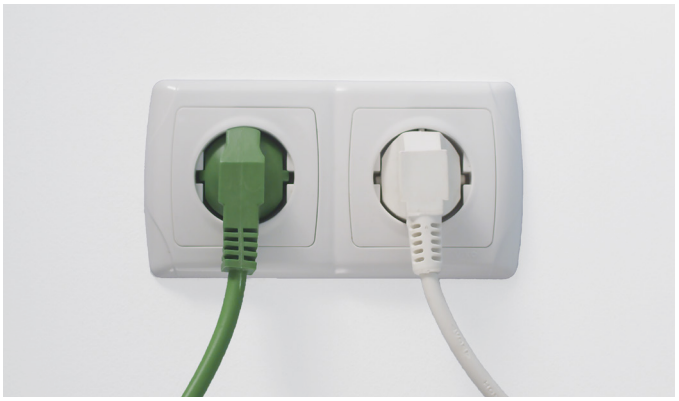
area Cooling Solutions

Smart Solutions
for a Green Future®

Condensing Units Catalogue



EU Designed and manufactured in the EU

areacooling.com

Contents

4 Area Cooling Solutions
7 Consequences of F-GAS & PFAS restrictions
8 Time to go inverter
9 Product Range
10 Smart Solutions for Supermarkets
12 Calculation Software

13 iCOOL™ SE

15 iCOOL™ HFC / HFO

17 Silent Inverter Condensing Units
23 eSLIM Silent Inverter Condensing Units
24 Air Ducted Inverter Condensing Units
25 Water Condenser Inverter Condensing Units
27 Compressor Base Inverter Units
29 Smart flat condensing units

31 iCOOL™ CO_2

35 Heat recovery option
36 Remote control
37 Search engine of cross references
38 Areacademy

Area Cooling Solutions

Designed and manufactured in the EU

ecodesign

TÜVRheinland CERTIFIED

Since 2010, Area Cooling Solutions has been developing a different and innovative range of condensing units, perfectly adapted to any commercial or industrial refrigeration application.

The entire range of AREA condensing units is designed and manufactured in Europe. Our condensing units meet the highest European standards, and they have been TÜV certified.

We offer the most complete range on the market in low temperature (LP) and medium / high temperature (MHP) applications.

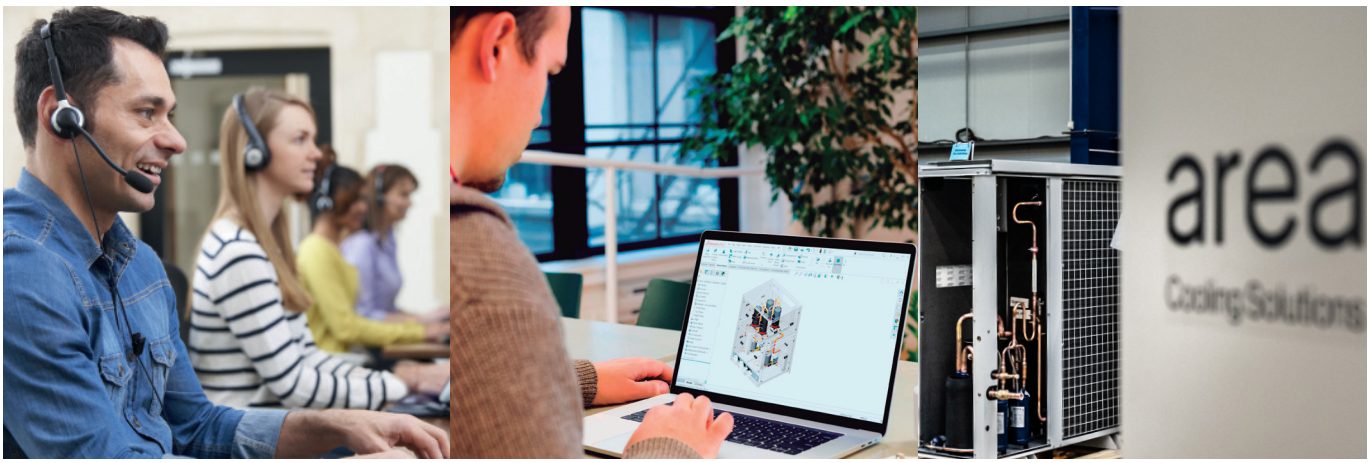
The units can operate under any climate - even in the hottest tropical conditions, with conventional refrigerants, type R448A, R449A, R513A, R134a, A2L (R455A and R454C) and natural refrigerant CO_2 (R744).

Our condensing units combine both tradition and innovation. In order to guarantee the reliability and durability of your installation, AREA condensing units have kept the traditional principles of a refrigeration circuit, offering oil separators, suction accumulator, metal housing, phase controllers, etc. on all our units (standard or optional equipment).

Energy savings, low noise levels and integration of the units in an urban environment are the essence of our innovations.

We were therefore among the first to offer plug&play inverter condensing units, using advanced technologies such as large diameter EC fans (low noise levels), hermetic Panasonic scroll inverter compressors and rotary inverter compressors with liquid injection.

Choosing an AREA condensing unit guarantees an efficient and successful installation of any commercial refrigeration applications, such as petrol stations, convenience stores, butcheries, bakeries, ice machines, cold rooms, milk tanks, restaurants, hotels, catering, industrial kitchens, etc.



We are AREA, the HVAC and Refrigeration Company

Multilingual, native speaker team

Design and production in the EU

Technical support Field/Online

Application expertise

Spare parts management

areacademy
Presential/online training

Since 1986 @ your side for HVAC and Refrigeration projects

We understand your business, and provide you with the best solutions for your new application.

iCOOL™ 13 YEARS

EU Designed and manufactured in the EU

TÜVRheinland CERTIFIED

ISO 9001:2015 CERTIFIED COMPANY

Scan the code to learn more about who we are

Area Cooling Solutions extended its manufacturing potential in the EU

As our company continues to grow, so does the need for our manufacturing and testing capabilities.

In 2022 we have added a new facility located in Wrocław, Poland, that extends our manufacturing floor space by 3000 m^2. It is focused on the production of our standard units, with an additional production capacity of 7000 units/year.

As a next step, we will open a new testing facility. This will be key in helping our R&D engineers develop smart solutions for a green future.

Consequences of F-GAS & PFAS restrictions

Update of the F-gas regulation

Currently, there are three proposals: one from the EU Commission, another from the EU Parliament, and the third from the EU Council of Ministers. In the next step, the propositions will be discussed and presented as the agreed position of the three parties.

At Area we are working on different product range since years in order to offer the best solution according to the final approved regulation.

- For that reason, we are monitoring the process until the final version is released.
- It's clear that if the EU Parliament proposal is adopted, it will lead to a total phase-out of HFC and mixtures, with only the possibility of using natural refrigerants in the majority of applications.

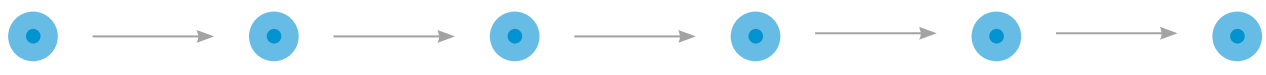
PFAS regulation

The European Chemicals Agency (ECHA) has unveiled a proposal that would ban the production, use, and sale of about 10,000 perand poly-fluoroalkyl substances (PFAS) in the European Union. The proposed ban, which includes time-limited exemptions for some PFAS uses, aims to keep the persistent chemicals out of the environment and reduce human health risks.

Ban of the following gases and mixtures:

In short, all HFCs and HFOs will be affected by the bans except R32 and R152a.

Timeline:



13 January 2023	7 February 2023	22 March 2023	April 2023		
Restriction proposal submitted to ECHA	Proposal made available on ECHA's website	Start of a six-month open consultation	ECHA committees' evaluation	ECHA's committees adopt their opinions	Opinions of ECHA's committees sent to the EU Commission

Time to go inverter

Save your time and cost with iCOOL™, inverter condensing units with large capacity modulation range and multi-refrigerant compliance.

- Easy online selection
- Easy installation
- Easy commissioning
- Easy maintenance
- Low noise
- $T_{amb.}$ up to 43°C

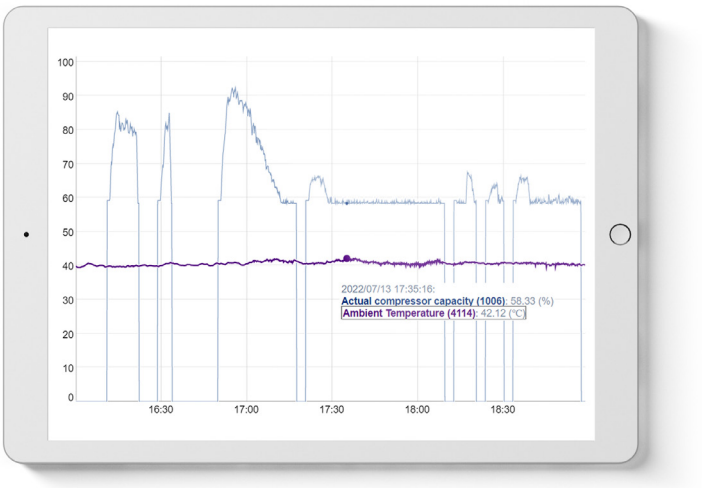
Energy Savings

Comparison of energy consumption between a standard on-off unit and the iCOOL™ condensing unit.

