

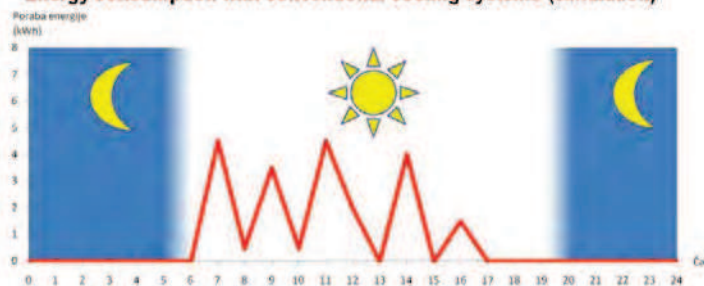
ICE BANKS with cooling aggregates



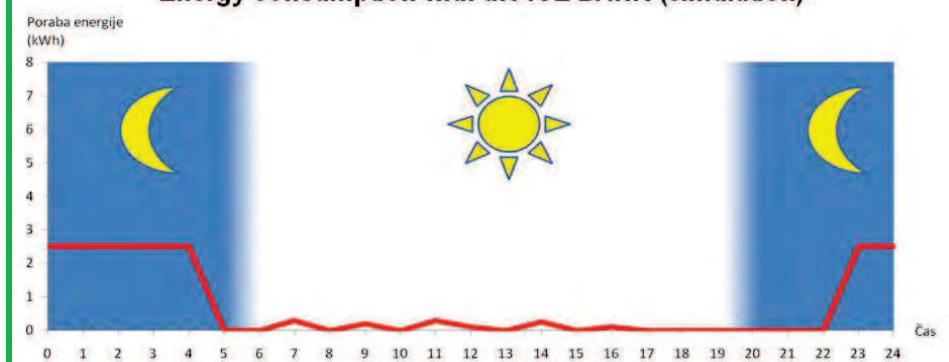
ADVANTAGES of the ice bank with cooling unit:

- It works during the night **when the energy costs are low** and uses the accumulated cooling energy during the day
- It uses a **smaller cooling aggregate** than conventional cooling systems because it operates with constant power over a predefined time range. The **cooling aggregate** has a **much smaller cooling power** than the peaks of cooling energy used during the process
- By cooling by night we achieve a **smaller load of the electric network** in the daytime (cheaper energy)
- Possibility of storing cooling energy from 20% to 100% of the capacity of the tank
- The water cools down to 0,5°C (optional -10°C)
- Thanks to the uniform ice surface the temperature of the water remains the same until the end of the melting

Energy consumption with conventional cooling systems (simulation)



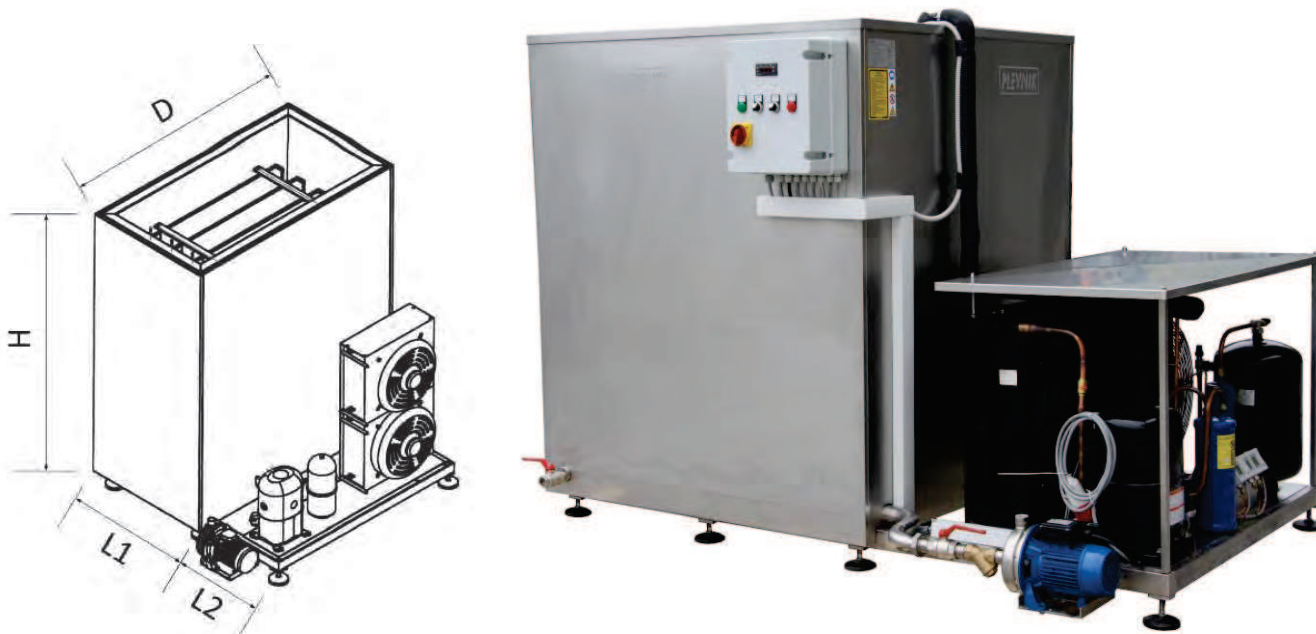
Energy consumption with the ICE BANK (simulation)



