punkt A)
[16]	Zmianionowa wydajność chłodnicza
[17]	Wsądczynnik strat dla urządzeń o stalej stopniowej wydajności(*)
[18]	Zmianionowy pobór mocy
[19]	Parametry przy punkcie zmianionowym B
[20]	Deklarowana wydajność chłodnicza
[21]	Deklarowany pobór mocy
[22]	Deklarowany EER
[23]	Pozostałe parametry
[24]	Regulacja wydajności
[25]	Stała / zmieniona
[26]	Typ i stężenie glikolu
[27]	Typ płynu parownego: stężenie glikolu etylenowego: 30 %
[28]	Dane kontaktowe

NEDERLANDS

[1]	Model(en)
[2]	Externe warmtewisselaar
[3]	Lucht 35°C
[4]	Interne warmtewisselaar
[5]	Pekel Gemiddelde temperatuur -2°C / -8°C
[6]	koelelement type
[7]	Item
[8]	Symbol
[9]	Waarde
[10]	Eenhed
[11]	Bedrijfstemperatuur
[12]	Seizoenselement (SEER)
[13]	Jaarlijks elektrisch verbruik
[14]	Parameters bij vollast en referentie omgevingstemperatuur T, punt A
[15]	Nominale koelvermogen
[16]	Nominale opgenomen vermogen
[17]	Verliescoëfficiënt voor units met vast getrapt vermogen(*)
[18]	Nominale EER
[19]	Parameters bij meetpunt B
[20]	Opgegeven koelvermogen
[21]	Opgegeven opgenomen vermogen
[22]	Opgegeven EER
[23]	Andere kenmerken
[24]	Vermogenscontrole
[25]	Vast/variabel
[26]	Glycoltype en concentratie
[27]	Verd.vloeist.type: ethyleenglycol concentratie: 30 %
[28]	Contactgegevens

ECODESIGN MANUAL FOR MEDIUM TEMPERATURE PROCESS CHILLER

Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX ST 0808A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/-8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.05	kWh/kWh
Annual electricity consumption	Q	346162	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	142	kW
Rated power input	D-A	70.5	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.02	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	134	kW
Declared power input	D-B	52.2	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.56	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	124	kW
Declared power input	D-C	41.4	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	2.99	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	114	kW
Declared power input	D-D	34.3	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	3.34	kW/kW

Other items

Capacity control	P-D	136	kW
Glycol type and concentration	Evap.Fluid Type: EG Concentration: 30%	Variable	Variable

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.	(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

Accessories and Installed Options

Low temperature Brine Application	Low temperature Brine Application
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ECODESIGN MANUAL FOR MEDIUM TEMPERATURE PROCESS CHILLER

Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX ST 1008A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/-8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.45	kWh/kWh
Annual electricity consumption	Q	383001	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	178	kW
Rated power input	D-A	81.5	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.19	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	167	kW
Declared power input	D-B	59.8	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.79	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	155	kW
Declared power input	D-C	46.8	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.31	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	143	kW
Declared power input	D-D	36.5	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	3.92	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: EG Concentration: 30%	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

Accessories and Installed Options
Low temperature Brine Application

ECODESIGN MANUAL FOR MEDIUM TEMPERATURE PROCESS CHILLER

Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX ST 1358A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/-8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.39	kWh/kWh
Annual electricity consumption	Q	547818	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	250	kW
Rated power input	D-A	114	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.20	kW/kW

Parameters at rating point A

Rated cooling capacity	P-A	250	kW
Rated power input	D-A	114	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.20	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	234	kW
Declared power input	D-B	84.8	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.76	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	234	kW
Declared power input	D-B	84.8	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.76	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	217	kW
Declared power input	D-C	66.7	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.25	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	217	kW
Declared power input	D-C	66.7	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.25	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	200	kW
Declared power input	D-D	52.2	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	3.84	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	200	kW
Declared power input	D-D	52.2	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	3.84	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap.Fluid Type: EG Concentration: 30%	Evap.Fluid Type: Ethylene Glycol Concentration: 30 %

