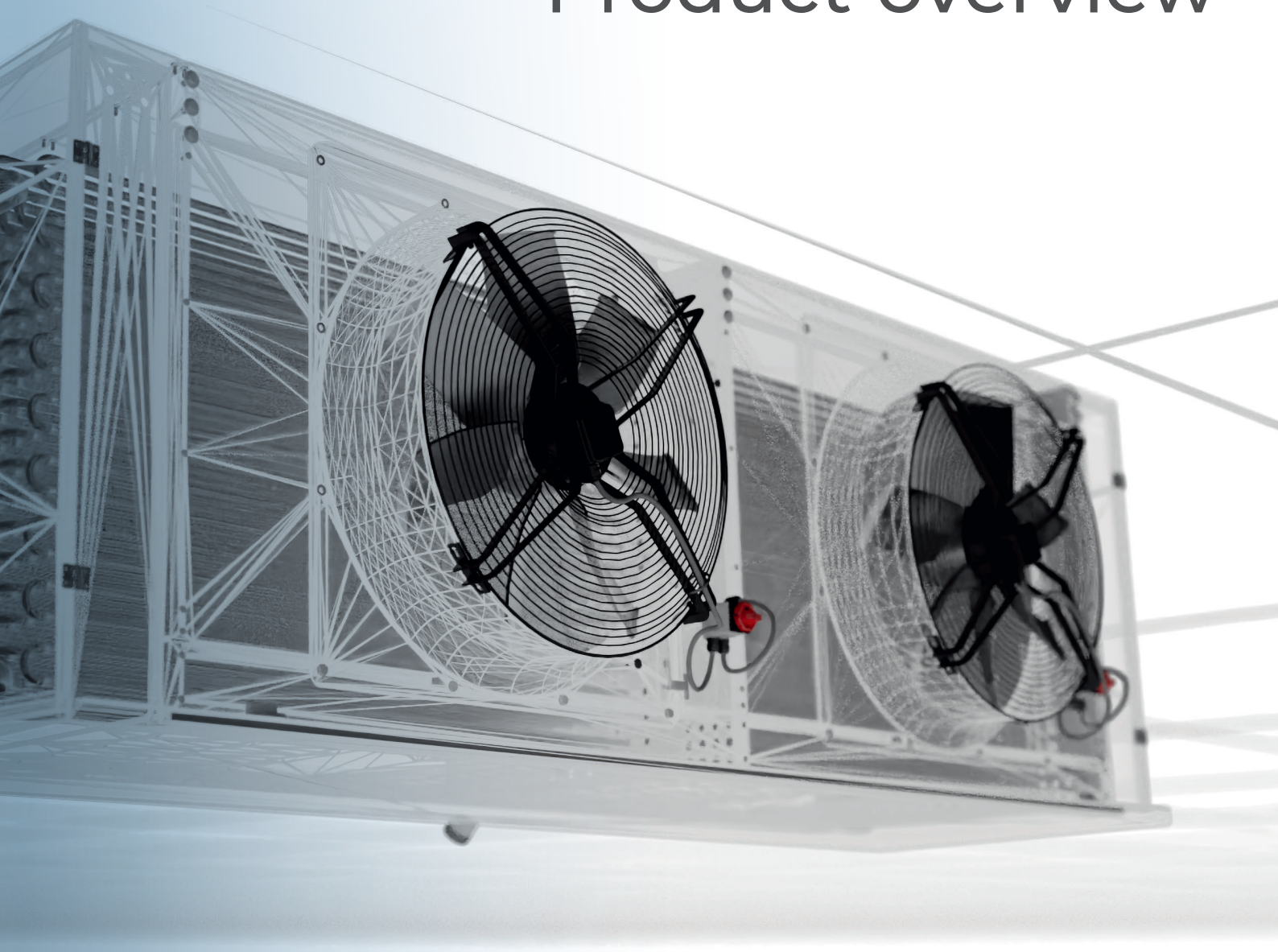
Commercial and industrial refrigeration

Product overview



CABERO

The company

CABERO is an independent, innovative full-range supplier and leading manufacturer of heat exchangers for refrigeration and air-conditioning technology.

Company

The sales organisation founded in 1980 by Tino Cabero Sr. has established itself as one of the leading full-range suppliers of heat exchangers for refrigeration and air-conditioning technology. In addition to the company's sales headquarters near Munich, CABERO is represented by production sites in Germany, China and Hungary, while 17 national and international sales offices process customer requirements in over 42 countries.

CABERO in Moorenweis

Selection

All our customer advisors work with specially developed software based on thermodynamic algorithms. They design an ideal, complete or bespoke solution, including a range of accessories, and take all the requirements into account. The operational costs for the required system can, of course, be included in the calculation.

Production site in Kaposvár, Hungary

Philosophy

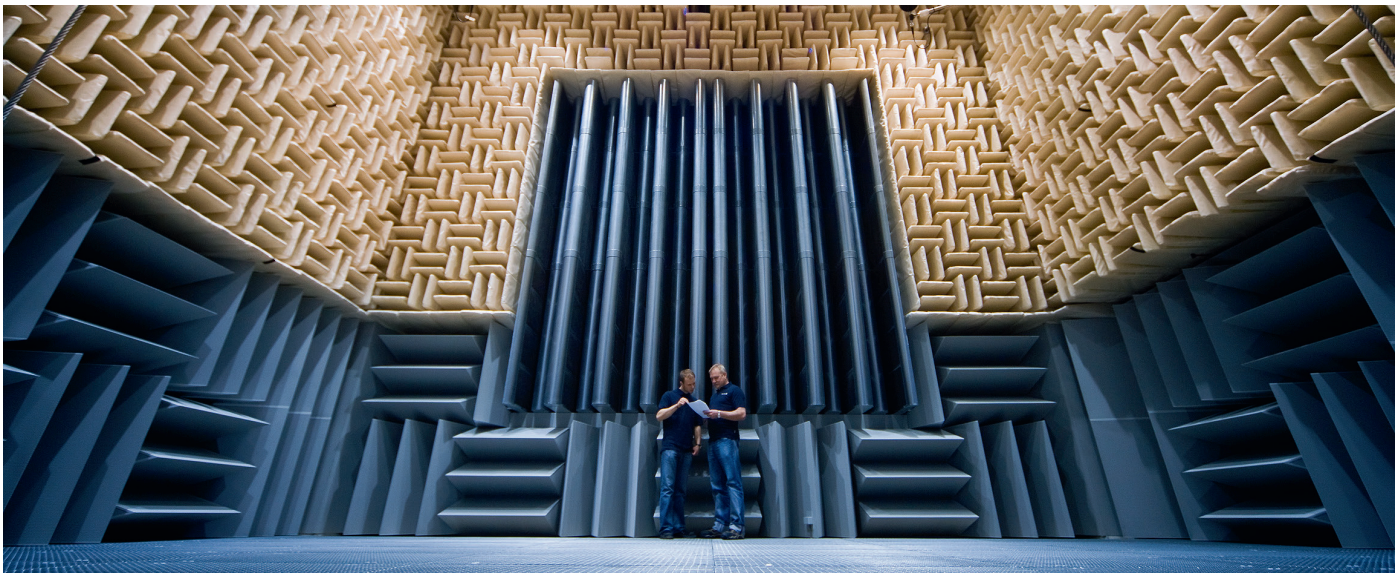
The company always ensures that its development and implementation activities adequately reflect the dynamic market. This allows CABERO to provide sustainable solutions that meet the changing needs of its customers and operators: A factor that contributes to the success of a project.

