



Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH124E/4CES-9Y

Refrigerant: R134a

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	19951		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,39		

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	11,01		kW
Rated power input	D _A	4,45		kW
Rated COP	COP_A	2,48		

Point B: Parameters at part load and ambient temperature 25°C

Declared cooling capacity	P _B	12,01		kW
Declared power input	D _B	4,17		kW
Declared COP	COP_B	2,88		

Point C: Parameters at part load and ambient temperature 15°C

Declared cooling capacity	P _C	13,41		kW
Declared power input	D _C	3,70		kW
Declared COP	COP_C	3,63		

Point D: Parameters at part load and ambient temperature 5°C

Declared cooling capacity	P _D	14,65		kW
Declared power input	D _D	3,23		kW
Declared COP	COP_D	4,54		

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	9,43		kW
Declared power input	D _E	4,81		kW
Declared COP	COP_E	1,96		

Other items

Capacity control		—		
Reference temperature		Dew point temp.		
Suction gas temperature	toh	20°C		
Power voltage	Net	400V/50Hz		
Coefficient of degradation for units w/o capacity control**	Cdc	0,25		

Additional document: [Declaration of Conformity AC-500](#)

Contact details:

BITZER Kühlmaschinenbau GmbH
Peter-Schaufler-Platz 1
71065 Sindelfingen
Deutschland
Tel +49 (0) 70 31 932-0
Fax +49 (0) 70 31 932-147
E-Mail: bitzer@bitzer.de
Internet: www.bitzer.de

* Symbols taken from english version of the Regulation 2015/1095

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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH124E/4CES-9Y

Refrigerant: R404A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	34775	24478	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,19	1,83	

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	18,04	6,02	kW
Rated power input	D _A	8,05	4,50	kW
Rated COP	COP_A	2,24	1,34	

Point B: Parameters at part load and ambient temperature 25°C

Declared cooling capacity	P _B	20,1	6,88	kW
Declared power input	D _B	7,57	4,41	kW
Declared COP	COP_B	2,65	1,56	

Point C: Parameters at part load and ambient temperature 15°C

Declared cooling capacity	P _C	23,0	8,13	kW
Declared power input	D _C	6,77	4,22	kW
Declared COP	COP_C	3,40	1,93	

Point D: Parameters at part load and ambient temperature 5°C

Declared cooling capacity	P _D	25,9	9,34	kW
Declared power input	D _D	5,86	3,94	kW
Declared COP	COP_D	4,42	2,37	

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	14,84	4,75	kW
Declared power input	D _E	8,69	4,57	kW
Declared COP	COP_E	1,71	1,04	

Other items

Capacity control	—		
Reference temperature	Dew point temp.		
Suction gas temperature	toh	20°C	
Power voltage	Net	400V/50Hz	
Coefficient of degradation for units w/o capacity control**	Cdc	0,25	

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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH124E/4CES-9Y

Refrigerant: R407A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	31526	20902	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,15	1,62	

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	16,17	4,55	kW
Rated power input	D _A	7,21	3,72	kW
Rated COP	COP_A	2,24	1,22	

Point B: Parameters at part load and ambient temperature 25°C

Declared cooling capacity	P _B	17,87	5,22	kW
Declared power input	D _B	6,78	3,68	kW
Declared COP	COP_B	2,64	1,42	

Point C: Parameters at part load and ambient temperature 15°C

Declared cooling capacity	P _C	20,3	6,16	kW
Declared power input	D _C	6,06	3,58	kW
Declared COP	COP_C	3,35	1,72	

Point D: Parameters at part load and ambient temperature 5°C

Declared cooling capacity	P _D	22,7	6,99	kW
Declared power input	D _D	5,23	3,41	kW
Declared COP	COP_D	4,34	2,05	

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	13,55	3,57	kW
Declared power input	D _E	7,76	3,70	kW
Declared COP	COP_E	1,75	0,96	

Other items

Capacity control		—		
Reference temperature		Dew point temp.		
Suction gas temperature	to _h	20°C		
Power voltage	Net	400V/50Hz		
Coefficient of degradation for units w/o capacity control**	C _{dc}	0,25		

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SEPR Declaration Model: LH124E/4CES-9Y

Refrigerant: R407C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	29939		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,17		

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	15,45		kW
Rated power input	D _A	6,75		kW
Rated COP	COP_A	2,29		

Point B: Parameters at part load and ambient temperature 25°C

Declared cooling capacity	P _B	17,01		kW
Declared power input	D _B	6,36		kW
Declared COP	COP_B	2,67		