Contact details

CIAT	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

Accessories and Installed Options

Low temperature Brine Application
Low temperature Brine Application

ECODESIGN MANUAL FOR MEDIUM TEMPERATURE PROCESS CHILLER

Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX ST 1858A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/-8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.43	kWh/kWh
Annual electricity consumption	Q	777326	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	360	kW
Rated power input	D-A	159	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.26	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	336	kW
Declared power input	D-B	120	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.80	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	311	kW
Declared power input	D-C	94.7	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.29	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	287	kW
Declared power input	D-D	73.9	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	3.88	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: EG Concentration: 30%	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

Accessories and Installed Options

Low temperature Brine Application
Low temperature Brine Application

ECODESIGN MANUAL FOR MEDIUM TEMPERATURE PROCESS CHILLER

Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX ST 2158A	Performances according to Regulation (EU) 2015/1095		
Outdoor side heat exchanger	Air 35°C			
Indoor side heat exchanger	Brine Medium temperature -2°C/-8°C			
Refrigerant Type	R-410A	GWP	1430 kg CO ₂ eq (100 years)	Brine Medium temperature -2°C/-8°C
Item	Symbol	Value	Unit	Brine Medium temperature -2°C/-8°C
Operating Temperature	T	-8	°C	Brine Medium temperature -2°C/-8°C
Seasonal Energy Performance Ratio	SEPR	3.33	kWh/kWh	Brine Medium temperature -2°C/-8°C
Annual electricity consumption	Q	930189	kWh	Brine Medium temperature -2°C/-8°C

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	418	kW	P-A	447	kW
Rated power input	D-A	190	kW	D-A	203	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-	Cc-A	-	-
Declared EER	EER-A	2.20	kW/kW	EER-A	2.20	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	391	kW	P-B	415	kW
Declared power input	D-B	144	kW	D-B	153	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-	Cc-B	-	-
Declared EER	EER-B	2.71	kW/kW	EER-B	2.71	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	363	kW	P-C	385	kW
Declared power input	D-C	113	kW	D-C	120	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-	Cc-C	-	-
Declared EER	EER-C	3.21	kW/kW	EER-C	3.19	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	334	kW	P-D	355	kW
Declared power input	D-D	89.0	kW	D-D	96.0	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-	Cc-D	-	-
Declared EER	EER-D	3.76	kW/kW	EER-D	3.70	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: EG Concentration: 30%	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.	(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

Accessories and Installed Options

Low temperature Brine Application	Low temperature Brine Application
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ECODESIGN MANUAL FOR MEDIUM TEMPERATURE PROCESS CHILLER

Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX ST 2528A	POWERCIAT LX ST 2628A
Outdoor side heat exchanger	Air 35°C	Air 35°C
Indoor side heat exchanger	Brine Medium temperature -2°C/-8°C	Brine Medium temperature -2°C/-8°C
Refrigerant Type	R-134A	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value
Operating Temperature	T	-8 °C
Seasonal Energy Performance Ratio	SEPR	3.50 kW/kWh
Annual electricity consumption	Q	1032183 kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	487 kW	kW
Rated power input	D-A	207 kW	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.35 kW/kW	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	455 kW	kW
Declared power input	D-B	159 kW	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.86 kW/kW	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	423 kW	kW
Declared power input	D-C	127 kW	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.34 kW/kW	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	390 kW	kW
Declared power input	D-D	98.3 kW	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	3.97 kW/kW	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: EG Concentration: 30%	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.	(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

Accessories and Installed Options

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ECODESIGN MANUAL FOR MEDIUM TEMPERATURE PROCESS CHILLER

Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX ST 3028A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/-8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.29	kWh/kWh
Annual electricity consumption	Q	1255512	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	557	kW
Rated power input	D-A	250	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.23	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	519	kW
Declared power input	D-B	195	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.67	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	482	kW
Declared power input	D-C	154	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.14	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	445	kW
Declared power input	D-D	119	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	3.74	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: EG Concentration: 30%	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen, then results from cycling tests shall not be required. Otherwise, the cooling cycling test value shall be required.	(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen, then results from cycling tests shall not be required. Otherwise, the cooling cycling test value shall be required.