Technology	On-Off	iCOOL™ Inverter
SEPR	2,52	3,54
Annual consumption	25 700 kWh	17 000 kWh
Annual energy cost	10 300 EUR	6 800 EUR

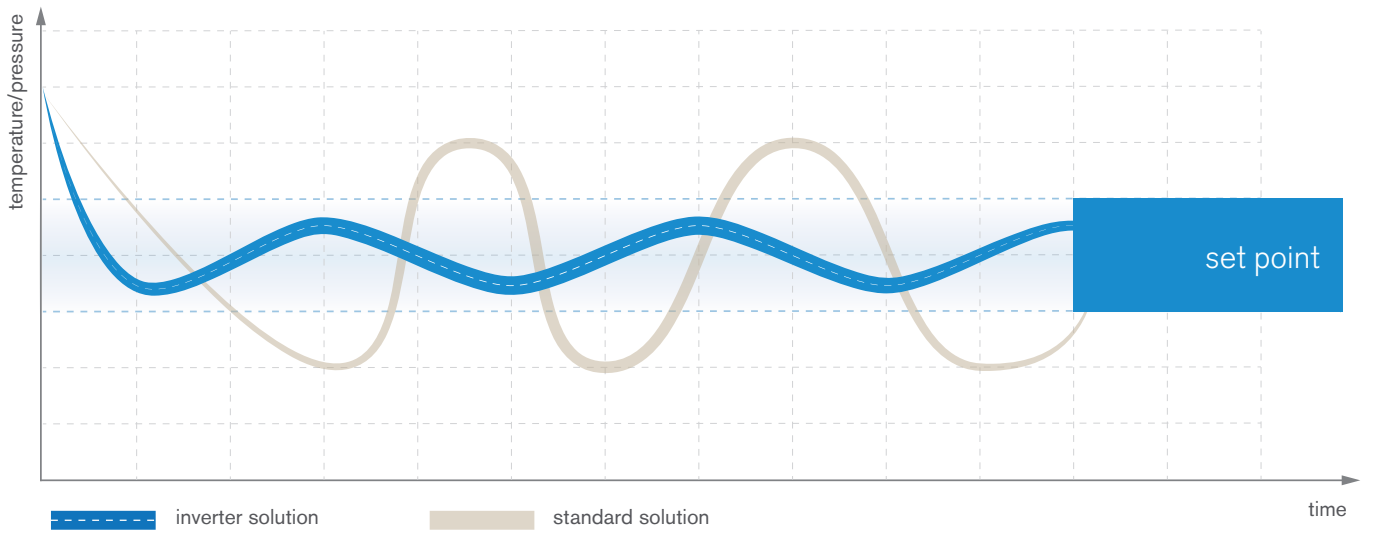
Cooling capacity ~10kW for tev. = - 10 °C and R449A;
Prices: Q3 2023 (1kWh = 0,4 EUR)

Save more than 35 % vs. on-off technology with a payback time of less than 1 year!



The correctly sized integrated condenser/gas cooler ensures no need for an adiabatic ramp and water waste during the heat waves.

Inverter technology - precise regulation



Product range

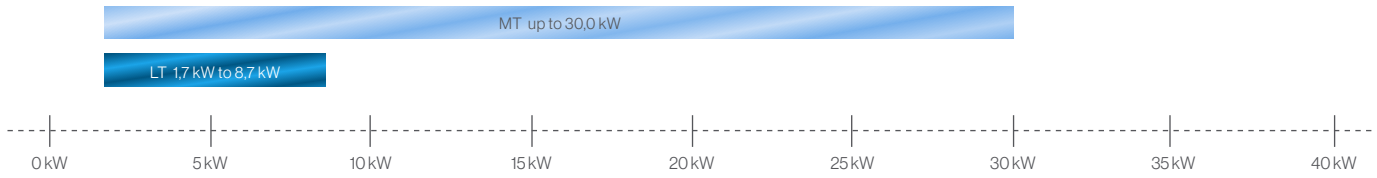
iCOOL™ Different by Nature

Inverter driven condensing units

Designed to operate up to 43ºC ambient temperature

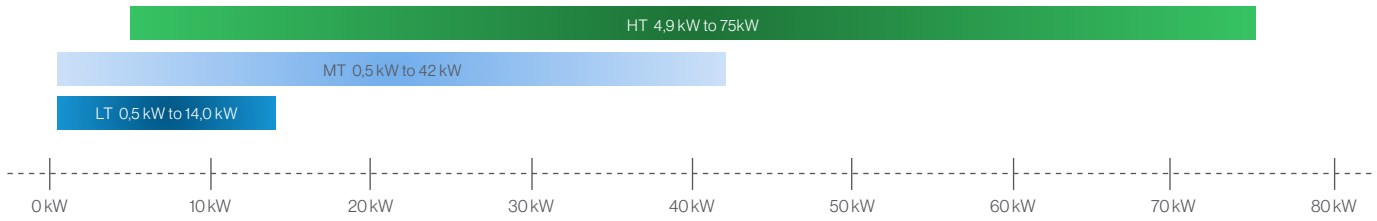
iCOOL™ CO_2

R744



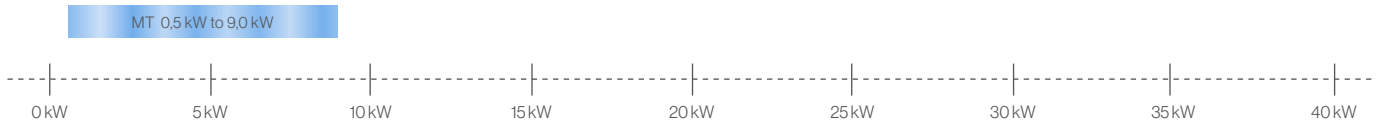
iCOOL™ HFC/HFO

R449A R448A R513A R134a



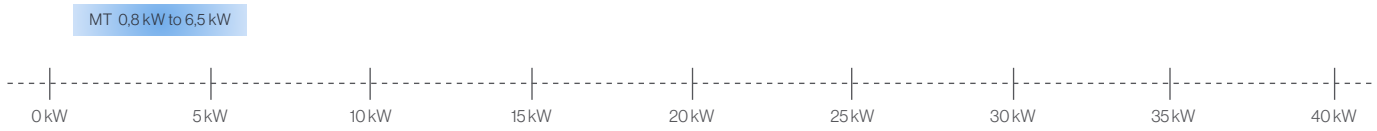
iCOOL™ A2L

R454C R455A



iCOOL™ SE

R449A R448A R513A R134a



HT High Temperature R410A / R407C (Te +5°C / Tamb 32°C)
MT Medium Temperature R449A (Te -10°C / Tamb 32°C)
LT Low Temperature R744 (Te -30°C / Tamb 32°C)

MT Medium Temperature R454C / R455A (Te -10°C / Tamb 32°C)
LT Low Temperature R449A (Te -30°C / Tamb 32°C)
MT Medium Temperature R744 (Te -10°C / Tamb 32°C)

Smart Solutions for Supermarkets (800-2500 m²)

Improve the redundancy of your application with our decentralized cooling systems

Faster & Easier

- Compact & lightweight unit, easy to transport on site
- Integrated gascooler/condenser from factory
- Plug&Play unit
- Smaller diameters and shorter length of piping
- Standard units available in stock

Better Reliability

- No condenser/gas cooler to connect on site
- Less risk of leakage
- 100% tested in the factory
- Spliting of cooling capacity without the risk of total shut down like in centralized solution

Customized to your needs

- Modular solution allowing step by step store remodelling
- Full range with indoor and outdoor solution
- Simple to “add on” cooling capacity

Lower operting costs

- High efficiency, especially at partial loads (SEPR > 3)
- Higher efficiency thanks to optimised parametrization of the evaporators. Evaporating temperature setpoint adapted to the needs
- BLDC hermetic compressor without need for specific maintenance (only oil check)
- Smaller refrigerant charge per circuit

