



# SLS HE 1202-8404

Cooling Capacity: from 300 to 1690 kW  
Refrigerant: R134a  
Sizes: 16

2 or 4 semi-hermetic screw compressors/  
2 or 4 refrigerant circuits  
Shell & Tube evaporator  
Wide range of hydrokit available

BLN Basic Low Noise  
LN Low Noise  
ELN Extra Low Noise

## PRODUCT ADVANTAGES

- › 2 independant refrigerant circuits.
- › 2 screw compressors.
- › R134a refrigerant.
- › Bi-flow electronic expansion devices.
- › Shell and tube evaporator.
- › High Efficiency thanks to the greater surface area condenser coils and by the greater number of fans versus SLS STD.

## MAIN ACCESSORIES

- › Remote ON/OFF control.
- › Remote keyboard panel.
- › Master/slaves control up to 4 units maximum.
- › Chiller grilles.
- › Spring type anti-vibration mounts.
- › Flow switch.
- › Water filter.
- › Remote hydro kit with 750 or 1000 litre water tank, 1 or 2 low or high pressure pump(s), relevant accessories and with or without antifreeze electric heater.

## MAIN

- › ModBus, Lonwork, Bacnet protocol kit for BMS.
- › WEBctrl.
- › Compressor soft starting.
- › Pressure actuated stepless fan speed controller for low ambient operation (-18°C) (BLN & LN versions).
- › Sequence phase control.
- › Power factor correction capacitors.
- › Electronic expansion valves.
- › GSM.
- › HP and LP manometers.
- › Compressor suction valves.
- › Mufflers and Anti-vibration pipe
- › Compressor liquid injection.
- › Compressor oil cooler or compressor oil level switch.
- › Condenser coils with blue fin treatment, with "Fin Guard Silver" (polyurethane) treatment and with copper fins.
- › Coil guards and Chiller grilles.
- › Compressor acoustic box (BLN version).
- › Water pump acoustic box (BLN & LN versions).
- › Total heat recovery and Desuperheater.
- › On board hydro kit without water tank, but with 1 or 2 low or high pressure pump(s), relevant accessories and with or without antifreeze electric heater for hydraulic manifolds.
- › On board hydro kit to be installed on the back of the unit, with 750 or 1000 litre water tank, 1 or 2 low or high pressure pump(s) and relevant accessories.
- › Water tank alone without pump, to be installed on the back of the unit:???

## OPERATING

### COOLING MODE

		Sizes
Leaving water temperature without glycol	5/15°C	
Leaving water temperature with glycol	???	
	-5/48°C	1402-2402-2602-4804-5204-5604
Outdoor air temperature BLN (1)	-5/47°C	1602-1802-1902-2002-6004-6404
	-5/44°C	6804-7204-7804-8404
	-5/45°C	1402-2402-2602
Outdoor air temperature LN (1)	-5/44°C	1602-1802-1902-2002
	-5/41°C	6804-7204-7804-8404
	-18/45°C	1402-2402-2602
Outdoor air temperature ELN	-18/44°C	1602-1802-1902-2002
	-18/41°C	6804-7204-7804-8404

(1) Minimum ambient temperature: -18°C with fan speed.

