



EUROPEAN ECODESIGN REGULATIONS



Air-cooled chiller with fixed-speed screw compressor

POWERCIAT LX XE 0808-4608B



TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 0808B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	6.12
Annual electricity consumption	Q	kWh	335331

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	277
Rated power input	D_A	kW	86.2
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kW/kW	3.21

Parameters at rating point B

Declared cooling capacity	P_B	kW	258
Declared power input	D_B	kW	59.0
Degradation co-efficient chillers(*)	C_{dcB}		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.38

Parameters at rating point C

Declared cooling capacity	P_C	kW	240
Declared power input	D_C	kW	42.3
Degradation co-efficient chillers(*)	C_{dcC}		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.68

Parameters at rating point D

Declared cooling capacity	P_D	kW	221
Declared power input	D_D	kW	29.0
Degradation co-efficient chillers(*)	C_{dcD}		-
Declared energy efficiency ratio	$EER_{DC,D}$		7.64

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 0908B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	6.16
Annual electricity consumption	Q	kWh	361900

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	301
Rated power input	D_A	kW	94.7
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kWh/kWh	3.18

Parameters at rating point B

Declared cooling capacity	P_B	kW	281
Declared power input	D_B	kW	64.2
Degradation co-efficient chillers(*)	C_{dc}^B		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.37

Parameters at rating point C

Declared cooling capacity	P_C	kW	261
Declared power input	D_C	kW	45.5
Degradation co-efficient chillers(*)	C_{dc}^C		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.73

Parameters at rating point D

Declared cooling capacity	P_D	kW	241
Declared power input	D_D	kW	31.3
Degradation co-efficient chillers(*)	C_{dc}^D		-
Declared energy efficiency ratio	$EER_{DC,D}$		7.70

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 1008B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	6.11
Annual electricity consumption	Q	kWh	391524

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	323
Rated power input	D_A	kW	103
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kW/kW	3.14

Parameters at rating point B

Declared cooling capacity	P_B	kW	301
Declared power input	D_B	kW	69.9
Degradation co-efficient chillers(*)	C_{dcB}		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.31

Parameters at rating point C

Declared cooling capacity	P_C	kW	280
Declared power input	D_C	kW	49.0
Degradation co-efficient chillers(*)	C_{dcC}		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.71

Parameters at rating point D

Declared cooling capacity	P_D	kW	258
Declared power input	D_D	kW	33.8
Degradation co-efficient chillers(*)	C_{dcD}		-
Declared energy efficiency ratio	$EER_{DC,D}$		7.64

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 1108B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	6.06
Annual electricity consumption	Q	kWh	479363

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	392
Rated power input	D_A	kW	121
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kW/kW	3.23

Parameters at rating point B

Declared cooling capacity	P_B	kW	366
Declared power input	D_B	kW	84.0
Degradation co-efficient chillers(*)	C_{dc}^B		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.36

Parameters at rating point C

Declared cooling capacity	P_C	kW	340
Declared power input	D_C	kW	59.3
Degradation co-efficient chillers(*)	C_{dc}^C		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.73

Parameters at rating point D

Declared cooling capacity	P_D	kW	314
Declared power input	D_D	kW	42.3
Degradation co-efficient chillers(*)	C_{dc}^D		-
Declared energy efficiency ratio	$EER_{DC,D}$		7.41

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 1358B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	5.97
Annual electricity consumption	Q	kWh	551692

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	445
Rated power input	D_A	kW	141
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kW/kW	3.16

Parameters at rating point B

Declared cooling capacity	P_B	kW	415
Declared power input	D_B	kW	96.4
Degradation co-efficient chillers(*)	C_{dcB}		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.31

Parameters at rating point C

Declared cooling capacity	P_C	kW	385
Declared power input	D_C	kW	69.1
Degradation co-efficient chillers(*)	C_{dcC}		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.58

