

Air Cooled Chiller

SLS STD/HE 1402-8404

 293-1687 kW

 HFC 134a

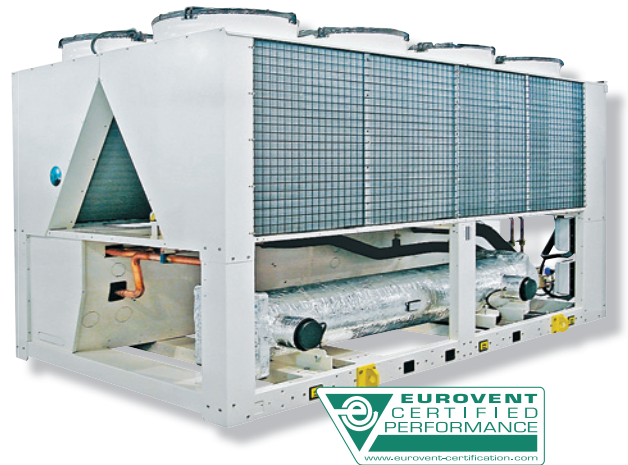
 Screw

Technical features

- 17 sizes STD and 18 sizes HE.
- Cooling capacity from 293 to 1687 kW.
- 2 versions:
 - STD (Standard);
 - HE (High Efficiency).
- 3 acoustic versions:
 - BLN (Basic Low Noise);
 - LN (Low Noise);
 - ELN (Extra Low Noise).
- Two or four refrigerant circuits.
- Screw compressors.

Accessories and options

- Hydrokit with 1 or 2 pumps with or without buffer tank.
- Desuperheater and total heat recovery.
- Coils treatments.
- Unit protection grilles.
- Sofstart.
- BMS interface.
- Flow switch.
- Water filter.
- Fan speed control (-18°C).
- Power factor corrector capacitors.
- Sequence phases control as standard.
- Mechanical gauges kit.
- Compressors acoustic box as standard.
- Compressors stepless control.



Operating limit**SLS STD 1402-1902**

SLS STD		1402		1602		1802		1902		2002	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Leaving water temperature	Water	°C from +5 to +15									
	Δ T	K from 3 to 8									
Air temperature	BLN	°C from -5(2) to 45		°C from -5(2) to 44		°C from -5(2) to 45		°C from -5(2) to 44		°C from -5(2) to 45	
	LN	°C from -5(2) to 42		°C from -5(2) to 41		°C from -5(2) to 42		°C from -5(2) to 41		°C from -5(2) to 42	
	ELN	°C from -18 to 42		°C from -18 to 41		°C from -18 to 42		°C from -18 to 41		°C from -18 to 42	
External static pressure	Standard fans	Pa 0									
	High pressure fans (HPF)	Pa 100									

(2) Minimum air temperature -18°C with fan speed control (option).

SLS STD 2202-5404

SLS STD		2202		2502		2702		5004		2002		5404	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Leaving water temperature	Water	°C from +5 to +15											
	Δ T	K from 3 to 8											
Air temperature	BLN	°C from -5 (2) to 44		°C from -5 (2) to 43		°C from -5 (2) to 43		°C from -5 (2) to 44		°C from -5 (2) to 43		°C from -5 (2) to 43	
	LN	°C from -5 (2) to 41		°C from -5 (2) to 40		°C from -5 (2) to 40		°C from -5 (2) to 41		°C from -5 (2) to 40		°C from -5 (2) to 40	
	ELN	°C from -18 to 41		°C from -18 to 40		°C from -18 to 40		°C from -18 to 41		°C from -18 to 40		°C from -18 to 40	
External static pressure	Standard fans	Pa 0											
	High pressure fans (HPF)	Pa 100											

(2) Minimum air temperature -18°C with fan speed control (option).

SLS STD 5704-8404

SLS STD		5704		6004		6404		6804		7204		8404	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Leaving water temperature	Water	°C from +5 to +15											
	Δ T	K from 3 to 8											
Air temperature	BLN	°C from -5 (2) to 43		°C from -5 (2) to 45		°C from -5 (2) to 45		°C from -5 (2) to 45		°C from -5 (2) to 45		°C from -5 (2) to 43	
	LN	°C from -5 (2) to 40		°C from -5 (2) to 42		°C from -5 (2) to 42		°C from -5 (2) to 42		°C from -5 (2) to 42		°C from -5 (2) to 40	
	ELN	°C from -18 to 40		°C from -18 to 42		°C from -18 to 42		°C from -18 to 42		°C from -18 to 42		°C from -18 to 40	
External static pressure	Standard fans	Pa 0											
	High pressure fans (HPF)	Pa 100											

(2) Minimum air temperature -18°C with fan speed control (option).

Operating limit

SLS HE 1402-2402

SLS HE		1402		1602		1802		1902		2002		2402	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Leaving water temperature	Water	°C from +5 to +15											
	Δ T	K from 3 to 8											
Air temperature	BLN	°C	from -5 (2) to 48	from -5 (2) to 47	from -5 (2) to 47	from -5 (2) to 47	from -5 (2) to 47	from -5 (2) to 47	from -5 (2) to 47	from -5 (2) to 47	from -5 (2) to 48	from -5 (2) to 48	from -5 (2) to 48
	LN	°C	from -5 (2) to 45	from -5 (2) to 44	from -5 (2) to 44	from -5 (2) to 44	from -5 (2) to 44	from -5 (2) to 44	from -5 (2) to 44	from -5 (2) to 44	from -5 (2) to 44	from -5 (2) to 45	from -5 (2) to 45
	ELN	°C	from -18 to 45	from -18 to 44	from -18 to 44	from -18 to 44	from -18 to 44	from -18 to 44	from -18 to 44	from -18 to 44	from -18 to 44	from -18 to 45	from -18 to 45
External static pressure	Standard fans	Pa	0										
	High pressure fans (HPF)	Pa	100										

(2) Minimum Air Temperature -18°C with fan speed control (option).

