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Declaration of conformity
according to EC Eco-Design Directive 2009/125/EC

Manufacturer:	**GEA Refrigeration Germany GmbH** **Holzhauser Straße 165** **13509 Berlin, Germany**

We hereby declare, under our sole responsibility as the manufacturer, that the following products

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Name:	Chiller
Model series:	GEA BluAstrum, GEA BluGenium, GEA BluAir, GEA BluAir duo, GEA BluX, GEA BluX duo
Type:	• BluAstrum400(W) / BluAstrum500(W) / BluAstrum800(W) / BluAstrum900(W) / BluAstrum1000(W) / BluAstrum1500(W) / BluAstrum 1800(W) • BluGenium300(W) / BluGenium450(W) / BluGenium600(W) / BluGenium900(W) / BluGenium1200(W) / BluGenium1400(W) / BluGenium1800(W) • BluAir400 (W/A) / BluAir500(W/A) / BluAir800(W/A) / BluAir900(W/A) / BluAir1000(W/A) / BluAir1500(W/A) / BluAir1800(W/A) • BluAir500duo(W/A) / BluAir600duo(W/A) / BluAir700duo(W/A) / BluAir900duo(W/A) /BluAir1000duo(W/A) • BluX 350(W) / BluX 400(W) • BluX duo 350(W) / BluX duo 400(W),

comply with all relevant provisions of this and the following directives and regulations:

Relevant EC Directives / EC Regulations:	2009/125/EC (EU) 2015/1095 (EU) No 2016/2281
Applied harmonized standards, in particular:	EN 13215:2017
Other applied standards and technical specifications:	EN 14511 EN 14825 EN 12900 EN 12102 EN ISO 11203 EN ISO 9614-2
Remarks:	The prerequisites and detailed values are described in the “Annex to the ECO Design Declaration of Conformity.” To use this product as a machine within the meaning of the EU Machinery Directive 2006/42/EC, the Declaration of Conformity must be observed. To incorporate this product into a machine, the installation declaration in accordance with the EU Machinery Directive 2006/42/EC must be observed.

Berlin, 19.03.2026

i.V. Thomas Spänich

Thomas Spänich
Senior Director Product Engineering & Development Skids

APPENDIX TO THE ECO-DESIGN CONFORMITY DECLARATION

GEA Process Chillers / Heat pumps

Chiller

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Contents

1. Prerequisites, Data and Values

We declare that our BluChiller series liquid chillers meet the requirements of the Ecodesign Directive in accordance with the following:

- EU Regulation 2015/1095 for medium temperatures (-8 °C)
- EU Regulation 2016/2281 for high temperatures (7 °C)

Where applicable, the harmonized standards series DIN EN 14511 and DIN EN 14825 have been taken into account.
The **value tolerances** for the selection tools comply with DIN EN 12900.

Prerequisites:

1. The EER calculations are based on our calculation/sales software "RTselect" in its latest version.

2. The calculation method is based on a spreadsheet program, version 1.5.3 dated 01/09/2013; the calculations were carried out in the current version of the "RTselect" calculation/sales software.

The results are compared against the limits set out in Commission Regulations 2015/1095 Annex VII and 2016/2281 Annex II. See data and calculations on the following pages.

3. Screw compressors without capacity-enhancing systems (economizer).

4. Refrigerant: ethylene glycol at (-8 °C) and water (7 °C).

5. Includes suction and discharge pressure drop.

6. The electrical power of the brine/water pumps (cold/hot side) was included as calculated values (based on DIN EN 14511-3). Pumps themselves are not included in the scope of delivery.

7. The efficiency of the electric motor is taken into account.

8. The liquid chiller includes an evaporator (brine/water) and a condenser (water or air).

9. All other conditions or types/models must be calculated in “RTselect”.

Legal limits according to 2015/1095 **min. seasonal energy efficiency ratio (LEVEL 2)** **Refrigerant: Ammonia (Global Warming Potential < 150)**			
	Medium temperature (-8 °C)		
	< 300 kW	< 300 kW	
Water cooling	2.96	Water cooling	2.96
Air cooling	2.32	Air cooling	2.32

Legal limits according to 2016/2281 min. seasonal energy efficiency ratio (LEVEL 2) **Refrigerant: Ammonia (Global Warming Potential < 150)** **Capacity control: variable** **Reduction: 0**			
	High temperature (7 °C)		
	< 400 kW		< 400 kW
Water cooling	7.00	Water cooling	7.00
Air cooling	5.00	Air cooling	5.00
Air cooling	5.00	Air cooling	5.00

Legal limits according to 2016/2281 min. seasonal efficiency (LEVEL 2) **Refrigerant: Ammonia (Global Warming Potential < 150)** **Capacity control: variable** **Reduction: 0**			
$\eta_{s,c}$	High temperature (7 °C) $\eta_{s,c}$		
	< 400 kW		< 400 kW
Water cooling	200	Water cooling	200
Air cooling	161	Air cooling	161

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Our declared conformity is subject to the following conformity assessment procedures:

- ISO 9001:2015
- Authorized company under the German Water Resources Act
- Energy management in accordance with ISO 50001:2018
- According to 31st BImSchV (Germany), especially VOC balance with documentation ofconformity regarding solvent emissions

Notice

Information relevant for dismantling, recovery and / or disposal of all chiller series / sizes ▶ In any case of dismantling, recovery and / or disposal only authorized personnel must do it. Detailed information about all safety aspects personnel must consider, you will find

2. BluAstrum

Data Table BluAstrum 400 (W)				
Comfort Chiller(7°C)				
Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 400 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	256	252
annual electrical cons.		Q (kWh/a)	68542	
Sound power level, outdoor		L_{wa}	---	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		431	89	4,75
Rating point B		319	50	6,18
Rating point C		203	27	7,09
Rating point D		91	13	6,24