Parameters at rating point D

Declared cooling capacity	P_D	kW	356
Declared power input	D_D	kW	48.2
Degradation co-efficient chillers(*)	C_{dcD}		-
Declared energy efficiency ratio	$EER_{DC,D}$		7.38

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 1528B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	6.09
Annual electricity consumption	Q	kWh	608118

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	500
Rated power input	D_A	kW	155
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kW/kW	3.23

Parameters at rating point B

Declared cooling capacity	P_B	kW	466
Declared power input	D_B	kW	107
Degradation co-efficient chillers(*)	C_{dcB}		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.35

Parameters at rating point C

Declared cooling capacity	P_C	kW	433
Declared power input	D_C	kW	76.1
Degradation co-efficient chillers(*)	C_{dcC}		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.69

Parameters at rating point D

Declared cooling capacity	P_D	kW	400
Declared power input	D_D	kW	52.9
Degradation co-efficient chillers(*)	C_{dcD}		-
Declared energy efficiency ratio	$EER_{DC,D}$		7.55

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 1858B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	5.91
Annual electricity consumption	Q	kWh	781406

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	623
Rated power input	D_A	kW	191
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kW/kW	3.27

Parameters at rating point B

Declared cooling capacity	P_B	kW	582
Declared power input	D_B	kW	136
Degradation co-efficient chillers(*)	C_{dcB}		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.29

Parameters at rating point C

Declared cooling capacity	P_C	kW	540
Declared power input	D_C	kW	97.5
Degradation co-efficient chillers(*)	C_{dcC}		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.54

Parameters at rating point D

Declared cooling capacity	P_D	kW	499
Declared power input	D_D	kW	68.8
Degradation co-efficient chillers(*)	C_{dcD}		-
Declared energy efficiency ratio	$EER_{DC,D}$		7.24

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If C_{dc} is not determined by measurement then the default degradation coefficient is $C_{dc}=0.9$

TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 2008B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	6.14
Annual electricity consumption	Q	kWh	817259

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	677
Rated power input	D_A	kW	203
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kW/kW	3.34

Parameters at rating point B

Declared cooling capacity	P_B	kW	632
Declared power input	D_B	kW	144
Degradation co-efficient chillers(*)	C_{dcB}		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.39

Parameters at rating point C

Declared cooling capacity	P_C	kW	586
Declared power input	D_C	kW	102
Degradation co-efficient chillers(*)	C_{dcC}		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.75

Parameters at rating point D

Declared cooling capacity	P_D	kW	541
Declared power input	D_D	kW	71.4
Degradation co-efficient chillers(*)	C_{dcD}		-
Declared energy efficiency ratio	$EER_{DC,D}$		7.58

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If C_{dc} is not determined by measurement then the default degradation coefficient is $C_{dc}=0.9$

TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 2158B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	5.77
Annual electricity consumption	Q	kWh	937090

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	730
Rated power input	D_A	kW	232
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kW/kW	3.14

Parameters at rating point B

Declared cooling capacity	P_B	kW	682
Declared power input	D_B	kW	162
Degradation co-efficient chillers(*)	C_{dcB}		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.20

Parameters at rating point C

Declared cooling capacity	P_C	kW	633
Declared power input	D_C	kW	116
Degradation co-efficient chillers(*)	C_{dcC}		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.44

Parameters at rating point D

Declared cooling capacity	P_D	kW	584
Declared power input	D_D	kW	82.9
Degradation co-efficient chillers(*)	C_{dcD}		-
Declared energy efficiency ratio	$EER_{DC,D}$		7.05

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 2308B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	5.65
Annual electricity consumption	Q	kWh	1026398

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	782
Rated power input	D_A	kW	250
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kW/kW	3.13

Parameters at rating point B

Declared cooling capacity	P_B	kW	730
Declared power input	D_B	kW	178
Degradation co-efficient chillers(*)	C_{dcB}		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.11