Decentralized solution for a standard ~1200m^2 supermarket

iCOOL 15 CO_2 MT/LT

or

iCOOL 10 MP HFC

- Condensing unit for the freezing chamber
- Capacity ~8KW

iCOOL 15 CO_2 MT/LT + iCOOL 30 CO_2 MT

or

iCOOL 17D MHP HFC + iCOOL 29D MHP HFC

- Condensing unit for the cooling cabinets
- Capacity ~45KW

iCOOL 15 CO_2 MT/LT

or

iCOOL 17D MHP HFC

- Condensing unit for the cooling chamber
- Capacity ~15KW

iCOOL 15 CO_2 MT/LT

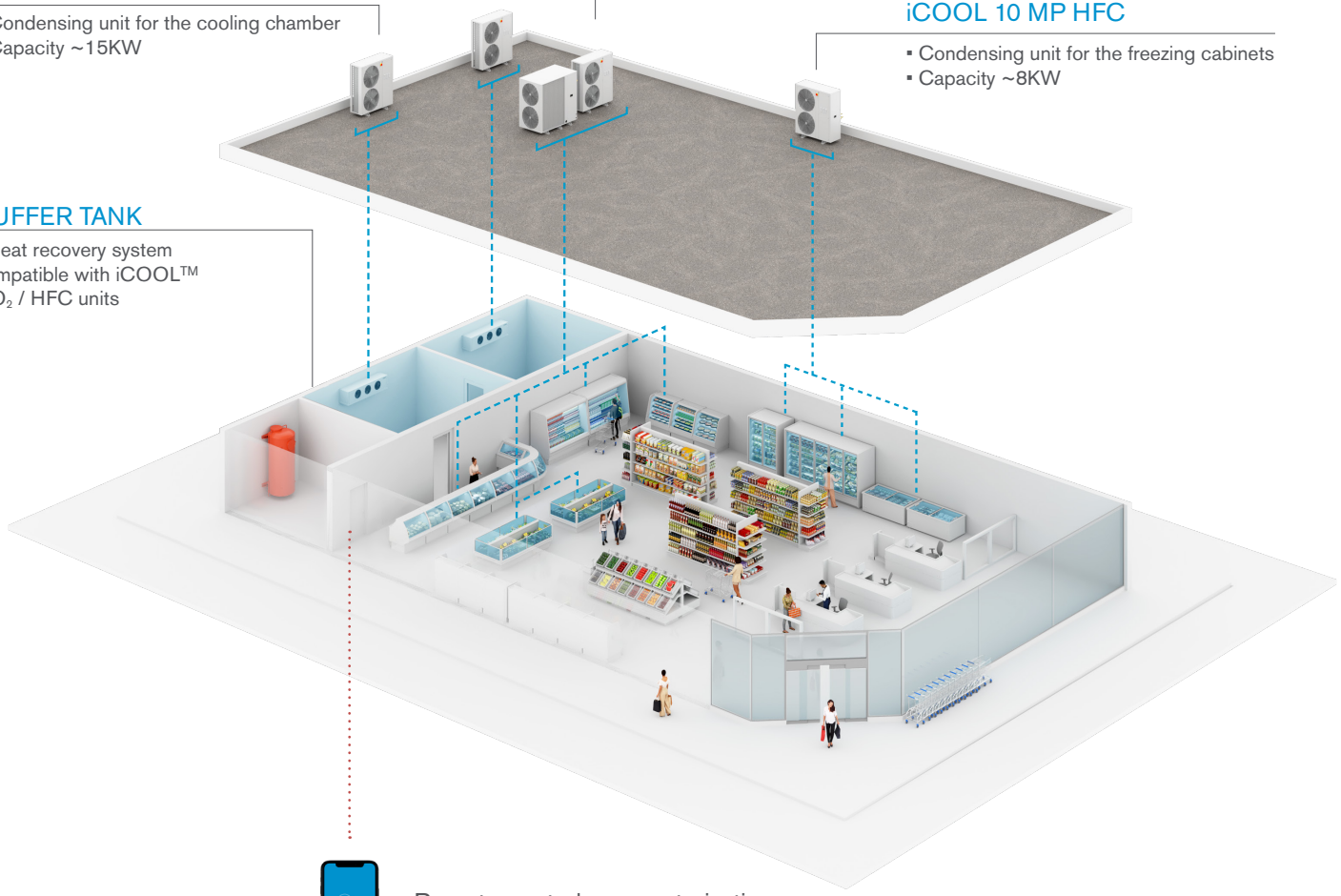
or

iCOOL 10 MP HFC

- Condensing unit for the freezing cabinets
- Capacity ~8KW

BUFFER TANK

- Heat recovery system compatible with iCOOL™ CO_2 / HFC units



Remote control, parameterization and preventive maintenance system

Calculation Software

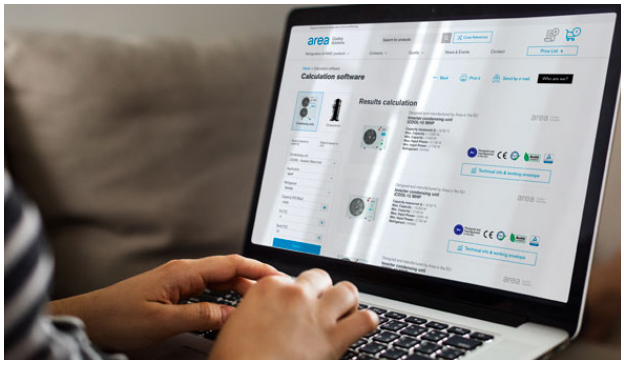
Select your product in the easiest way with our online tool

You can search either by capacity or by a specific product line. You can consult technical information and working envelopes, and you can also print or share the configuration you have made with whomever you wish.

In this way, you will simplify the selection process and will be able to find what fits your needs.

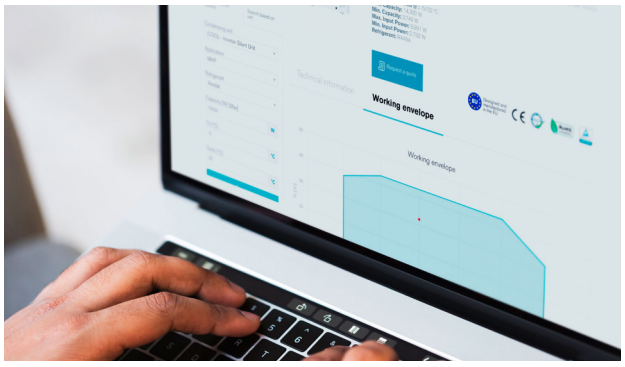
Specify your needs on the form

Search forms based on product type, capacity or model/unit.



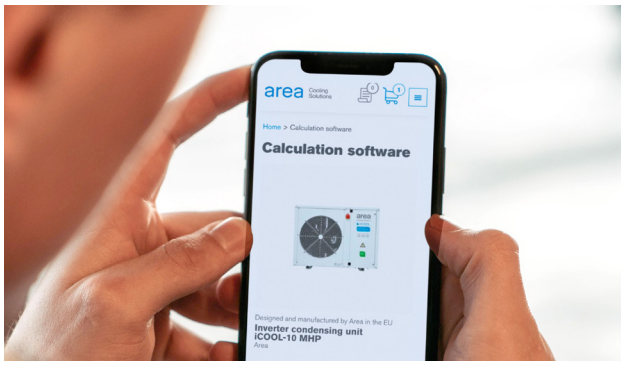
Select your product from the results

You will get a list of results with products that meet your requirements.



Consult technical information

You wil be able to consult the technical information and working envelopes of these products.



Share it!

You can also print or share the results with others.

iCOOL™ SE

Inverter technology at the cost of on-off. Easy to install, with a simplified commissioning process. Inverter technology has never been this easy.

Designed for ambient temperature 43ºC

Time to go inverter

Save time and operation cost with our energy-efficient units based on inverter compressors.

Key features

- Similar investment cost and significant energy savings vs on-off technology
- Full BLDC inverter technology
- PLC control
- Low noise operation
- Suitable for multi-evaporator applications
- Designed and manufactured in Europe

Comparison of energy consumption between a standard market on-off unit and our iCOOL SE 6.5 MHP condensing unit.

Technology	On-Off	iCOOL™ Inverter
SEPR	2,71	4,0
Annual consumption	16 444 kWh	10 109 kWh
Annual energy cost	6 578 EUR	4 044 EUR
Annual energy savings with iCOOL™		2 534 EUR

@ Cooling capacity ~6,5kW @ -10/32 °C; Prices: Q3 2023 (1kWh = 0,4 EUR)

The inverter solution is recovered in less than one quarter!

Save time and operation cost with our energy-efficient units based on inverter compressors.

Easy to install, with a simplified commissioning process.

iCOOL™ SE Inverter Condensing Units

iCOOL™ Different by Nature

High-Medium temperature

R449A R448A R513A R134a

Model*	Dimensions (mm) W.	L.	H.	Weight (kg)	Voltage (V/ph/Hz)	MCC (A)	Connections Suction	Liquid	Receiver (dm³)	Number x diameter of fan (mm)	Refrigerant		Tamb (ºC)	Cooling capacity (kW) at TE** (-15ºC)	(-10ºC)	(-5ºC)	0ºC	5ºC	SEPR***
iCOOL SE 2,5 MT (E1)	450	1000	605	70	220-240/1/50	8	1/2"	3/8"	3,9	1x450	R448A / R449A	Qmin	27	0.73	0.88	1.04	1.21	-	-
													32	0.68	0.82	0.97	1.14	-	
													38	0.63	0.76	0.91	1.07	-	
													43	0.59	0.71	0.85	1.00	-	
												Qmax	27	2.30	2.73	3.19	3.67	-	
													32	2.16	2.56	2.99	3.44	-	
													38	1.98	2.34	2.73	3.12	-	
													43	1.81	2.06	2.14	2.25	-	
											R134a/ R513A	Qmin	27	0.38	0.49	0.61	0.74	0.89	
													32	0.35	0.45	0.56	0.69	0.83	
													38	0.32	0.41	0.52	0.63	0.77	
													43	0.30	0.38	0.48	0.59	0.71	
												Qmax	27	1.27	1.59	1.96	2.35	2.79	
													32	1.18	1.48	1.82	2.20	2.61	
													38	1.07	1.35	1.66	2.01	2.40	
													43	0.99	1.24	1.53	1.87	2.24	
iCOOL SE 4,5 MT (E1)	450	1000	605	70	220-240/1/50	14	5/8"	3/8"	3,9	1x450	R448A / R449A	Qmin	27	1.44	1.72	2.04	2.38	-	R448A=3,39 R404A=3,58
													32	1.34	1.62	1.92	2.25	-	
													38	1.24	1.50	1.78	2.10	-	
													43	1.16	1.40	1.67	1.96	-	
												Qmax	27	4.18	4.95	5.76	6.61	-	
													32	3.92	4.63	5.38	6.16	-	
													38	3.57	4.22	4.78	4.96	-	
													43	3.07	3.07	3.29	3.75	-	
											R134a/ R513A	Qmin	27	0.71	0.91	1.14	1.39	1.66	
													32	0.67	0.85	1.06	1.30	1.56	
													38	0.61	0.78	0.97	1.19	1.44	
													43	0.56	0.72	0.90	1.10	1.34	
												Qmax	27	2.35	2.95	3.62	4.36	5.16	
													32	2.19	2.74	3.37	4.07	4.83	
													38	1.99	2.50	3.07	3.72	4.44	
													43	1.83	2.30	2.84	3.45	4.13	
iCOOL SE 6,5 MT (E1)	450	1100	805	80	220-240/1/50	18	3/4"	3/8"	5,3	1x500	R448A / R449A	Qmin	27	2.08	2.48	2.93	3.43	-	R448A=3,80 R404A=4,00
													32	1.93	2.32	2.76	3.24	-	
													38	1.78	2.15	2.57	3.02	-	
													43	1.67	2.02	2.40	2.83	-	
												Qmax	27	6.00	7.13	8.19	9.37	-	
													32	5.63	6.57	7.56	8.65	-	
													38	5.03	5.88	6.82	7.73	-	
													43	4.55	5.31	5.92	6.27	-	
											R134a/ R513A	Qmin	27	1.03	1.32	1.65	2.02	2.42	
													32	0.94	1.20	1.50	1.84	2.21	
													38	0.86	1.10	1.37	1.69	2.04	
													43	0.80	1.01	1.27	1.57	1.90	
												Qmax	27	3.31	4.17	5.13	6.18	7.33	
													32	3.08	3.88	4.77	5.77	6.87	
													38	2.81	3.53	4.36	5.29	6.33	
													43	2.59	3.25	4.02	4.91	5.89	

*All units also work with R404A
**Subcooling: 3 K, Superheat: 10 K
***Calculated value obtained from data provided by suppliers of individual components

area Cooling Solutions

iCOOL™ HFC / HFO

The benchmark for inverter condensing units

Smart Solutions for a Green Future®

Designed and manufactured in the EU

iCOOL™, Different by Nature

iCOOL™

iCOOL™ is a modular solution for inverter condensing units that saves you time during installation and commissioning, as the unit is factory customized to your needs. Thanks to its large modulation capacity and its multi-refrigerant compliance, it can be used for any commercial refrigeration application providing service down to a minimum of 500 W for a single evaporator.