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Data Table BluAstrum 400 (W)				
Process Chiller High temperature (7°C)				
Model : Capacity control:	screw variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 400 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,34	8
annual electrical cons.		Q (kWh/a)	373232	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		420	92	4,44
Rating point B		390	63	5,96
Rating point C		365	43	8,08
Rating point D		336	31	9,97

Data Table BluAstrum 400 (W)				
Process Chiller Medium temperature (-8°C)				
Model : Capacity control:	screw variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 400 (W)	Capacity	GEA	Legal Limit
SEPR		Qo <= 300 kW	4,21	2,96
annual electrical cons.		Q (kWh/a)	387104	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		220	91	2,37
Rating point B		204	65	3,08
Rating point C		191	46	4,03
Rating point D		176	33	5,04

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Data Table BluAstrum 500 (W)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 500 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	255	252
annual electrical cons.		Q (kWh/a)	96691	
Sound power level, outdoor		L_{wa}	---	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		607	125	4,75
Rating point B		449	71	6,1
Rating point C		285	38	7,09
Rating point D		127	18	6,27

Data Table BluAstrum 500 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 500 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,26	8
annual electrical cons.		Q (kWh/a)	530658	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		591	129	4,45
Rating point B		549	89	5,95
Rating point C		514	60	8,01
Rating point D		473	44	9,83

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Data Table BluAstrum 500 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 500 (W)	Capacity	GEA	Legal Limit
SEPR		Qo <= 300 kW	4,15	2,96
annual electrical cons.		Q (kWh/a)	528158	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		295	124	2,34
Rating point B		275	88	3,04
Rating point C		257	63	3,95
Rating point D		236	45	4,97

Data Table BluAstrum 800 (W)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 800 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	256	252
annual electrical cons.		Q (kWh/a)	117971	
Sound power level, outdoor		L_{wa}	---	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		741	158	4,55
Rating point B		548	90	5,8
Rating point C		348	45	6,97
Rating point D		156	18	6,77

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Data Table BluAstrum 800 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 800 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,21	8
annual electrical cons.		Q (kWh/a)	668515	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		740	159	4,5
Rating point B		689	109	5,97
Rating point C		644	74	8
Rating point D		592	55	9,7

Data Table BluAstrum 800 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 800 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,51	3,93
annual electrical cons.		Q (kWh/a)	627999	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		382	151	2,48
Rating point B		356	107	3,23
Rating point C		333	75	4,25
Rating point D		306	52	5,54

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Data Table BluAstrum 900 (W)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 900 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	257	252
annual electrical cons.		Q (kWh/a)	138022	
Sound power level, outdoor		L_{wa}	---	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		873	186	4,55
Rating point B		646	105	5,83
Rating point C		410	52	7,11
Rating point D		183	21	6,73

Data Table BluAstrum 900 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 900 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,46	8
annual electrical cons.		Q (kWh/a)	765431	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		873	186	4,55
Rating point B		812	128	6,07
Rating point C		759	87	8,18
Rating point D		698	63	10,12

Data Table BluAstrum 900 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 900 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,31	3,93
annual electrical cons.		Q (kWh/a)	744530	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		432	175	2,43
Rating point B		402	124	3,16
Rating point C		376	87	4,13
Rating point D		346	63	5,14

Data Table BluAstrum 1000 (W)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 1000 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	262	252
Sound power level, outdoor		L_{wa}	---	dB(A)
annual electrical cons.		Q (kWh/a)	177753	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1144	235	4,69
Rating point B		846	133	5,97
Rating point C		537	66	7,22
Rating point D		240	27	6,8

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Data Table BluAstrum 1000 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 1000 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,63	8
annual electrical cons.		Q (kWh/a)	982441	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1144	235	4,69
Rating point B		1063	162	6,25
Rating point C		995	110	8,4
Rating point D		915	80	10,23

Data Table BluAstrum 1000 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 1000 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,42	3,93
annual electrical cons.		Q (kWh/a)	952866	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		568	220	2,52
Rating point B		528	157	3,26
Rating point C		494	111	4,25
Rating point D		454	81	5,24

Data Table BluAstrum 1500 (W)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 1500 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	257	252
annual electrical cons.		Q (kWh/a)	222346	
Sound power level, outdoor		L_{wa}	---	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1404	295	4,59
Rating point B		1039	166	5,86
Rating point C		660	82	7,1
Rating point D		295	33	6,67

Data Table BluAstrum 1500 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 1500 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,49	8
annual electrical cons.		Q (kWh/a)	1227316	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1404	295	4,59
Rating point B		1306	203	6,11
Rating point C		1222	137	8,22
Rating point D		1124	99	10,12

Data Table BluAstrum 1500 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser : 	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 1500 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,87	3,93
annual electrical cons.		Q (kWh/a)	1156753	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		759	277	2,69
Rating point B		706	195	3,52
Rating point C		660	137	4,61
Rating point D		607	97	5,92

Data Table BluAstrum 1800 (W)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser : 	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 1800 (W)	Capacity	GEA	Legal Limit
Eta s,c		1500 kW < Qo	273	272
annual electrical cons.		Q (kWh/a)	258941	
Sound power level, outdoor		L_{wa}	---	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1736	336	5
Rating point B		1285	193	6,29
Rating point C		816	97	7,5
Rating point D		365	40	7

Data Table BluAstrum 1800 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 1800 (W)	Capacity	GEA	Legal Limit
SEPR		1500 kW < Qo	8,72	8,5
annual electrical cons.		Q (kWh/a)	1454605	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1711	360	4,58
Rating point B		1591	248	6,09
Rating point C		1489	169	8,14
Rating point D		1369	111	10,96

