



EUROPEAN ECODESIGN REGULATIONS



Air-cooled chiller with fixed-speed screw
compressor

POWERCIAT LX XE 0808-4608B



TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

Information requirements pursuant to regulation (EU)N°2016/2281

Description

Model	POWERCIAT LX XE 0808B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	277
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	183

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	277
	EERd		3.21
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	204
	EERd		4.05
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	131
	EERd		4.83
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	74.5
	EERd		6.30
	Cdc(*)		0.95

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	289
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	FIXED		
Rated Air flow rate, Outdoor1		l/s	28920
Sound power level	LW_A	dBA	99.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1) Not applicable for water-to-water and brine-to-water heat pumps

(*) If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

Information requirements pursuant to regulation (EU)N°2016/2281

Description

Model	POWERCIAT LX XE 0908B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	301
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	183

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	301
	EERd		3.18
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	222
	EERd		4.07
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	142
	EERd		4.80
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	82.1
	EERd		6.24
	Cdc(*)		0.95

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	319
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	FIXED		
Rated Air flow rate, Outdoor1		l/s	28920
Sound power level	LW_A	dBA	99.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for water-to-water and brine-to-water heat pumps

(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

[Information requirements pursuant to regulation \(EU\)N°2016/2281](#)

Description

Model	POWERCIAT LX XE 1008B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	323
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	179

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	323
	EERd		3.14
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	238
	EERd		4.03
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	153
	EERd		4.71
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	89.2
	EERd		6.08
	Cdc(*)		0.94

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	402
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	FIXED		
Rated Air flow rate, Outdoor1		l/s	28920
Sound power level	LW_A	dBA	99.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1) Not applicable for water-to-water and brine-to-water heat pumps

(*) If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

[Information requirements pursuant to regulation \(EU\)N°2016/2281](#)

Description

Model	POWERCIAT LX XE 1108B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	392
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	177

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	392
	EERd		3.23
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	289
	EERd		4.09
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	186
	EERd		4.62
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	87.9
	EERd		5.84
	Cdc(*)		0.91

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	772
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	FIXED		
Rated Air flow rate, Outdoor1		l/s	38560
Sound power level	LW_A	dBA	99.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1) Not applicable for water-to-water and brine-to-water heat pumps

(*) If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

Information requirements pursuant to regulation (EU)N°2016/2281

Description

Model	POWERCIAT LX XE 1358B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	445
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	182

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	445
	EERd		3.16
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	328
	EERd		4.05
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	211
	EERd		4.71
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	97.1
	EERd		6.02
	Cdc(*)		0.98

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	48
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	VARIABLE		
Rated Air flow rate, Outdoor1		l/s	38560
Sound power level	LW_A	dBA	101.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1) Not applicable for water-to-water and brine-to-water heat pumps

(*) If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

Information requirements pursuant to regulation (EU)N°2016/2281

Description

Model	POWERCIAT LX XE 1528B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	500
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	184

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	500
	EERd		3.23
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	368
	EERd		4.12
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	237
	EERd		4.80
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	105
	EERd		5.89
	Cdc(*)		-

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	50
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	VARIABLE		
Rated Air flow rate, Outdoor1		l/s	43380
Sound power level	LW_A	dBA	99.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for water-to-water and brine-to-water heat pumps

(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

Information requirements pursuant to regulation (EU)N°2016/2281

Description

Model	POWERCIAT LX XE 1858B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	623
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	183

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	623
	EERd		3.27
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	459
	EERd		4.07
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	295
	EERd		4.73
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	145
	EERd		6.08
	Cdc(*)		0.99

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	68
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	VARIABLE		
Rated Air flow rate, Outdoor1		l/s	53020
Sound power level	LW_A	dBA	101.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for water-to-water and brine-to-water heat pumps

(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

Information requirements pursuant to regulation (EU)N°2016/2281

Description

Model	POWERCIAT LX XE 2008B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	677
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	188

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	677
	EERd		3.34
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	499
	EERd		4.20
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	321
	EERd		4.91
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	166
	EERd		6.00
	Cdc(*)		0.99

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	61
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	VARIABLE		
Rated Air flow rate, Outdoor1		l/s	57840
Sound power level	LW_A	dBA	99.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for water-to-water and brine-to-water heat pumps

(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

[Information requirements pursuant to regulation \(EU\)N°2016/2281](#)

Description

Model	POWERCIAT LX XE 2158B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	730
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	181

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	730
	EERd		3.14
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	538
	EERd		4.01
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	346
	EERd		4.76
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	163
	EERd		5.93
	Cdc(*)		0.99

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	67
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	VARIABLE		
Rated Air flow rate, Outdoor1		l/s	57840
Sound power level	LW_A	dBA	103.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for water-to-water and brine-to-water heat pumps

(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

Information requirements pursuant to regulation (EU)N°2016/2281

Description

Model	POWERCIAT LX XE 2308B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	782
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	180

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	782
	EERd		3.13
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	576
	EERd		3.95
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	371
	EERd		4.64
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	183
	EERd		6.13
	Cdc(*)		0.99