Claim

CABERO relies on its own high quality standards. This means professional and experienced employees, low staff turnover, state-of-the art production engineering and strict final inspections. All products are designed and developed in Germany. The production sites are software-supported, which ensures just-in-time completion and electronically monitored compliance with the quality standards.

The company

Flexibility, combined strengths and the necessary responsibility towards projects and technical innovations create the required performance for holistic success.

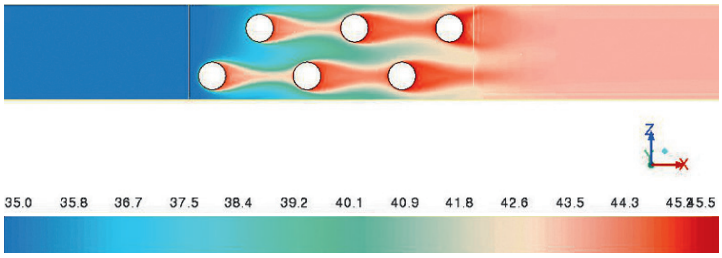


Service portfolio

The projects are supervised by sales engineers, from the design and requirement optimisation stages through to commissioning. All data can be analysed by test runs and measurements. To this end, performance tests are carried out either at internal test benches or at DMT TÜV Nord. The following analysis results can be achieved:

- Material tests
- X-ray analyses
- Vibration tests
- Wind and snow load calculations
- Flow simulations.

Test tanks for final inspections



Flow simulation

- HACCP – A certificate for both companies (Cabero Kft, Cabero Industrial Kft).
- ISO 9001/2015 – Cabero Kft, Cabero Industrial Kft.
- 2014/68 A2 high-grade steel A2 module – Cabero Kft, Cabero Industrial Kft.
- 2014/68 A2 copper A2 module – Cabero Kft.
- 2014/68 Annex I 3.1 Guideline – Cabero Kft.
- MSZ EN ISO 3834-2-2021 – Cabero Kft.

Product overview

Industrial air coolers and evaporators are used in a range of settings: In all manufacturing, production and storage facilities for foodstuffs and consumer goods.

1 Ceiling-mounted evaporators/air coolers — Industrial series

IEHR	HFCs
IEHRS	HFCs
IEHRS & CO2	CO_2
IEHSA	NH_3

IEHGA	NH_3
IAHB	brine/glycol
IAHBS	brine/glycol

2 Ceiling-mounted evaporators/air coolers — Fruit and vegetable refrigeration

IIEHRV	HFCs
IEHRSV	HFCs
IEHSAV	NH_3

IEHGAV	NH_3
IAHBV	brine/glycol
IAHBSV	brine/glycol

3 Double block evaporators/air coolers — Industry series

IEDH	HFCs
IEDHSS	HFCs
IEDHSA	NH_3
IEDHCO2	CO_2

IEHRS & CO2	CO_2
IEDHB	brine/glycol
IEDHBSS	brine/glycol

4 Blast freezers

IBF	HFCs
IBFSS	HFCs
IBFSA	NH_3
IBFB	brine/glycol
IBFSSCO2	CO_2

5 Insulated coolers

CIK	HFCs
CIKSS	HFCs
CIKSA	NH_3
CIKSS-CO2	CO_2
CIKB	brine/glycol

6 Penthouse coolers

CPK	HFCs
CPKSS	HFCs
CPKSA	NH_3
CPKCO2	CO_2
CPKB	brine/glycol

Product overview

Each device is unique and designed precisely to meet specific requirements. Our experience and our highly specialised software create ideal solutions for each project.

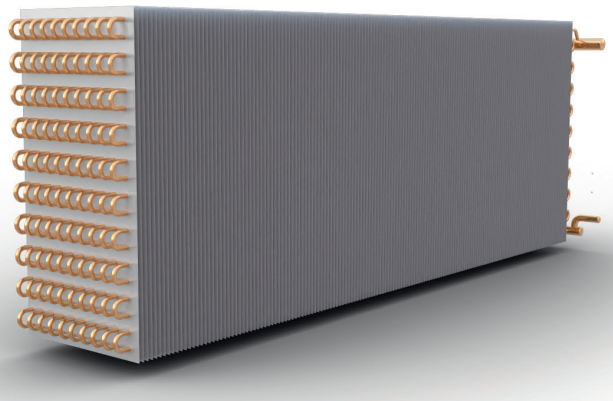
7 Standing evaporators

CSV	HFCs	CSVCO2	CO_2
CSVSS	HFCs	CSVB	brine/glycol
CSVSA	NH_3		

8 Workroom evaporators

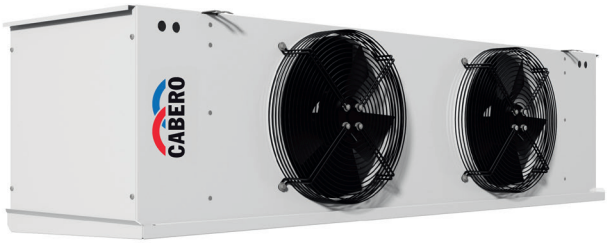
CPC	HFCs	CPCSSCO2	CO_2
CPCSS	HFCs	CPCB	brine/glycol
CPSA	NH_3		