Data Table BluAstrum 1800 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAstrum 1800 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,61	3,93
annual electrical cons.		Q (kWh/a)	1471824	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		916	340	2,63
Rating point B		851	243	3,39
Rating point C		797	175	4,35
Rating point D		732	122	5,59

3. BluX

Data Table BluX 350 (W)				
Comfort Chiller (7°C)				
Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluX 350 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	252	252
annual electrical cons.		Q (kWh/a)	108641	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		673	146	4,53
Rating point B		498	84	5,8
Rating point C		316	43	7,05
Rating point D		141	20	6,37

Data Table BluX 350 (W)				
Process Chiller High temperature (7°C)				
Model : Capacity control:	screw variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluX 350 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,03	8
annual electrical cons.		Q (kWh/a)	616295	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		667	150	4,35
Rating point B		620	103	5,84
Rating point C		580	70	7,91
Rating point D		534	54	9,36

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Data Table BluX 350 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluX 350 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,03	3,93
annual electrical cons.		Q (kWh/a)	590276	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		321	147	2,16
Rating point B		299	102	2,87
Rating point C		279	72	3,77
Rating point D		257	49	5,01

Data Table BluX 400 (W)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluX duo 400 (W)	Capacity	GEA	Legal Limit
Eta s,c		1500 kW < Qo	274	272
annual electrical cons.		Q (kWh/a)	234211	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1579	336	4,57
Rating point B		1169	192	5,83
Rating point C		742	89	7,58
Rating point D		332	34	7,73

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Data Table BluX 400 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluX 400 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,12	8
annual electrical cons.		Q (kWh/a)	718619	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		787	170	4,48
Rating point B		732	116	5,99
Rating point C		685	80	7,97
Rating point D		630	60	9,46

Data Table BluX 400 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluX 400 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,26	3,93
annual electrical cons.		Q (kWh/a)	672192	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		386	167	2,28
Rating point B		359	116	3,02
Rating point C		336	81	4
Rating point D		309	56	5,28

4. BluX duo

Data Table BluX duo 350 (W) Comfort Chiller (7°C)				
Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluX duo 350 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	253	252
annual electrical cons.		Q (kWh/a)	208888	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1296	302	4,2
Rating point B		959	175	5,28
Rating point C		609	80	6,96
Rating point D		272	30	7,25

Data Table BluX duo 350 (W) Process Chiller High temperature (7°C)				
Model : Capacity control:	screw variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluX duo 350 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,02	8
annual electrical cons.		Q (kWh/a)	1240992	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1342	300	4,38
Rating point B		1248	205	5,89
Rating point C		1167	140	7,94
Rating point D		1073	108	9,28

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Data Table BluX duo 350 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluX duo 350 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,13	3,93
annual electrical cons.		Q (kWh/a)	1222245	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		680	296	2,25
Rating point B		633	207	2,98
Rating point C		592	146	3,88
Rating point D		544	101	5,07

Data Table BluX duo 400 (W)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluX duo 400 (W)	Capacity	GEA	Legal Limit
Eta s,c		1500 kW < Qo	274	272
annual electrical cons.		Q (kWh/a)	234211	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1579	336	4,57
Rating point B		1169	192	5,83
Rating point C		742	89	7,58
Rating point D		332	34	7,73

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Data Table BluX duo 400 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluX duo 400 (W)	Capacity	GEA	Legal Limit
SEPR		1500 kW < Qo	8,51	8,5
annual electrical cons.		Q (kWh/a)	1390088	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1596	325	4,76
Rating point B		1484	221	6,42
Rating point C		1388	153	8,51
Rating point D		1276	122	9,63

Data Table BluX duo 400 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluX duo 400 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,32	3,93
annual electrical cons.		Q (kWh/a)	1385655	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		807	339	2,34
Rating point B		751	236	3,08
Rating point C		702	165	4,07
Rating point D		646	114	5,31

5. BluGenium

Data Table BluGenium 300 (W)				
Comfort Chiller (7°C)				
Model : Capacity control:	recips variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 300 (W)	Capacity	GEA	Legal Limit
Eta s,c		Qo <= 400 kW	296	200
annual electrical cons.		Q (kWh/a)	39287	
Sound power level, outdoor		L_{wa}	---	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		286	57	4,93
Rating point B		211	32	6,27
Rating point C		134	16	7,91
Rating point D		65	6	8,8

Data Table BluGenium 300 (W)				
Process Chiller High temperature (7°C)				
Model : Capacity control:	recips variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 300 (W)	Capacity	GEA	Legal Limit
SEPR		Qo <= 400 kW	9,47	7
annual electrical cons.		Q (kWh/a)	223644	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		286	57	4,93
Rating point B		266	40	6,43
Rating point C		249	27	8,67
Rating point D		229	17	12,31

Data Table BluGenium 300 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	recips variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 300 (W)	Capacity	GEA	Legal Limit
SEPR		Qo <= 300 kW	4,89	2,96
annual electrical cons.		Q (kWh/a)	207078	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		137	46	2,92
Rating point B		127	35	3,63
Rating point C		119	26	4,56
Rating point D		109	18	5,96

Data Table BluGenium 450 (W)

Comfort Chiller (7°C)

Model : Capacity control:	recips variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 450 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	298	252
annual electrical cons.		Q (kWh/a)	58351	
Sound power level, outdoor		L_{wa}	---	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		427	84	4,98
Rating point B		316	48	6,29
Rating point C		201	23	7,96
Rating point D		97	9	8,87

Data Table BluGenium 450 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	recips variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 450 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	9,57	8
annual electrical cons.		Q (kWh/a)	330982	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		427	84	4,98
Rating point B		397	59	6,49
Rating point C		371	40	8,76
Rating point D		342	25	12,42