Easy Selection

- Online selection software
- Hands-on and remote training
- Support to select the best HFC, A2L or CO_2 solution for any application

Easy installation

- Lightweight units
- Integrated options from factory
- Refrigeration design
- Flexible and fast delivery

Easy maintenance

- 180° access to all components
- Express delivery (24h) of spare parts and oil in the EU
- Remote control with ModBus TCP/IP

Easy comissionning

- Less than 3 minutes
- Multilingual assistance
- 100% functionally teasted
- Active control option

Advanced control:

- Simple user interface
- Smooth start and stop function
- Working envelope control
- Oil return function
- Condenser cleaner (optional)
- Remote control via AreaCloud

Silent Inverter Condensing Units

iCOOL™ Different by Nature

High-Medium temperature

R449A R448A R513A R134a

Model*	Dimensions (mm) W.	L.	H.	Weight (kg)	MCC (A)	Connections Suction	Liquid	Receiver (dm³)	Number x diameter of fan (mm)	Refrigerant		Tamb (ºC)	Cooling capacity (kW) at TE** (-10ºC)	(-5ºC)	0ºC	5ºC	SEPR R449A ***
iCOOL 4,5 MHP	536	1106	560	118	12	5/8"	3/8"	3,9	1x450	R448A / R449A	Qmin	32	0,78	0,93	1,10	1,28	3,28
												38	0,77	0,91	1,07	1,25	
												43	0,75	0,89	1,04	1,21	
											Qmax	32	4,83	5,62	6,54	7,61	
												38	4,65	5,43	6,30	7,30	
												43	4,62	5,39	6,26	7,21	
										R134a/ R513A	Qmin	32	0,48	0,57	0,67	0,77	
												38	0,46	0,54	0,63	0,73	
												43	0,44	0,51	0,60	0,69	
											Qmax	32	3,37	4,00	4,62	5,33	
												38	3,12	3,68	4,28	5,00	
												43	2,90	3,43	4,00	4,66	
iCOOL 7 MHP	510	1140	760	135	12	3/4"	1/2"	7,1	1x630	R448A / R449A	Qmin	32	1,13	1,33	1,55	1,79	3,60
												38	1,10	1,30	1,53	1,77	
												43	1,08	1,29	1,51	1,75	
											Qmax	32	7,11	7,76	8,50	9,65	
												38	6,70	7,36	8,02	8,99	
												43	6,52	7,20	7,84	8,82	
										R134a/ R513A	Qmin	32	0,83	0,99	1,16	1,35	
												38	0,78	0,93	1,09	1,26	
												43	0,74	0,87	1,02	1,19	
											Qmax	32	4,11	4,87	5,68	6,58	
												38	3,81	4,52	5,28	6,13	
												43	3,55	4,21	4,94	5,76	
iCOOL 10 MHP	510	1289	963	176	16	7/8"	1/2"	10	1x630	R448A / R449A	Qmin	32	2,82	3,55	4,47	5,59	3,54
												38	2,55	3,19	3,99	4,99	
												43	2,34	2,91	3,63	4,52	
											Qmax	32	10,02	11,88	14,05	16,57	
												38	8,91	10,60	12,58	14,89	
												43	8,03	9,58	11,41	13,55	
										R134a/ R513A	Qmin	32	2,07	2,61	3,30	4,16	
												38	1,90	2,40	3,04	3,85	
												43	-	2,23	2,83	3,60	
											Qmax	32	6,16	7,55	9,25	11,29	
												38	5,75	7,05	8,63	10,54	
												43	5,42	6,65	8,14	9,94	
iCOOL 12 MHP	510	1420	963	196	16	7/8"	1/2"	10	1x710	R448A / R449A	Qmin	32	2,96	3,73	4,69	5,87	3,48
												38	2,67	3,35	4,19	5,24	
												43	2,45	3,06	3,81	4,75	
											Qmax	32	12,08	14,10	16,59	19,64	
												38	10,49	12,34	14,58	17,35	
												43	9,57	11,39	13,55	16,17	
										R134a/ R513A	Qmin	32	2,07	2,61	3,30	4,16	
												38	1,90	2,40	3,04	3,85	
												43	-	2,23	2,83	3,60	
											Qmax	32	6,77	8,31	10,17	12,42	
												38	6,32	7,75	9,49	11,59	
												43	5,96	7,31	8,95	10,93	

*All units also work with R404A
**Subcooling: 3 K, Superheat: 10 K
***Calculated value obtained from data provided by suppliers of individual components

R449A R448A R513A R134a

Model*	Dimensions (mm) W.	L.	H.	Weight (kg)	MCC (A)	Connections Suction	Liquid	Receiver (dm³)	Number x diameter of fan (mm)	Refrigerant		Tamb (°C)	Cooling capacity (kW) at TE** (-10°C)	(-5°C)	0°C	5°C	SEPR R449A ***
iCOOL 15 MHP	541	1322	1493	256	17,5	1 1/8"	5/8"	15	2x630	R448A / R449A	Qmin	32	4,06	5,04	6,24	7,66	3,87
												38	3,67	4,55	5,63	6,94	
												43	3,37	4,17	5,16	6,38	
											Qmax	32	14,26	17,06	20,14	23,48	
												38	12,61	15,23	18,14	21,31	
												43	12,58	15,12	17,95	21,04	
										R134a/ R513A	Qmin	32	2,51	3,01	3,60	4,30	
												38	2,29	2,76	3,32	3,99	
												43	2,13	2,56	3,10	3,74	
											Qmax	32	10,04	12,03	14,39	17,21	
												38	9,14	11,02	13,27	15,96	
												43	8,45	10,24	12,39	14,97	
iCOOL 17D MHP	541	1521	1493	310	16/ 11,1	1 1/8"	5/8"	15	2x630	R448A / R449A	Qmin	32	2,89	3,67	4,64	5,84	3,61
												38	2,62	3,29	4,15	5,21	
												43	2,40	3,01	3,77	4,73	
											Qmax	32	17,27	20,95	24,89	29,04	
												38	15,54	19,05	22,87	26,93	
												43	14,17	17,52	21,23	25,21	
										R134a/ R513A	Qmin	32	2,21	2,79	3,54	4,48	
												38	2,03	2,57	3,26	4,14	
												43	-	2,39	3,04	3,87	
											Qmax	32	10,93	13,24	16,02	19,34	
												38	10,11	12,27	14,87	18,00	
												43	9,46	11,50	13,96	16,92	
iCOOL 21D MHP	541	1521	1493	311	27	1 1/8"	5/8"	15	2x630	R448A / R449A	Qmin	32	2,89	3,67	4,64	5,84	3,39
												38	2,62	3,29	4,15	5,21	
												43	2,40	3,01	3,77	4,73	
											Qmax	32	19,88	24,07	28,50	33,07	
												38	17,85	21,87	26,18	30,70	
												43	16,23	20,10	24,31	28,75	
										R134a/ R513A	Qmin	32	2,21	2,79	3,54	4,48	
												38	2,03	2,57	3,26	4,14	
												43	-	2,39	3,04	3,87	
											Qmax	32	13,09	15,62	18,84	22,45	
												38	11,87	14,62	17,56	20,99	
												43	11,45	14,46	17,40	20,58	
iCOOL 26D MHP	950	1528	1488	400	16/ 13,8	7/8"	1/2"	15	2x630	R448A / R449A	Qmin	32	4,13	5,15	6,39	7,91	4,31
												38	3,74	4,64	5,77	7,14	
												43	3,44	4,26	5,29	6,56	
											Qmax	32	23,52	28,42	33,85	39,77	
												38	20,87	25,43	30,54	36,20	
												43	18,87	23,12	26,00	33,46	
										R134a/ R513A	Qmin	32	3,24	3,89	4,67	5,60	
												38	2,95	3,57	4,31	5,19	
												43	2,73	3,31	4,02	4,87	
											Qmax	32	17,18	20,53	24,50	29,20	
												38	15,87	18,83	22,80	27,08	
												43	14,52	17,51	21,10	25,39	
iCOOL 29D MHP	950	1528	1488	430	17,5/ 13,8	1 3/8"	7/8"	15	2x630	R448A / R449A	Qmin	32	4,13	5,15	6,39	7,91	4,27
												38	3,74	4,64	5,77	7,14	
												43	3,44	4,26	5,29	6,56	
											Qmax	32	26,69	31,82	37,62	44,12	
												38	23,97	28,64	34,03	40,16	
												43	21,91	26,23	31,31	37,16	
										R134a/ R513A	Qmin	32	3,24	3,89	4,67	5,60	
												38	2,95	3,57	4,31	5,19	
												43	2,73	3,31	4,02	4,87	
											Qmax	32	19,54	23,30	27,76	33,03	
												38	17,83	21,38	25,61	30,63	
												43	16,52	19,89	23,92	28,72	