9 Heat exchanger units



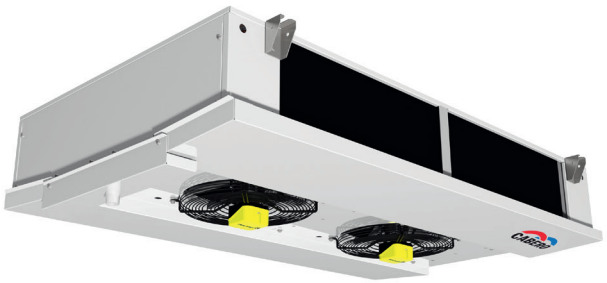
10 Commercial evaporators: CUBIC

CH	HFCs	CHCO2	CO_2
CHSS	HFCs	BCH	brine/glycol
CHSA	NH_3	BCHSS	brine/glycol
CHSSCO2	CO_2		



11 Commercial evaporators: DUAL

DH	HFCs	DHCO2	CO_2
DHSS	HFCs	BCD	brine/glycol
DHSA	NH_3	BCDSS	brine/glycol
DHSSCO2	CO_2		



12 Commercial evaporators: MONO

LPCSA	HFCs	LPCCO2	CO_2
LPCSS	HFCs	BLPC	brine/glycol
LPCSS-CO2	NH_3	BLPCSS	brine/glycol
	CO_2		

Technical details

Customised technology — Every detail is an answer to the requirements on site.

Requirements

Not only do CABERO devices need to comply with general requirements for temperature, operational safety, reliability, noise and hygiene, they also need to comply with product- and environment-specific details such as humidity and air flow. The CABERO product is the answer to all these requirements and therefore plays its part in assuring the quality of the goods – before, during and after production.

People-focused

People's well-being is one of the most important priorities. Care should be taken with all calculations to ensure that employees are in a healthy and positive working environment – in terms of hygiene, noise and draughts. The productivity of each employee can be increased as a result.

Heat exchanger block 1

Pipe spacing 2

Connection system 3

Housing 4

Fans 5

Protective function 6

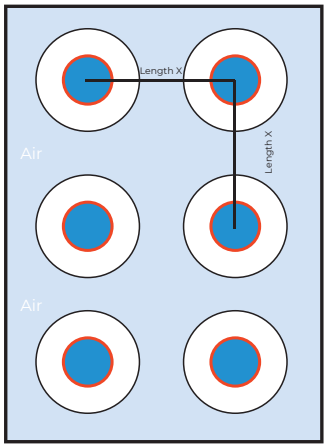
Technical details — benefits for operations and operators.

Heat exchanger block 1

- 12 or 16 mm plain pipes made from copper and 12, 16 or 20 mm made from high-grade steel, hot-galvanized steel or aluminium alloy
- Fin spacing: 4–12 mm or split fin spacing for a longer useful life, made from aluminium, epoxy, AlMg 2.5 or AlMg 3, high-grade steel, copper or steel, hot-galvanized
- Operating pressures up to 45 bar (copper) or 90 bar (high-grade steel).

Pipe spacing 2

Pipes in industrial heat exchangers are parallel or in-line. The resulting distances ensure higher temperatures between the pipes, which seeks to reduce frost formation and dehumidification and results in the following benefits:



- Better long-distance throwing properties
- Reduced air dehumidification and reduced frost formation
- Greater weight and volume retention in chilled goods
- Reduced energy, operating and maintenance costs
- Reduced defrost cycles and compressor run times
- Longer shelf life of goods.

Connection system 3

Flexible configuration of the cooling connections (side or top), optional welding sleeve for transitions to steel or high-grade steel piping, welded condensate drain.

Housing 4

High-grade steel or hot-galvanized steel, powder coated, in RAL 9010 before assembly.

Fans 5

300–900 mm in diameter, IP54 standard, suction or pressure operated execution, AC- or energy-saving EC fans, controlled by 0–10 V, 4–20 mA or a Modbus signal. All motors comply with the ErP 2015 directive.

The protective function of the ventilators 6

Fault signal relay with dry contacts

- Skid control
- Phase failure detection
- Soft motor start
- Mains under-voltage detection
- Overheating protection for the electronics and the motor
- Low-temperature greasing

Short-circuit protection, low-noise and air-volume optimised, protective grille with KTL coating or high-grade steel, industrial fans with standard motors for high external pressure (e.g. for rapid cooling processes)

- Extensive options for cabling and control
- Pre-wiring
- Streamers included (guide wheel/long-throw nozzle)
- DoD control (Defrost on Demand).

Ceiling-mounted evaporators

Industry series

Ceiling-mounted evaporators/air coolers — Industry series

Application	Refrigeration					Air-conditioning	
	Industry						
Execution	IEHR	IEHRS	IEHRS & CO2	IEHSA	IEHGA	IAHB	IAHBS
Geometry	in-line						
Range of capacity	50–200 kW			40–160 kW		20–90 kW	
Fin count	4, 7, 10, 12, 8–16				5, 8, 12	4, 7, 10, 12, 6–12, 8–16	
Medium	HFCs		CO_2	NH_3		brine, glycol	
Pipe material	Cu		High-grade steel		zinc-plated	Cu	High-grade steel
Fin	Aluminium, epoxy, $AlMg_3$, high-grade steel				zinc-plated	Aluminium, epoxy, $AlMg_3$, high-grade steel	
Air stream direction	horizontal, one-sided						

Details

Pipe spacing in-line

Defrosting:
- Defrosting flaps
- Electrical, hot gas, brine or water

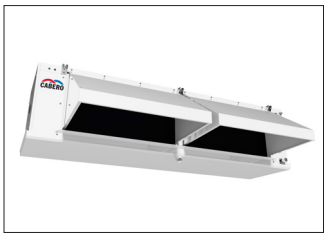
Air distribution:
Targeted air distribution for cooling specific areas

Hygiene:
Folding components allow easy access for cleaning the device from the inside.