Data Table BluGenium 450 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	recips variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 450 (W)	Capacity	GEA	Legal Limit
SEPR		Qo <= 300 kW	4,74	2,96
annual electrical cons.		Q (kWh/a)	312664	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		200	69	2,84
Rating point B		186	52	3,53
Rating point C		174	38	4,43
Rating point D		160	27	5,74

Data Table BluGenium 600 (W)

Comfort Chiller(7°C)

Model : Capacity control:	recips variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 600 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	293	252
annual electrical cons.		Q (kWh/a)	77459	
Sound power level, outdoor		L_{wa}	---	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		557	109	4,96
Rating point B		412	64	6,16
Rating point C		262	31	7,7
Rating point D		129	12	8,92

Data Table BluGenium 600 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	recips variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 600 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	9,45	8
annual electrical cons.		Q (kWh/a)	437450	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		557	109	4,96
Rating point B		518	77	6,45
Rating point C		485	52	8,68
Rating point D		445	33	12,19

Data Table BluGenium 600 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	recips variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 600 (W)	Capacity	GEA	Legal Limit
SEPR		Qo <= 300 kW	4,66	2,96
annual electrical cons.		Q (kWh/a)	400053	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		252	89	2,8
Rating point B		234	66	3,48
Rating point C		219	49	4,35
Rating point D		201	34	5,65

Data Table BluGenium 900 (W)

Comfort Chiller (7°C)

Model : Capacity control:	recips variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 900 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	327	252
annual electrical cons.		Q (kWh/a)	100968	
Sound power level, outdoor		L_{wa}	---	dB(A)
Conditions		Inlet/Outlet 12 °C / 7 °C	Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		811	154	5,12
Rating point B		600	87	6,54
Rating point C		381	39	8,72
Rating point D		250	19	10,92

Data Table BluGenium 900 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	recips variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 900 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	10,04	8
annual electrical cons.		Q (kWh/a)	598599	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		811	154	5,12
Rating point B		754	108	6,68
Rating point C		705	73	9,04
Rating point D		648	43	13,43

Data Table BluGenium 900 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	recips variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 900 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,9	3,93
annual electrical cons.		Q (kWh/a)	563973	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		373	127	2,88
Rating point B		347	94	3,61
Rating point C		324	69	4,56
Rating point D		298	47	5,99

Data Table BluGenium 1200 (W)

Comfort Chiller (7°C)

Model : Capacity control:	recips variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 1200 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	329	252
annual electrical cons.		Q (kWh/a)	149990	
Sound power level, outdoor		L_{wa}	---	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1213	228	5,16
Rating point B		898	130	6,53
Rating point C		570	58	8,7
Rating point D		336	25	11,07

Data Table BluGenium 1200 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	recips variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 1200 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	10,16	8
annual electrical cons.		Q (kWh/a)	885693	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1213	228	5,16
Rating point B		1128	160	6,74
Rating point C		1055	108	9,13
Rating point D		970	64	13,61

Data Table BluGenium 1200 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	recips variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 1200 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	5,15	3,93
annual electrical cons.		Q (kWh/a)	895292	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		622	200	3,04
Rating point B		578	147	3,81
Rating point C		541	108	4,8
Rating point D		498	75	6,28

Data Table BluGenium 1400 (W)

Comfort Chiller (7°C)

Model : Capacity control:	recips variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 1400 (W)	Capacity	GEA	Legal Limit
Eta s,c		1500 kW < Qo	326	272
annual electrical cons.		Q (kWh/a)	210998	
Sound power level, outdoor		L_{wa}	---	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1692	309	5,27
Rating point B		1252	172	6,77
Rating point C		795	80	8,55
Rating point D		419	31	10,39

Data Table BluGenium 1400 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	recips variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 1400 (W)	Capacity	GEA	Legal Limit
SEPR		1500 kW < Qo	10,57	8,5
annual electrical cons.		Q (kWh/a)	1187583	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1692	309	5,27
Rating point B		1573	215	6,92
Rating point C		1472	143	9,45
Rating point D		1354	81	14,35

Data Table BluGenium 1400 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	recips variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 1400 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	5,18	3,93
annual electrical cons.		Q (kWh/a)	1163697	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		813	261	3,04
Rating point B		756	191	3,83
Rating point C		707	140	4,83
Rating point D		650	96	6,32

Data Table BluGenium 1800 (W)

Comfort Chiller (7°C)

Model : Capacity control:	recips variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 1800 (W)	Capacity	GEA	Legal Limit
Eta s,c		1500 kW < Qo	349	272
annual electrical cons.		Q (kWh/a)	200514	
Sound power level, outdoor		L_{wa}	---	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1720	286	5,78
Rating point B		1273	162	7,33
Rating point C		813	78	9,11
Rating point D		423	31	10,96

Data Table BluGenium 1800 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	recips variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 1800 (W)	Capacity	GEA	Legal Limit
SEPR		1500 kW < Qo	12,05	8,5
annual electrical cons.		Q (kWh/a)	1058366	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1720	286	5,78
Rating point B		1599	197	7,66
Rating point C		1496	129	10,61
Rating point D		1376	69	16,94

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Data Table BluGenium 1800 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	recips variable			
Medium Condenser:	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluGenium 1800 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	5,68	3,93
annual electrical cons.		Q (kWh/a)	1135219	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		869	254	3,37
Rating point B		808	190	4,16
Rating point C		756	139	5,27
Rating point D		695	95	6,98

6. BluAir

Data Table BluAir 400 (W)				
Comfort Chiller (7°C)				
Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 400 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	256	252
annual electrical cons.		Q (kWh/a)	68542	
Sound power level, outdoor		L_{wa}	92	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		431	89	4,75
Rating point B		319	50	6,18
Rating point C		203	27	7,09
Rating point D		91	13	6,24