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Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX ST 4008A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/-8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.55	kWh/kWh
Annual electricity consumption	Q	1389331	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	666	kW
Rated power input	D-A	325	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.05	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	622	kW
Declared power input	D-B	230	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.70	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	577	kW
Declared power input	D-C	167	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.46	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	533	kW
Declared power input	D-D	130	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.10	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: EG Concentration: 30%	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

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Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX HE 0908A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C-8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.52	kWh/kWh
Annual electricity consumption	Q	298537	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	142	kW
Rated power input	D-A	68.9	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.06	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	133	kW
Declared power input	D-B	50.2	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.65	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	123	kW
Declared power input	D-C	37.7	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.28	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	114	kW
Declared power input	D-D	26.8	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.26	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: EG Concentration: 30%	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.	(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

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Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX HE 1108A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/-8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.78	kWh/kWh
Annual electricity consumption	Q	347655	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	177	kW
Rated power input	D-A	80.4	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.21	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	166	kW
Declared power input	D-B	57.9	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.87	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	154	kW
Declared power input	D-C	43.4	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.56	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	142	kW
Declared power input	D-D	31.5	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.52	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: EG Concentration: 30%	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX HE 1358A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C-8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.66	kWh/kWh
Annual electricity consumption	Q	504960	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	249	kW
Rated power input	D-A	112	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.22	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	233	kW
Declared power input	D-B	82.5	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.82	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	216	kW
Declared power input	D-C	62.5	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.45	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	199	kW
Declared power input	D-D	46.2	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.32	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: EG Concentration: 30%	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.	(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

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Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX HE 1858A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.71	kWh/kWh
Annual electricity consumption	Q	716163	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	359	kW
Rated power input	D-A	157	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.29	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	335	kW
Declared power input	D-B	117	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.85	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	310	kW
Declared power input	D-C	88.8	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.50	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	286	kW
Declared power input	D-D	65.1	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.40	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: EG Concentration: 30%	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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Accessories and Installed Options

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ECODESIGN MANUAL FOR MEDIUM TEMPERATURE PROCESS CHILLER

Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX HE 2158A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C-8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.58	kWh/kWh
Annual electricity consumption	Q	861708	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	417	kW
Rated power input	D-A	188	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.22	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	390	kW
Declared power input	D-B	141	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.77	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	362	kW
Declared power input	D-C	106	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.40	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	334	kW
Declared power input	D-D	79.3	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.20	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: EG Concentration: 30%	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.	(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

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Model	POWERCIAT LX HE 2528A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/-8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.81	kWh/kWh
Annual electricity consumption	Q	940137	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	484	kW
Rated power input	D-A	203	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.39	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	453	kW
Declared power input	D-B	153	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.97	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	420	kW
Declared power input	D-C	117	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.59	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	387	kW
Declared power input	D-D	86.2	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.49	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: EG Concentration: 30%	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

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Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX HE 3428A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C-8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.60	kWh/kWh
Annual electricity consumption	Q	1144027	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	556	kW
Rated power input	D-A	244	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.27	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	518	kW
Declared power input	D-B	188	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.76	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	481	kW
Declared power input	D-C	142	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.38	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	444	kW
Declared power input	D-D	104	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.28	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: EG Concentration: 30%	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.	(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

Accessories and Installed Options

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Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX HE 3828A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.67	kWh/kWh
Annual electricity consumption	Q	1276666	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	632	kW
Rated power input	D-A	292	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.16	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	584	kW
Declared power input	D-B	214	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.73	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	542	kW
Declared power input	D-C	154	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.53	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	500	kW
Declared power input	D-D	116	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.32	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: EG Concentration: 30%	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX HE 4408A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C-8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.62	kWh/kWh
Annual electricity consumption	Q	1558209	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	762	kW
Rated power input	D-A	368	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.07	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	711	kW
Declared power input	D-B	272	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.61	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	660	kW
Declared power input	D-C	199	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.32	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	610	kW
Declared power input	D-D	134	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.55	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: EG Concentration: 30%	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen, then results from cycling tests shall not be required. Otherwise, the cooling cycling test value shall be required.	(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen, then results from cycling tests shall not be required. Otherwise, the cooling cycling test value shall be required.

