



AMMONIA ABSORPTION SYSTEMS

List of References

2022	Chemical industry	ARP-3021 Country of installation: Ukraine Application: Chemical industry Driving energy: Thermal oil Refrigeration capacity: 300 kW at -17/-20°C Starting operation: 2024	
2021	Food industry	ARP-3095 Country of installation: Russia Application: Freeze dried coffee factory Driving energy: Steam 12 barg Refrigeration capacity: 800 kW at -58°C, 1.315 kW at -50°C (2-stage) Starting operation: 2024	
2021	Ice rink	ARP-2856 Country of installation: Sweden Application: Refrigeration for an ice rink Driving energy: District heating water of 90/81°C Refrigeration capacity: 420 kW at -15°C Starting operation: 2022	
2020	Food industry	ARP-3016 Country of installation: Brazil Application: Freeze dried coffee factory Driving energy: Steam = 13 barg Refrigeration capacity: 1560 kW at -54°C, -49°C (2-stage) Starting operation: 2023	
2018	Food industry	ARP-2907 Country of installation: Russia Application: Freeze dried coffee factory Driving energy: Steam 12 barg Refrigeration capacity: 700 kW at -58°C, 1200 kW at -58°C (2-stage) Starting operation: 2020	



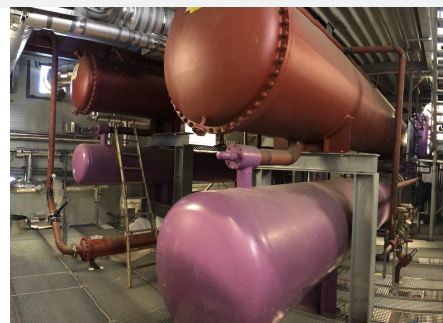


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2018 **Food industry**

ARP-2780

Country of installation: Belgium
Application: Freeze dried coffee factory
Driving energy: Steam 12 barg
Refrigeration capacity: 1100 kW at -58°C, -49°C (2-stage)
Starting operation: 2019



2018 **Food industry**

ARP-2052

Country of installation: Russia
Application: Freeze dried coffee factory
Driving energy: Steam 12 barg
Refrigeration capacity: 2480 kW at -54°C, -49°C (2-stage)
Starting operation: 2021



2018 **Food industry**

ARP-2885

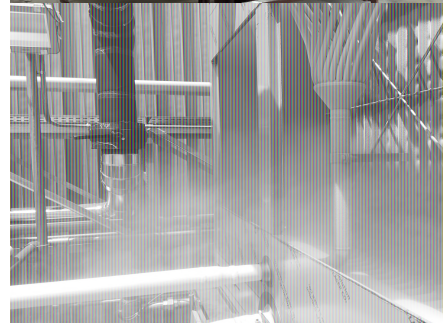
Country of installation: Russia
Application: Freeze dried coffee factory
Driving energy: Steam 13 barg
Refrigeration capacity: 1304 kW at -55°C, -48°C (2-stage)
Starting operation: 2023



2018 **Food industry**

ARP-2881

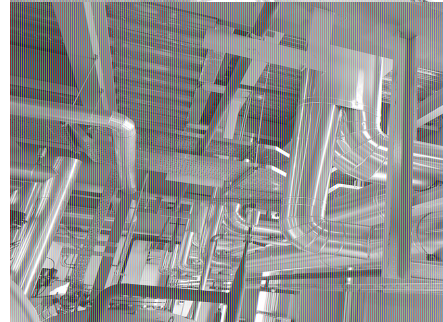
Country of installation: Italy
Application: Ice cream factory
Driving energy: Hot water 91°C/82°C
Refrigeration capacity: 500 kW at -2°C
Starting operation: 2019