Data Table BluAir 400 (A)				
Comfort Chiller (7°C)				
Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 400 (A)	Capacity	GEA	Legal Limit
Eta s,c		Qo <= 400 kW	166	161
annual electrical cons.		Q (kWh/a)	93128	
Sound power level, outdoor		L_{wa}	93	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 47 °C	
		P in kW	D in kW	EER
Rating point A		379	132	2,86
Rating point B		281	73	3,78
Rating point C		178	39	4,53
Rating point D		80	17	4,39

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Data Table BluAir 400 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 400 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,34	8
annual electrical cons.		Q (kWh/a)	373232	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		420	92	4,44
Rating point B		390	63	5,96
Rating point C		365	43	8,08
Rating point D		336	31	9,97

Data Table BluAir 400 (A)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 400 (A)	Capacity	GEA	Legal Limit
SEPR		Qo <= 400 kW	6,6	5
annual electrical cons.		Q (kWh/a)	426110	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 47 °C	
		P in kW	D in kW	EER
Rating point A		379	131	2,88
Rating point B		353	82	4,28
Rating point C		330	53	6,09
Rating point D		303	34	8,78

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Data Table BluAir 400 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 400 (W)	Capacity	GEA	Legal Limit
SEPR		Qo <= 300 kW	4,21	2,96
annual electrical cons.		Q (kWh/a)	387104	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		220	91	2,37
Rating point B		204	65	3,08
Rating point C		191	46	4,03
Rating point D		176	33	5,04

Data Table BluAir 400 (A)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 400 (A)	Capacity	GEA	Legal Limit
SEPR		Qo <= 300 kW	3,8	2,32
annual electrical cons.		Q (kWh/a)	394951	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet 35 °C / 48 °C	
		P in kW	D in kW	EER
Rating point A		202	123	1,65
Rating point B		188	76	2,48
Rating point C		176	49	3,6
Rating point D		162	33	4,9

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Data Table BluAir 500 (W)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 500 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	255	252
annual electrical cons.		Q (kWh/a)	96697	
Sound power level, outdoor		L_{wa}	93	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		607	125	4,75
Rating point B		449	71	6,1
Rating point C		285	38	7,09
Rating point D		127	18	6,27

Data Table BluAir 500 (A)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 500 (A)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo	186	179
annual electrical cons.		Q (kWh/a)	129568	
Sound power level, outdoor		L_{wa}	93	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 45 °C	
		P in kW	D in kW	EER
Rating point A		592	176	3,35
Rating point B		438	101	4,3
Rating point C		278	55	5,01
Rating point D		124	25	4,89

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Data Table BluAir 500 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 500 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,26	8
annual electrical cons.		Q (kWh/a)	530658	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		591	129	4,45
Rating point B		549	89	5,95
Rating point C		514	60	8,01
Rating point D		473	44	9,83

Data Table BluAir 500 (A)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 500 (A)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo	6,6	5,5
annual electrical cons.		Q (kWh/a)	607313	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 46 °C	
		P in kW	D in kW	EER
Rating point A		540	180	2,98
Rating point B		502	116	4,27
Rating point C		470	76	6,08
Rating point D		432	48	8,78

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Data Table BluAir 500 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 500 (W)	Capacity	GEA	Legal Limit
SEPR		Qo <= 300 kW	4,15	2,96
annual electrical cons.		Q (kWh/a)	528158	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		295	124	2,34
Rating point B		275	88	3,04
Rating point C		257	63	3,95
Rating point D		236	45	4,97

Data Table BluAir 500 (A)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 500 (A)	Capacity	GEA	Legal Limit
SEPR		Qo <= 300 kW	3,82	2,32
annual electrical cons.		Q (kWh/a)	557305	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet 35 °C / 48 °C	
		P in kW	D in kW	EER
Rating point A		287	167	1,71
Rating point B		267	106	2,5
Rating point C		249	69	3,6
Rating point D		229	46	4,92

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Data Table BluAir 800 (W)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 800 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	256	252
annual electrical cons.		Q (kWh/a)	117971	
Sound power level, outdoor		L_{wa}	93	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		741	158	4,55
Rating point B		548	90	5,8
Rating point C		348	45	6,97
Rating point D		156	18	6,77

Data Table BluAir 800 (A)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 800 (A)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo	191	179
annual electrical cons.		Q (kWh/a)	152792	
Sound power level, outdoor		L_{wa}	93	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 47 °C	
		P in kW	D in kW	EER
Rating point A		717	231	3,09
Rating point B		531	128	4,12
Rating point C		337	65	5,13
Rating point D		151	26	5,57

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Data Table BluAir 800 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 800 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,21	8
annual electrical cons.		Q (kWh/a)	668515	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		740	159	4,5
Rating point B		689	109	5,97
Rating point C		644	74	8
Rating point D		592	55	9,7

Data Table BluAir 800 (A)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 800 (A)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo	6,68	5,5
annual electrical cons.		Q (kWh/a)	767810	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 46 °C	
		P in kW	D in kW	EER
Rating point A		691	230	2,98
Rating point B		643	146	4,33
Rating point C		601	96	6,14
Rating point D		553	60	8,89

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Data Table BluAir 800 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 800 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,51	3,93
annual electrical cons.		Q (kWh/a)	627999	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		382	151	2,48
Rating point B		356	107	3,23
Rating point C		333	75	4,25
Rating point D		306	52	5,54

Data Table BluAir 800 (A)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 800 (A)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	3,94	2,89
annual electrical cons.		Q (kWh/a)	657420	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet 35 °C / 48 °C	
		P in kW	D in kW	EER
Rating point A		350	203	1,72
Rating point B		325	125	2,58
Rating point C		304	81	3,73
Rating point D		280	54	5,08

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Data Table BluAir 900 (W)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 900 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	257	252
annual electrical cons.		Q (kWh/a)	138029	
Sound power level, outdoor		L_{wa}	93	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		873	186	4,55
Rating point B		646	105	5,83
Rating point C		410	52	7,11
Rating point D		183	21	6,73