SLS HE 2602-5604

SLS HE		2602		4602		4802		4804		5204		5604	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Leaving water temperature	Water	°C from +5 to +15											
	Δ T	K from 3 to 8											
Air temperature	BLN	°C	from -5 (2) to 48	from -5 (2) to 47	from -5 (2) to 47	from -5 (2) to 48	from -5 (2) to 48	from -5 (2) to 48	from -5 (2) to 48	from -5 (2) to 48	from -5 (2) to 48	from -5 (2) to 48	from -5 (2) to 48
	LN	°C	from -5 (2) to 45	from -5 (2) to 44	from -5 (2) to 44	from -5 (2) to 45	from -5 (2) to 45	from -5 (2) to 45	from -5 (2) to 45	from -5 (2) to 45	from -5 (2) to 45	from -5 (2) to 45	from -5 (2) to 45
	ELN	°C	from -18 to 45	from -18 to 44	from -18 to 44	from -18 to 45	from -18 to 45	from -18 to 45	from -18 to 45	from -18 to 45	from -18 to 45	from -18 to 45	from -18 to 45
External static pressure	Standard fans	Pa	0										
	High pressure fans (HPF)	Pa	100										

(2) Minimum Air Temperature -18°C with fan speed control (option).

SLS HE 6004-8404

SLS HE		6004		6404		6804		7204		7804		8404	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Leaving water temperature	Water	°C from +5 to +15											
	Δ T	K from 3 to 8											
Air temperature	BLN	°C	from -5 (2) to 47	from -5 (2) to 47	from -5 (2) to 47	from -5 (2) to 44	from -5 (2) to 44	from -5 (2) to 44	from -5 (2) to 44	from -5 (2) to 44	from -5 (2) to 44	from -5 (2) to 44	from -5 (2) to 44
	LN	°C	from -5 (2) to 44	from -5 (2) to 44	from -5 (2) to 41	from -5 (2) to 41	from -5 (2) to 41	from -5 (2) to 41	from -5 (2) to 41	from -5 (2) to 41	from -5 (2) to 41	from -5 (2) to 41	from -5 (2) to 41
	ELN	°C	from -18 to 44	from -18 to 44	from -18 to 41	from -18 to 41	from -18 to 41	from -18 to 41	from -18 to 41	from -18 to 41	from -18 to 41	from -18 to 41	from -18 to 41
External static pressure	Standard fans	Pa	0										
	High pressure fans (HPF)	Pa	100										

(2) Minimum Air Temperature -18°C with fan speed control (option).

Technical feature SLS STD 1402-2702 BLN

Model SLS STD BLN		1402	1602	1802	1902	2002	2202	2502	2702
Cooling capacity (1)	kW	293,0	326,2	365,6	410,6	455,5	480,5	513,6	546,8
Power input	kW	95,8	111,8	126,2	150,4	159,6	175,6	189,6	203,6
GROSS EER		3,10	2,90	2,90	2,70	2,90	2,70	2,70	2,70
EER		2,80	2,47	2,46	2,70	2,62	2,48	2,57	2,49
ESEER		3,25	2,87	2,85	3,13	3,04	2,88	2,98	2,89
Number of refrigerant circuits		2	2	2	2	2	2	2	2
Part load steps	%	6	6	6	6	6	6	6	6
Compressor									
Qty		2	2	2	2	2	2	2	2
Type		Screw							
Evaporator									
Qty		1	1	1	1	1	1	1	1
Type		Shell & Tube							
Water flow	l/h	50.396	56.106	62.883	70.623	78.346	82.646	88.339	94.049
Inlet/outlet diameter	inch	5"	5"	5"	5"	6"	6"	6"	6"
Condenser									
Qty		4	4	4	4	4	4	4	4
Frontal surface	mm ²	4	4	4	4	4	4	4	4
Number of rows		3	3	3	3	4	4	4	4
Fan									
Qty		4	4	6	7	8	8	8	8
Air flow	m ³ /h	95.000	95.000	131.800	134.900	138.000	138.000	138.000	138.000
Speed	rpm/min	900	900	900	900	900	900	900	900
Power input	kW	7,2	7,2	10,8	12,6	14,4	14,4	14,4	14,4
Weight									
Shipping	kg	3.529	3.547	3.629	4.068	4.587	4.587	4.609	4.627
Operating	kg	3.625	3.643	3.716	4.207	4.680	4.689	4.738	4.755
Dimensions									
Length	mm	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Width	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
Height	mm	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550
Acoustical data									
Sound power level (3)	dB(A)	96	96	97	98	98	98	98	98
Sound pressure level at 10 m (4)	dB(A)	64	64	65	66	66	66	66	66

(1) Data based on 7°C leaving chilled water temperature and 35°C ambient air temperature.

(3) Acoustic data are at full load. Sound power values in accordance with ISO 3744 and Eurovent 8/1. Tolerance +2dBA.

(4) Pressure power values in accordance with ISO 3744.

GROSS EER: efficiency in cooling mode without considering the available head of the pump or the pressure drop of the heat exchanger.

EER: efficiency in cooling unit according to EN14511-2011.