*All units also work with R404A
**Subcooling: 3 K, Superheat: 10 K
***Calculated value obtained from data provided by suppliers of individual components

R449A R448A R513A R134a

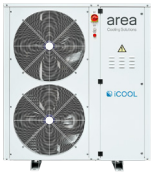
Model*	Dimensions (mm) W.	L.	H.	Weight (kg)	MCC (A)	Connections Suction	Liquid	Receiver (dm³)	Number x diameter of fan (mm)	Refrigerant		Tamb (ºC)	Cooling capacity (kW) at TE** (-10ºC)	(-5ºC)	0ºC	5ºC	SEPR R449A ***
iCOOL 39D MHP	1090	1522	1695	520	31/26	1 5/8	7/8	30	1 x 800	R449A	Qo min	32	6,49	8,44	10,77	13,37	3,61
												38	5,94	7,45	9,22	11,15	
												43	5,45	6,72	8,13	9,61	
											Qo max	32	39,69	47,77	57,25	68,19	
												38	36,32	43,65	52,29	62,33	
												43	33,69	40,46	48,45	57,78	
										R134A/ R513A	Qo min	32	4,37	5,49	6,90	8,67	
												38	3,91	4,92	6,19	7,79	
												43	3,56	4,48	5,64	7,12	
											Qo max	32	28,70	34,82	41,96	50,20	
												38	26,35	31,95	38,56	46,26	
												43	24,50	29,70	35,88	43,15	
iCOOL 43D MHP	1090	1522	1695	520	31/26	1 5/8	7/8	30	1 x 800	R449A	Qo min	32	6,49	8,44	10,77	13,37	3,52
												38	5,94	7,45	9,22	11,15	
												43	5,45	6,72	8,13	9,61	
											Qo max	32	42,15	50,65	60,58	72,01	
												38	38,56	46,26	55,32	65,81	
												43	35,74	42,87	51,24	61,00	
										R134A/ R513A	Qo min	32	4,37	5,49	6,90	8,67	
												38	3,91	4,92	6,19	7,79	
												43	3,56	4,48	5,64	7,12	
											Qo max	32	30,39	36,89	44,45	53,16	
												38	27,90	33,85	40,85	48,99	
												43	25,94	31,45	38,00	45,70	

NOTE: iCOOL 43D MHP is not allowed to be used in commercial applications with R448A/R449A refrigerants.

*All units also work with R404A
**Subcooling: 3 K, Superheat: 10 K
***Calculated value obtained from data provided by suppliers of individual components

iCOOL™ Different by Nature

Silent Inverter Condensing Units



Low temperature

R449A R448A

Model*	Dimensions (mm) W.	L.	H.	Weight (kg)	MCC (A)	Connections Suction	Liquid	Receiver (dm³)	Number x diameter of fan (mm)	Refrigerant		Tamb (ºC)	Cooling capacity (kW) at TE** (-30ºC)	(-25ºC)	(-20ºC)	(-15ºC)
iCOOL 3 MP	536	1106	560	125	12	3/4"	1/2"	3,9	1x450	R448A	Qmin	32	0,53	0,66	0,80	0,96
												38	0,49	0,61	0,76	0,92
												43	0,47	0,60	0,74	0,91
											Qmax	32	3,40	4,11	4,89	5,71
												38	3,35	4,03	4,76	5,53
												43	3,26	3,91	4,59	-
										R449A	Qmin	32	0,54	0,67	0,81	0,98
												38	0,50	0,62	0,77	0,94
												43	0,48	0,61	0,76	0,92
											Qmax	32	3,47	4,19	4,98	5,83
												38	3,41	4,11	4,86	5,64
												43	3,32	3,99	4,68	-
iCOOL 6 MP	439	1289	760	150	-	7/8	3/8	7,1	1x630	R448A	Qmin	32	TBD			
												38				
												43				
											Qmax	32	5,40	6,62	8,01	9,53
												38	4,91	6,01	7,25	8,56
												43	4,45	5,43	6,53	-
										R449A	Qmin	32	TBD			
												38				
												43				
											Qmax	32	5,40	6,62	8,01	9,53
												38	4,91	6,01	7,25	8,56
												43	4,45	5,43	6,53	-
iCOOL 10 MP	541	1322	1493	286	24,6	1 1/8"	5/8"	15	2x630	R448A	Qmin	32	2,14	2,78	3,64	4,77
												38	1,83	2,42	3,21	4,26
												43	1,60	2,14	2,87	3,86
											Qmax	32	8,33	10,37	12,79	15,55
												38	7,75	9,69	11,94	14,48
												43	7,27	9,13	11,26	13,63
										R449A	Qmin	32	2,18	2,84	3,72	4,88
												38	1,87	2,47	3,27	4,36
												43	1,63	2,18	2,93	3,95
											Qmax	32	8,51	10,59	13,06	15,87
												38	7,91	9,89	12,19	14,79
												43	7,43	9,32	11,50	13,91
iCOOL 17D MP	950	1528	1488	460	24,6/ 17,3	1 3/8"	7/8"	15	2x630	R448A	Qmin	32	2,14	2,79	3,65	4,78
												38	1,84	2,42	3,21	4,27
												43	1,60	2,14	2,88	3,87
											Qmax	32	13,93	17,14	20,97	25,41
												38	12,76	15,78	19,35	23,48
												43	11,82	14,69	18,06	-
										R449A	Qmin	32	2,17	2,85	3,73	4,88
												38	1,87	2,47	3,28	4,36
												43	1,64	2,18	2,94	3,95
											Qmax	32	14,22	17,50	21,41	25,94
												38	13,03	16,11	19,76	23,97
												43	12,07	15,00	18,44	-

Standard options for iCOOL™ HFC

Do it yourself!

Main symbols

Symbol	Full name
D	Compressor tandem with safety mode
MHP	Medium-High evaporation temperature application
MP	Medium evaporation temperature application
G3	Generation number

Example:
iCOOL 17D MHP (G3) – iCOOL 17 [Compressor tandem] [Medium-High evaporation temperature] [Generation]

Option symbols

D	Superheat heat recovery (Solenoid valves)
D1	Superheat heat recovery (Ball Valves)
C	Condenser anticorrosion coating
N	Nordic option (KVR + NRD + inverter heater w/thermostat + receiver heater w/thermostat)
T	Thermostat for compressor heater
HPF	High pressure fan + housing set
CSV	Cutout safety 3-way valve + safety valve
CSV1	Cutout valve for safety valve
RM	Remote monitoring (RM-FULL)
BRM	Basic Remote Monitoring (RM-BASE)
CRM	Compact remote monitoring (RM-GSM)
RMS	Remote monitoring SLAVE

Example:

iCOOL 17D MHP (G3) (D1|T|CSV1)

Options for iCOOL™ HFC - individual projects

Individual projects accepted by project manager for the client should be distinguished from the standard versions and specially marked to avoid mistakes. Symbol of project will be assigned by the design engineer with certain systems such as putting the client acronym and reference number in square brackets after full name of the unit. For example iCOOL 17D MHP (G3) (D1|T|CSV1) **[XX-01].**

		Options*									Monitoring			
		D	D1	C	N	T	RN	HPF	CSV	CSV1	RM	BRM	CRM	RMS
iCOOL 4,5	MHP	✓	✓	✓	✓	✓	✓	✓	×	✓	×	✓	✓	✓
iCOOL 7	MHP	✓	✓	✓	✓	✓	✓	✓	×	✓	×	✓	✓	✓
iCOOL 10	MHP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
iCOOL 12	MHP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
iCOOL 15	MHP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
iCOOL 17D	MHP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
iCOOL 21D	MHP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
iCOOL 26D	MHP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
iCOOL 29D	MHP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
iCOOL 39/43D	MHP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
iCOOL 3	MP	✓	✓	✓	✓	✓	✓	✓	×	✓	×	✓	✓	✓
iCOOL 10	MP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
iCOOL 17D	MP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

*please contact us before you will combine some options due to the possibility of excluding between themselves

eSLIM Silent Inverter Condensing Unit

iCOOL™ Different by Nature

Medium-High temperature

R454C R455A

Model	Dimensions (mm)			Weight (kg)	MCC (A)	Connections		Receiver (dm³)	Number x diameter of fan (mm)	Refrigerant		Tamb (ºC)	Cooling capacity (kW) at TE*			
	W.	L.	H.			Suction	Liquid						(-10ºC)	(-5ºC)	(0ºC)	(5ºC)
iCOOL eSLIM 9 MHP	471	1286	858	170	15,6	7/8"	1/2"	10,0	1x710	R455A	Qmin	32	2,04	2,45	2,92	3,43
												38	1,97	2,37	2,83	3,33
												43	1,89	2,29	2,73	3,22
											Qmax	32	9,25	11,14	13,25	15,59
												38	8,94	10,79	12,86	15,16
												43	8,61	10,41	12,42	14,65

