CHILLERS & HEAT PUMPS

EUROPEAN ECODESIGN REGULATIONS

Air-cooled chiller with fixed-speed screw compressor

POWERCIAT LX HE 0808-4608B

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CIAT

TECHNICAL DATASHEET FOR LOW TEMPERATURE COMFORT CHILLER

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

Description

Model			**POWERCIAT LX HE 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	**$\eta_{s,c}$**	**%**	**176**

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		3.15
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	204
	EERd		3.90
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	131
	EERd		4.59
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	71.3
	EERd		6.12
	Cdc(*)		0.94

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	323
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	27083
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

(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 HE 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**	**300**
Seasonal Space Cooling Energy Efficiency	**$\eta_{s,c}$**	**%**	**175**

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	300
	EERd		3.12
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	221
	EERd		3.88
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	142
	EERd		4.55
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	78.3
	EERd		6.18
	Cdc(*)		0.94

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	362
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	27083
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

(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 HE 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**	**322**
Seasonal Space Cooling Energy Efficiency	**$\eta_{s,c}$**	**%**	**173**

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	322
	EERd		3.08
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	237
	EERd		3.86
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	153
	EERd		4.51
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	84.8
	EERd		6.02
	Cdc(*)		0.94

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	454
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	27083
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

(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 HE 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	**$\eta_{s,c}$**	**%**	**170**

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		3.18
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	289
	EERd		4.04
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	186
	EERd		4.42
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	86.7
	EERd		5.48
	Cdc(*)		0.91

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	806
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	36111
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

(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 HE 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**	**444**
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	444
	EERd		3.11
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	327
	EERd		4.01
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	210
	EERd		4.69
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	100
	EERd		5.87
	Cdc(*)		0.98

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	120
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	36111
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

(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 HE 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**	**494**
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	494
	EERd		3.08
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	364
	EERd		4.01
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	234
	EERd		4.63
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	104
	EERd		5.97
	Cdc(*)		-

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	133
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	36111
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

(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 HE 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	**$\eta_{s,c}$**	**%**	**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	623
	EERd		3.22
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	459
	EERd		4.02
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	295
	EERd		4.62
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	143
	EERd		5.84
	Cdc(*)		0.98

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	157
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	49653
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

(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 HE 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**	**676**
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	676
	EERd		3.28
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	498
	EERd		4.07
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	320
	EERd		4.74
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	161
	EERd		5.84
	Cdc(*)		0.98

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	171
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	54167
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

(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 HE 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	**$\eta_{s,c}$**	**%**	**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	730
	EERd		3.10
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	538
	EERd		4.03
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	346
	EERd		4.78
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	162
	EERd		5.60
	Cdc(*)		0.98

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	184
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	54167
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

(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 HE 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	**$\eta_{s,c}$**	**%**	**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	782
	EERd		3.10
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	576
	EERd		3.99
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	371
	EERd		4.59
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	177
	EERd		6.05
	Cdc(*)		0.98

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	198
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	54167
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

(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 HE 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**	**825**
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	825
	EERd		3.08
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	608
	EERd		3.92
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	391
	EERd		4.62
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	192
	EERd		6.18
	Cdc(*)		0.98

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	208
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	54167
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

(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 HE 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	**$\eta_{s,c}$**	**%**	**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	899
	EERd		3.12
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	662
	EERd		3.96
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	426
	EERd		4.66
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	214
	EERd		5.97
	Cdc(*)		0.99

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	222
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,Outdoor(1)		l/s	63194
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

(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 HE 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**	**983**
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	983
	EERd		3.17
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	724
	EERd		4.07
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	465
	EERd		4.70
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	232
	EERd		5.90
	Cdc(*)		0.99

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	245
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

(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 HE 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	**$\eta_{s,c}$**	**%**	**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	1143
	EERd		3.22
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	842
	EERd		4.06
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	541
	EERd		4.70
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	241
	EERd		5.71
	Cdc(*)		-

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	281
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

(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 HE 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	**$\eta_{s,c}$**	**%**	**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	1262
	EERd		3.19
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	930
	EERd		4.09
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	598
	EERd		4.73
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	276
	EERd		5.79
	Cdc(*)		0.99

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	303
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	90278
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

(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 HE 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	**$\eta_{s,c}$**	**%**	**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	1330
	EERd		3.16
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	980
	EERd		4.05
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	630
	EERd		4.65
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	280
	EERd		5.74
	Cdc(*)		-

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	323
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,Outdoor(1)		l/s	90278
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

(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 HE 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	**$\eta_{s,c}$**	**%**	**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	1441
	EERd		3.05
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	1062
	EERd		4.00
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	682
	EERd		4.68
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	303
	EERd		5.82
	Cdc(*)		-

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	346
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	90278
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

(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 HE 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**	**1511**
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	1511
	EERd		3.07
	Cdc(*)		-
Tj = 30 °C	Pdc	kW	1114
	EERd		4.03
	Cdc(*)		-
Tj = 25 °C	Pdc	kW	716
	EERd		4.62
	Cdc(*)		-
Tj = 20 °C	Pdc	kW	318
	EERd		5.87
	Cdc(*)		-

Power consumption in modes other than active mode

Off mode	P_{OFF}	W	0
Thermostat off-mode	P_{TO}	W	355
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	99306
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

(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