Data Table BluAir 900 (A)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 900 (A)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo	187	179
annual electrical cons.		Q (kWh/a)	178475	
Sound power level, outdoor		L_{wa}	93	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 48 °C	
		P in kW	D in kW	EER
Rating point A		819	275	2,96
Rating point B		606	149	4,02
Rating point C		385	75	5,02
Rating point D		172	30	5,49

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Data Table BluAir 900 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 900 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,46	8
annual electrical cons.		Q (kWh/a)	765476	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		873	186	4,55
Rating point B		812	128	6,07
Rating point C		759	87	8,18
Rating point D		698	63	10,12

Data Table BluAir 900 (A)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 900 (A)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo	6,73	5,5
annual electrical cons.		Q (kWh/a)	889726	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 48 °C	
		P in kW	D in kW	EER
Rating point A		807	272	2,95
Rating point B		751	172	4,33
Rating point C		702	112	6,17
Rating point D		646	70	9,05

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Data Table BluAir 900 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 900 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,31	3,93
annual electrical cons.		Q (kWh/a)	744530	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		432	175	2,43
Rating point B		402	124	3,16
Rating point C		376	87	4,13
Rating point D		346	63	5,14

Data Table BluAir 900 (A)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 900 (A)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,09	2,89
annual electrical cons.		Q (kWh/a)	738700	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet 35 °C / 45 °C	
		P in kW	D in kW	EER
Rating point A		407	221	1,83
Rating point B		379	142	2,64
Rating point C		354	92	3,79
Rating point D		326	59	5,4

Data Table BluAir 1000 (W)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 1000 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	262	252
annual electrical cons.		Q (kWh/a)	177753	
Sound power level, outdoor		L_{wa}	93	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1144	235	4,69
Rating point B		846	133	5,97
Rating point C		537	66	7,22
Rating point D		240	27	6,8

Data Table BluAir 1000 (A)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 1000 (A)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo	191	179
annual electrical cons.		Q (kWh/a)	227380	
Sound power level, outdoor		L_{wa}	94	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 47 °C	
		P in kW	D in kW	EER
Rating point A		1064	344	3,07
Rating point B		788	191	4,06
Rating point C		500	95	5,14
Rating point D		224	37	5,59

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Data Table BluAir 1000 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 1000 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,63	8
annual electrical cons.		Q (kWh/a)	982441	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1144	235	4,69
Rating point B		1063	162	6,25
Rating point C		995	110	8,4
Rating point D		915	80	10,23

Data Table BluAir 1000 (A)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 1000 (A)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo	6,9	5,5
annual electrical cons.		Q (kWh/a)	1142581	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 47 °C	
		P in kW	D in kW	EER
Rating point A		1064	344	3,07
Rating point B		989	219	4,47
Rating point C		925	143	6,34
Rating point D		851	90	9,22

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Data Table BluAir 1000 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 1000 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,42	3,93
annual electrical cons.		Q (kWh/a)	952866	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		568	220	2,52
Rating point B		528	157	3,26
Rating point C		494	111	4,25
Rating point D		454	81	5,24

Data Table BluAir 1000 (A)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 1000 (A)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,13	2,89
annual electrical cons.		Q (kWh/a)	1005117	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet 35 °C / 49 °C	
		P in kW	D in kW	EER
Rating point A		559	313	1,78
Rating point B		520	192	2,7
Rating point C		487	123	3,92
Rating point D		448	83	5,3

Data Table BluAir 1500 (W)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 1500 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	257	252
annual electrical cons.		Q (kWh/a)	222346	
Sound power level, outdoor		L_{wa}	94	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1404	295	4,59
Rating point B		1039	166	5,86
Rating point C		660	82	7,1
Rating point D		295	33	6,67

Data Table BluAir 1500 (A)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 1500 (A)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo	189	179
annual electrical cons.		Q (kWh/a)	280025	
Sound power level, outdoor		L_{wa}	94	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 47 °C	
		P in kW	D in kW	EER
Rating point A		1302	419	3,08
Rating point B		963	235	4,04
Rating point C		612	116	5,1
Rating point D		273	45	5,52

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Data Table BluAir 1500 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 1500 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,49	8
annual electrical cons.		Q (kWh/a)	1227316	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1404	295	4,59
Rating point B		1306	203	6,11
Rating point C		1222	137	8,22
Rating point D		1124	99	10,12

Data Table BluAir 1500 (A)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 1500 (A)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo	7,11	5,5
annual electrical cons.		Q (kWh/a)	1412394	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 47 °C	
		P in kW	D in kW	EER
Rating point A		1354	433	3,11
Rating point B		1260	273	4,58
Rating point C		1178	178	6,53
Rating point D		1083	112	9,53

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Data Table BluAir 1500 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 1500 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,87	3,93
annual electrical cons.		Q (kWh/a)	1156753	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		759	277	2,69
Rating point B		706	195	3,52
Rating point C		660	137	4,61
Rating point D		607	97	5,92

Data Table BluAir 1500 (A)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 1500 (A)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,11	2,89
annual electrical cons.		Q (kWh/a)	1257915	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet 35 °C / 48 °C	
		P in kW	D in kW	EER
Rating point A		696	381	1,82
Rating point B		648	239	2,7
Rating point C		606	154	3,9
Rating point D		557	104	5,27

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Data Table BluAir 1800 (W)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 1800 (W)	Capacity	GEA	Legal Limit
Eta s,c		1500 kW < Qo	275	272
annual electrical cons.		Q (kWh/a)	254932	
Sound power level, outdoor		L_{wa}	96	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1725	340	4,92
Rating point B		1277	193	6,26
Rating point C		811	96	7,57
Rating point D		362	39	7,2