*Subcooling: 3 K, Superheat: 10 K

Air Ducted Inverter Condensing Units

iCOOL™ Different by Nature

Pressure available 120 Pa
Medium-High temperature

R449A R448A R513A R134a

Model*	Dimensions (mm) W.	L.	H.	Weight (kg)	MCC (A)	Connections Suction	Liquid	Receiver (dm³)	Number x diameter of fan (mm)	Refrigerant		Tamb (ºC)	Cooling capacity (kW) at TE** (-10ºC)	(-5ºC)	0ºC	5ºC
iCOOL MAX 17D MHP	790	1327	1677	320	16/ 11,1	1 1/8"	5/8"	15	1x560	R448A	Qmin	32	4,55	5,64	6,94	8,46
												38	4,28	5,38	6,69	8,19
												43	4,03	5,11	6,40	7,89
											Qmax	32	16,76	20,39	24,33	28,55
												38	15,89	19,43	23,34	27,55
												43	15,03	18,43	22,28	26,46
										R134A	Qmin	32	1,64	2,08	2,63	3,33
												38	1,57	1,99	2,52	3,20
												43	1,51	1,91	2,42	3,07
											Qmax	32	10,70	13,35	16,46	20,00
												38	10,25	12,77	15,76	19,19
												43	9,81	12,21	15,08	18,40
iCOOL MAX 21D MHP	790	1327	1677	311	16/ 13,8	1 1/8"	5/8"	15	1x560	R448A	Qmin	32	4,55	5,64	6,94	8,46
												38	4,28	5,38	6,69	8,19
												43	4,03	5,11	6,40	7,89
											Qmax	32	20,56	24,12	27,96	32,06
												38	19,27	22,73	26,51	30,57
												43	18,01	21,27	24,95	28,94
										R134A	Qmin	32	1,64	2,08	2,63	3,33
												38	1,57	1,99	2,52	3,20
												43	1,51	1,91	2,42	3,07
											Qmax	32	12,91	15,53	18,66	22,37
												38	12,39	14,93	17,97	21,57
												43	11,90	14,35	17,29	20,78
iCOOL MAX 26D MHP	790	1327	1677	400	17,5/ 13,8	1 3/8"	7/8"	15	1x560	R134A	Qmin	32	2,15	2,67	3,33	4,19
												38	2,03	2,49	3,08	3,87
												43	1,91	2,32	2,87	3,60
											Qmax	32	14,04	16,63	19,85	23,82
												38	13,42	15,88	18,91	22,67
												43	12,84	15,24	18,12	21,70

*All units except iCOOL MAX-26 D MHP also work with R404A
**Subcooling: 3 K, Superheat: 10 K

Air Ducted Inverter Condensing Units

iCOOL™ Different by Nature

R449A R448A

Pressure available 120 Pa
Low temperature

Model*	Dimensions (mm) W.	L.	H.	Weight (kg)	MCC (A)	Connections Suction	Liquid	Receiver (dm³)	Number x diameter of fan (mm)	Refrigerant		Tamb (ºC)	Cooling capacity (kW) at TE** (-30ºC)	(-25ºC)	(-20ºC)	(-15ºC)
iCOOL MAX 10 MP	790	1327	1677	250	15,1	1 1/8"	5/8"	15	1x560	R448A	Qmin	32	2,36	2,90	3,52	4,22
												38	2,25	2,77	3,36	4,00
												43	2,18	2,68	3,24	3,84
											Qmax	32	8,85	10,87	13,22	15,82
												38	8,45	10,40	12,60	15,01
												43	8,17	10,06	12,16	14,40
										R449A	Qmin	32	2,52	3,09	3,76	4,50
												38	2,40	2,96	3,58	4,27
												43	2,32	2,86	3,46	4,09
											Qmax	32	9,43	11,59	14,09	16,86
												38	9,01	11,08	13,44	16,00
												43	8,71	10,72	12,96	15,35

*All units also work with R404A
**Subcooling: 3 K, Superheat: 10 K

Water Condenser Inverter Condensing Units

Medium-High temperature

R449A R448A R513A R134a

Model	Dimensions (mm) W.	L.	H.	Weight (kg)	MCC (A)	Connections (mm) Suction	Liquid	Receiver (dm³)	Refrigerant	Water conditions (ºC)		Tcond (ºC)	Cooling capacity (kW) at TE (-10ºC)	(-5ºC)	0ºC	5ºC
WPTXiAr 4.5 MHP	665	700	605	135	12	16	10	3,9	R449A	15/20	Qmin	40	0,87	1,13	-	-
											Qmax		4,84	5,79	-	-
										40/45	Qmin	50	0,94	1,11	-	-
											Qmax		4,80	5,74	-	-
									R134a	15/20	Qmin	40	0,47	0,56	0,66	0,77
											Qmax		3,98	4,75	5,58	6,51
										40/45	Qmin	50	0,44	0,51	0,60	0,70
											Qmax		3,61	4,29	5,05	5,91
WPTXiAr 7 MHP	665	700	605	140	12	18	10	7,1	R449A	15/20	Qmin	40	1,120	1,42	-	-
											Qmax		6,25	7,25	-	-
										40/45	Qmin	50	1,18	1,41	-	-
											Qmax		6,05	6,95	-	-
									R134a	15/20	Qmin	40	0,81	0,97	1,13	1,33
											Qmax		5,41	6,44	7,54	8,77
										40/45	Qmin	50	0,71	0,85	1,01	1,18
											Qmax		5,26	6,22	7,27	8,45
WPTXiSs 10 MHP	625	1300	758	160	16	22	12	10	R449A	15/20	Qmin	40	2,97	3,97	5,08	6,32
											Qmax		11,79	14,67	17,99	21,76
										40/45	Qmin	50	2,02	3,12	4,24	5,39
											Qmax		9,68	12,41	15,51	18,99
									R134a	15/20	Qmin	40	2,60	3,25	4,07	5,10
											Qmax		6,44	7,99	9,94	12,38
										40/45	Qmin	50	2,31	2,89	3,62	4,54
											Qmax		5,77	7,17	8,90	11,06

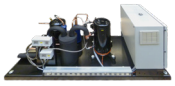
Model	Dimensions (mm)			Weight (kg)	MCC (A)	Connections (mm)		Receiver (dm³)	Refrigerant	Water conditions (ºC)		Tcond (ºC)	Cooling capacity (kW) at TE			
	W.	L.	H.			Suction	Liquid						(-10ºC)	(-5ºC)	0ºC	5ºC
WPTXiSs 12 MHP	625	1300	758	160	16	22	12	10	R449A	15/20	Qmin	40	2,97	3,97	5,08	6,32
											Qmax		12,49	15,56	19,08	23,04
										40/45	Qmin	50	2,02	3,12	4,24	5,39
											Qmax		10,07	12,97	16,27	19,97
									R134a	15/20	Qmin	40	2,6	3,25	4,07	5,10
											Qmax		6,7	8, 38	10,48	13,10
										40/45	Qmin	50	2,31	2,89	3,62	4,54
											Qmax		5,92	7,42	9,3	11,66
WPTXiSs 15 MHP	625	1300	758	190	17,5	28	16	14	R449A	15/20	Qmin	40	4,09	5,08	6,33	7,89
											Qmax		16,47	20,30	24,72	29,69
										40/45	Qmin	50	3,52	4,34	5,38	6,68
											Qmax		13,48	16,59	20,28	24,56
									R134a	15/20	Qmin	40	3,43	4,15	5,02	6,08
											Qmax		10,39	12,57	15,21	18,42
										40/45	Qmin	50	2,96	3,60	4,39	5,35
											Qmax		8,97	10,91	13,29	16,20
WPTXiSs 17D MHP	625	1300	950	210	16/ 11,1	28	16	14	R449A	15/20	Qmin	40	2,97	3,97	5,08	6,32
											Qmax		19,23	24,08	29,69	36,06
										40/45	Qmin	50	2,02	3,12	4,24	5,39
											Qmax		15,85	20,33	25,46	31,25
									R134a	15/20	Qmin	40	2,60	3,25	4,07	5,10
											Qmax		11,42	14,02	17,23	21,21
										40/45	Qmin	50	2,31	2,89	3,62	4,54
											Qmax		10,07	12,40	15,27	18,82
WPTXiSs 21D MHP	625	1300	950	215	16/ 13,8	28	16	14	R449A	15/20	Qmin	40	2,97	3,97	5,08	6,32
											Qmax		23,08	28,95	35,74	43,46
										40/45	Qmin	50	2,02	3,12	4,24	5,39
											Qmax		19,04	24,43	30,61	37,59
									R134a	15/20	Qmin	40	2,60	3,25	4,07	5,10
											Qmax		14,03	17,17	21,05	25,84
										40/45	Qmin	50	2,31	2,89	3,62	4,54
											Qmax		12,32	15,14	18,61	22,89
WPTXiSs 26D MHP	575	1650	905	240	17,5/ 14,5	28	22	14	R449A	15/20	Qmin	40	4,09	5,08	6,33	7,89
											Qmax		27,76	34,58	42,47	51,39
										40/45	Qmin	50	3,52	4,34	5,38	6,68
											Qmax		22,84	28,61	35,38	43,16
									R134a	15/20	Qmin	40	3,43	4,15	5,02	6,08
											Qmax		17,98	23,20	28,34	34,67
										40/45	Qmin	50	2,96	3,60	4,39	5,35
											Qmax		15,52	18,88	23,00	28,03
WPTXiSs 29D MHP	575	1650	905	270	17,5/ 22,2	35	22	14	R449A	15/20	Qmin	40	4,09	5,08	6,33	7,89
											Qmax		32,36	40,01	49,23	60,18
										40/45	Qmin	50	3,52	4,34	5,38	6,68
											Qmax		27,17	33,38	40,95	50,08
									R134a	15/20	Qmin	40	3,43	4,15	5,02	6,08
											Qmax		20,78	25,14	30,42	36,84
										40/45	Qmin	50	2,96	3,60	4,39	5,35
											Qmax		17,94	21,82	26,58	32,40
WPTXiSs 39D MHP	919	1860	973	300	31/26	42	22	30	R449A	15/20	Qmin	40	5,89	7,42	9,25	11,32
											Qmax		41,01	50,7	62,75	77,58
										40/45	Qmin	50	4,9	6,06	7,23	8,37
											Qmax		35,19	43,24	53,26	65,65
									R134a	15/20	Qmin	40	2,86	3,57	4,46	5,6
											Qmax		27,59	33,53	40,8	49,7
										40/45	Qmin	50	2,35	2,93	3,67	4,6
											Qmax		24,08	29,26	35,58	43,33