Technical feature SLS STD 4802-8404 BLN

Model SLS STD BLN		4802	5004	5404	5704	6004	6404	6804	7204	8404
Cooling capacity (1)	kW	962,4	1027,2	1093,6	1167,1	1240,6	1320,0	1437,2	1517,6	1646,6
Power input	kW	312,9	355,8	382,2	385,3	388,4	430,2	469,2	508,2	579,0
GROSS EER		3,10	2,90	2,90	3,00	3,20	3,10	3,10	3,00	2,80
Number of refrigerant circuits		2	4	4	4	4	4	4	4	4
Part load steps	%	6	9	9	9	9	9	9	9	9
Compressor										
Qty		2	4	4	4	4	4	4	4	4
Type		Screw								
Evaporator										
Qty		1	2	2	2	2	2	2	2	2
Type		Shell & Tube								
Water flow	l/h	165.532	176.678	188.099	200.741	213.383	227.040	247.198	261.027	283.215
Inlet/outlet diameter	inch	8"	6"	6"	6"	6"	8"	8"	8"	8"
Condenser										
Qty		4	8	8	8	8	8	8	8	8
Frontal surface	mm ²	8	8	8	10	12	12	12	12	12
Number of rows		4	4	4	3/4	3	3	3/4	4	4
Fan										
Qty		14	16	16	20	24	24	24	24	24
Air flow	m ³ /h	275.000	276.000	276.000	369.000	462.000	462.000	450.000	440.000	440.000
Speed	rpm/min	900	900	900	900	900	900	900	900	900
Power input	kW	25,2	28,8	28,8	36	43,2	43,2	43,2	43,2	43,2
Weight										
Shipping	kg	8.791	9.218	9.254	10.856	12.449	13.205	13.534	13.831	14.072
Operating	kg	9.172	9.467	9.503	11.207	12.912	13.639	13.950	14.247	14.442
Dimensions										
Length	mm	8.000	8.000	8.000	10.000	12.000	12.000	12.000	12.000	12.000
Width	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
Height	mm	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550
Acoustical data										
Sound power level (3)	dB(A)	100	101	101	102	103	103	103	103	103
Sound pressure level at 10 m (4)	dB(A)	68	69	69	69	70	70	70	70	70

(1) Data based on 7°C leaving chilled water temperature and 35°C ambient air temperature.
 (3) Acoustic data are at full load. Sound power values in accordance with ISO 3744 and Eurovent 8/1. Tolerance +2dBA.
 (4) Pressure power values in accordance with ISO 3744.
 GROSS EER: efficiency in cooling mode without considering the available head of the pump or the pressure drop of the heat exchanger.

Technical feature SLS STD 1402-2702 LN

Model SLS STD LN		1402	1602	1802	1902	2002	2202	2502	2702
Cooling capacity (1)	kW	275,4	306,6	343,7	386,0	428,2	451,7	482,8	514,0
Power input	kW	95,7	111,4	125,6	144,3	158,2	174,6	188,6	202,6
GROSS EER		2,90	2,80	2,70	2,70	2,70	2,60	2,60	2,50
EER		2,71	2,60	2,55	2,50	2,52	2,42	2,41	2,39
ESEER		3,52	3,38	3,31	3,25	3,28	3,15	3,13	3,11
Number of refrigerant circuits		2	2	2	2	2	2	2	2
Part load steps	%	6	6	6	6	6	6	6	6
Compressor									
Qty		2	2	2	2	2	2	2	2
Type		Screw							
Evaporator									
Qty		1	1	1	1	1	1	1	1
Type		Shell & Tube							
Water flow	l/h	47.368	52.735	59.116	66.392	73.650	77.692	83.041	88.408
Inlet/outlet diameter	inch	5"	5"	5"	5"	6"	6"	6"	6"
Condenser									
Qty		4	4	4	4	4	4	4	4
Frontal surface	mm ²	4	4	4	4	4	4	4	4
Number of rows		3	3	3	3	4	4	4	4
Fan									
Qty		4	4	6	7	8	8	8	8
Air flow	m ³ /h	64.600	64.600	89.624	91.732	93.840	93.840	93.840	93.840
Speed	rpm/min	700	700	700	700	700	700	700	700
Power input	kW	5	5	7,5	8,75	10	10	10	10
Weight									
Shipping	kg	3.637	3.655	3.737	4.176	4.695	4.695	4.717	4.735
Operating	kg	3.733	3.751	3.824	4.315	4.788	4.797	4.846	4.864
Dimensions									
Length	mm	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Width	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
Height	mm	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550
Acoustical data									
Sound power level (3)	dB(A)	91	91	92	92	92	92	92	92
Sound pressure level at 10 m (4)	dB(A)	59	59	60	60	60	60	60	60

(1) Data based on 7°C leaving chilled water temperature and 35°C ambient air temperature.

(3) Acoustic data are at full load. Sound power values in accordance with ISO 3744 and Eurovent 8/1. Tolerance +2dBA.

(4) Pressure power values in accordance with ISO 3744.

GROSS EER: efficiency in cooling mode without considering the available head of the pump or the pressure drop of the heat exchanger.

EER: efficiency in cooling unit according to EN14511-2011.