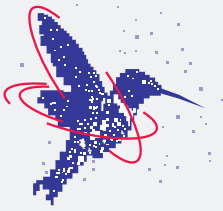


2018 **Food industry**

ARP-2877

Country of installation: India
Application: Freeze dried coffee factory
Driving energy: Steam = 13 barg
Refrigeration capacity: 1320 kW at -54°C, -49°C (2-stage)
Starting operation: 2021





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2018 **Food industry**

ARP-2789

Country of installation: Brazil
 Application: Freeze dried coffee factory
 Driving energy: Steam = 13 barg
 Refrigeration capacity: 1300 kW at -54°C, -49°C (2-stage)
 Starting operation: 2021

2017 **Food industry**

ARP-2584

Country of installation: India
 Application: Freeze dried coffee factory
 Driving energy: Steam ≈ 8 barg
 Refrigeration capacity: 1560 kW at -54°C, -49°C (2-stage)
 Starting operation: Autumn 2018

2017 **Food industry**

ARP-2514

Country of installation: Argentina
 Application: Meat factory
 Driving energy: Pressurised water 170/150°C
 Refrigeration capacity: 800 kW at -36°C
 Starting operation: Spring 2017

2016 **Food industry**

ARP-2334

Country of installation: Mexico
 Application: Meat factory
 Driving energy: Hot water 107/83°C
 Refrigeration capacity: 2950 kW at -16°C
 Starting operation: Winter 2016

2016 **Food industry**

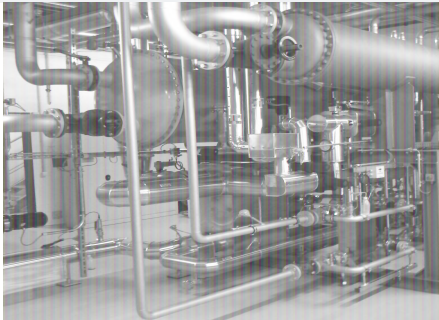
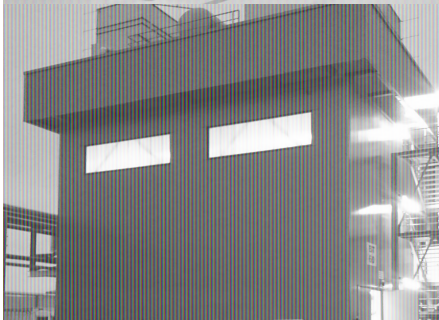



ARP-2496

Country of installation: Germany
 Application: Ice cream factory
 Driving energy: Hot water 90/82°C
 Refrigeration capacity: 680 kW at -12°C cascade heat exchanger
 Starting operation: Fall 2016





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2016	Food industry	<p><u>ARP-2507</u></p> <p>Country of installation: Germany Application: Food storage Driving energy: Hot water 95/80°C Refrigeration capacity: 380 kW at -8°C cascade heat exchanger Starting operation: Fall 2016</p>	    
2016	Pharmaceutical industry	<p><u>ARP-2236</u></p> <p>Country of installation: Germany Application: Freeze drying Driving energy: Steam Refrigeration capacity: 500 kW at -55°C mean capacity, peak load of 1000 kW Starting operation: Fall 2016</p>	
2015	Chemical industry	<p><u>ARP-2089</u></p> <p>Country of installation: Russia Application: Ammonia production Driving energy: Steam 2 barg Refrigeration capacity: 12200 kW at -10°C Starting operation: Summer 2015</p>	
2013	Food industry	<p><u>ARP-1179</u></p> <p>Country of installation: Germany Application: Pressurised water of 110/100°C Driving energy: 350 kW at -7°C Refrigeration capacity: Starting operation: June 2013</p>	
2013	District Heating	<p><u>AHP-1922</u></p> <p>Country of installation: Germany Application: Heating of flats Driving energy: Pressurised water of 175/160°C Heating capacity: 500 kW at 40/50°C Starting operation: Autumn 2013</p>	