Construction:
- Different housing heights
- Welded condensate drains
- FeZn housing
- $AlMg_{3\ tray}$
- Powder coated in RAL 9010, cut edges painted.

Optional equipment

- Downstream heating coil (electric or heat exchanger)
- Fan ring heater
- Double and insulated tray
- Defrosting flap
- Shut-up with discharge hoods
- Suction/discharge hoods
- Mounting feet
- Welding sleeve
- Folding fans
- Streamers (guide wheel/long-throw nozzle)
- Air hose connections
- Repair switch, wired to the fan
- EC fans
- DoD controls (Defrost on Demand)
- Housing made from high-grade steel or $AlMg_3$
- Special fin distance
- Side cover with a hinge and quick release fastener.



Ceiling-mounted evaporators

Fruit and vegetable refrigeration

Ceiling-mounted evaporators/air coolers — for fruit and vegetable refrigeration

Application	Refrigeration				Air-conditioning	
	Industry					
Execution	IEHRV	IEHRSV	IEHSAV	IEHGAV	IAHBV	IAHBSV
Geometry	in-line					
Range of capacity	5–200 kW		5–160 kW		10–90 kW	
Fin count	4, 7, 10, 12, 8–16				10, 12, 6–12, 8–16	
Medium	HFCs		NH_3		brine, glycol	
Pipe material	Cu		High-grade steel		Cu	High-grade steel
Fin	Aluminium, epoxy, $AlMg_3$			High-grade steel	Aluminium, epoxy, $AlMg_3$, high-grade steel	
Air stream direction	Pressure-operated execution				horizontal, exhaust on one side	

Fruit and vegetable refrigeration

Details

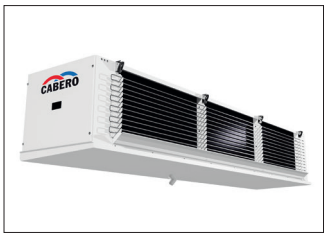
Defrosting:
- Electric, hot gas, brine or water

Quality management:
In-line pipe spacing and large fin exchange surfaces
for reduced air dehumidification and frost formation.
This means that chilled goods lose less weight and quality.

Construction:
- Air deflector on air outlet to increase airflow
- SlimLine – flat housing design
- Welded condensate drains
- Housing: FeZ, tray: $AlMg_3$
- Powder coated in RAL 9010
- Cut edges painted.

Optional equipment

- Double and insulated tray
- Defrosting flaps
- Discharge hoods
- Mounting feet
- Folding fans
- Repair switch, wired to fan
- Housing made from high-grade steel or $AlMg_3$
- Downstream heating coil (electric or heat exchanger)
- Special fin distance
- Side cover with a hinge and quick release fastener
- DoD control (Defrost on Demand)
- EC fans.



Double block evaporators

Industry series

Ceiling-mounted evaporators/air coolers — Industry series

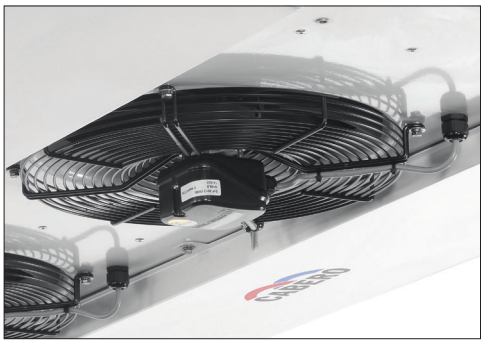
Application	Refrigeration					Air-conditioning	
	Industry						
Execution	IEDH	IEDHSS	IEDHSA	IEDHSSCO2	IEDHCO2	IEDHB	IEDHBSS
Geometry	in-line						
Range of capacity	5–80 kW		40–160 kW	5–80 kW		5–90 kW	
Fin count	4, 7, 10		4, 7, 10, 12	4, 7, 10			
Medium	HFCs		NH_3	CO_2		brine, glycol	
Pipe material	Cu	High-grade steel			Cu	High-grade steel	
Fin	Aluminium, epoxy, $AlMg_3$, high-grade steel						
Air stream direction	horizontal, exhaust on both sides, pressure operated						

Details

Defrosting:
Electrical, hot gas, brine or water

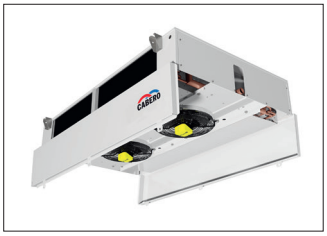
Hygiene:
The trays fold and there are optional fan plates
allow easy access for cleaning the device from the inside.

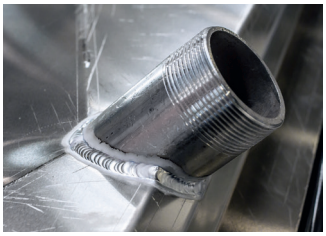
Construction:
- Welded condensate drains
- Flat design
- FeZ housing, $AlMg_{3\ tray}$, powder coated in RAL 9010
- Cut edges painted.



Optional equipment

- Downstream heating coil
- Double and insulated tray
- Mounting feet
- Welding sleeve
- Folding fans
- Repair switch, wired to fan
- DoD control (Defrost on Demand)
- EC fans.





Blast freezers

Effective cooling and deep-freezing in the shortest possible time.

Blast freezers

Application	Refrigeration				Air-conditioning
	Industry				
Execution	IBF	IBFSS	IBFSA	IBFSSCO2	IBFB
Geometry	in-line				
Range of capacity	5–250 kW				
Fin count	8, 10, 12, 6–12, 8–16, 10–20, 12–24				
Medium	HFCs		NH_3	CO_2	glycol, brine
Pipe material	Cu	High-grade steel			Cu
Fin	Aluminium, epoxy, $AlMg_3$, high-grade steel				
Air stream direction	horizontal, one-sided				

Effective cooling and deep-freezing in the shortest possible time.