Point C: Parameters at part load and ambient temperature 15°C

Declared cooling capacity	P _C	19,21		kW
Declared power input	D _C	5,70		kW
Declared COP	COP_C	3,37		

Point D: Parameters at part load and ambient temperature 5°C

Declared cooling capacity	P _D	21,4		kW
Declared power input	D _D	4,93		kW
Declared COP	COP_D	4,33		

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	12,98		kW
Declared power input	D _E	7,21		kW
Declared COP	COP_E	1,80		

Other items

Capacity control		—		
Reference temperature		Dew point temp.		
Suction gas temperature	toh	20°C		
Power voltage	Net	400V/50Hz		
Coefficient of degradation for units w/o capacity control**	Cdc	0,25		

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SEPR Declaration Model: LH124E/4CES-9Y

Refrigerant: R407F

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	33588	21919	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,13	1,65	

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	17,08	4,85	kW
Rated power input	D _A	7,66	3,91	kW
Rated COP	COP_A	2,23	1,24	

Point B: Parameters at part load and ambient temperature 25°C

Declared cooling capacity	P _B	18,78	5,53	kW
Declared power input	D _B	7,19	3,86	kW
Declared COP	COP_B	2,61	1,43	

Point C: Parameters at part load and ambient temperature 15°C

Declared cooling capacity	P _C	21,2	6,51	kW
Declared power input	D _C	6,41	3,74	kW
Declared COP	COP_C	3,31	1,74	

Point D: Parameters at part load and ambient temperature 5°C

Declared cooling capacity	P _D	23,7	7,40	kW
Declared power input	D _D	5,51	3,54	kW
Declared COP	COP_D	4,30	2,09	

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	14,43	3,83	kW
Declared power input	D _E	8,26	3,90	kW
Declared COP	COP_E	1,75	0,98	

Other items

Capacity control	—		
Reference temperature	Dew point temp.		
Suction gas temperature	toh	20°C	
Power voltage	Net	400V/50Hz	
Coefficient of degradation for units w/o capacity control**	Cdc	0,25	

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SEPR Declaration Model: LH124E/4CES-9Y

Refrigerant: R454C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	29464	20504	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,08	1,58	

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	14,78	4,34	kW
Rated power input	D _A	6,71	3,60	kW
Rated COP	COP_A	2,20	1,21	

Point B: Parameters at part load and ambient temperature 25°C

Declared cooling capacity	P _B	16,36	4,95	kW
Declared power input	D _B	6,32	3,57	kW
Declared COP	COP_B	2,59	1,39	

Point C: Parameters at part load and ambient temperature 15°C

Declared cooling capacity	P _C	18,62	5,83	kW
Declared power input	D _C	5,67	3,48	kW
Declared COP	COP_C	3,28	1,67	

Point D: Parameters at part load and ambient temperature 5°C

Declared cooling capacity	P _D	20,8	6,59	kW
Declared power input	D _D	4,92	3,33	kW
Declared COP	COP_D	4,24	1,98	

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	12,34	3,41	kW
Declared power input	D _E	7,21	3,58	kW
Declared COP	COP_E	1,71	0,95	

Other items

Capacity control	—		
Reference temperature	Dew point temp.		
Suction gas temperature	toh	20°C	
Power voltage	Net	400V/50Hz	
Coefficient of degradation for units w/o capacity control**	Cdc	0,25	

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SEPR Declaration Model: LH124E/4CES-9Y

Refrigerant: R455A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	32826	21194	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,71	1,47	

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	14,49	4,17	kW
Rated power input	D _A	7,39	3,78	kW
Rated COP	COP_A	1,96	1,10	

Point B: Parameters at part load and ambient temperature 25°C

Declared cooling capacity	P _B	16,15	4,82	kW
Declared power input	D _B	7,02	3,78	kW
Declared COP	COP_B	2,30	1,27	

Point C: Parameters at part load and ambient temperature 15°C

Declared cooling capacity	P _C	18,55	5,77	kW
Declared power input	D _C	6,39	3,71	kW
Declared COP	COP_C	2,90	1,56	

Point D: Parameters at part load and ambient temperature 5°C

Declared cooling capacity	P _D	20,9	6,70	kW
Declared power input	D _D	5,65	3,57	kW
Declared COP	COP_D	3,71	1,87	

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	--	--	kW
Declared power input	D _E	--	--	kW
Declared COP	COP_E	--	--	

Other items

Capacity control		—		
Reference temperature		Dew point temp.		
Suction gas temperature	toh	20°C		
Power voltage	Net	400V/50Hz		
Coefficient of degradation for units w/o capacity control**	Cdc	0,25		

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Peter-Schaufler-Platz 1
71065 Sindelfingen
Deutschland
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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH124E/4CES-9Y