Technical feature SLS STD 4202-8404 LN

Model SLS STD LN		4802	5004	5404	5704	6004	6404	6804	7204	8404
Cooling capacity (1)	kW	904,7	965,6	1.028,0	1.097,1	1.166,2	1.240,8	1.351,0	1.426,5	1.547,8
Power input	kW	331,7	377,1	405,1	408,4	411,7	456,0	497,4	538,7	613,7
GROSS EER		2,70	2,60	2,50	2,70	2,80	2,70	2,70	2,60	2,50
Number of refrigerant circuits		2	4	4	4	4	4	4	4	4
Part load steps	%	6	9	9	9	9	9	9	9	9
Compressor										
Qty		2	4	4	4	4	4	4	4	4
Type		Screw								
Evaporator										
Qty		1	2	2	2	2	2	2	2	2
Type		Shell & Tube								
Water flow	l/h	155.608	166.083	176.816	188.701	200.586	213.417	232.372	245.358	266.221
Inlet/outlet diameter	inch	8"	6"	6"	6"	6"	8"	8"	8"	8"
Condenser										
Qty		4	8	8	8	8	8	8	8	8
Frontal surface	mm ²	8	8	8	10	12	12	12	12	12
Number of rows		4	4	4	3/4	3	3	3/4	4	4
Fan										
Qty		14	16	16	20	24	24	24	24	24
Air flow	m ³ /h	187.000	187.680	187.680	250.920	314.160	314.160	306.000	299.200	299.200
Speed	rpm/min	700	700	700	700	700	700	700	700	700
Power input	kW	17,5	20	20	25	30	30	30	30	30
Weight										
Shipping	kg	9.065	9.434	9.470	11.072	12.665	13.421	13.750	14.047	14.288
Operating	kg	9.446	9.683	9.719	11.423	13.128	13.855	14.166	14.463	14.658
Dimensions										
Length	mm	8.000	8.000	8.000	10.000	12.000	12.000	12.000	12.000	12.000
Width	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
Height	mm	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550
Acoustical data										
Sound power level (3)	dB(A)	94	95	95	96	97	97	97	97	97
Sound pressure level at 10 m (4)	dB(A)	62	63	63	63	64	64	64	64	64

(1) Data based on 7°C leaving chilled water temperature and 35°C ambient air temperature.
 (3) Acoustic data are at full load. Sound power values in accordance with ISO 3744 and Eurovent 8/1. Tolerance +2dBA.
 (4) Pressure power values in accordance with ISO 3744.
 GROSS EER: efficiency in cooling mode without considering the available head of the pump or the pressure drop of the heat exchanger.

Technical feature SLS STD 1402-2602 ELN

Model SLS STD ELN		1402	1602	1802	1902	2002	2202	2502	2702
Cooling capacity (1)	kW	275,4	306,6	343,7	386,0	428,2	451,7	482,8	514,0
Power input	kW	95,7	111,4	125,6	144,3	158,2	174,6	188,6	202,6
GROSS EER		2,90	2,80	2,70	2,70	2,70	2,60	2,60	2,50
EER		2,58	2,48	2,43	2,39	2,41	2,31	2,30	2,28
ESEER		3,36	3,22	3,16	3,11	3,13	3,01	2,98	2,96
Number of refrigerant circuits		2	2	2	2	2	2	2	2
Part load steps	%	6	6	6	6	6	6	6	6
Compressor									
Qty		2	2	2	2	2	2	2	2
Type		Screw							
Evaporator									
Qty		1	1	1	1	1	1	1	1
Type		Shell & Tube							
Water flow	l/h	47.368	52.735	59.116	66.392	73.650	77.692	83.041	88.408
Inlet/outlet diameter	inch	5"	5"	5"	5"	6"	6"	6"	6"
Condenser									
Qty		4	4	4	4	4	4	4	4
Frontal surface	mm ²	4	4	4	4	4	4	4	4
Number of rows		3	3	3	3	4	4	4	4
Fan									
Qty		4	4	6	7	8	8	8	8
Air flow	m ³ /h	64.600	64.600	89.624	91.732	93.840	93.840	93.840	93.840
Speed	rpm/min	700	700	700	700	700	700	700	700
Power input	kW	5	5	7,5	8,75	10	10	10	10
Weight									
Shipping	kg	3.637	3.655	3.737	4.176	4.695	4.695	4.717	4.735
Operating	kg	3.733	3.751	3.824	4.315	4.788	4.797	4.846	4.864
Dimensions									
Length	mm	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Width	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
Height	mm	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550
Acoustical data									
Sound power level (3)	dB(A)	87	87	88	88	88	88	88	88
Sound pressure level at 10 m (4)	dB(A)	55	55	56	56	56	56	56	56

(1) Data based on 7°C leaving chilled water temperature and 35°C ambient air temperature.

(3) Acoustic data are at full load. Sound power values in accordance with ISO 3744 and Eurovent 8/1. Tolerance +2dBA.

(4) Pressure power values in accordance with ISO 3744.

GROSS EER: efficiency in cooling mode without considering the available head of the pump or the pressure drop of the heat exchanger.

EER: efficiency in cooling unit according to EN14511-2011.