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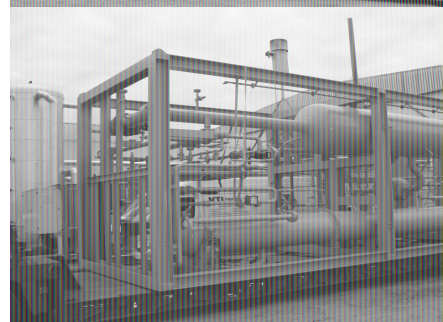
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2013	Food industry	ARP-1583 Country of installation: Italy Application: Driving energy: Steam at 10 bar Refrigeration capacity: 1000 kW at -40°C Starting operation: Spring 2013
2013	Food industry	ARP-2086 Country of installation: Sweden Application: Dairy Driving energy: Hot water at 90/70°C Refrigeration capacity: 240 kW at -8°C Starting operation: Autumn 2013
2012	Food industry	ARP-1743 Country of installation: Spain Application: Driving energy: Water 107°C / 82°C Refrigeration capacity: 800 kW at -12°C Starting operation: Summer 2012
2012	Chemical industry	ARP-1825 Country of installation: Germany Application: Operation of scratch-coolers Driving energy: Steam at 12 bar Refrigeration capacity: 3000 kW at -32°C Starting operation: December 2012
2011	Coffee industry	ARP-1709 Country of installation: Russia Application: Freeze drying of coffee Driving energy: Steam 17 bar Refrigeration capacity: 1600 kW at -58°C, -52°C (2-stage) Starting operation: Winter 2011



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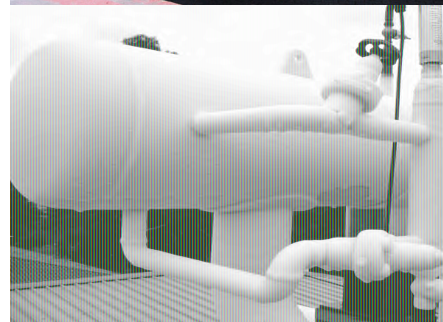
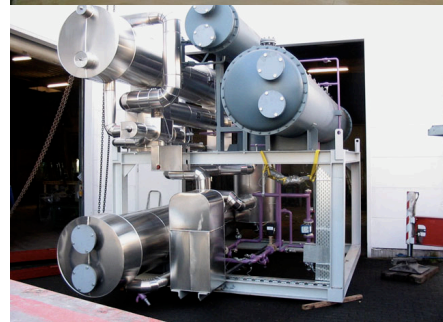
2011	Food industry	<p>ARP-1737</p> <p>Country of installation: Germany Application: Dairy industry Driving energy: Hot water at 93/82°C Refrigeration capacity: 320 kW at -9°C Starting operation: Autumn 2011</p>
2011	Coffee industry	<p>ARP-1440</p> <p>Country of installation: Mexico Application: Freeze drying of coffee Driving energy: Steam 14 bar Refrigeration capacity: 1300 kW at -54°C, -49°C (2-stage) Starting operation: 2011</p>
2011	Coffee industry	<p>ARP-1611</p> <p>Country of installation: China Application: Freeze drying of coffee Driving energy: Steam 14 bar Refrigeration capacity: 780 kW at -54°C, -49°C (2-stage) Starting operation: 2011</p>
2010	Food industry	<p>ARP-1225</p> <p>Country of installation: Spain Application: Driving energy: Steam 6 bar Refrigeration capacity: 800 kW at -12°C Delivery: 2010</p>
2010	Chemical industry	<p>ARP-991</p> <p>Country of installation: Egypt Application: (Poly)propylene-factory Driving energy: Process gas Refrigeration capacity: 10000 kW at -11°C, +8°C (2-stage) Starting operation: July 2010</p>