Details

Air distribution:
Targeted air distribution for cooling specific areas

Flexibility:
Different performance levels and air volume flows –
as required (customer-specific requirements for external pressure
and air throw)

Sustainability:
Double or triple fin distances extend the operating time between defrost cycles for greater efficiency

Defrosting:
Electrical, hot gas, brine or water

Construction:
- Welded condensate drains
- Flat design
- FeZ housing, $AlMg_{3\ tray,}$ powder coating in RAL 9010
- Cut edges painted.

Optional equipment

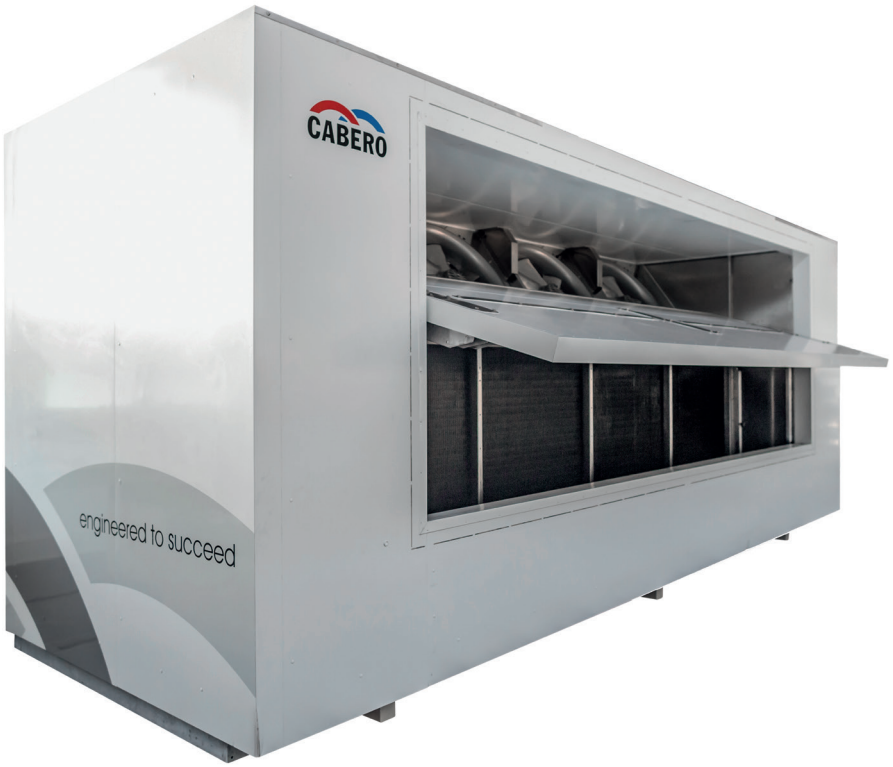
- Fan ring heater
- Double and insulated tray
- Mounting feet or ceiling suspension
- Welding sleeve
- Folding fans
- Repair switch, wired to fan
- Reinforced plenum design
- Reinforced fans
- DoD control (defrost on demand)
- Housing made from high-grade steel
- Special fin distance
- Slanting fan plenum
- Defrost hoods.

Insulated coolers

Installation site separate from warehouse

Insulated coolers

Application	Refrigeration				Air-conditioning
	Industry				
Execution	CIK	CIKSS	CIKSA	CIKSSCO2	CIKB
Geometry	in-line or offset				
Range of capacity	5–300 kW				
Fin count	8, 10, 12, 16, 8–16				
Medium	HPCs		NH_3	CO_2	glycol, brine
Pipe material	Cu	High-grade steel			Cu
Fin	Aluminium, epoxy, $AlMg_3$, high-grade steel				
Air stream direction	horizontal, one-sided				



Installation site separate from warehouse

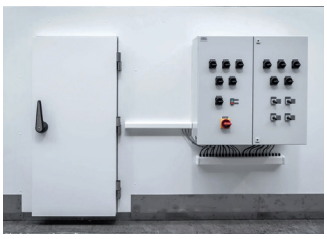
Details

Execution:
- Insulating cell (vapour tight) with wall thickness of 80–200 mm
- Lockable access doors (vapour tight)
- Walkable, slanting, waterproof base plate made of high-grade steel
- Interior lighting
- Automatic flap control
- Control cabinet with various interfaces
- Axial fans in IP54 and IP66
- All components factory installed inside the insulating chamber.

Defrosting:
Electrical, hot gas or brine

Product-specific benefits:
- Good accessibility for service and maintenance at ambient or defrost temperature
- Saves on space thanks to max. utilisation of storage space
- Protection from damage from forklifts
- Convenient technical inspection, regardless of room layout
- Ideal for difficult spaces
- A flap separates the cooling compartment from the insulated cooler. This means that we can exclude virtually all heat input during the defrosting process
- Efficient and rapid defrosting when the flap is closed thanks to the air recirculation mode.

Optional equipment



- High-grade steel cell
- Weatherproof roof for installation outdoors
- Door frame elect. heated
- DoD control (defrost on demand)
- External connections
- Radial fans
- EC fans.

Penthouse cooler

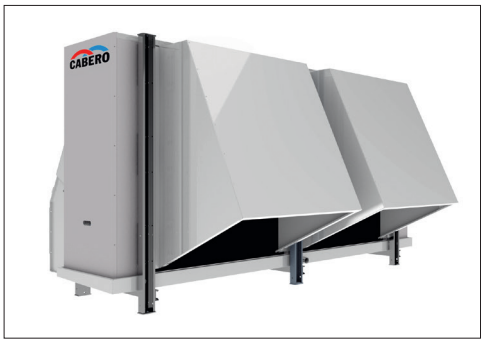
Ideal for difficult space conditions

Penthouse cooler

Application	Refrigeration				Air-conditioning
	Industry				
Execution	CPK	CPKSS	CPKSA	CPKCO2	CPKB
Geometry	in-line				
Range of capacity	50–200 kW		30–200 kW		
Fin count	8, 10, 12, 16, 8–16				
Medium	HFCs		NH_3	CO_2	glycol, brine
Pipe material	Cu	High-grade steel			Cu
Fin	Aluminium, epoxy, $AlMg_3$, high-grade steel				
Air stream direction	Vertical air intake and vertical exhaust				

Ideal for difficult spaces

Details



Execution:
- Air intake via warehouse roof
- Fan arrangement ensures optimal air flow
- Air duct through closed exhaust vents
- Short ducts: Reduced pressure drop, prevents air short-circuits, variable exhaust direction.