Refrigerant: R507A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	34852	24489	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,26	1,92	

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	18,49	6,30	kW
Rated power input	D _A	8,07	4,51	kW
Rated COP	COP_A	2,29	1,40	

Point B: Parameters at part load and ambient temperature 25°C

Declared cooling capacity	P _B	20,6	7,20	kW
Declared power input	D _B	7,59	4,42	kW
Declared COP	COP_B	2,72	1,63	

Point C: Parameters at part load and ambient temperature 15°C

Declared cooling capacity	P _C	23,6	8,51	kW
Declared power input	D _C	6,80	4,22	kW
Declared COP	COP_C	3,48	2,02	

Point D: Parameters at part load and ambient temperature 5°C

Declared cooling capacity	P _D	26,7	9,79	kW
Declared power input	D _D	5,90	3,95	kW
Declared COP	COP_D	4,52	2,48	

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	15,16	4,97	kW
Declared power input	D _E	8,70	4,57	kW
Declared COP	COP_E	1,74	1,09	

Other items

Capacity control		—		
Reference temperature		Dew point temp.		
Suction gas temperature	to _h	20°C		
Power voltage	Net	400V/50Hz		
Coefficient of degradation for units w/o capacity control**	C _{dc}	0,25		

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SEPR Declaration Model: LH124E/4CES-9Y

Refrigerant: R448A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	32561	22005	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,15	1,66	

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	16,70	4,89	kW
Rated power input	D _A	7,46	3,92	kW
Rated COP	COP_A	2,24	1,25	

Point B: Parameters at part load and ambient temperature 25°C

Declared cooling capacity	P _B	18,42	5,58	kW
Declared power input	D _B	7,00	3,88	kW
Declared COP	COP_B	2,63	1,44	

Point C: Parameters at part load and ambient temperature 15°C

Declared cooling capacity	P _C	20,9	6,56	kW
Declared power input	D _C	6,24	3,75	kW
Declared COP	COP_C	3,35	1,75	

Point D: Parameters at part load and ambient temperature 5°C

Declared cooling capacity	P _D	23,3	7,46	kW
Declared power input	D _D	5,37	3,56	kW
Declared COP	COP_D	4,34	2,10	

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	14,03	3,87	kW
Declared power input	D _E	8,05	3,91	kW
Declared COP	COP_E	1,74	0,99	

Other items

Capacity control		—		
Reference temperature		Dew point temp.		
Suction gas temperature	to _h	20°C		
Power voltage	Net	400V/50Hz		
Coefficient of degradation for units w/o capacity control**	C _{dc}	0,25		

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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH124E/4CES-9Y

Refrigerant: R449A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	32511	21986	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,14	1,66	

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	16,62	4,89	kW
Rated power input	D _A	7,45	3,92	kW
Rated COP	COP_A	2,23	1,25	

Point B: Parameters at part load and ambient temperature 25°C

Declared cooling capacity	P _B	18,34	5,57	kW
Declared power input	D _B	7,00	3,88	kW
Declared COP	COP_B	2,62	1,44	

Point C: Parameters at part load and ambient temperature 15°C

Declared cooling capacity	P _C	20,8	6,56	kW
Declared power input	D _C	6,24	3,75	kW
Declared COP	COP_C	3,34	1,75	

Point D: Parameters at part load and ambient temperature 5°C

Declared cooling capacity	P _D	23,3	7,47	kW
Declared power input	D _D	5,37	3,56	kW
Declared COP	COP_D	4,33	2,10	

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	13,95	3,86	kW
Declared power input	D _E	8,05	3,91	kW
Declared COP	COP_E	1,73	0,99	

Other items

Capacity control	—		
Reference temperature	Dew point temp.		
Suction gas temperature	toh	20°C	
Power voltage	Net	400V/50Hz	
Coefficient of degradation for units w/o capacity control**	Cdc	0,25	

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SEPR Declaration Model: LH124E/4CES-9Y

Refrigerant: R450A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	18070		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,28		

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	9,65		kW
Rated power input	D _A	4,00		kW
Rated COP	COP_A	2,41		

Point B: Parameters at part load and ambient temperature 25°C

Declared cooling capacity	P _B	10,53		kW
Declared power input	D _B	3,75		kW
Declared COP	COP_B	2,81		

Point C: Parameters at part load and ambient temperature 15°C

Declared cooling capacity	P _C	11,78		kW
Declared power input	D _C	3,34		kW
Declared COP	COP_C	3,53		

Point D: Parameters at part load and ambient temperature 5°C

Declared cooling capacity	P _D	12,81		kW
Declared power input	D _D	2,95		kW
Declared COP	COP_D	4,34		