Low temperature

R449A R448A

Model	Dimensions (mm) W.	L.	H.	Weight (kg)	MCC (A)	Connections (mm) Suction	Liquid	Receiver (dm³)	Refrigerant	Water conditions (ºC)		Tcond (ºC)	Cooling capacity (kW) at TE (-30ºC)	(-25ºC)	(-20ºC)	(-15ºC)
WPTXiAr 2 MP	530	1000	775	140	12	16	10	3,9	R449A	15/90	Qmin	40	0,40	0,51	0,65	0,81
											Qmax		2,32	2,90	3,59	4,40
										40/90	Qmin	50	0,39	0,50	0,65	0,81
											Qmax		2,29	2,86	3,55	4,36
WPTXiAr 3 MP	530	1000	775	140	12	18	10	7,1	R449A	15/20	Qmin	40	0,53	0,66	0,82	0,99
											Qmax		3,11	3,77	4,51	5,34
										40/45	Qmin	50	0,51	0,65	0,8	0,98
											Qmax		3,09	3,74	4,44	5,21
WPTXiSs 10 MP	625	1300	758	200	24,6	28	16	14	R449A	15/20	Qmin	40	3,10	3,18	3,21	3,49
											Qmax		9,25	11,47	14,13	17,22
										40/45	Qmin	50	2,39	2,48	2,5	2,74
											Qmax		8,54	10,58	12,93	15,57
WPTXiSs 17D MP	575	1650	905	270	24,6/ 17,3	35	22	14	R449A	15/20	Qmin	40	3,10	3,18	3,21	3,49
											Qmax		15,01	18,77	23,3	28,56
										40/45	Qmin	50	2,39	2,48	2,5	2,74
											Qmax		13,6	17,01	21,02	25,61

Compressor Base Inverter Units

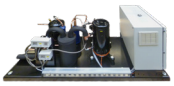


Medium-High temperature

R449A R448A R513A R134a

Model	Dimensions (mm) W.	L.	H.	Weight (kg)	MCC (A)	Connections (mm) Suction	Liquid	Receiver (dm³)	Refrigerant		Tcond (ºC)	Cooling capacity (kW) at TE (-10ºC)	(-5ºC)	0ºC	5ºC
PTXiAr 4.5 MHP	665	700	605	100	12	16	10	3,9	R449A	Qmin	45°C	0,91	1,12	-	-
										Qmax		4,81	5,76	-	-
									R134a	Qmin	45°C	0,45	0,54	0,63	0,73
										Qmax		3,79	4,52	5,31	6,20
PTXiAr 7 MHP	665	700	605	105	12	18	10	7,1	R449A	Qmin	45°C	1,19	1,41	-	-
										Qmax		6,14	7,08	-	-
									R134a	Qmin	45°C	0,76	0,91	1,07	1,26
										Qmax		5,34	6,33	7,41	8,61
PTXiSs 10 MHP	554	1200	758	118	16	22	12	10	R449A	Qmin	45°C	2,47	3,52	4,64	5,83
										Qmax		10,69	13,49	16,7	20,33
									R134a	Qmin	45°C	2,45	3,07	3,84	4,82
										Qmax		6,09	7,57	9,41	11,70
PTXiSs 12 MHP	554	1200	758	118	16	22	12	10	R449A	Qmin	45°C	2,47	3,52	4,64	5,83
										Qmax		11,23	14,21	17,62	21,46
									R134a	Qmin	45°C	2,45	3,07	3,84	4,82
										Qmax		6,3	7,89	9,88	12,36
PTXiSs 15 MHP	625	1300	758	150	17,5	28	16	14	R449A	Qmin	45°C	3,79	4,69	5,83	7,25
										Qmax		14,89	18,34	22,37	26,98
									R134a	Qmin	45°C	3,18	3,86	4,69	5,70
										Qmax		9,65	11,71	14,22	17,28
PTXiSs 17D MHP	625	1300	758	173	16/ 11,1	28	16	14	R449A	Qmin	45°C	2,47	3,52	4,64	5,83
										Qmax		17,47	22,13	27,49	33,57
									R134a	Qmin	45°C	2,45	3,07	3,84	4,82
										Qmax		10,71	13,18	16,23	19,98

Model	Dimensions (mm)			Weight (kg)	MCC (A)	Connections (mm)		Receiver (dm³)	Refrigerant		Tcond (ºC)	Cooling capacity (kW) at TE			
	W.	L.	H.			Suction	Liquid					(-10ºC)	(-5ºC)	0ºC	5ºC
PTXiSs 21D MHP	625	1300	758	175	16/ 13,8	28	16	14	R449A	Qmin	45°C	2,47	3,52	4,64	5,83
										Qmax		20,97	26,59	33,07	40,43
									R134a	Qmin	45°C	2,45	3,07	3,84	4,82
										Qmax		13,14	16,12	19,80	24,32
PTXiSs 26D MHP	575	1650	905	194	17,5/ 14,5	35	22	14	R449A	Qmin	45°C	3,79	4,69	5,83	7,25
										Qmax		25,17	31,44	38,74	47,08
									R134a	Qmin	45°C	3,18	3,86	4,69	5,70
										Qmax		16,70	20,26	24,61	29,90
PTXiSs 29D MHP	575	1650	905	224	17,5/ 22,2	35	22	14	R449A	Qmin	45°C	3,79	4,69	5,83	7,25
										Qmax		29,63	36,51	44,86	54,85
									R134a	Qmin	45°C	3,18	3,86	4,69	5,70
										Qmax		19,30	23,42	28,44	34,56
PTXiSs 39D MHP	919	1860	973	285	31/26	1 5/8"	7/8"	30	R449A	Qmin	45°C	5,41	6,69	8,14	9,68
										Qmax		38	46,82	57,81	71,37
									R134a	Qmin	45°C	2,59	3,24	4,05	5,08
										Qmax		25,79	31,33	38,1	46,41



Low temperature

R449A R448A

Model	Dimensions (mm)			Weight (kg)	MCC (A)	Connections (mm)		Receiver (dm³)	Refrigerant		Tcond (ºC)	Cooling capacity (kW) at TE			
	W.	L.	H.			Suction	Liquid					(-30ºC)	(-25ºC)	(-20ºC)	(-15ºC)
PTXiAr 2 MP	530	1000	775	105	12	16	10	3,9	R449A	Qmin	45°C	0,40	0,51	0,65	0,81
										Qmax		2,32	2,90	3,59	4,40
PTXiAr 3 MP	530	1000	775	105	12	18	10	7,1	R449A	Qmin	45°C	0,51	0,65	0,81	0,98
										Qmax		3,09	3,75	4,47	5,27
PTXiSs 10 MP	554	1200	905	153	24,6	28	16	14	R449A	Qmin	45°C	2,74	2,84	2,86	3,12
										Qmax		8,87	11,00	13,5	16,37
PTXiSs 17D MP	575	1658	903	261	24,6/ 17,3	35	22	14	R449A	Qmin	45°C	2,74	2,84	2,86	3,12
										Qmax		14,26	17,85	22,11	27,07

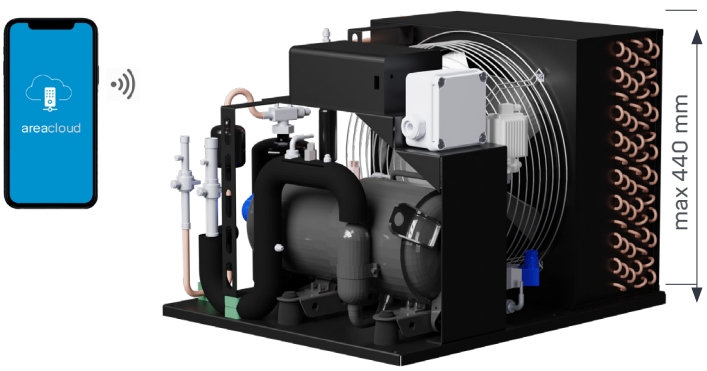
Smart cooling solution for food truck application

Save over 30% on your electrical battery size, thanks to our inverter smart flat condensing unit.

The new extra flat condensing unit from AREA Cooling Solutions is answering to the need of extra compact / lightweight unit with low GWP A1 approval (R513A). Designed for transport application, especially retail & food truck, this new range is available in on/off and inverter configuration.

Each unit is approved to operate under the hottest climate, up to 55°C ambient temperature.

Control the refrigeration system of your truck with your mobile



Smart flat condensing unit

Product features

- Flat compact unit (height from 340 mm to 440 mm)
- Vibration resistant design; field tested
- Low noise
- Designed for mobile application
- Remote control and preventive maintenance features
- Inverter solution available, able to work with multi-evaporators down to 500 W
- Plug&Play unit
- Unloaded start up

Inverter Range

R513A

Model	Power voltage	Q_o min (-10/43°C), W	Q_o max (-10/43°C), W	Dimensions (L x W x H), mm	Weight, kg
AMXiAr1.7 (BL) MHT	230V / 1ph / 50 Hz	591	1 359	484 x 430 x 338	25
AMXiAr 2.5 (BL) MHT	230V / 1ph / 50 Hz	1 024	2 369	607 x 512 x 438	35
AMXiAr 3.5 (BL) MHT	230V / 1ph / 50 Hz	1 494	3 309	607 x 512 x 438	40

ON/OFF Range

R448/9A

Model	Power supply	Q_o (-10/43°C), W	Dimensions (L x W x H), mm	Weight, kg
AMXAr 0.6 MHT	230V / 1ph / 50 Hz	984	484 x 430 x 338	20
AMXAr 0.9 MHT	230V / 1ph / 50 Hz	1 384	484 x 430 x 338	25
AMXAr 1.5 MHT	230V / 1ph / 50 Hz	2 401	610 x 512 x 435	35