Technical feature SLS STD 4802-8404 ELN

Model SLS STD ELN		4802	5004	5404	5704	6004	6404	6804	7204	8404
Cooling capacity (1)	kW	904,7	965,6	1.028,0	1.097,1	1.166,2	1.240,8	1.351,0	1.426,5	1.547,8
Power input	kW	331,7	377,1	405,1	408,4	411,7	456,0	497,4	538,7	613,7
GROSS EER		2,70	2,60	2,50	2,70	2,80	2,70	2,70	2,60	2,50
Number of refrigerant circuits		2	4	4	4	4	4	4	4	4
Part load steps	%	6	9	9	9	9	9	9	9	9
Compressor										
Qty		2	4	4	4	4	4	4	4	4
Type		Screw								
Evaporator										
Qty		1	2	2	2	2	2	2	2	2
Type		Shell & Tube								
Water flow	l/h	155.608	166.083	17.681	188.701	200.586	213.417	232.372	245.358	266.221
Inlet/outlet diameter	inch	8"	6"	6"	6"	6"	8"	8"	8"	8"
Condenser										
Qty		4	8	8	8	8	8	8	8	8
Frontal surface	mm ²	8	8	8	10	12	12	12	12	12
Number of rows		4	4	4	3/4	3	3	3/4	4	4
Fan										
Qty		14	16	16	20	24	24	24	24	24
Air flow	m ³ /h	187.000	187.680	187.680	250.920	314.160	314.160	306.000	299.200	299.200
Speed	rpm/min	700	700	700	700	700	700	700	700	700
Power input	kW	17,5	20	20	25	30	30	30	30	30
Weight										
Shipping	kg	9.065	9.434	9.470	11.072	12.665	13.421	13.750	14.047	14.288
Operating	kg	9.446	9.683	9.719	11.423	13.128	13.855	14.166	14.463	14.658
Dimensions										
Length	mm	8.000	8.000	8.000	10.000	12.000	12.000	12.000	12.000	12.000
Width	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
Height	mm	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550
Acoustical data										
Sound power level (3)	dB(A)	90	91	91	92	93	93	93	93	93
Sound pressure level at 10 m (4)	dB(A)	58	59	59	59	60	60	60	60	60

(1) Data based on 7°C leaving chilled water temperature and 35°C ambient air temperature.
 (3) Acoustic data are at full load. Sound power values in accordance with ISO 3744 and Eurovent 8/1. Tolerance +2dBA.
 (4) Pressure power values in accordance with ISO 3744.
 GROSS EER: efficiency in cooling mode without considering the available head of the pump or the pressure drop of the heat exchanger.

Technical feature SLS HE 1402-2602 BLN

Model SLS HE BLN		1402	1602	1802	1902	2002	2402	2602
Cooling capacity (1)	kW	304,0	338,0	378,0	425,0	467,2	531,0	571,0
Power input	kW	85,8	99,5	116,3	132,7	143,3	154,9	163,1
GROSS EER		3,50	3,40	3,30	3,20	3,30	3,40	3,50
EER		3,10	3,09	3,09	3,02	2,91	2,85	2,91
ESEER		3,60	3,58	3,58	3,50	3,38	3,31	3,38
Number of refrigerant circuits		2	2	2	2	2	2	2
Part load steps	%	6	6	6	6	6	6	6
Compressor								
Qty		2	2	2	2	2	2	2
Type		Screw						
Evaporator								
Qty		1	1	1	1	1	1	1
Type		Shell & Tube						
Water flow	l/h	52.288	58.136	65.016	73.100	80.358	91.332	98.212
Inlet/outlet diameter	inch	5"	5"	5"	5"	6"	6"	6"
Condenser								
Qty		4	4	4	4	4	4	4
Frontal surface	mm ²	4	4	4	4	4	4	4
Number of rows		3	3	3	3	4	4	4
Fan								
Qty		4	4	6	7	8	8	8
Air flow	m ³ /h	134.000	134.000	150.000	144.000	172.400	216.000	210.000
Speed	rpm/min	900	900	900	900	900	900	900
Power input	kW	10,8	10,8	14,4	14,4	14,4	18	18
Weight								
Shipping	kg	3.592	3.610	3.692	4.194	5.451	5.536	5.672
Operating	kg	3.697	3.715	3.788	4.333	5.544	5.665	5.790
Dimensions								
Length	mm	4.000	4.000	4.000	4.000	6.000	6.000	6.000
Width	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200
Height	mm	2.550	2.550	2.550	2.550	2.550	2.550	2.550
Acoustical data								
Sound power level (3)	dB(A)	97	97	98	98	98	99	99
Sound pressure level at 10 m (4)	dB(A)	65	65	66	66	66	67	67

(1) Data based on 7°C leaving chilled water temperature and 35°C ambient air temperature.

(3) Acoustic data are at full load. Sound power values in accordance with ISO 3744 and Eurovent 8/1. Tolerance +2dBA.

(4) Pressure power values in accordance with ISO 3744.

GROSS EER: efficiency in cooling mode without considering the available head of the pump or the pressure drop of the heat exchanger.

EER: efficiency in cooling unit according to EN14511-2011.