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	8,23		kW
Declared power input	D _E	4,33		kW
Declared COP	COP_E	1,90		

Other items

Capacity control		—		
Reference temperature		Dew point temp.		
Suction gas temperature	toh	20°C		
Power voltage	Net	400V/50Hz		
Coefficient of degradation for units w/o capacity control**	Cdc	0,25		

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Refrigerant: R513A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	20769		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,45		

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	11,65		kW
Rated power input	D _A	4,69		kW
Rated COP	COP_A	2,49		

Point B: Parameters at part load and ambient temperature 25°C

Declared cooling capacity	P _B	12,77		kW
Declared power input	D _B	4,39		kW
Declared COP	COP_B	2,91		

Point C: Parameters at part load and ambient temperature 15°C

Declared cooling capacity	P _C	14,32		kW
Declared power input	D _C	3,91		kW
Declared COP	COP_C	3,67		

Point D: Parameters at part load and ambient temperature 5°C

Declared cooling capacity	P _D	15,80		kW
Declared power input	D _D	3,37		kW
Declared COP	COP_D	4,68		

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	9,87		kW
Declared power input	D _E	5,06		kW
Declared COP	COP_E	1,95		

Other items

Capacity control		—		
Reference temperature		Dew point temp.		
Suction gas temperature	to _h	20°C		
Power voltage	Net	400V/50Hz		
Coefficient of degradation for units w/o capacity control**	C _{dc}	0,25		

Additional document: [Declaration of Conformity AC-500](#)

Contact details:

BITZER Kühlmaschinenbau GmbH
Peter-Schaufler-Platz 1
71065 Sindelfingen
Deutschland
Tel +49 (0) 70 31 932-0
Fax +49 (0) 70 31 932-147
E-Mail: bitzer@bitzer.de
Internet: www.bitzer.de

* Symbols taken from english version of the Regulation 2015/1095

** Since condensing units are non functional systems C_{dc} can not be determined by test. For this reason the default degradation coefficient C_{dc} (0.25) has to be applied according to EN 13215, Annex A.



Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH124E/4CES-9Y

Refrigerant: R1234yf

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	20147		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,42		

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	11,22		kW
Rated power input	D _A	4,59		kW
Rated COP	COP_A	2,45		

Point B: Parameters at part load and ambient temperature 25°C

Declared cooling capacity	P _B	12,34		kW
Declared power input	D _B	4,29		kW
Declared COP	COP_B	2,87		

Point C: Parameters at part load and ambient temperature 15°C

Declared cooling capacity	P _C	13,91		kW
Declared power input	D _C	3,81		kW
Declared COP	COP_C	3,65		

Point D: Parameters at part load and ambient temperature 5°C

Declared cooling capacity	P _D	15,39		kW
Declared power input	D _D	3,30		kW
Declared COP	COP_D	4,67		

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	9,46		kW
Declared power input	D _E	4,98		kW
Declared COP	COP_E	1,90		

Other items

Capacity control		—		
Reference temperature		Dew point temp.		
Suction gas temperature	toh	20°C		
Power voltage	Net	400V/50Hz		
Coefficient of degradation for units w/o capacity control**	Cdc	0,25		

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Peter-Schaufler-Platz 1
71065 Sindelfingen
Deutschland
Tel +49 (0) 70 31 932-0
Fax +49 (0) 70 31 932-147
E-Mail: bitzer@bitzer.de
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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH124E/4CES-9Y

Refrigerant: R1234ze

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	16427		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,12		

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	8,34		kW
Rated power input	D _A	3,50		kW
Rated COP	COP_A	2,38		

Point B: Parameters at part load and ambient temperature 25°C

Declared cooling capacity	P _B	9,07		kW
Declared power input	D _B	3,28		kW
Declared COP	COP_B	2,76		

Point C: Parameters at part load and ambient temperature 15°C

Declared cooling capacity	P _C	10,10		kW
Declared power input	D _C	2,93		kW
Declared COP	COP_C	3,45		

Point D: Parameters at part load and ambient temperature 5°C

Declared cooling capacity	P _D	10,68		kW
Declared power input	D _D	2,72		kW
Declared COP	COP_D	3,93		

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	7,18		kW
Declared power input	D _E	3,79		kW
Declared COP	COP_E	1,89		

Other items

Capacity control		—		
Reference temperature		Dew point temp.		
Suction gas temperature	toh	20°C		
Power voltage	Net	400V/50Hz		
Coefficient of degradation for units w/o capacity control**	Cdc	0,25		

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71065 Sindelfingen
Deutschland
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