



**AKVILON**  
Engineering & Installation

**INDUSTRIAL REFRIGERATION**



Moscow, Frezer passway, 2, MLRZ plant territory



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[akvilon-holod.ru](http://akvilon-holod.ru)



«**ASM**», founded in 2008 together with Impulse-Systems and PromHolod-Service forms Akvilon StroiMontazh Group of companies, acting as a principle contractor in supplying cooling and technology equipment for industrial objects, providing design, delivery, installation and supervision of cooling systems, ventilation and industrial conditioning. Company executes full construction cycle of modular structures, fast erectable structures from sandwich panels, starting from foundation and metal or ferroconcrete frame.





Proprietary assembly plant of cooling and technology equipment enables the Company to carry out standard solutions in cooling equipment (like cooling units and central cooling stations, chillers, cameras and shock-freezers) and custom technology solutions for warehouses and food production (banana aeration tanks, cheese ripening rooms) and industrial cooling of air and liquids.





## ASM Complex Solution:

- Designing of technic solution and setting up a work algorithm of technology process, providing adequate and energy-efficient solution for end-user
- Production of cooling equipment for different activities using leading producers' components with best value for money ratio
- Production of module refrigerated containers for dairy and meat industry and industries with a wide range of uses.
- Delivery of equipment and materials (cooling, conditioning, sandwich panels, doors, floor heat insulation, other construction materials and frames)
- Construction and assembly works, commissioning of cooling systems, bringing equipment to project work mode
- Designing and producing remote control (monitoring) systems for industrial objects
- Service, guarantee and post-guarantee maintenance support (regardless of object's location)



## Main business areas:

- Production of standard and custom cooling equipment
- Complex solutions for shopping spaces
- Installation and commissioning
- Installation of cooling cameras and cold-storage warehouses





- Design and delivery of remote monitoring and control systems for cooling machines main parameters
- Construction of fruits and vegetables warehouses
- Repair works for cooling equipment
- Installation of air conditioners and industrial split-systems
- Production and design of heat pumps and unconventional energy systems



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## Company's production capacities:

Total space of production and storage facilities – over 2000 square meters.

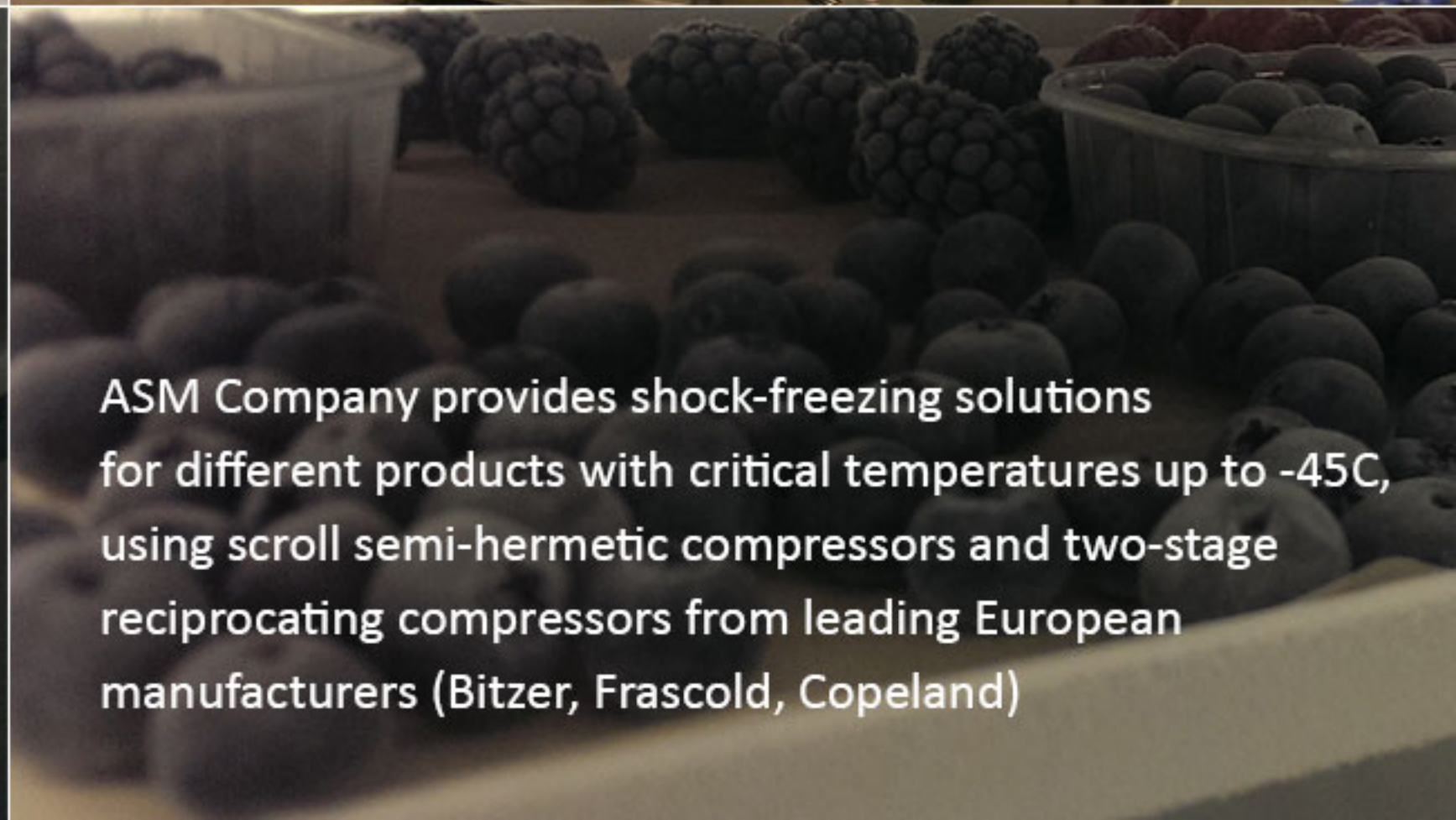
Production plant designs and produces diverse cooling-related machinery:

- Refrigerated containers, size 10, 20 and 40 ft., standard and custom design (capacities to produce up to 3 containers a day)
- Cooling units based on hermetic, semi-hermetic, scroll and helical compressors from leading European manufacturers
- Chilling split-systems (open and closed types)
- Central cooling stations
- Chillers and pump stations
- Compressor condensing units for ventilation systems
- Cameras and units for shock freezing
- Design, production and implementation of climate chambers










ASM Company provides shock-freezing solutions for different products with critical temperatures up to  $-45^{\circ}\text{C}$ , using scroll semi-hermetic compressors and two-stage reciprocating compressors from leading European manufacturers (Bitzer, Frascold, Copeland)



A large warehouse filled with rows of cheese wheels, likely Parmigiano Reggiano, stacked on wooden racks. The cheese wheels are yellow and have "PARMIGIANO REGGIANO" and "2014" embossed on them. The racks are made of dark wood and are arranged in long rows, creating a sense of depth. The lighting is warm and focused on the cheese wheels.

Basing on optimal technology solutions and using knowledge of our Italian partners, cheese suppliers, we managed to test and put into operation more than 150 cold-storage warehouses with cheese ripening rooms apart from basic products






From 2014 ASM Company started to test and, after that, to produce cooling equipment for cheese and cheese-products ripening rooms

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This refrigeration equipment is unique  
as cheese ripening requires to maintain  
not only the temperature mode but also  
maintain humidity in a given range  
(from 75% to 95% of relative humidity)