Technical feature SLS HE 4602-8404 BLN

Model SLS HE BLN		4602	4802	4804	5204	5604	6004	6404	6804	7204	7804	8404
Cooling capacity (1)	kW	933,0	989,0	1.062,0	1.142,0	1.208,0	1.292,8	1.406,4	1.482,2	1.557,9	1.637,2	1.686,9
Power input	kW	280,2	298,5	309,8	326,2	342,4	377,8	419,8	467	514,2	543,3	575,0
GROSS EER		3,30	3,30	3,40	3,50	3,50	3,40	3,40	3,20	3,00	3,00	2,90
Number of refrigerant circuits		2	2	4	4	4	4	4	4	4	4	4
Part load steps	%	6	6	9	9	9	9	9	9	9	9	9
Compressor												
Qty		2	2	4	4	4	4	4	4	4	4	4
Type		Screw										
Evaporator												
Qty		1	1	2	2	2	2	2	2	2	2	2
Type		Shell & Tube										
Water flow	l/h	160.476	170.108	182.664	196.424	207.776	222.361	241.900	254.938	267.958	281.598	290.146
Inlet/outlet diameter	inch	8"	8"	6"	6"	6"	6"	8"	8"	8"	8"	8"
Condenser												
Qty		8	8	8	8	8	8	8	8	8	8	8
Frontal surface	mm ²	8	8	12	12	12	12	12	12	12	12	12
Number of rows		5	5	3	3/4	4	4	4	4	4	4	4
Fan												
Qty		16	16	20	20	20	24	24	24	24	24	24
Air flow	m ³ /h	265.000	265.000	432.000	420.000	408.000	440.000	440.000	440.000	440.000	440.000	440.000
Speed	rpm/min	900	900	900	900	900	900	900	900	900	900	900
Power input	kW	28,8	28,8	36	36	36	43,2	43,2	43,2	43,2	43,2	43,2
Weight												
Shipping	kg	8.815	9.257	11.072	11.344	12.089	12.936	13.679	13.756	13.944	14.050	14.167
Operating	kg	9.196	9.638	11.321	11.580	12.561	13.388	14.085	14.135	14.421	14.542	14.659
Dimensions												
Length	mm	8.000	8.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000
Width	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
Height	mm	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550
Acoustical data												
Sound power level (3)	dB(A)	101	101	102	102	102	103	103	103	103	103	103
Sound pressure level at 10 m (4)	dB(A)	69	69	69	69	69	70	70	70	70	70	70

(1) Data based on 7°C leaving chilled water temperature and 35°C ambient air temperature.

(3) Acoustic data are at full load. Sound power values in accordance with ISO 3744 and Eurovent 8/1. Tolerance +2dBA.

(4) Pressure power values in accordance with ISO 3744.

GROSS EER: efficiency in cooling mode without considering the available head of the pump or the pressure drop of the heat exchanger.

Technical feature SLS HE 1402-2602 LN

Model SLS HE LN		1402	1602	1802	1902	2002	2402	2602
Cooling capacity (1)	kW	291,8	324,5	362,9	408,0	448,5	509,8	548,2
Power input	kW	90,9	105,5	123,3	140,7	151,9	164,2	172,9
GROSS EER		3,20	3,10	2,90	2,90	3,00	3,10	3,20
EER		2,93	2,83	2,68	2,68	2,74	2,85	2,91
ESEER		3,81	3,68	3,49	3,49	3,57	3,70	3,79
Number of refrigerant circuits		2	2	2	2	2	2	2
Part load steps	%	6	6	6	6	6	6	6
Compressors								
Qty		2	2	2	2	2	2	2
Type		Screw						
Evaporator								
Qty		1	1	1	1	1	1	1
Type		Shell & Tube						
Water flow	l/h	50.189,6	55.814	62.418,8	70.176	77.142	87.685	94.290
Inlet/outlet diameter	inch	5"	5"	5"	5"	6"	6"	6"
Condenser								
Qty		4	4	4	4	4	4	4
Frontal surface	mm ²	4	4	4	4	6	6	6
Number of rows		3	3	3	3/4	3	3	3/4
Fan								
Qty		6	6	8	8	8	10	10
Air flow	m ³ /h	91.120	91.120	102.000	97.920	117.232	146.880	142.800
Speed	rpm/min	700	700	700	700	700	700	700
Power input	kW	7,5	7,5	10	10	10	12,5	12,5
Weight								
Shipping	kg	3.700	3.718	3.800	4.302	5.559	5.644	5.780
Operating	kg	3.805	3.823	3.896	4.441	5.652	5.773	5.898
Dimensions								
Length	mm	4.000	4.000	4.000	4.000	6.000	6.000	6.000
Width	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200
Height	mm	2.550	2.550	2.550	2.550	2.550	2.550	2.550
Acoustical data								
Sound power level (3)	dB(A)	92	92	92	92	92	93	93
Sound pressure level at 10 m (4)	dB(A)	60	60	60	60	60	61	61

(1) Data based on 7°C leaving chilled water temperature and 35°C ambient air temperature.

(3) Acoustic data are at full load. Sound power values in accordance with ISO 3744 and Eurovent 8/1. Tolerance +2dB(A).

(4) Pressure power values in accordance with ISO 3744.

GROSS EER: efficiency in cooling mode without considering the available head of the pump or the pressure drop of the heat exchanger.

EER: efficiency in cooling unit according to EN14511-2011.

Technical feature SLS HE 4602-8404 LN

Model SLS HE LN		4602	4802	4804	5204	5604	6004	6404	6804	7204	7804	8404
Cooling capacity (1)	kW	895,7	949,4	1.019,5	1.096,3	1.159,7	1.241,1	1.350,1	1.422,9	1.495,6	1.571,7	1.619,4
Power input (2)	kW	297,0	316,4	328,4	345,8	362,9	400,5	445,0	495,0	545,1	575,9	609,5
GROSS EER		3,00	3,00	3,10	3,20	3,20	3,10	3,00	2,90	2,70	2,70	2,70
Number of refrigerant circuits		2	2	4	4	4	4	4	4	4	4	4
Part load steps	%	6	6	9	9	9	9	9	9	9	9	9
Compressor												
Qty		2	2	4	4	4	4	4	4	4	4	4
Tipo		Screw										
Evaporatore												
Quantità		1	1	2	2	2	2	2	2	2	2	2
Type		Shell & Tube										
Water flow	l/h	154.060	163.296	175.354	188.563	199.468	213.469	232.217	244.738	257.243	270.332	278.536
Inlet/outlet diameter	inch	8"	8"	6"	6"	6"	6"	8"	8"	8"	8"	8"
Condenser												
Qty		8	8	8	8	8	8	8	8	8	8	8
Frontal surface	mm ²	8	8	12	12	12	12	12	12	12	12	12
Number of rows		5	5	3	3/4	4	4	4	4	4	4	4
Fan												
Qty		16	16	20	20	20	24	24	24	24	24	24
Air flow	m ³ /h	180.200	180.200	293.760	285.600	277.440	299.200	299.200	299.200	299.200	299.200	299.200
Speed	rpm/min	700	700	700	700	700	700	700	700	700	700	700
Power input	kW	20	20	25	25	25	30	30	30	30	30	30
Weight												
Shipping	kg	9.089	9.531	11.288	11.560	12.305	13.152	13.895	13.972	14.160	14.266	14.383
Operating	kg	9.470	9.912	11.537	11.796	12.777	13.604	14.301	14.351	14.637	14.758	14.875
Dimensions												
Length	mm	8.000	8.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000
Width	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
Height	mm	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550
Acoustical data												
Sound power level (3)	dB(A)	95	95	96	96	96	97	97	97	97	97	97
Sound pressure level at 10 m (4)	dB(A)	63	63	63	63	63	64	64	64	64	64	64