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<b>SLS HE</b>			<b>1402</b>	<b>1602</b>	<b>1802</b>	<b>1902</b>	<b>2002</b>
<b>COOLING CAPACITY STD BLN <sup>(1)</sup></b>		<b>KW</b>	<b>304.0</b>	<b>338.0</b>	<b>378.0</b>	<b>425.0</b>	<b>467.2</b>
Input power (Compressor)	KW	85.8	99.5	116.3	132.7	143.3	
Total EER*		3.15	3.06	2.89	2.89	2.96	
<b>COOLING CAPACITY STD LN/ELN <sup>(1)</sup></b>			<b>291.8</b>	<b>324.5</b>	<b>362.9</b>	<b>408.0</b>	<b>448.5</b>
Input power (Compressor)		90.9	105.5	123.3	140.7	151.9	
Total EER*		2.96	2.87	2.72	2.71	2.77	
Power supply		400V/3/50Hz	400V/3/50Hz	400V/3/50Hz	400V/3/50Hz	400V/3/50Hz	
Startup type		P/W (Part-Winding)					
<b>REFRIGERANT</b>							
Type		R134a					
Number of refrigerant circuits		2	2	2	2	2	
<b>COMPRESSOR</b>							
Number		2	2	2	2	2	
Type		Screw	Screw	Screw	Screw	Screw	
<b>EVAPORATOR</b>							
Number		1	1	1	1	1	
Type		S&T	S&T	S&T	S&T	S&T	
<b>COIL</b>							
Number		4	4	4	4	4	
<b>FANS</b>							
Number		6	6	8	8	8	
<b>WATER CONNECTIONS (EVAPORATOR)</b>							
Type		Victaulic					
Inlet/Outlet diameter	inches	5"	5"	5"	5"	6"	
<b>WEIGHT</b>							
Operating weight	kg	3697	3715	3788	4333	5544	
Operating weight LN/ELN	kg	3805	3823	3896	4441	5652	
<b>DIMENSIONS**</b>							
Length	mm	4000	4000	4000	4000	6000	
Width	mm	2200	2200	2200	2200	2200	
Height	mm	2550	2550	2550	2550	2550	
<b>ACOUSTIC DATA</b>							
Sound power level BLN <sup>(3)</sup>	dB(A)	97	97	98	98	98	
Sound pressure level <sup>(4)</sup>	dB(A)	65	65	66	66	66	
Sound power level LN <sup>(3)</sup>	dB(A)	92	92	92	92	92	
Sound pressure level LN <sup>(4)</sup>	dB(A)	60	60	60	60	60	
Sound power level ELN <sup>(3)</sup>	dB(A)	86	86	87	87	87	
Sound pressure level ELN <sup>(4)</sup>	dB(A)	54	54	55	55	55	

(\*) Gross value According to Eurovent standard.

(\*\*) Dimension without hydrokit.

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

(3) Sound levels are at fully loaded conditions. Sound power level values refer to ISO standard 3744 and Eurovent 8/1.

(4) Sound pressure level values refer to ISO standard 3744, parallelepiped shape.

<b>SLS HE</b>		<b>2402</b>	<b>2602</b>	<b>4804</b>	<b>5204</b>	<b>5604</b>	
<b>COOLING CAPACITY STD BLN <sup>(1)</sup></b>		<b>KW</b>	<b>531.0</b>	<b>571.0</b>	<b>1062.0</b>	<b>1142.0</b>	<b>1208.0</b>
Input power (Compressor)	kW	154.9	163.1	309.8	326.2	342.4	
Total EER*		3.07	3.15	3.07	3.15	3.19	
<b>COOLING CAPACITY STD LN/ELN <sup>(1)</sup></b>		<b>509.8</b>	<b>548.2</b>	<b>1019.5</b>	<b>1096.3</b>	<b>1159.7</b>	
Input power (Compressor)		164.2	172.9	328.4	345.8	362.9	
Total EER*		2.88	2.96	2.88	2.96	2.99	
Power supply		400V/3/50Hz	400V/3/50Hz	400V/3/50Hz	400V/3/50Hz	400V/3/50Hz	
Startup type		S/D (Star-delta)					
<b>REFRIGERANT</b>							
Type		R134a					
Number of refrigerant circuits		2	2	4	4	4	
<b>COMPRESSOR</b>							
Number		2	2	4	4	4	
Type		Screw	Screw	Screw	Screw	Screw	
<b>EVAPORATOR</b>							
Number		1	1	2	2	2	
Type		S&T	S&T	S&T	S&T	S&T	
<b>COIL</b>							
Number		4	4	8	8	8	
<b>FANS</b>							
Number		10	10	20	20	20	
<b>WATER CONNECTIONS (EVAPORATOR)</b>							
Type		Victaulic					
Inlet/Outlet diameter	inches	6"	6"	6"	6"	6"	
<b>WEIGHT</b>							
Operating weight	kg	5665	5790	11321	11580	12561	
Operating weight LN/ELN	kg	5773	5898	11537	11796	12777	
<b>DIMENSIONS**</b>							
Length	mm	6000	6000	12000	12000	12000	
Width	mm	2200	2200	2200	2200	2200	
Height	mm	2550	2550	2550	2550	2550	
<b>ACOUSTIC DATA</b>							
Sound power level BLN <sup>(3)</sup>	dB(A)	99	99	102	102	102	
Sound pressure level <sup>(4)</sup>	dB(A)	67	67	69	69	69	
Sound power level LN <sup>(3)</sup>	dB(A)	93	93	96	96	96	
Sound pressure level LN <sup>(4)</sup>	dB(A)	61	61	63	63	63	
Sound power level ELN <sup>(3)</sup>	dB(A)	87	87	90	90	90	
Sound pressure level ELN <sup>(4)</sup>	dB(A)	55	55	57	57	57	