Parameters at rating point C

Declared cooling capacity	P_C	kW	678
Declared power input	D_C	kW	126
Degradation co-efficient chillers(*)	C_{dcC}		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.38

Parameters at rating point D

Declared cooling capacity	P_D	kW	626
Declared power input	D_D	kW	92.0
Degradation co-efficient chillers(*)	C_{dcD}		-
Declared energy efficiency ratio	$EER_{DC,D}$		6.80

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 2528B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	5.91
Annual electricity consumption	Q	kWh	1050043

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	837
Rated power input	D_A	kW	256
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kW/kW	3.27

Parameters at rating point B

Declared cooling capacity	P_B	kW	781
Declared power input	D_B	kW	182
Degradation co-efficient chillers(*)	C_{dcB}		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.29

Parameters at rating point C

Declared cooling capacity	P_C	kW	725
Declared power input	D_C	kW	131
Degradation co-efficient chillers(*)	C_{dcC}		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.54

Parameters at rating point D

Declared cooling capacity	P_D	kW	670
Declared power input	D_D	kW	92.5
Degradation co-efficient chillers(*)	C_{dcD}		-
Declared energy efficiency ratio	$EER_{DC,D}$		7.24

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 2628B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	5.80
Annual electricity consumption	Q	kWh	1148043

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	899
Rated power input	D_A	kW	285
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kWh/kWh	3.15

Parameters at rating point B

Declared cooling capacity	P_B	kW	839
Declared power input	D_B	kW	195
Degradation co-efficient chillers(*)	C_{dcB}		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.31

Parameters at rating point C

Declared cooling capacity	P_C	kW	779
Declared power input	D_C	kW	142
Degradation co-efficient chillers(*)	C_{dcC}		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.49

Parameters at rating point D

Declared cooling capacity	P_D	kW	720
Declared power input	D_D	kW	103
Degradation co-efficient chillers(*)	C_{dcD}		-
Declared energy efficiency ratio	$EER_{DC,D}$		6.99

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If C_{dc} is not determined by measurement then the default degradation coefficient is $C_{dc}=0.9$

TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 3028B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	5.80
Annual electricity consumption	Q	kWh	1255603

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	982
Rated power input	D_A	kW	306
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kW/kW	3.21

Parameters at rating point B

Declared cooling capacity	P_B	kW	917
Declared power input	D_B	kW	214
Degradation co-efficient chillers(*)	C_{dcB}		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.29

Parameters at rating point C

Declared cooling capacity	P_C	kW	851
Declared power input	D_C	kW	154
Degradation co-efficient chillers(*)	C_{dcC}		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.52

Parameters at rating point D

Declared cooling capacity	P_D	kW	786
Declared power input	D_D	kW	113
Degradation co-efficient chillers(*)	C_{dcD}		-
Declared energy efficiency ratio	$EER_{DC,D}$		6.93

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 3428B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	5.88
Annual electricity consumption	Q	kWh	1440926

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	1143
Rated power input	D_A	kW	348
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kW/kW	3.28

Parameters at rating point B

Declared cooling capacity	P_B	kW	1067
Declared power input	D_B	kW	247
Degradation co-efficient chillers(*)	C_{dcB}		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.33

Parameters at rating point C

Declared cooling capacity	P_C	kW	991
Declared power input	D_C	kW	176
Degradation co-efficient chillers(*)	C_{dcC}		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.63

Parameters at rating point D

Declared cooling capacity	P_D	kW	914
Declared power input	D_D	kW	131
Degradation co-efficient chillers(*)	C_{dcD}		-
Declared energy efficiency ratio	$EER_{DC,D}$		7.00

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 3828B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	5.84
Annual electricity consumption	Q	kWh	1600757

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	1262
Rated power input	D_A	kW	390
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kWh/kWh	3.24

Parameters at rating point B

Declared cooling capacity	P_B	kW	1178
Declared power input	D_B	kW	274
Degradation co-efficient chillers(*)	C_{dcB}		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.30

