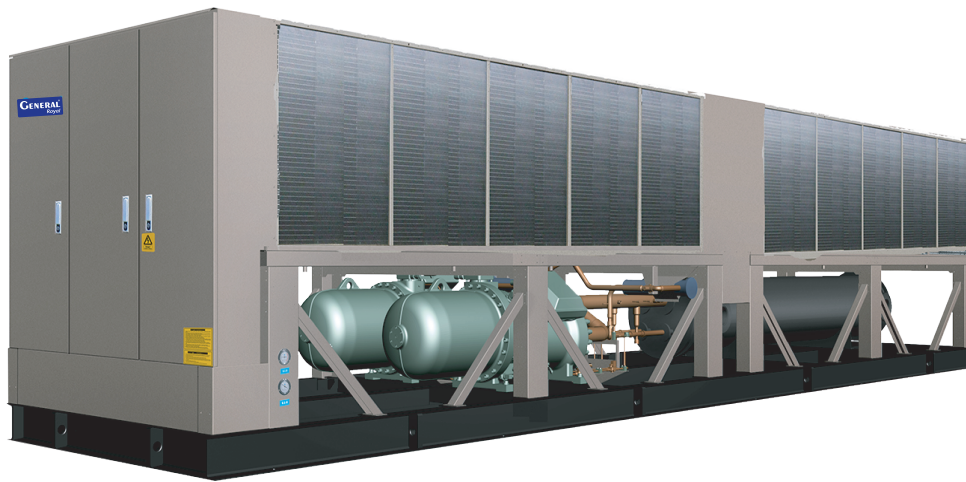


Air Cooled Screw Chiller (T1 & T2) 60Hz



General Royal air cooled screw chillers are designed to meet current and future requirements in terms of reliability, energy efficiency and intelligent control. We use the best technologies available today: Twin-rotor screw compressors with a variable capacity valve are ideally matched to coolers and condensers optimally configured for superior heat transfer and unit efficiency. It is ideal for schools, hospitals, shopping malls, office buildings as well as factories and manufacturing plants.

Features and benefits

Environmental responsibility

- ❖ A more efficient chiller means less power consumption, which reduces greenhouse gas(CO₂) emissions.
- ❖ R134a friendly refrigerant has no ozone-depletion potential.
- ❖ High efficiency, world class, sustainable and reliable performance.

Lowest total cost of ownership

- ❖ Reliability, low risk of uncomfortable downtime.
- ❖ The best parts, Bitzer Comp. & Danfoss EXV, Schneider electric.



- ❖ World-class testing facilities ensure the performance and reliability.
- ❖ Each unit was extensively tested to verify its operational reliability and to ensure a smooth startup.
- ❖ Serviceability, low maintenance costs.

Silent operation

- ❖ Larger dimension impellers reduced speed causing less noise.
- ❖ The lower ambient temperature, the lower fan air flow, then reduce noise.
- ❖ Intelligent control logic balance the performance and working fan numbers to control the noise and power consumption.
- ❖ Super low noise model is optional.



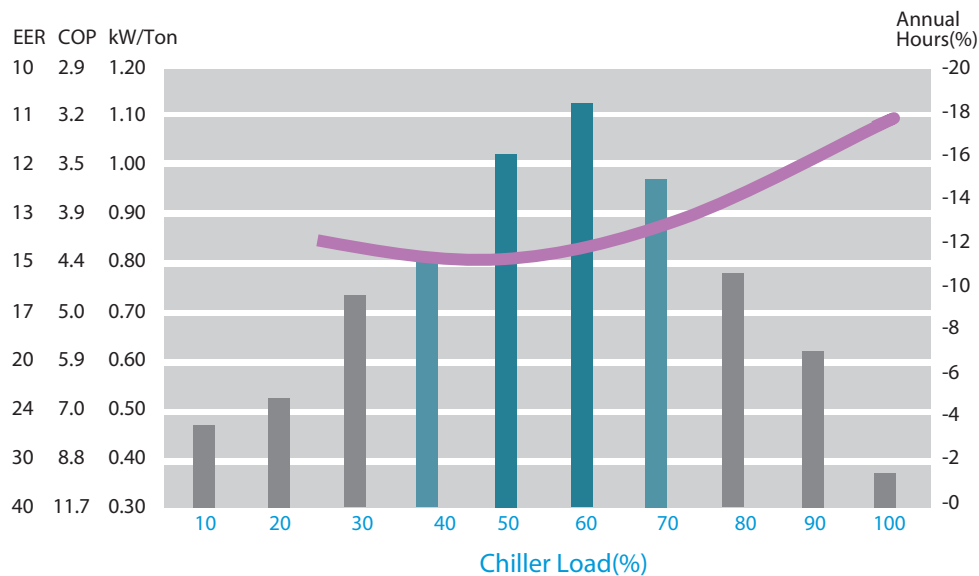
Operating cost savings

Better IPLV:

Follows AHRI 550/590 calculation which notes that 99% of operating hours are not at full load.