Accessories and Installed Options

Low temperature Brine Application

Accessories and Installed Options
Low temperature Brine Application

ECODESIGN MANUAL FOR MEDIUM TEMPERATURE PROCESS CHILLER

Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX XE 0808A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.59	kWh/kWh
Annual electricity consumption	Q	295909	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	144	kW
Rated power input	D-A	68.1	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.11	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	134	kW
Declared power input	D-B	49.6	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.70	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	124	kW
Declared power input	D-C	37.3	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.33	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	115	kW
Declared power input	D-D	26.2	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.38	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %	Evap. Fluid Type: EG Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

Accessories and Installed Options
Low temperature Brine Application

ECODESIGN MANUAL FOR MEDIUM TEMPERATURE PROCESS CHILLER

Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX XE 1008A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/-8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.91	kWh/kWh
Annual electricity consumption	Q	342302	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	180	kW
Rated power input	D-A	79.6	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.27	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	168	kW
Declared power input	D-B	57.1	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.95	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	156	kW
Declared power input	D-C	42.7	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.66	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	144	kW
Declared power input	D-D	30.7	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.70	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %	Evap. Fluid Type: EG Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

Accessories and Installed Options

Low temperature Brine Application
Low temperature Brine Application

ECODESIGN MANUAL FOR MEDIUM TEMPERATURE PROCESS CHILLER

Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX XE 1358A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.76	kWh/kWh
Annual electricity consumption	Q	497658	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	253	kW
Rated power input	D-A	111	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.27	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	235	kW
Declared power input	D-B	81.3	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.89	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	218	kW
Declared power input	D-C	61.5	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.55	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	201	kW
Declared power input	D-D	45.1	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.46	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %	Evap. Fluid Type: EG Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

Accessories and Installed Options
Low temperature Brine Application

ECODESIGN MANUAL FOR MEDIUM TEMPERATURE PROCESS CHILLER

Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX XE 1858A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/-8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.82	kWh/kWh
Annual electricity consumption	Q	701130	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	362	kW
Rated power input	D-A	154	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.35	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	339	kW
Declared power input	D-B	116	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.92	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	315	kW
Declared power input	D-C	87.6	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.59	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	290	kW
Declared power input	D-D	63.8	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.55	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %	Evap. Fluid Type: EG Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.	(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

Accessories and Installed Options

Low temperature Brine Application	Low temperature Brine Application
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ECODESIGN MANUAL FOR MEDIUM TEMPERATURE PROCESS CHILLER

Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX XE 2158A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.69	kWh/kWh
Annual electricity consumption	Q	844572	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	421	kW
Rated power input	D-A	185	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.28	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	395	kW
Declared power input	D-B	139	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.84	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	367	kW
Declared power input	D-C	105	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.49	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	338	kW
Declared power input	D-D	77.9	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.34	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %	Evap. Fluid Type: EG Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

Accessories and Installed Options
Low temperature Brine Application

ECODESIGN MANUAL FOR MEDIUM TEMPERATURE PROCESS CHILLER

Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX XE 2628A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/-8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.88	kWh/kWh
Annual electricity consumption	Q	920173	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	482	kW
Rated power input	D-A	198	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.44	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	447	kW
Declared power input	D-B	149	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	3.01	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	415	kW
Declared power input	D-C	114	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.65	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	383	kW
Declared power input	D-D	83.4	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.59	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %	Evap. Fluid Type: EG Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.	(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

Accessories and Installed Options

Low temperature Brine Application

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Low temperature Brine Application

ECODESIGN MANUAL FOR MEDIUM TEMPERATURE PROCESS CHILLER

Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX XE 3028A	Performances according to Regulation (EU) 2015/1095		
Outdoor side heat exchanger	Air 35°C			
Indoor side heat exchanger	Brine Medium temperature -2°C/8°C			
Refrigerant Type	R-134A	GWP	1430 kg CO₂ eq (100 years)	Brine Medium temperature -2°C/8°C
Item	Symbol	Value	Unit	Unit
Operating Temperature	T	-8	°C	
Seasonal Energy Performance Ratio	SEPR	3.70	kWh/kWh	
Annual electricity consumption	Q	1126530	kWh	