Parameters at rating point C

Declared cooling capacity	P_C	kW	1094
Declared power input	D_C	kW	195
Degradation co-efficient chillers(*)	C_{dcC}		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.60

Parameters at rating point D

Declared cooling capacity	P_D	kW	1010
Declared power input	D_D	kW	145
Degradation co-efficient chillers(*)	C_{dcD}		-
Declared energy efficiency ratio	$EER_{DC,D}$		6.96

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 4008B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	5.96
Annual electricity consumption	Q	kWh	1652232

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	1330
Rated power input	D_A	kW	416
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kW/kW	3.20

Parameters at rating point B

Declared cooling capacity	P_B	kW	1241
Declared power input	D_B	kW	285
Degradation co-efficient chillers(*)	C_{dc}^B		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.35

Parameters at rating point C

Declared cooling capacity	P_C	kW	1152
Declared power input	D_C	kW	207
Degradation co-efficient chillers(*)	C_{dc}^C		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.57

Parameters at rating point D

Declared cooling capacity	P_D	kW	1064
Declared power input	D_D	kW	145
Degradation co-efficient chillers(*)	C_{dc}^D		-
Declared energy efficiency ratio	$EER_{DC,D}$		7.33

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 4408B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	5.61
Annual electricity consumption	Q	kWh	1903401

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	1441
Rated power input	D_A	kW	467
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kW/kW	3.08

Parameters at rating point B

Declared cooling capacity	P_B	kW	1345
Declared power input	D_B	kW	322
Degradation co-efficient chillers(*)	C_{dcB}		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.17

Parameters at rating point C

Declared cooling capacity	P_C	kW	1249
Declared power input	D_C	kW	237
Degradation co-efficient chillers(*)	C_{dcC}		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.26

Parameters at rating point D

Declared cooling capacity	P_D	kW	1153
Declared power input	D_D	kW	170
Degradation co-efficient chillers(*)	C_{dcD}		-
Declared energy efficiency ratio	$EER_{DC,D}$		6.80

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If Cdc is not determined by measurement then the default degradation coefficient is Cdc=0.9

TECHNICAL DATASHEET FOR HIGH TEMPERATURE PROCESS CHILLER

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

Description

Model	POWERCIAT LX XE 4608B		
Type of condensing	Air-cooled		
Evaporator fluid type	FW		
Evaporator fluid concentration		%	0

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

	Symbol	Unit	
Operating temperature	t	°C	7
Seasonal energy performance ratio	SEPR	kWh/kWh	6.13
Annual electricity consumption	Q	kWh	1827727

Parameters at full load and reference ambient temperature at rating point A

Rated cooling capacity	P_A	kW	1512
Rated power input	D_A	kW	487
Degradation coefficient chillers(*)	C_{dcA}		-
Rated energy efficiency ratio	$EER_{DC,A}$	kW/kW	3.11

Parameters at rating point B

Declared cooling capacity	P_B	kW	1411
Declared power input	D_B	kW	323
Degradation co-efficient chillers(*)	C_{dcB}		-
Declared energy efficiency ratio	$EER_{DC,B}$		4.37

Parameters at rating point C

Declared cooling capacity	P_C	kW	1311
Declared power input	D_C	kW	226
Degradation co-efficient chillers(*)	C_{dcC}		-
Declared energy efficiency ratio	$EER_{DC,C}$		5.80

Parameters at rating point D

Declared cooling capacity	P_D	kW	1210
Declared power input	D_D	kW	160
Degradation co-efficient chillers(*)	C_{dcD}		-
Declared energy efficiency ratio	$EER_{DC,D}$		7.54

Other items

Capacity control	STAGED		
Water flow rate control, Indoor	FIXED		
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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(*)If C_{dc} is not determined by measurement then the default degradation coefficient is $C_{dc}=0.9$