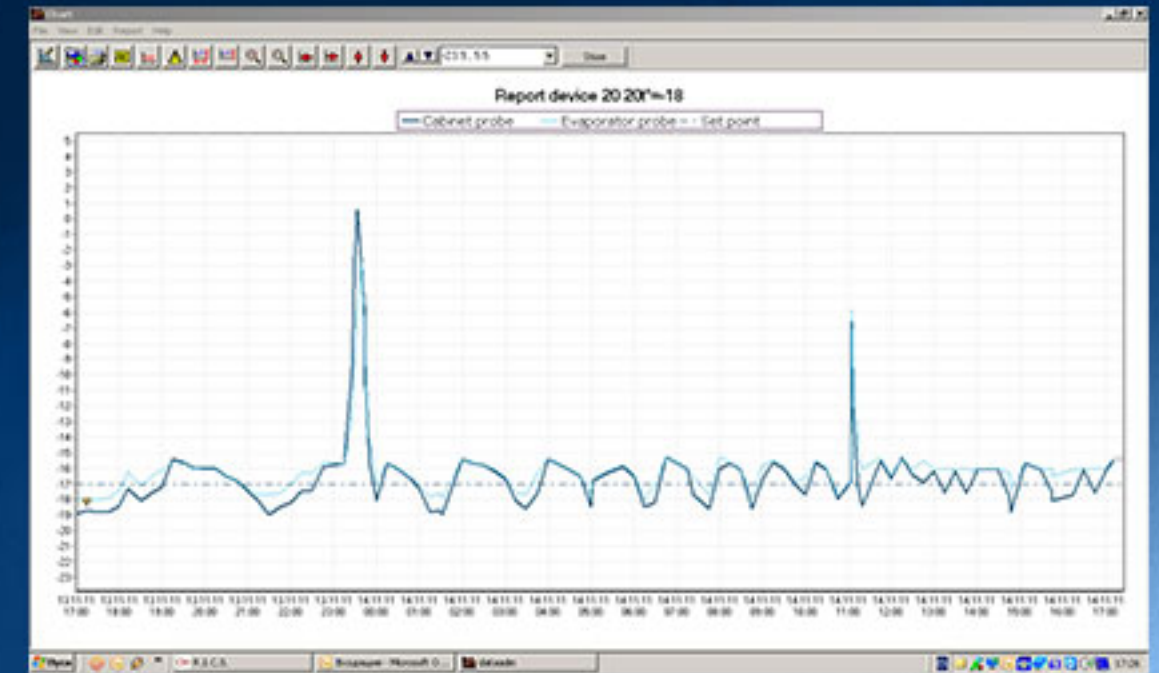


- ASM Company produces custom cheese ripening rooms:
1. From stainless steel
  2. Container-based (for fast relocation)

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The screenshot displays a table of parameters for the device. The table includes columns for 'Name', 'Value', 'Minimum', 'Maximum', and 'Unit'.

Name	Value	Minimum	Maximum	Unit
Set point	0.0	-19.0	19.0	°C
Measure inputs configuration				
CA1 Cabinet probe offset	0.0	-25.0	25.0	°C
CA2 Evaporator probe offset	0.0	-25.0	25.0	°C
PO Kind of probe	WTC	PTC	NTC	
P1 Decimal point	Yes	No	Yes	
P2 Celsius/ahrenheit	°C	°F	°F	
P3 Evaporator probe configuration	Refrigerant and Fan	Excited	Fans	
P5 Value displayed during normal operation	Cabinet probe	Cabinet probe	Difference between Evaporator Probe	
Water regulator				
W Working set point differential	2.0	0.1	15.0	°C
W Minimum set point	-20.0	-20.0	19.0	°C
W Maximum set point	19.0	-20.0	19.0	°C
W Locking set point	Unlocked	Unlocked	Locked	
W Energy saving	0.0	0.0	19.0	°C
Compressor protection				
C0 Delay since instrument turned on	0	min	0	240
C1 Delay since test activation	5	min	0	240
C2 Minimum time compressor turned off	3	min	0	240
C3 Minimum time compressor turned on	0	min	0	240
C4 Time compressor turned off during probe failure	10	min	0	240
C5 Time compressor turned on during probe failure	10	min	0	240
Defrost				
D0 Defrost interval	90	h	0	99
D1 Defrost kind	Resistors	Resistors	Gas	
D2 Defrost - staff temperature	2.0	°C	-19.0	19.0
D3 Defrost duration	0	min	0	99
D4 Defrost from startup	No	No	Yes	
D5 Date of defrost from startup	0	min	0	99
D6 Value displayed during defrost	Limited to defrost	Probe	Limited to defrost	
D7 Dropping duration	2	min	0	15

All cheese ripening rooms can be equipped by monitoring and HACCP (Hazard Analysis and Critical Control Points) supervision systems



Aquilon Engineering&Installation is an active supplier for Russian governmental agencies, working with state companies like Moscow City Service Department, Russian Railways, RosAtom, Russian Space Agency.








Aquilon Engineering&Installation actively cooperates with Carrier company, innovative leader in industrial cooling equipment, providing installation and supervision of trade and technology equipment for retail chains like Metro, Globus, Lenta.



Our company works with Russia's largest retail chains,  
supplying and installing cooling equipment.