Air distribution:
- The air to be cooled is drawn through the cold room ceiling and blown out via air ducts
- Refrigerant usage can be optimised by arranging devices on the roof.

Efficiency:
- Inspection flaps help with servicing the fans and electrical components
- Optional defrosting flaps prevent heat from entering the cold room while the defrosting process is under way.

Benefits:
- Good accessibility for service and maintenance
- Saves on space thanks to max. utilisation of storage space
- Convenient technical inspection, regardless of room layout
- Ideal for difficult spaces.

Optional equipment

- Air-conditioning coil
- Insulating cell (vapour tight) with insulating wall thickness of 80–200 mm
- Lockable access doors (vapour tight), door frames elect. heated
- All components factory installed inside the insulating chamber
- Intake area with step grille design
- Control cabinet for DoD (defrost on demand) and flap control
- Weatherproof roof for installation outdoors.

Standing evaporators

Free-standing solutions

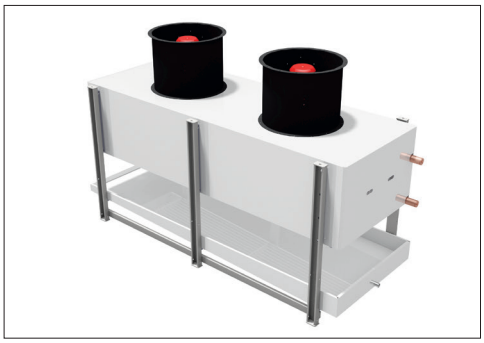
Standing evaporators/air coolers

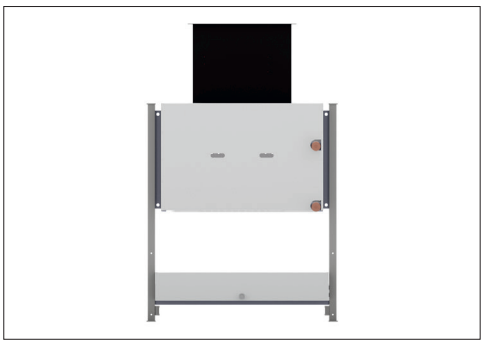
Application	Refrigeration				Air-conditioning
	Industry				
Execution	CSV	CSVSS	CSVSA	CSVCO2	CSVB
Geometry	in-line				
Range of capacity	30–200 kW			30–140 kW	
Fin count	8, 10, 12, 16, 8–16				
Medium	HFCs		NH_3	CO_2	glycol, brine
Pipe material	Cu	High-grade steel			Cu
Fin	Aluminium, epoxy, $AlMg_3$, high-grade steel				
Air stream direction	Vertical exhaust				

Details

Execution:

- Housing: FeZn, powder coated in RAL 9010
- AC axial fans for high external pressure
- Duct interface with inspection ports
- Slanted, sloping condensate water tray
- Welded condensate drains.





Optional equipment

- Fan ring heater
- Double, insulated and heated tray
- Repair switch, wired to fan
- Reinforced AC axial fans
- Housing made from high-grade steel
- Special fin distance
- Defrosting flaps
- Inspection ports
- DoD control (Defrost on Demand).

Workroom evaporators

For even greater efficiency and cost savings in building technology

Workroom evaporators/air coolers

Application	Refrigeration				Air-conditioning
	Industry				
Execution	CPC	CPCSS	CPSA	CPCSSCO2	CPCB
Geometry	in-line or offset				
Range of capacity	5–42 kW				
Fin count	8, 10, 12, 16, 8–16				
Medium	HPCs		NH_3	CO_2	glycol, brine
Pipe material	Cu	High-grade steel			Cu
Fin	Aluminium, epoxy, $AlMg_3$, high-grade steel				
Air stream direction	Intake from above, exhaust via the block				

For even greater efficiency and cost savings in building technology

Details

Defrosting:
Electric, hot gas or brine

Quality management:
- In-line pipe configuration and large fin exchange surfaces for reduced dehumidification
- 'Draft-free' operation via special air flow; suitable for use in processing facilities and workrooms
- Quiet due to low-speed fans.

Construction:
- Folding drip trays with quick-release fasteners allow access to all components, and therefore easy cleaning and inspection
- Height-adjustable ceiling hangers
- Welded condensate drains
- Housing made from $AlMg_3$, powder coated in RAL 9010
- Cut edges painted.

Optional equipment

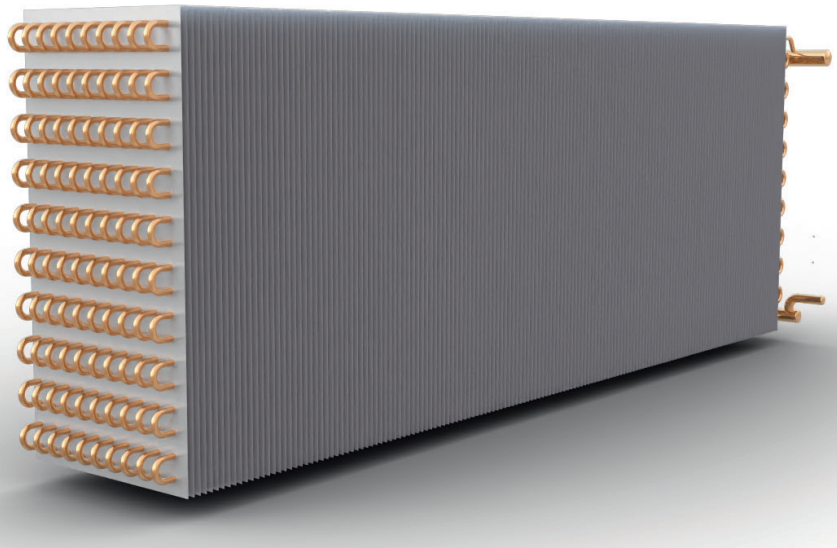
- Downstream heating coil
- EC fans
- Double and insulated tray
- Special fin distance
- Housing made from high-grade steel
- Repair switch, wired to fan.