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2009	Ice rink	ARP-1387	Country of installation: Sweden Application: Refrigeration for an ice rink Driving energy: Hot Water at 98°C Refrigeration capacity: 150 kW at -12°C Starting operation: September 2009
		ARP-1172	Country of installation: Portugal Application: Storage cooling Driving energy: Steam 6 barg Refrigeration capacity: 2450 kW at -34°C, -10°C (2-stage) Starting operation: September 2009
2008	Food industry	ARP-1274	Country of installation: United Kingdom Application: Cold Storage Supermarket Driving energy: Hot Water at 120°C Refrigeration capacity: 500 kW at -13°C Starting operation: May 2008
		ARP-1319	Country of installation: Spain Application: Food processing Driving energy: Steam 8 bar Refrigeration capacity: 220 kW at -43°C Starting operation: April 2008
2008	Coffee Industry	ARP-1096	Country of installation: Russia Application: Freeze drying of coffee Driving energy: Steam 17 bar Refrigeration capacity: 3200 kW at -58°C, -52°C (2-stage) Remarks: 1st capacity extension Starting operation: Winter 2008





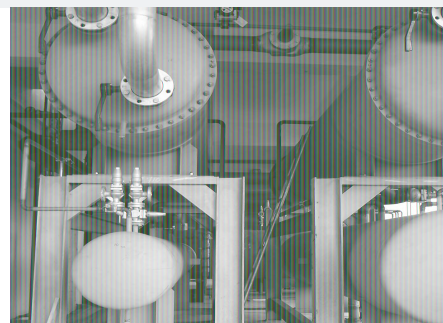
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2007 **Coffee industry**

ARP-1092

Country of installation: India
Application: Freeze drying of coffee
Driving energy: Steam 15 bar
Refrigeration capacity: 740 kW at -55°C, -48°C (2-stage)
Starting operation: January 2007



2007 **Coffee industry**

ARP-1096

Country of installation: Russia
Application: Freeze drying of coffee
Driving energy: Steam 17 bar
Refrigeration capacity: 1600 kW at -58°C, -52°C (2-stage)
Starting operation: Winter 2007



2006 **Ice rink**

ARP-965

Country of installation: Sweden
Application: Refrigeration for an ice rink
Driving energy: Pressurised water of 115/105°C
Refrigeration capacity: 250 kW at -15°C
Starting operation: November 2006



2006 **Food industry**

ARP-1186

Country of installation: Germany
Application: Cold Storage of apples
Driving energy: Pressurised water of 110/90°C
Refrigeration capacity: 280 kW at -12°C
Starting operation: December 2006



2004 **Coffee industry**

ARP-874

Country of installation: Germany
Application: Freeze drying of coffee
Driving energy: Steam 18 bar
Refrigeration capacity: 1600 kW at -58°C, -50°C (2-stage)
Starting operation: August 2004



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2003 **Chemical industry**

ARP-805

Country of installation: Germany
 Application:
 Driving energy: Steam 0,5 bar
 Refrigeration capacity: 550 kW at 0°C
 Starting operation: November 2003



2003 **Chemical industry**

ARP-394

Country of installation: The Netherlands
 Application: Chemical process cooling
 Driving energy: Steam of 14 bar
 Refrigeration capacity: 6500 kW at -60°C, -48°C, -12°C (3-stage)
 Starting operation: January 2003



2002 **Coffee industry**

ARP-626

Country of installation: Germany
 Application: Freeze drying of coffee
 Driving energy: Gas burner
 Refrigeration capacity: 2200 kW at -55°C
 Starting operation: December 2002



2000 **Food industry**

ARP-144

Country of installation: Spain
 Application: Meat industry
 Driving energy: Pressurised water at 160/140°C
 Refrigeration capacity: 2500 kW at -17°C
 Starting operation: March 2000



2000 **Chemical industry**

ARP-398

Country of installation: Germany
 Application: Petrol refinery
 Driving energy: Steam at 11 bar
 Refrigeration capacity: 2700 kW at -30°C
 Starting operation: May 2000



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