The COP was optimized for 50% ~ 75% part load conditions.

Larger ΔT of cooler reduces HVAC system running cost.



Design flexibility

- ❖ Six basic capacity modules, wide array of module combination.
- ❖ Standard module for flexible stock and fast delivery.
- ❖ Field-coupled to meet large project tonnage requirements.
- ❖ Low initial investment and maintenance cost.

Easy and fast installation

- ❖ Compact size and module design save the transportation, lifting and installation cost.
- ❖ The unit can be placed in service after being connected with power supply and water supply during field installation.

Normal condition (T1)

LSBLGW380/C



LSBLGW500/C



LSBLGW600/C
LSBLGW720/C



Specifications

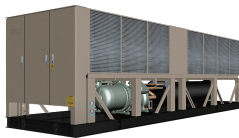
LSBLGWXXX/C		380	500	600	720
Cooling capacity	kW	376	496	602	720
Power input	kW	124	159	194	234
COP	kW/kW	3.03	3.12	3.10	3.08
Compressor		Semi-hermetic screw compressor			
Circuit A	Quantity	1	1	1	1
Circuit B	Quantity	--	--	--	--
Oil recharge	Type	BSE170	BSE170	BSE170	BSE170
Circuit A	L	30	30	30	30
Circuit B	L	--	--	--	--
Refrigerant	Type	R134a	R134a	R134a	R134a
Circuit A	kg	76	90	105	140
Circuit B	kg	--	--	--	--
Control Type		EXV	EXV	EXV	EXV
Evaporator	Type	Shell_tube heat exchanger(DX)			
Water content	L	222	308	340	520
Water flow	m ³ /h	65.4	86	103.2	123
Pressure drop	kPa	39	54	56	58
Max. pressure	MPa	1.0	1.0	1.0	1.0
Pipe connection type		Victaulic Coupling			
Water inlet/outlet pipe dim.	mm	125	125	125	150
Condenser	Type	Fin-coil	Fin-coil	Fin-coil	Fin-coil
Fan	Quantity	6	8	10	10
Total air flow	m ³ /h	23000*6	23000*8	23000*10	23000*10
Fan speed	rpm	940	940	940	940
Unit length	mm	3810	4865	5800	5800
Unit width	mm	2280	2280	2280	2280
Unit height	mm	2370	2370	2370	2370
Shipping weight	kg	3300	4280	4980	5400
Running weight	kg	3520	4590	5320	5920

Note:

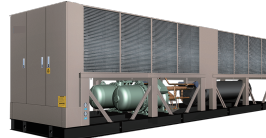
- Nominal cooling capacities are based on the following conditions:
Chilled water inlet/outlet temp: 12°C/7°C; Outdoor temp (DB/WB):35°C/24°C,Evaporator fouling factor=0.018 m².°C/kW.
- The applicable ambient temperature range of R134a air-cooled screw units is 15°C ~ 43°C.

Normal condition (T1)

LSBLGW900/C



LSBLGW1000/C
LSBLGW1200/C



LSBLGW1420/C



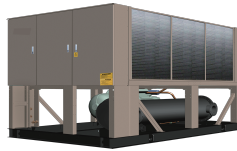
LSBLGWXXX/C		900	1000	1200	1420
Cooling capacity	kW	902	996	1203	1419
Power input	kW	285	318	381	466
COP	kW/kW	3.16	3.13	3.16	3.05
Compressor		Semi-hermetic screw compressor			
Circuit A	Quantity	1	1	1	1
Circuit B	Quantity	1	1	1	1
Oil recharge	Type	BSE170	BSE170	BSE170	BSE170
Circuit A	L	30	30	30	30
Circuit B	L	30	30	30	30
Refrigerant	Type	R134a	R134a	R134a	R134a
Circuit A	kg	76	90	140	140
Circuit B	kg	90	90	140	140
Control Type		EXV	EXV	EXV	EXV
Evaporator	Type	Shell_tube heat exchanger(DX)			
Water content	L	620	600	910	910
Water flow	m ³ /h	154.8	172	206.4	244.2
Pressure drop	kPa	74	75	69	69
Max. pressure	MPa	1.0	1.0	1.0	1.0
Pipe connection type		Victaulic Coupling			
Water inlet/outlet pipe dim.	mm	150	150	200	200
Condenser	Type	Fin-coil	Fin-coil	Fin-coil	Fin-coil
Fan	Quantity	14	16	16	20
Total air flow	m ³ /h	23000*14	23000*16	23000*16	23000*20
Fan speed	rpm	940	940	940	940
Unit length	mm	8800	9640	9640	11700
Unit width	mm	2280	2280	2280	2280
Unit height	mm	2370	2370	2370	2370
Shipping weight	kg	7680	8800	9060	10900
Running weight	kg	8300	9400	9830	11810

Note:

- Nominal cooling capacities are based on the following conditions:
Chilled water inlet/outlet temp: 12°C/7°C; Outdoor temp (DB/WB):35°C/24°C,Evaporator fouling factor=0.018 m².°C/kW.
- The applicable ambient temperature range of R134a air-cooled screw units is 15°C ~ 43°C.