Data Table BluAir 1800 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 1800 (W)	Capacity	GEA	Legal Limit
SEPR		1500 kW < Qo	8,9	8,5
annual electrical cons.		Q (kWh/a)	1425216	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1711	353	4,68
Rating point B		1591	243	6,22
Rating point C		1489	166	8,31
Rating point D		1369	109	11,18

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Data Table BluAir 1800 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir 1800 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,71	3,93
annual electrical cons.		Q (kWh/a)	1440988	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		916	333	2,69
Rating point B		851	238	3,46
Rating point C		797	171	4,44
Rating point D		732	120	5,7

7. BluAir duo

Data Table BluAir duo 500 (W)				
Comfort Chiller (7°C)				
Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 500 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	253	252
annual electrical cons.		Q (kWh/a)	89658	
Sound power level, outdoor		L_{wa}	90	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		556	123	4,43
Rating point B		412	72	5,5
Rating point C		262	32	7,42
Rating point D		117	16	6,32

Data Table BluAir duo 500 (A)				
Comfort Chiller (7°C)				
Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 500 (A)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo	186	179
annual electrical cons.		Q (kWh/a)	115280	
Sound power level, outdoor		L_{wa}	90	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 44 °C	
		P in kW	D in kW	EER
Rating point A		527	173	3,04
Rating point B		390	100	3,86
Rating point C		247	46	5,35
Rating point D		111	21	5,09

Data Table BluAir duo 500 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 500 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,09	8
annual electrical cons.		Q (kWh/a)	510044	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		556	123	4,43
Rating point B		517	83	6,02
Rating point C		484	57	8,08
Rating point D		445	45	9,23

Data Table BluAir duo 500 (A)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 500 (A)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo	6,2	5,5
annual electrical cons.		Q (kWh/a)	598146	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 46 °C	
		P in kW	D in kW	EER
Rating point A		500	179	2,77
Rating point B		465	111	4,14
Rating point C		435	74	5,79
Rating point D		400	49	8,01

Data Table BluAir duo 500 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 500 (W)	Capacity	GEA	Legal Limit
SEPR		Qo <= 300 kW	3,87	2,96
annual electrical cons.		Q (kWh/a)	532601	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		278	123	2,23
Rating point B		258	86	2,92
Rating point C		242	63	3,73
Rating point D		222	47	4,52

Data Table BluAir duo 500 (A)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 500 (A)	Capacity	GEA	Legal Limit
SEPR		Qo <= 300 kW	3,38	2,32
annual electrical cons.		Q (kWh/a)	559385	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet 35 °C / 47 °C	
		P in kW	D in kW	EER
Rating point A		255	166	1,53
Rating point B		237	102	2,31
Rating point C		222	69	3,2
Rating point D		204	48	4,24

Data Table BluAir duo 600 (W)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 600 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	256	252
annual electrical cons.		Q (kWh/a)	106718	
Sound power level, outdoor		L_{wa}	90	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		670	151	4,33
Rating point B		496	85	5,54
Rating point C		315	38	7,39
Rating point D		141	17	6,63

Data Table BluAir duo 600 (A)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 600 (A)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo	185	179
annual electrical cons.		Q (kWh/a)	138848	
Sound power level, outdoor		L_{wa}	90	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 49 °C	
		P in kW	D in kW	EER
Rating point A		632	222	2,84
Rating point B		468	124	3,76
Rating point C		297	56	5,24
Rating point D		133	24	5,43

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Data Table BluAir duo 600 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 600 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,16	8
annual electrical cons.		Q (kWh/a)	609136	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		670	151	4,33
Rating point B		623	101	5,9
Rating point C		583	69	7,99
Rating point D		536	51	9,62

Data Table BluAir duo 600 (A)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 600 (A)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo	6,16	5,5
annual electrical cons.		Q (kWh/a)	706868	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 48 °C	
		P in kW	D in kW	EER
Rating point A		587	217	2,69
Rating point B		546	133	4,04
Rating point C		511	88	5,72
Rating point D		470	56	8,09

Data Table BluAir duo 600 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 600 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,3	3,93
annual electrical cons.		Q (kWh/a)	592023	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		344	140	2,42
Rating point B		319	99	3,17
Rating point C		299	71	4,08
Rating point D		275	51	5,18

Data Table BluAir duo 600 (A)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 600 (A)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	3,71	2,89
annual electrical cons.		Q (kWh/a)	633770	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet 35 °C / 47 °C	
		P in kW	D in kW	EER
Rating point A		317	186	1,7
Rating point B		295	116	2,54
Rating point C		276	78	3,53
Rating point D		254	54	4,66

Data Table BluAir duo 700 (W)

Comfort Chiller
(7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 700 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	256	252
annual electrical cons.		Q (kWh/a)	127093	
Sound power level, outdoor		L_{wa}	92	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		799	178	4,38
Rating point B		591	103	5,5
Rating point C		375	46	7,4
Rating point D		168	21	6,64

Data Table BluAir duo 700 (A)

Comfort Chiller
(7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 700 (A)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo	187	179
annual electrical cons.		Q (kWh/a)	164919	
Sound power level, outdoor		L_{wa}	92	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 46 °C	
		P in kW	D in kW	EER
Rating point A		758	253	2,98
Rating point B		561	145	3,84
Rating point C		356	66	5,29
Rating point D		159	29	5,33

Data Table BluAir duo 700 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 700 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,1	8
annual electrical cons.		Q (kWh/a)	731010	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		799	178	4,38
Rating point B		743	121	5,94
Rating point C		695	83	7,98
Rating point D		639	63	9,43

Data Table BluAir duo 700 (A)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 700 (A)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo	6,08	5,5
annual electrical cons.		Q (kWh/a)	866915	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 46 °C	
		P in kW	D in kW	EER
Rating point A		710	259	2,72
Rating point B		661	162	4,02
Rating point C		618	107	5,63
Rating point D		568	69	7,95