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	563	kW	
Rated power input	D-A	240	kW	
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-	
Declared EER	EER-A	2.35	kW/kW	

Parameters at rating point B

Declared cooling capacity	P-B	525	kW	
Declared power input	D-B	185	kW	
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-	
Declared EER	EER-B	2.84	kW/kW	

Parameters at rating point C

Declared cooling capacity	P-C	488	kW	
Declared power input	D-C	140	kW	
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-	
Declared EER	EER-C	3.47	kW/kW	

Parameters at rating point D

Declared cooling capacity	P-D	450	kW	
Declared power input	D-D	102	kW	
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-	
Declared EER	EER-D	4.40	kW/kW	

Other items

Capacity control	Variable	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %	Evap. Fluid Type: EG Concentration: 30 %	Evap. Fluid Type: EG Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

Accessories and Installed Options
Low temperature Brine Application

ECODESIGN MANUAL FOR MEDIUM TEMPERATURE PROCESS CHILLER

Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX XE 3828A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/-8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.87	kWh/kWh
Annual electricity consumption	Q	1250336	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	653	kW
Rated power input	D-A	288	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.27	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	610	kW
Declared power input	D-B	213	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.87	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	566	kW
Declared power input	D-C	152	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.72	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	522	kW
Declared power input	D-D	114	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.58	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap.Fluid Type: Ethylene Glycol Concentration: 30 %	Evap.Fluid Type: EG Concentration: 30%

Contact details

C/AT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE	CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.	(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

Accessories and Installed Options

Low temperature Brine Application

POWERCIAT LX XE 4008A
Air 35°C

Brine Medium temperature -2°C/-8°C

1430 kg CO₂ eq (100 years)

Symbol

Value

Unit

°C

-8

T

SEPR

3.67

Q

1339633

kWh/kWh

kWh

ECODESIGN MANUAL FOR MEDIUM TEMPERATURE PROCESS CHILLER

Performances according to Regulation (EU) 2015/1095

Model	POWERCIAT LX XE 4408A		
Outdoor side heat exchanger	Air 35°C		
Indoor side heat exchanger	Brine Medium temperature -2°C/8°C		
Refrigerant Type	R-134A	GWP	1430 kg CO ₂ eq (100 years)
Item	Symbol	Value	Unit
Operating Temperature	T	-8	°C
Seasonal Energy Performance Ratio	SEPR	3.85	kWh/kWh
Annual electricity consumption	Q	1530/773	kWh

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	796	kW
Rated power input	D-A	362	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.20	kW/kW

Parameters at full load and reference ambient T_r point(A)

Rated cooling capacity	P-A	813	kW
Rated power input	D-A	390	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-A	-	-
Declared EER	EER-A	2.08	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	742	kW
Declared power input	D-B	362	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.77	kW/kW

Parameters at rating point B

Declared cooling capacity	P-B	758	kW
Declared power input	D-B	287	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-B	-	-
Declared EER	EER-B	2.64	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	689	kW
Declared power input	D-C	195	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.53	kW/kW

Parameters at rating point C

Declared cooling capacity	P-C	704	kW
Declared power input	D-C	211	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-C	-	-
Declared EER	EER-C	3.34	kW/kW

Parameters at rating point D

Declared cooling capacity	P-D	636	kW
Declared power input	D-D	131	kW
Degradation coefficient for fixed staged capacity units(*)	Cc-D	-	-
Declared EER	EER-D	4.84	kW/kW

Other items

Capacity control	Variable	Variable
Glycol type and concentration	Evap. Fluid Type: Ethylene Glycol Concentration: 30 %	Evap. Fluid Type: EG Concentration: 30 %

Contact details

CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE

(*) If CC is not determined by measurement then the default degradation coefficient shall be Cc=0.9. Where the default Cc value is chosen,then results from cycling tests shall not be required.Otherwise,the cooling cycling test value shall be required.

Accessories and Installed Options

Low temperature Brine Application
Low temperature Brine Application

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