(\*) Gross value According to Eurovent standard.

(\*\*) Dimension without hydrokit.

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

(3) Sound levels are at fully loaded conditions. Sound power level values refer to ISO standard 3744 and Eurovent 8/1.

(4) Sound pressure level values refer to ISO standard 3744, parallelepiped shape.

<b>SLS HE</b>		<b>6004</b>	<b>6404</b>	<b>6804</b>	<b>7204</b>	<b>7804</b>	<b>8404</b>	
<b>COOLING CAPACITY STD BLN <sup>(1)</sup></b>		<b>KW</b>	<b>1292.8</b>	<b>1406.4</b>	<b>1482.2</b>	<b>1557.9</b>	<b>1637.2</b>	<b>1686.9</b>
Input power (Compressor)	kW	377.8	419.8	467	514.2	543.3	575.0	
Total EER*		3,07	3,04	2,91	2,79	2,79	2,73	
<b>COOLING CAPACITY STD LN/ELN <sup>(1)</sup></b>			<b>1241.1</b>	<b>1350.1</b>	<b>1422.9</b>	<b>1495.6</b>	<b>1571.7</b>	<b>1619.4</b>
Input power (Compressor)		400.5	445.0	495.0	545.1	575.9	609.5	
Total EER*		2,88	2,84	2,71	2,60	2,59	2,53	
Power supply		400V/3/50Hz	400V/3/50Hz	400V/3/50Hz	400V/3/50Hz	400V/3/50Hz	400V/3/50Hz	
Startup type								
<b>REFRIGERANT</b>								
Type		R134a						
Number of refrigerant circuits		4	4	4	4	4	4	
<b>COMPRESSOR</b>								
Number		4	4	4	4	4	4	
Type		Screw	Screw	Screw	Screw	Screw	Screw	
<b>EVAPORATOR</b>								
Number		2	2	2	2	2	2	
Type		S&T	S&T	S&T	S&T	S&T	S&T	
<b>COIL</b>								
Number		8	8	8	8	8	8	
<b>FANS</b>								
Number		24	24	24	24	24	24	
<b>WATER CONNECTIONS (EVAPORATOR)</b>								
Type		Victaulic						
Inlet/Outlet diameter	inches	6"	8"	8"	8"	8"	8"	
<b>WEIGHT</b>								
Operating weight	kg	13388	14085	14135	14421	14542	14659	
Operating weight LN/ELN	kg	13604	14301	14351	14637	14758	14875	
<b>DIMENSIONS**</b>								
Length	mm	12000	12000	12000	12000	12000	12000	
Width	mm	2200	2200	2200	2200	2200	2200	
Height	mm	2550	2550	2550	2550	2550	2550	
<b>ACOUSTIC DATA</b>								
Sound power level BLN <sup>(3)</sup>	dB(A)	103	103	103	103	103	103	
Sound pressure level <sup>(4)</sup>	dB(A)	70	70	70	70	70	70	
Sound power level LN <sup>(3)</sup>	dB(A)	97	97	97	97	97	97	
Sound pressure level LN <sup>(4)</sup>	dB(A)	64	64	64	64	64	64	
Sound power level ELN <sup>(3)</sup>	dB(A)	91	91	93	93	93	93	
Sound pressure level ELN <sup>(4)</sup>	dB(A)	58	58	60	60	60	60	

(\*) Gross value According to Eurovent standard.

(\*\*) Dimension without hydrokit.

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

(3) Sound levels are at fully loaded conditions. Sound power level values refer to ISO standard 3744 and Eurovent 8/1.

(4) Sound pressure level values refer to ISO standard 3744, parallelepiped shape.

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