(1) Data based on 7°C leaving chilled water temperature and 35°C ambient air temperature.

(3) Acoustic data are at full load. Sound power values in accordance with ISO 3744 and Eurovent 8/1. Tolerance +2dBA.

(4) Pressure power values in accordance with ISO 3744.

GROSS EER: efficiency in cooling mode without considering the available head of the pump or the pressure drop of the heat exchanger.

Technical feature SLS HE 1402-2602 ELN

Model SLS HE ELN		1402	1602	1802	1902	2002	2402	2602
Cooling capacity (1)	kW	291,8	324,5	362,9	408,0	448,5	509,8	548,2
Power input (2)	kW	90,9	105,5	123,3	140,7	151,9	164,2	172,9
GROSS EER		3,20	3,10	2,90	2,90	3,00	3,10	3,20
EER		2,81	2,71	2,57	2,57	2,62	2,72	2,78
ESEER		3,65	3,52	3,34	3,34	3,41	3,54	3,62
Number of refrigerant circuits		2	2	2	2	2	2	2
Part load steps	%	6	6	6	6	6	6	6
Compressor								
Qty		2	2	2	2	2	2	2
Type		Screw						
Evaporator								
Qty		1	1	1	1	1	1	1
Type		Shell & Tube						
Water flow	l/h	50.189	55.814	62.418	70.176	77.142	87.685	94.290
Inlet/outlet diameter	inch	5"	5"	5"	5"	6"	6"	6"
Condenser								
Qty		4	4	4	4	4	4	4
Frontal surface	mm ²	4	4	4	4	6	6	6
Number of rows		3	3	3	3/4	3	3	3/4
Fan								
Qty		6	6	8	8	8	10	10
Air flow	m ³ /h	91.120	91.120	102.000	97.920	117.232	146.880	142.800
Speed	rpm/min	700	700	700	700	700	700	700
Power input	kW	7,5	7,5	10	10	10	12,5	12,5
Weight								
Shipping	kg	3.700	3.718	3.800	4.302	5.559	5.644	5.780
Operating	kg	3.805	3.823	3.896	4.441	5.652	5.773	5.898
Dimensions								
Length	mm	4.000	4.000	4.000	4.000	6.000	6.000	6.000
Width	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200
Height	mm	2.550	2.550	2.550	2.550	2.550	2.550	2.550
Acoustical data								
Sound power level (3)	dB(A)	86	86	87	87	87	87	87
Sound pressure level at 10 m (4)	dB(A)	54	54	55	55	55	55	55

(1) Data based on 7°C leaving chilled water temperature and 35°C ambient air temperature.

(3) Acoustic data are at full load. Sound power values in accordance with ISO 3744 and Eurovent 8/1. Tolerance +2dBA.

(4) Pressure power values in accordance with ISO 3744.

GROSS EER: efficiency in cooling mode without considering the available head of the pump or the pressure drop of the heat exchanger.
EER: efficiency in cooling unit according to EN14511-2011.

Technical feature SLS HE 4602-8404 ELN

Model SLS HE ELN		4602	4802	4804	5204	5604	6004	6404	6804	7204	7804	8404
Cooling capacity (1)	kW	895,7	949,4	1.019,5	1.096,3	1.159,7	1.241,1	1.350,1	1.422,9	1.495,6	1.571,7	1.619,4
Power input	kW	297,0	316,4	328,4	345,8	362,9	400,5	445,0	495,0	545,1	575,9	609,5
GROSS EER (3)		3,00	3,00	3,10	3,20	3,20	3,10	3,00	2,90	2,70	2,70	2,70
Number of refrigerant circuits		2	2	4	4	4	4	4	4	4	4	4
Part load steps	%	6	6	9	9	9	9	9	9	9	9	9
Compressor												
Qty		2	2	4	4	4	4	4	4	4	4	4
Type		Screw										
Evaporator												
Qty		1	1	2	2	2	2	2	2	2	2	2
Type		Shell & Tube										
Water flow	l/h	154.060	163.296	175.354	188.563	199.468	213.469	232.217	244.738	257.243	270.332	278.536
Inlet/outlet diameter	inch	8"	8"	6"	6"	6"	6"	8"	8"	8"	8"	8"
Condenser												
Qty		8	8	8	8	8	8	8	8	8	8	8
Frontal surface	mm ²	8	8	12	12	12	12	12	12	12	12	12
Number of rows		5	5	3	3/4	4	4	4	4	4	4	4
Fan												
Qty		16	16	20	20	20	24	24	24	24	24	24
Air flow	m ³ /h	180.200	180.200	293.760	285.600	277.440	299.200	299.200	299.200	299.200	299.200	299.200
Speed	rpm/min	700	700	700	700	700	700	700	700	700	700	700
Power input	kW	20	20	25	25	25	30	30	30	30	30	30
Weight												
Shipping	kg	9.089	9.531	11.288	11.560	12.305	13.152	13.895	13.972	14.160	14.266	14.383
Operating	kg	9.470	9.912	11.537	11.796	12.777	13.604	14.301	14.351	14.637	14.758	14.875
Dimensions												
Length	mm	8.000	8.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000
Width	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
Height	mm	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550
Acoustical data												
Sound power level (3)	dB(A)	89	89	90	90	90	91	91	93	93	93	93
Sound pressure level at 10 m (4)	dB(A)	57	57	57	57	57	58	58	60	60	60	60