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	67
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	VARIABLE		
Rated Air flow rate, Outdoor1		l/s	57840
Sound power level	LW_A	dBA	103.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for water-to-water and brine-to-water heat pumps

(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

[Information requirements pursuant to regulation \(EU\)N°2016/2281](#)

Description

Model	POWERCIAT LX XE 2528B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	837
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	184

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	837
	EERd		3.27
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	617
	EERd		4.09
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	397
	EERd		4.76
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	200
	EERd		6.08
	Cdc(*)		0.99

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	76
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	VARIABLE		
Rated Air flow rate, Outdoor1		l/s	67480
Sound power level	LW_A	dBA	101.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for water-to-water and brine-to-water heat pumps

(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

Information requirements pursuant to regulation (EU)N°2016/2281

Description

Model	POWERCIAT LX XE 2628B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	899
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	181

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	899
	EERd		3.15
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	663
	EERd		4.05
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	426
	EERd		4.69
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	220
	EERd		5.96
	Cdc(*)		0.99

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	78
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	VARIABLE		
Rated Air flow rate, Outdoor1		l/s	67480
Sound power level	LW_A	dBA	104.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for water-to-water and brine-to-water heat pumps

(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

Information requirements pursuant to regulation (EU)N°2016/2281

Description

Model	POWERCIAT LX XE 3028B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	982
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	185

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	982
	EERd		3.21
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	724
	EERd		4.09
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	465
	EERd		4.86
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	230
	EERd		5.93
	Cdc(*)		0.99

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	82
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	VARIABLE		
Rated Air flow rate, Outdoor1		l/s	77120
Sound power level	LW_A	dBA	102.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for water-to-water and brine-to-water heat pumps

(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

[Information requirements pursuant to regulation \(EU\)N°2016/2281](#)

Description

Model	POWERCIAT LX XE 3428B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	1143
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	185

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	1143
	EERd		3.28
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	842
	EERd		4.15
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	541
	EERd		4.74
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	241
	EERd		6.09
	Cdc(*)		-

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	71
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	VARIABLE		
Rated Air flow rate, Outdoor1		l/s	91580
Sound power level	LW_A	dBA	103.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for water-to-water and brine-to-water heat pumps

(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

Information requirements pursuant to regulation (EU)N°2016/2281

Description

Model	POWERCIAT LX XE 3828B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	1262
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	186

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	1262
	EERd		3.24
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	930
	EERd		4.19
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	598
	EERd		4.78
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	266
	EERd		6.06
	Cdc(*)		-

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	80
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	VARIABLE		
Rated Air flow rate, Outdoor1		l/s	96400
Sound power level	LW_A	dBA	102.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for water-to-water and brine-to-water heat pumps

(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

Information requirements pursuant to regulation (EU)N°2016/2281

Description

Model	POWERCIAT LX XE 4008B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	1330
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	182

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	1330
	EERd		3.20
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	980
	EERd		4.02
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	630
	EERd		4.69
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	280
	EERd		5.99
	Cdc(*)		-

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	109
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	VARIABLE		
Rated Air flow rate, Outdoor1		l/s	96400
Sound power level	LW_A	dBA	104.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for water-to-water and brine-to-water heat pumps

(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

Information requirements pursuant to regulation (EU)N°2016/2281

Description

Model	POWERCIAT LX XE 4408B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	1441
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	182

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	1441
	EERd		3.08
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	1062
	EERd		4.08
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	682
	EERd		4.69
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	303
	EERd		6.08
	Cdc(*)		-

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	117
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	VARIABLE		
Rated Air flow rate, Outdoor1		l/s	96400
Sound power level	LW_A	dBA	104.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for water-to-water and brine-to-water heat pumps

(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

Information requirements pursuant to regulation (EU)N°2016/2281

Description

Model	POWERCIAT LX XE 4608B		
Outdoor side heat exchanger of unit	Air		
Indoor side heat exchanger of unit	Water		
Standard rating condition used	Low Temperature application (7°C/12°C)		
Type	Compressor driven vapour compression		
Driver of the compressor	Electric motor		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated cooling capacity	$P_{rated,c}$	kW	1512
Seasonal Space Cooling Energy Efficiency	$\eta_{s,c}$	%	182

Declared capacity (Pdc), declared coefficient of performance (EERd) and declared degradation coefficient (Cdc(*)) for cooling for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = 35 °C	Pdc	kW	1512
	EERd		3.11
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	1114
	EERd		4.11
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	716
	EERd		4.68
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	318
	EERd		5.94
	Cdc(*)		-

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	136
Standby mode	P_{SB}	W	275
Crankcase heater mode	P_{CK}	W	0

Other items

Capacity control	STAGED		
Outlet temperature control	VARIABLE		
Water flow rate control, Indoor	VARIABLE		
Rated Air flow rate, Outdoor1		l/s	106040
Sound power level	LW_A	dBA	104.0
Refrigerant type	R-134a		
GWP of refrigerant		kg/CO2 eq (100 years)	1430

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1) Not applicable for water-to-water and brine-to-water heat pumps

(*) If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9