Data Table BluAir duo 700 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 700 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	3,96	3,93
annual electrical cons.		Q (kWh/a)	741974	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		396	171	2,27
Rating point B		368	120	2,98
Rating point C		344	87	3,82
Rating point D		317	65	4,64

Data Table BluAir duo 700 (A)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 700 (A)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	3,47	2,89
annual electrical cons.		Q (kWh/a)	767596	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet 35 °C / 49 °C	
		P in kW	D in kW	EER
Rating point A		359	231	1,55
Rating point B		334	141	2,36
Rating point C		312	94	3,28
Rating point D		287	65	4,37

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Data Table BluAir duo 900 (W)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser : 	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 900 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	253	252
annual electrical cons.		Q (kWh/a)	151202	
Sound power level, outdoor		L_{wa}	92	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		941	209	4,36
Rating point B		696	120	5,51
Rating point C		442	53	7,33
Rating point D		198	23	6,5

Data Table BluAir duo 900 (A)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser : 	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 900 (A)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo	188	179
annual electrical cons.		Q (kWh/a)	189070	
Sound power level, outdoor		L_{wa}	92	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 47 °C	
		P in kW	D in kW	EER
Rating point A		873	290	3
Rating point B		646	168	3,81
Rating point C		410	76	5,31
Rating point D		183	32	5,43

Data Table BluAir duo 900 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 900 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,11	8
annual electrical cons.		Q (kWh/a)	860461	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		941	209	4,36
Rating point B		875	142	5,88
Rating point C		819	97	7,89
Rating point D		753	71	9,6

Data Table BluAir duo 900 (A)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 900 (A)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo	6,34	5,5
annual electrical cons.		Q (kWh/a)	1006522	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 49 °C	
		P in kW	D in kW	EER
Rating point A		860	302	2,83
Rating point B		800	192	4,14
Rating point C		748	127	5,84
Rating point D		688	81	8,39

Data Table BluAir duo 900 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser : 	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 900 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,28	3,93
annual electrical cons.		Q (kWh/a)	807121	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		466	187	2,45
Rating point B		434	132	3,19
Rating point C		406	96	4,06
Rating point D		373	69	5,13

Data Table BluAir duo 900 (A)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser : 	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 900 (A)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	3,7	2,89
annual electrical cons.		Q (kWh/a)	868990	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet 35 °C / 46 °C	
		P in kW	D in kW	EER
Rating point A		433	243	1,77
Rating point B		403	158	2,52
Rating point C		377	106	3,5
Rating point D		347	73	4,66

Data Table BluAir duo 1000 (W)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 1000 (W)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo <= 1500 kW	253	252
annual electrical cons.		Q (kWh/a)	163100	
Sound power level, outdoor		L_{wa}	96	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1013	223	4,4
Rating point B		750	127	5,56
Rating point C		476	59	7,14
Rating point D		213	24	6,62

Data Table BluAir duo 1000 (A)

Comfort Chiller (7°C)

Model : Capacity control:	screw variable			
Medium Condenser :	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 1000 (A)	Capacity	GEA	Legal Limit
Eta s,c		400 kW < Qo	185	179
annual electrical cons.		Q (kWh/a)	209917	
Sound power level, outdoor		L_{wa}	96	dB(A)
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 49 °C	
		P in kW	D in kW	EER
Rating point A		955	340	2,8
Rating point B		707	185	3,8
Rating point C		449	87	5,08
Rating point D		201	34	5,63

Data Table BluAir duo 1000 (W)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser : 	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 1000 (W)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo <= 1500 kW	8,03	8
annual electrical cons.		Q (kWh/a)	961427	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		1041	232	4,33
Rating point B		969	158	5,83
Rating point C		906	107	7,86
Rating point D		833	79	9,45

Data Table BluAir duo 1000 (A)

Process Chiller High temperature (7°C)

Model : Capacity control:	screw variable			
Medium Condenser : 	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 1000 (A)	Capacity	GEA	Legal Limit
SEPR		400 kW < Qo	6,33	5,5
annual electrical cons.		Q (kWh/a)	1078866	
Conditions		Evaporator Inlet/Outlet 12 °C / 7 °C	Condenser Inlet 35 °C / 48 °C	
		P in kW	D in kW	EER
Rating point A		921	337	2,72
Rating point B		856	209	4,07
Rating point C		801	136	5,81
Rating point D		737	85	8,5

Data Table BluAir duo 1000 (W)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser : 	Liquid	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 1000 (W)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	4,17	3,93
annual electrical cons.		Q (kWh/a)	895786	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet/Outlet 30 °C	
		P in kW	D in kW	EER
Rating point A		503	214	2,31
Rating point B		468	152	3,01
Rating point C		438	108	3,9
Rating point D		403	75	5,12

Data Table BluAir duo 1000 (A)

Process Chiller Medium temperature (-8°C)

Model : Capacity control:	screw variable			
Medium Condenser : 	Air	Medium Evaporator :	Liquid	
Refrigerant:	R717	GWP	kg CO2 eq	0
Model	BluAir duo 1000 (A)	Capacity	GEA	Legal Limit
SEPR		300 kW < Qo	3,61	2,89
annual electrical cons.		Q (kWh/a)	946734	
Conditions		Evaporator Inlet/Outlet -3 °C / -8 °C	Condenser Inlet 35 °C / 47 °C	
		P in kW	D in kW	EER
Rating point A		461	288	1,6
Rating point B		429	179	2,37
Rating point C		401	116	3,41
Rating point D		369	78	4,65

GEA Refrigeration Germany GmbH
Holzhauser Str. 165
13509 Berlin , Germany

Phone +49 30 43592-600