(1) Data based on 7°C leaving chilled water temperature and 35°C ambient air temperature.

(3) Acoustic data are at full load. Sound power values in accordance with ISO 3744 and Eurovent 8/1. Tolerance +2dBA.

(4) Pressure power values in accordance with ISO 3744.

GROSS EER: efficiency in cooling mode without considering the available head of the pump or the pressure drop of the heat exchanger.

Technical feature SLS STD 1402–4802 with total heat recovery

Model SLS STD		1402	1602	1802	1902	2002	2202	2502	2702	4802
Cooling capacity (1)	kW	304,7	339,2	380,2	427,0	473,7	499,7	534,1	568,7	1.000,9
Power input (2)	kW	84,0	97,7	110,2	126,6	138,8	153,2	165,4	177,7	291,0
Total heat rejection (1)	kW	369,3	415,1	465,9	525,9	581,9	620,2	664,6	709,1	1.227,3
GROSS EER		3,60	3,50	3,50	3,40	3,40	3,30	3,20	3,20	3,40
Number of refrigerant circuits		2	2	2	2	2	2	2	2	2
Part load steps	%	6	6	6	6	6	6	6	6	6
Compressor										
Qty		2	2	2	2	2	2	2	2	2
Type		Screw								
Evaporator										
Qty		1	1	1	1	1	1	1	1	1
Type		Shell & Tube								
Inlet/outlet diameter	inch	5"	5"	5"	5"	6"	6"	6"	6"	8"
Connection type		To be brazed								
Heat recovery condensers										
Qty		2	2	2	2	2	2	2	2	2
Type		Shell & Tube								
Inlet/outlet diameter I/Ø	inch	2½"	2½"	2½"	3"	3"	3"	3"	3"	5"
Connection type		Female gas threaded								
Water flow	l/h	63.520	71.397	80.135	90.455	100.087	106.674	114.311	121.965	211.096
Weight										
Shipping	kg	3.870	3.906	4.194	4.662	5.166	5.193	5.283	5.301	9.806
Operation	kg	3.996	4.041	4.374	4.860	5.364	5.400	5.508	5.526	10.334
Dimensions										
Length	mm	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	8.000
Width	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
Height	mm	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550

(1) Data based on 7°C leaving chilled water temperature and 45°C ambient air temperature.

(2) Compressors only.

GROSS EER: efficiency in cooling mode without considering the available head of the pump or the pressure drop of the heat exchanger.

Technical feature SLS HE 1402–4802 with totaly heat recovery

Model SLS STD		1402	1602	1802	1902	2002	2402	2602	4602	4802
Cooling capacity (1)	kW	304,7	339,2	380,2	427,0	485,9	533,5	580,1	945,2	1.000,9
Power input (2)	kW	84,0	97,7	110,2	126,6	133,3	147,2	154,9	272,2	291,0
Total heat rejection (1)	kW	369,3	415,1	465,9	525,9	588,2	646,6	698,3	1.156,5	1.227,3
GROSS EER		3,60	3,50	3,50	3,40	3,60	3,60	3,70	3,50	3,40
Number of refrigerant circuits		2	2	2	2	2	2	2	2	2
Part load steps	%	6	6	6	6	6	6	6	6	6
Compressor										
Qty		2	2	2	2	2	2	2	2	2
Type		Screw								
Evaporator										
Qty		1	1	1	1	1	1	1	1	1
Type		Shell & Tube								
Inlet/outlet diameter	inch	5"	5"	6"	6"	6"	6"	6"	8"	8"
Connection type		To be brazed								
Water flow	l/h	52.408	58.342	65.394	73.444	83.575	91.762	99.777	162.574	172.155
Heat recovery condensers										
Qty		2	2	2	2	2	2	2	2	2
Type		Shell & Tube								
Inlet/outlet diameter I/Ø	inch	2½"	2½"	2½"	3"	3"	3"	3"	5"	5"
Connection type		Female gas threaded								
Water flow	l/h	63.520	71.397	80.135	90.455	101.170	111.215	120.108	198.918	211.096
Weight										
Shipping	kg	3.933	3.978	4.266	4.788	6.057	6.228	6.453	9.830	10.272
Operation	kg	4.068	4.104	4.437	4.986	6.255	6.453	6.714	10.358	10.800
Dimensions										
Length	mm	4.000	4.000	4.000	4.000	6.000	6.000	6.000	8.000	8.000
Width	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
Height	mm	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550

(1) Data based on 7°C leaving chilled water temperature and 45°C ambient air temperature.

(2) Compressors only.

GROSS EER: efficiency in cooling mode without considering the available head of the pump or the pressure drop of the heat exchanger.