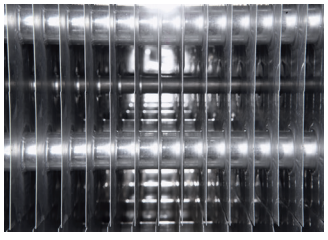
Heat exchanger units

Flexible cooling, as required

Heat exchanger units — Industry series

Application	Refrigeration
	Industry
Geometry	offset: 2522/3732/5527,5; in-line: 5555
Range of capacity	0.5–1,000 kW
Fin count	customer-specific from 1.5–12 mm
Medium	All common refrigerants, oil, glycol, brine, propane
Pipe material	Cu, high-grade steel, aluminium o 3/8“, 12 mm, 5/8“, 20 mm
Air stream direction	horizontal or vertical





Flexible cooling, as required

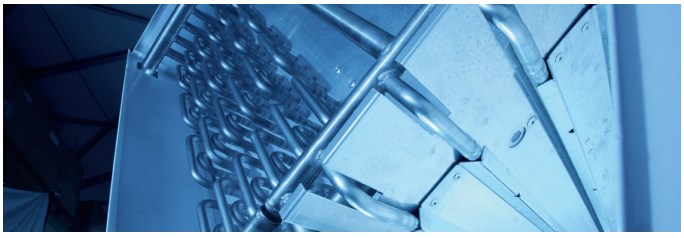
Details

Flexibility:
The heat exchanger coil specially developed according to thermodynamic requirements with a selection of different pipe configurations, pipe diameters, fin spacings and a complete selection of materials – optimised to suit application and use.

Defrosting:
Hot gas, electrical, brine circuit, water

Optional equipment

- Mounting feet
- Condensate tray
- Housing on the air intake/exhaust
- Welding sleeve.

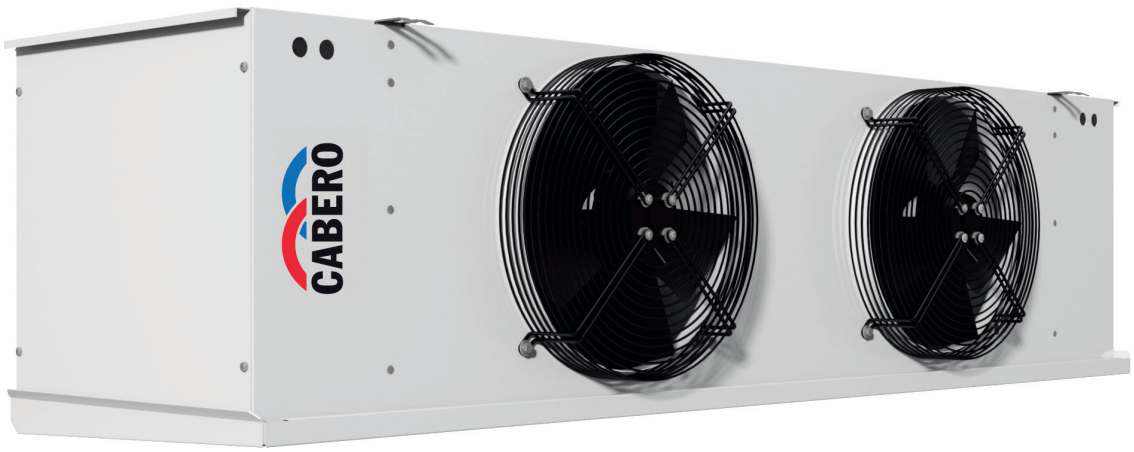


CUBIC

Evaporators/air coolers in commercial use

Evaporators/air coolers

Application	Refrigeration						
	Commercial						
Execution	CH	CHSS	CHSA	CHSSCO2	CHCO2	BCH	BCHSS
Geometry	offset						
Range of capacity	0.5–60 kW						
Fin count	4, 7						
Medium	HPCs		NH_3	CO_2		glycol, brine	
Pipe material	Cu	High-grade steel			Cu	High-grade steel	
Fin	Aluminium, epoxy, $AlMg_3$, high-grade steel						
Air stream direction	horizontal, one-sided						



Evaporators/air coolers in commercial use

Details

Pipe spacing:
offset

Air distribution:
Suction

Defrosting:
Electrical, hot gas or brine

Hygiene:
Foldable trays, bypass and fan plates allow easy access for cleaning the device from the inside.

Construction:
- Welded condensate drains
- Ceiling suspension with slotted hole
- Unit dimensions optimised for transport and storage
- No condensation in exterior areas due to thermally decoupled drip tray
- Housing made from aluminium or $AlMg_3$ powder coated in RAL 9010, cut edges painted.

Optional equipment

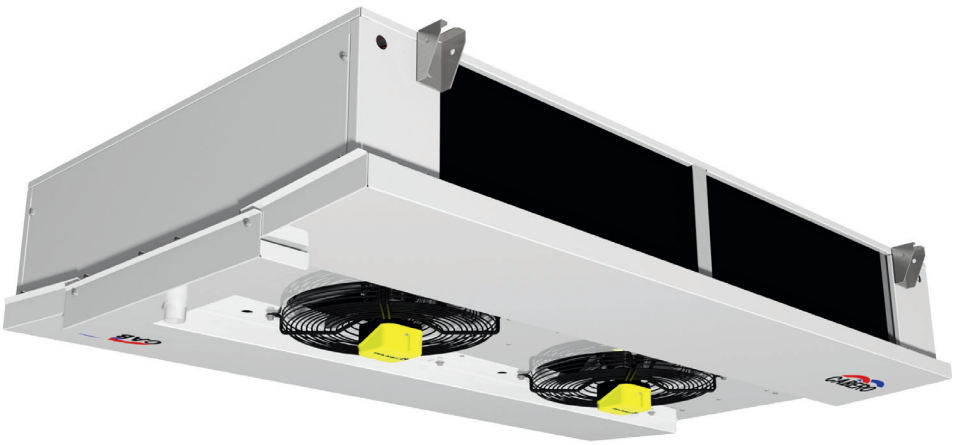
- Fan ring heater
- Double and insulated tray
- Mounting feet
- Folding fans
- Streamers (guide wheel/long-throw nozzle)
- Air hose connections
- Repair switch, wired to fan
- EC fans
- DoD control (Defrost on Demand)
- Housing made from high-grade steel
- Side cover with a hinge and quick release fastener
- Special fins.