Ice bank with cooling aggregate type SHL 20 - 80

Assembly of the ice bank:

- Inside of the tank made from stainless steel W.Nr.1.4301
- Outside and cover of the tank made from stainless steel W.Nr.1.4301 (optional - outside of the tank made from zinc steel or lacquered)
- Thickness of insulation 60/75mm
- Framework and evaporator plates made from stainless steel W.Nr.1.4301
- Cooling aggregate with air condensing unit working with an **ecological coolant** (R404A)
- Control panel with an electronic thermostat for **setting and monitoring** the working parameters of the device
- Power supply: MF 230V 50Hz or TF 400V 3N 50Hz



Ice banks

Type SHL	Volume (l)	Capacity (kWh)	Amount of ice* (kg)	Melting capacity (0°C - 6°C) (kWh)	Type of cooling unit**	Cooling power*** (kW)	Supply power (V / kW)	Dimensions (mm)		
								D	H	L1 + L2
20	500	20	225	1,58	HGZ 22	2,3	MF/TF / 1,6	1100	1150	790 + 500
30	710	30	375	2,63	HGZ 28	3,3	TF / 2,0	1350	1680	600 + 500
40	1030	40	500	3,5	HGZ 36	4,5	TF / 2,7	1350	1680	810 + 500
50	1280	50	625	4,38	HGZ 50	6,5	TF / 3,7	1350	1680	960 + 600
60	1530	60	750	5,25	HGZ 50	6,5	TF / 3,7	1350	1680	1120 + 600
80	2030	80	1000	7	HGZ 64	8,2	TF / 4,8	1350	1680	1400 + 600

* When ice thickness is 50mm

** Labels and dimensions of the cooling units are only informative

***Making the full capacity of ice in 8-10h

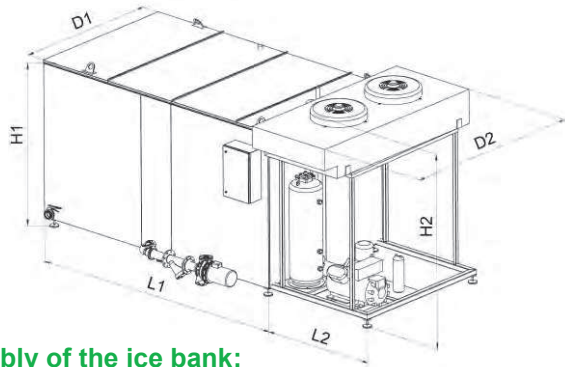
Type SHL	Code for inbuilt cooling unit	Code for separate cooling unit	Options		
			Waste heat recovery*	Scroll compressor	Ice water pump
20	3.000.04	3.000.33	3.001.00	/	3.000.73
30	3.000.07	3.000.36	3.001.01	3.001.40	3.000.74
40	3.000.08	3.000.37	3.001.01	3.001.41	3.000.75
50	3.000.09	3.000.38	3.001.01	3.001.42	3.000.76
60	3.000.10	3.000.39	3.001.02	3.001.42	3.000.77
80	3.000.11	3.000.40	3.001.02	3.001.43	3.000.78

* Without hot water tank

Additional equipment:

Equipment	Code
Water tank 100 L	3.001.10
Water tank 200 L	3.001.11
Water tank 300 L	3.001.12
Water tank 500 L	3.001.13
Electric heater 2kW for Water tank	3.001.30
Electric heater 3kW for Water tank	3.001.31
Air blower – for a more uniform ice consumption	3.001.04

Ice bank with cooling aggregate type SHL 100 - 1000



Assembly of the ice bank:

- Inside of the tank made from stainless steel W.Nr. 1.4301
- Outside and cover of the tank made from stainless steel W.Nr. 1.4301 (optional - outside of the tank made from zinced steel or lacquered)
- Thickness of insulation 50/75mm
- Framework end evaporator plates made from stainless steel W.Nr. 1.4301
- Iced water pump 1x
- Cooling aggregate with air condensing unit working with an **ecological coolant** (R404A)
- Control panel with an electronic thermostat for **setting and monitoring** the working parameters of the device
- Power supply: 400V 3N 50Hz

Type SHL	Volume (l)	Capacity (kWh)	Amount of ice* (kg)	Melting capacity (0°C - 6°C) (kWh)	Length L1 (mm)	Width D1 (mm)	Height H1 (mm)	Volume of cooling plates (l)	Code	Recommended cooling unit**
100	2300	100	1035	7,2	920	1900	2000	30	3.002.02	CA10
120	2750	120	1242	8,7	1100	1900	2000	36	3.002.03	CA12
160	3680	160	1712	11,6	1380	1900	2000	48	3.002.04	CA16
200	4600	200	2140	14,5	1750	1900	2000	60	3.002.05	CA20
280	6450	280	2996	21,8	2400	1900	2000	84	3.002.06	CA28
400	9200	400	4230	29	3320	1900	2000	120	3.002.07	CA40
500	12400	500	5382	37,8	4200	1900	2000	150	3.002.08	CA50
600	15180	600	6420	46,5	4950	1950	2050	180	3.002.09	2x CA28
800	17950	800	8560	55,2	6600	1950	2050	240	3.002.10	2x CA40
1000	24000	1000	10764	75,5	7850	1950	2050	288	3.002.11	2x CA50

*When ice thickness is 50mm

**Calculated for making the ice in 9-11 hour

Cooling unit***	Cooling power (kW)	Supply power (kW)	Length L2 (mm)	Width D2 (mm)	Height H2 (mm)	Code for inbuilt cooling unit	Option	
							Scroll compressor	Waste heat recovery****
CA10	8,9	3,5	800	1300	2000	3.002.35	3.002.95	3.003.95
CA12	11,4	4,4	1200 (800)	1500	2000	3.002.36	3.002.96	3.003.96
CA16	17,8	7	1300 (800)	1900	2100	3.002.38	3.002.98	3.003.98
CA20	22,8	8,8	1000	2300	2400	3.002.39	3.002.99	3.003.99
CA28	27,4	10,8	1250	2400	2400	3.002.40	3.003.00	3.004.00
CA40	45,6	17,6	1400	2420	2450	3.002.42	3.003.02	3.004.02
CA50	54,8	21,6	1400	3500	3600	3.002.43	3.003.03	3.004.03
2x CA28	54,8	21,6	1400	3500	3600	3.002.44	3.003.04	3.004.04
2x CA40	93	35,2	1400	4000	3800	3.002.46	3.003.06	3.004.06
2x CA50	110	44,7	1400	4800	3800	3.002.47	3.003.07	3.004.07

** Labels and dimensions of the cooling units are only informative

*** Without hot water tank

Equipment	Code
Air blower – for a more uniform ice consumption	3.001.05
Centrifugal pump for iced water, 10m ³ /h	3.003.60
Centrifugal pump for iced water, 20m ³ /h	3.003.61
Centrifugal pump for iced water, 30m ³ /h	3.003.62
Centrifugal pump for iced water, 40m ³ /h	3.003.63
Centrifugal pump for iced water, 50m ³ /h	3.003.64
Centrifugal pump for iced water, 60m ³ /h	3.003.65
Centrifugal pump for iced water, 70m ³ /h	3.003.66
Centrifugal pump for iced water, 80m ³ /h	3.003.67
Centrifugal pump for iced water, 90m ³ /h	3.003.68
Centrifugal pump for iced water, 100m ³ /h	3.003.69

In the process of constant improvements we reserve the right to make technical and aesthetic modifications without prior notice!