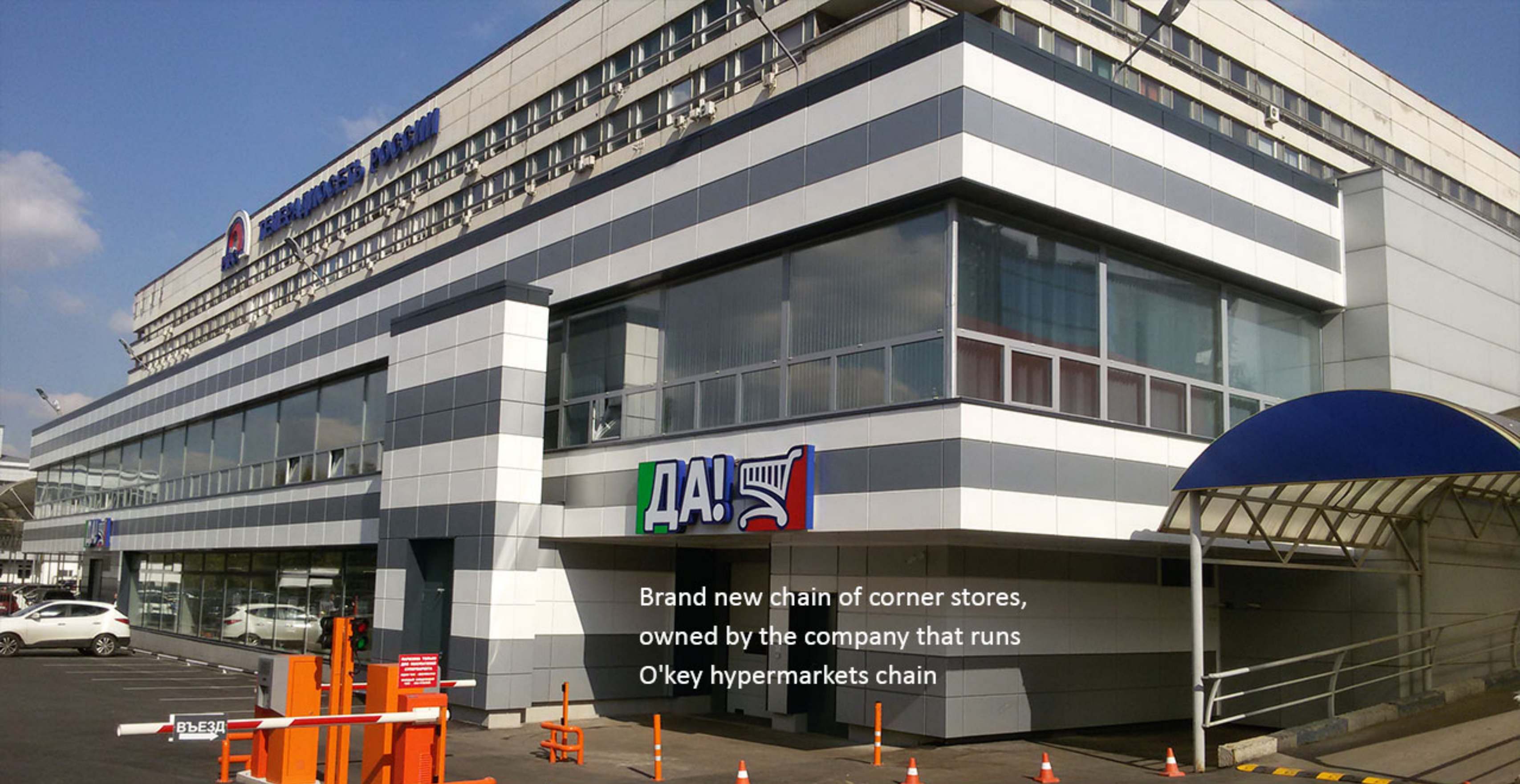
ASM Company works with X5 Retail Group  
from 2011 until now



More than 20 foodstores of «Perekrestok», «Zeleny Perekrestok», «Pyaterochka» chains. The company installed cooling equipment, freezers and cooler rooms, supplied sandwich-panels.







Brand new chain of corner stores,  
owned by the company that runs  
O'key hypermarkets chain







Reciprocating central cooling stations with total power of 600kWt were upgraded and maintained during 4 years of fruitful cooperation. And also helical units based on semi-hermetic Blizer compressors shock-freezing cameras with total power of 400kWt. Upgrade and repair conducted for more than six warehouses. Installed remote monitoring and supervision of cooling equipment system for more than 40 cooling cameras and refrigerator containers, conducted air ventilation upgrade.