DUAL

Evaporators/air coolers in commercial use

Evaporators/air coolers

Application	Refrigeration						
	Commercial						
Execution	DH	DHSS	DHSA	DHSSCO2	DHCO2	BCD	BCDSS
Geometry	offset						
Range of capacity	2–15 kW						
Fin count	4, 7						
Medium	HPCs		NH_3	CO_2		glycol, brine	
Pipe material	Cu	High-grade steel			Cu	High-grade steel	
Fin	Aluminium, epoxy, $AlMg_3$, high-grade steel						
Air stream direction	Air intake from below, exhaust on both sides						



Evaporators/air coolers in commercial use

Details

Pipe spacing:
offset

Air distribution:
Pressure operated

Defrosting:
Electrical, hot gas or brine

Hygiene:
Foldable trays, bypass and fan plates provide easy access for cleaning the devices from the inside.

Construction:
- Welded condensate drains
- Ceiling suspension with slotted hole
- No condensation in exterior areas due to thermally decoupled drip tray.

Optional equipment

- Fan ring heater
- Double and insulated tray
- Mounting feet
- Folding fans
- Repair switch, wired to fan
- EC fans
- DoD control (Defrost on Demand)
- Housing made from high-grade steel
- Special fins
- DoD control (Defrost on Demand).

MONO

Evaporators/air coolers in commercial use

Evaporators/air coolers

Application	Refrigeration						
	Commercial						
Execution	LP	LPCSS	LPCSA	LPSSCO2	LPCO2	BLPC	BLPCSS
Geometry	offset						
Range of capacity	0.5–15 kW						
Fin count	4, 7						
Medium	HPCs		NH_3	CO_2		glycol, brine	
Pipe material	Cu	High-grade steel			Cu	High-grade steel	
Fin	Aluminium, epoxy, $AlMg_3$, high-grade steel						
Air stream direction	Air intake from below, exhaust on one side						

Evaporators/air coolers in commercial use

Details

Pipe spacing:
offset

Air distribution:
Pressure operated

Defrosting:
Electrical, hot gas or brine

Hygiene:
Foldable trays, bypass and fan plates provide
easy access for cleaning the devices from the inside.

Construction:
- Welded condensate drains
- Ceiling suspension with slotted hole
- No condensation in exterior areas
  due to thermally decoupled drip tray
- Flat housing
- Easy to clean.

Optional equipment

- Repair switch, wired to fan
- EC fans
- DoD control (Defrost on Demand)
- Housing made from high-grade steel
- Side cover with a hinge and quick release fastener
- Special fins.

Sample references

Worldwide operations

Evaporators and air coolers

Project	Performance	Device type
Swire Cold Storage	850 kW	CUBIC NH3
KPC Kilcoy	649 kW	CUBIC NH3
An Phat (Godaco) Sea Food	735 kW	CUBIC HPCs
Versacold Logistic	1,230 kW	Penthouse NH3
Kaona Poultry	840 kW	Blast freezer HPCs
V&P Freshfoods	769 kW	Blast freezer
Bangkog Industrial Gas Co.	2,350 kW	Custom-designed NH3
Lanna Agro Industry	1,020 kW	CUBIC NH3
GFPT Poultry Processing	784 kW	Blastfreezer NH3
Tesco Distribution Centre	745 kW	CUBIC NH3
Primo Smallgoods	678 kW	CUBIC NH3
Primo Smallgoods	590 kW	Penthouse glycol

Evaporators and air coolers

Project	Performance	Device type
JBS King Island	1,120 kW	CUBIC NH3
Metcash Distribution Centre	1,340 kW	Penthouse glycol
Coles Distribution Centre	770 kW	Penthouse NH3
Hai Huong Seafood Co.	1,464 kW	Penthouse/ CUBIC NH3
Rand Distribution Centre	1,032 kW	Penthouse/ CUBIC NH3
Carton Freezer Facilitis Manazilo/Ensendada	2,340 kW	Blast freezer/CUBIC NH3
PT Food Processing	545 kW	CUBIC NH3, HFCs
Thai Union Food	764 kW	CUBIC NH3
Yili Industry	59,110 kW	HF, glycol
Haier Carrier	29,260 kW	HF
Jinluo Group	9,080 kW	NH3, HF, glycol
CT Distribution Centre	542 kW	CUBIC NH3

Sample references

Worldwide operations

Evaporators and air coolers

Project	Performance	Device type
Rand Distribution Centre	969 kW	CUBIC NH3
Thai Food, Kabin Buri	855 kW	CUBIC, DUAL NH3 glycol
Salma Cold Storage	1,280 kW	CUBIC NH3
Oishi Food	880 kW	CUBIC NH3, glycol
Rand Distribution	1,370 kW	Penthouse, CUBIC NH3
Coles RRM Distribution	876 kW	CUBIC NH3
EGCT Agricultural	576 kW	CUBIC glycol
EGCT Agricultural	805 kW	CUBIC NH3, glycol
Ingham Food Service	655 kW	CUBIC NH3
Finlay Cold Storage	766 kW	CUBIC NH3
Cargrill Ceylon PLC (KFC, TGI)	565 kW	CUBIC NH3
Yurun	6,000 kW	CUBIC NH3

Worldwide operations

Evaporators and air coolers

Project	Performance	Device type
Furun	3,000 kW	CUBIC NH3
Longda	5,000 kW	CUBIC HPCs
Jinluo	15,000 kW	CUBIC NH3
Baojiashun	5,000 kW	CUBIC NH3
Fuxi	4,000 kW	CUBIC NH3
Muyuan Group	37,000 kW	Glycol, CO2
Shennong	17,400 kW	NH3, HF, glycol CO2
Sam Shop	3,200 kW	CO2
Haipawang International Group	7,630 kW	NH3, HF, CO2

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