Normal condition (T3)

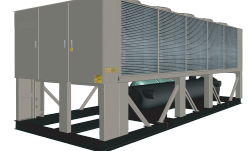
LSBLGW380/C(T3)



LSBLGW500/C(T3)



LSBLGW600/C(T3)
LSBLGW760/C(T3)



Specifications

LSBLGWXXX/C(T3)		380	500	600	760
Cooling capacity	kW	379	500	607	758
Power input	kW	121	155	189	242
COP	kW/kW	3.13	3.23	3.21	3.13
Compressor		Semi-hermetic screw compressor			
Circuit A	Quantity	1	1	1	1
Circuit B	Quantity	--	--	--	1
Oil recharge	Type	BSE170	BSE170	BSE170	BSE170
Circuit A	L	30	30	30	30
Circuit B	L	--	--	--	30
Refrigerant	Type	R134a	R134a	R134a	R134a
Circuit A	kg	82	98	115	82
Circuit B	kg	--	--	--	82
Control Type		EXV	EXV	EXV	EXV
Evaporator	Type	Shell_tube heat exchanger(DX)			
Water content	L	220	310	340	450
Water flow	m ³ /h	65.4	86.0	103.2	123.0
Pressure drop	kPa	39	54	56	75
Max. pressure	MPa	1.0	1.0	1.0	1.0
Pipe connection type		Victaulic Coupling			
Water inlet/outlet pipe dim.	mm	125	125	125	150
Condenser	Type	Fin-coil	Fin-coil	Fin-coil	Fin-coil
Fan	Quantity	6	8	10	12
Total air flow	m ³ /h	23000*6	23000*8	23000*10	23000*12
Fan speed	rpm	940	940	940	940
Unit length	mm	3810	4865	5800	7720
Unit width	mm	2280	2280	2280	2280
Unit height	mm	2370	2370	2370	2370
Shipping weight	kg	3400	4410	5150	6590
Running weight	kg	3620	4720	5490	7040

Note:

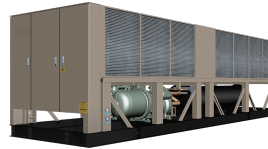
1) Nominal cooling capacities are based on the following conditions:

Chilled water inlet/outlet temp: 12°C/7°C; Outdoor temp (DB/WB):35°C/24°C,Evaporator fouling factor=0.018 m².°C/kW.

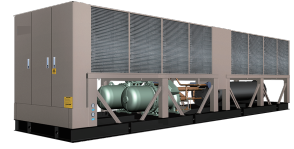
2) The applicable ambient temperature range of R134a air-cooled screw units is 15°C ~ 52°C.

Normal condition (T3)

LSBLGW900/C(T3)



LSBLGW1000/C(T3)
LSBLGW1200/C(T3)



LSBLGWXXX/C(T3)		900	1000	1200
Cooling capacity	kW	908	1000	1210
Power input	kW	279	310	372
COP	kW/kW	3.25	3.23	3.25
Semi-hermetic screw compressor		Semi-hermetic screw compressor		
Circuit A	Quantity	1	1	1
Circuit B	Quantity	1	1	1
Oil recharge	Type	BSE170	BSE170	BSE170
Circuit A	L	30	30	30
Circuit B	L	30	30	30
Refrigerant	Type	R134a	R134a	R134a
Circuit A	kg	82	98	115
Circuit B	kg	98	98	115
Control Type		EXV	EXV	EXV
Evaporator	Type	Shell_tube heat exchanger(DX)		
Water content	L	620	600	770
Water flow	m ³ /h	154.8	172.0	206.4
Pressure drop	kPa	74	75	71
Max. pressure	MPa	1.0	1.0	1.0
Pipe connection type		Victaulic Coupling		
Water inlet/outlet pipe dim.	mm	150	150	200
Condenser	Type	Fin-coil	Fin-coil	Fin-coil
Fan	Quantity	14	16	20
Total air flow	m ³ /h	23000*14	23000*16	23000*20
Fan speed	rpm	940	940	940
Unit length	mm	8800	9640	11700
Unit width	mm	2280	2280	2280
Unit height	mm	2370	2370	2370
Shipping weight	kg	7910	9060	9540
Running weight	kg	8530	9660	10310

Note:

1) Nominal cooling capacities are based on the following conditions:

Chilled water inlet/outlet temp: 12°C/7°C; Outdoor temp (DB/WB):35°C/24°C,Evaporator fouling factor=0.018 m².°C/kW.

2) The applicable ambient temperature range of R134a air-cooled screw units is 15°C ~ 52°C.