From 2008 until now provided complex solutions for more than 10 stores of the chain in Moscow and Moscow Region (with total space over 11 000 square meters), installed cooling and technology equipment









Provided "Serpukhov Bread" Plant with shock-freeze cameras for bread products basing on Blizer scroll compressors. Supplied split systems for production areas and installed cooling cameras for product storage. November 2012





Installed cooling and technology equipment  
for Supermarket (Moscow) 1500 sq.m.  
September 2013









OOO ASM from 2014 provided installations for METRO stores in Moscow, Vladimir, Orel, Surgut, Sterlitamak.

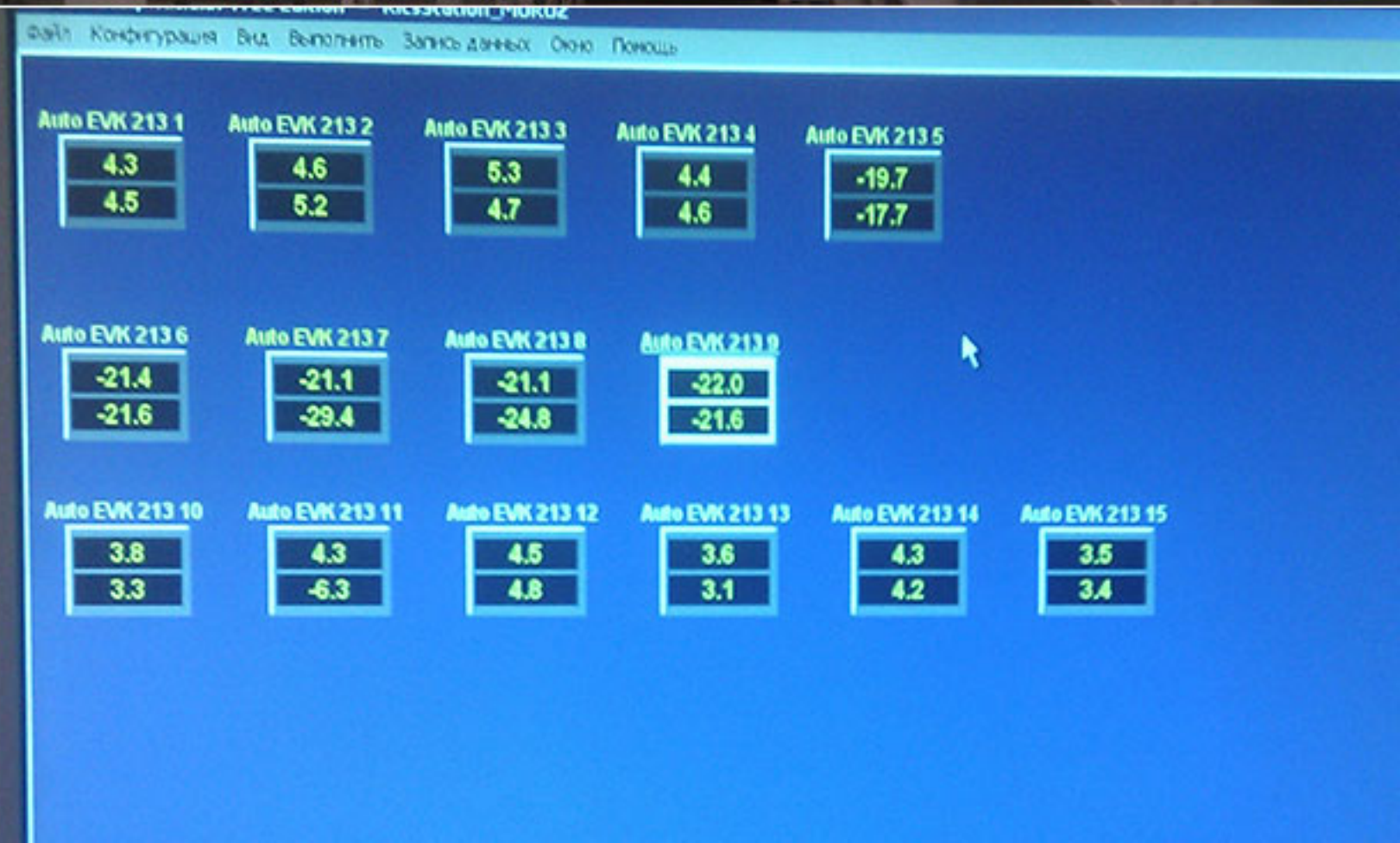




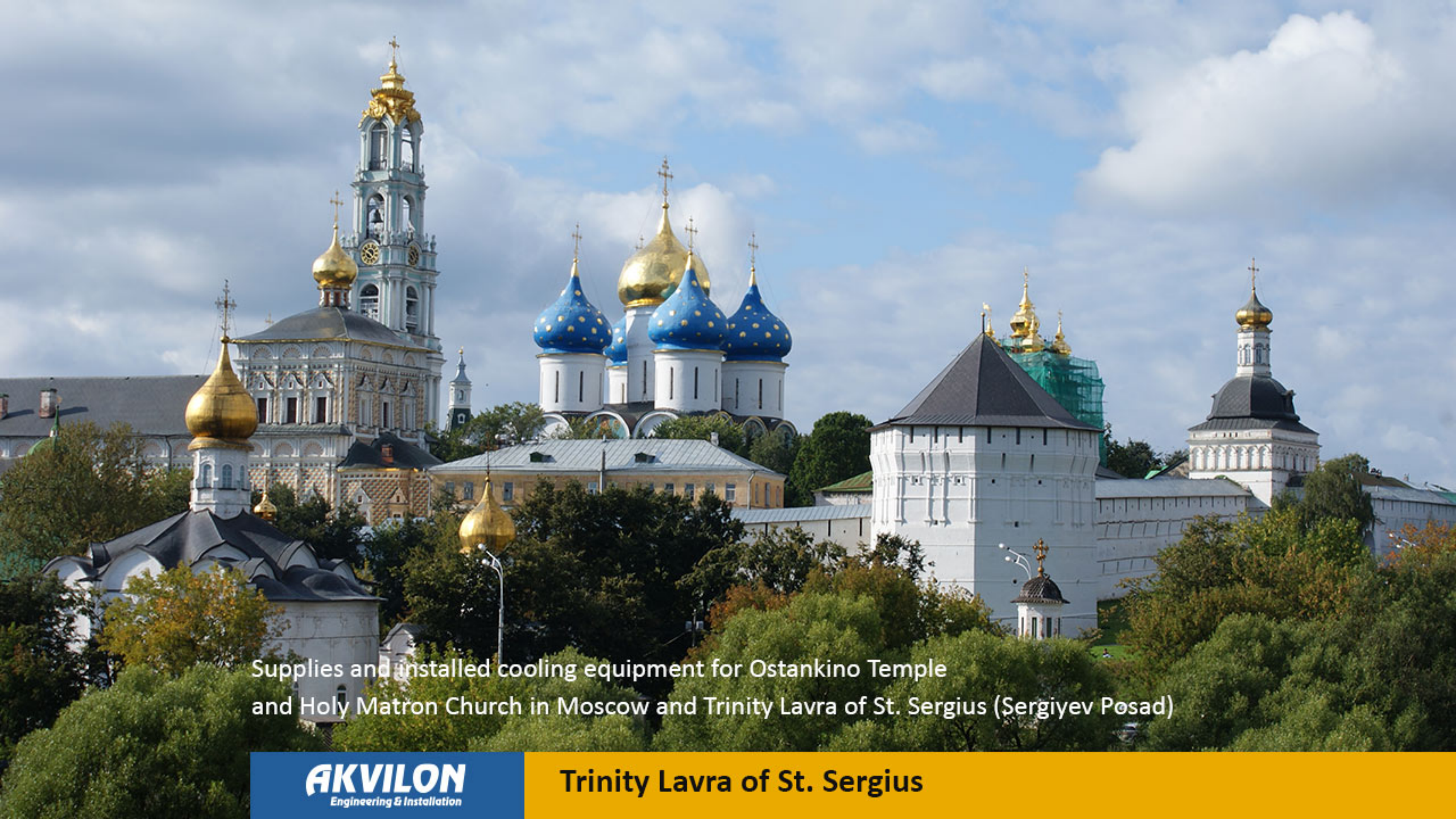
Working with Major company for more than 6 years, Company's experts installed and commissioned more than 4000 sq.m of cold-storage warehouses for different purposes starting from food storage and up to secure storage of pharmaceuticals.











Supplies and installed cooling equipment for Ostankino Temple  
and Holy Matron Church in Moscow and Trinity Lavra of St. Sergius (Sergiyev Posad)



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