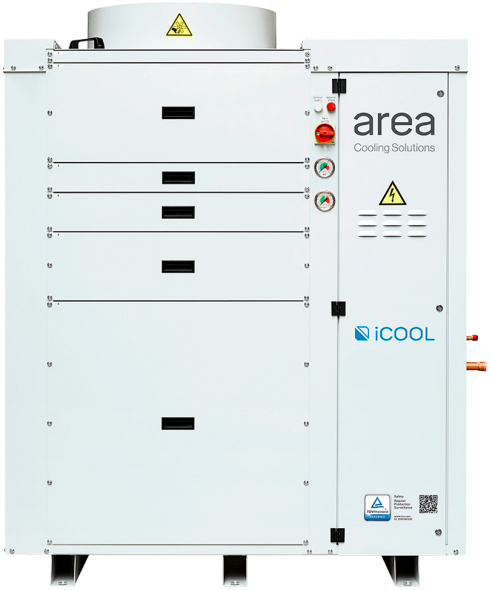
R513A

Model	Power supply	Q_o (-10/43°C), W	Dimensions (L x W x H), mm	Weight, kg
AMXAr 0.6 MHT	230V / 1ph / 50 Hz	575	476 x 376 x 328	20
AMXAr 0.9 MHT	230V / 1ph / 50 Hz	834	484 x 430 x 338	25
AMXAr 1.1 MHT	230V / 1ph / 50 Hz	1 036	484 x 430 x 338	25
AMXAr 1.5 MHT	230V / 1ph / 50 Hz	1 410	484 x 430 x 338	25
AMXAr 2.0 MHT	230V / 1ph / 50 Hz	1 900	610 x 512 x 435	35
AMXAr 2.4 MHT	230V / 1ph / 50 Hz	2 213	610 x 512 x 435	35
AMXAr 3.0 MHT	230V / 1ph / 50 Hz	2 824	610 x 512 x 435	40

area Cooling Solutions

iCOOL™ CO_2

CO_2 made Easy



Smart Solutions
for a Green Future®

EU Designed and manufactured in the EU

iCOOL™ CO_2

Meet our range of compact transcritical inverter CO_2 units.

First design concepts of iCOOL™ CO_2 were completed in in 2016.

iCOOL™ CO_2 field results in numbers:

-20/43°C
wide operation range

100%
units equipped with remote monitoring

24 h
spare parts and oil Express delivery in EU

70 m
longest piping length

Deep market feedback helped us focus on the key factors:

A sustainable solution:

A GWP 1 solution.

High SEPR efficiency. The use of inverter technology allows us to achieve up to 30% energy savings during operation.

The iCOOL™ range is certified by TUV Rheinland, guaranteeing regular external audits of our production process.

Reliability in oil management

One of the characteristics of CO_2 as a refrigerant is its high miscibility with oil. If a safety valve must be opened, it releases CO_2 as well as oil, much more than in HFC applications. To deal with this issue, ICOOL™ CO_2 features a standard oil level intelligence control.

- Build-in software to push the oil back to the compressor
- Oil separator as a standard
- Electronic oil level control

Silent Inverter CO_2 Transcritical Units

iCOOL™ Different by Nature

Medium-High temperature

R744

Model	Dimensions (mm)			Weight (kg)	MCC (A)	Connections		Receiver (dm^3)	Number x diameter of fan (mm)	Refrigerant		Tamb (ºC)	Cooling capacity (kW) at TE			
	W.	L.	H.			Suction	Liquid						(-15ºC)	(-10ºC)	(-5ºC)	0ºC
iCOOL 5 CO_2 MT	510	1289	963	160	9,4	3/8"	1/4"	10,0	1x630	R744	Qmin	32	1,5	1,8	2,1	2,4
												38	1,2	1,6	1,9	2,2
												43	-	1,2	1,5	1,7
											Qmax	32	3,7	4,4	5,0	5,9
												38	3,0	3,9	4,6	5,3
												43	-	3,0	3,6	4,1
iCOOL 7 CO_2 MT/LT	541	1426	1100	200	12,7	3/8"	3/8"	10,0	1x710	R744	Qmin	32	2,3	2,7	3,0	-
												38	2,0	2,3	2,6	-
												43	1,8	2,0	2,3	-
											Qmax	32	5,0	6,1	7,0	-
												38	4,9	5,4	6,0	-
												43	4,4	4,8	5,3	-
iCOOL 15 CO_2 MT/LT	541	1426	1516	300	26	1/2"	1/2"	12,4	2x630	R744	Qmin	32	6,2	6,9	7,9	8,8
												38	5,6	6,2	7,0	7,8
												43	5.0	5,5	6,2	6,9
											Qmax	32	13,5	15,1	16,8	18,3
												38	12,5	14,0	15,3	16,6
												43	11,5	12,8	13,9	14,9
iCOOL 22 CO_2 MT	885	1590	1600	360	-	5/8"	1/2"	24	2x630	R744	Qmin	32	6,1	6,9	7,9	8,8
												38	5,5	6,2	7,0	7,8
												43	4,9	5,5	6,2	6,9
											Qmax	32	20	22,5	25,0	27,3
												38	18,6	20,9	22,8	24,8
												43	17,3	19,1	20,7	22,2
iCOOL 30D CO_2 MT	1100	1580	1670	470	40,8	3/4"	5/8"	32,0	2x710	R744	Qmin	32	6,2	6,9	7,9	8,8
												38	5,6	6,2	7,0	7,8
												43	5,0	5,5	6,2	-
											Qmax	32	26,9	30,3	33,5	36,5
												38	25,0	28,0	30,7	33,1
												43	23,1	25,6	27,8	-

Silent Inverter CO_2 Transcritical Units

iCOOL™ Different by Nature

Low temperature

R744

Model	Dimensions (mm) W.	L.	H.	Weight (kg)	MCC (A)	Connections Suction	Liquid	Receiver (dm³)	Number x diameter of fan (mm)	Refrigerant		Tamb (ºC)	Cooling capacity (kW) at TE (-35ºC)	(-30ºC)	(-25ºC)	(-20ºC)
iCOOL 7 CO_2 MT/LT	541	1426	1091	200	12,7	3/8"	1/4"	10,0	1x710	R744	Qmin	32	1,2	1,4	2,0	2,1
												38	1,0	1,2	1,5	1,8
												43	0,9	1,1	1,4	1,6
											Qmax	32	3,0	3,5	4,0	4,5
												38	2,6	3,0	3,7	4,3
												43	2,4	2,9	3,4	3,9
iCOOL 15 CO_2 MT/LT	541	1426	1516	300	26	1/2"	1/2"	12,4	2x630	R744	Qmin	32	3,1	3,8	4,3	5,3
												38	2,9	3,5	4,1	4,8
												43	-	3,3	3,8	4,3
											Qmax	32	7,3	8,7	10,2	11,8
												38	7,0	8,2	9,2	11
												43	-	7,8	9,0	10,3

Air Ducted CO_2 Transcritical Units

iCOOL™ Different by Nature

Pressure available 120 Pa

High-Medium-Low temperature

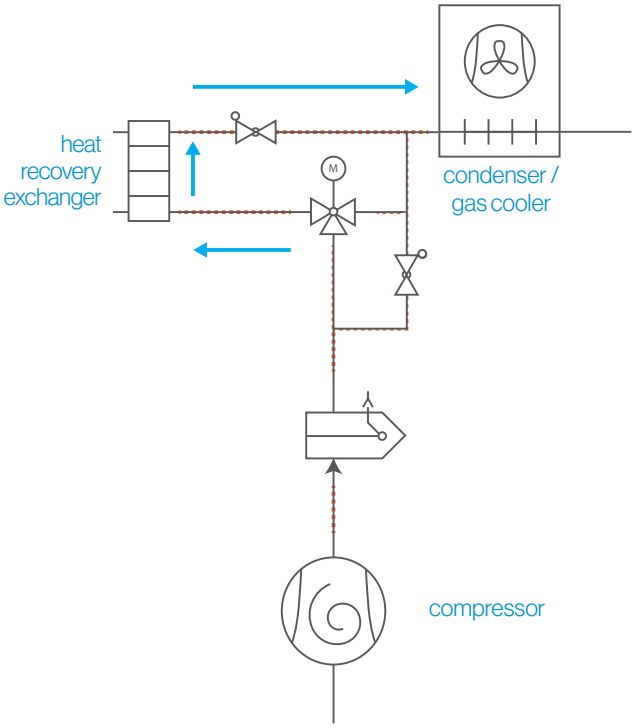
R744

Model	Dimensions (mm) W.	L.	H.	Weight (kg)	MCC (A)	Connections Suction	Liquid	Receiver (dm³)	Number x diameter of fan (mm)	Refrigerant		Tamb (ºC)	Cooling capacity (kW) at TE (-35ºC)	(-30ºC)	(-10ºC)	0ºC
iCOOL MAX 15 CO_2 MT/LT	790	1326	1720	270	29,2	1/2"	1/2"	12,4	1x560	R744	Qmin	32	3,1	3,8	6,9	8,8
												38	2,9	3,5	6,2	7,8
												43	-	3,3	5,5	6,9
											Qmax	32	7,3	8,7	15,1	18,3
												38	7,0	8,2	14,0	16,6
												43	-	7,8	12,8	14,9

Heat recovery option

Available for iCOOL™ units
Reclaim the heat from the high-pressure cooling system

Reduce energy costs with heat recovery for use in domestic hot water and / or central heating, for example.



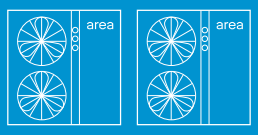
Example of the heat recovery cooling circuit diagram for iCOOL 15 CO_2 MT/LT unit.

Main features

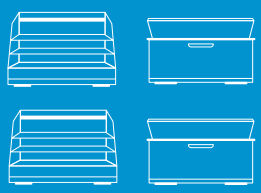
- Heat recovery connections / exchanger built into the device (depending on the model)
- Heat recovery is an optional function to the main cooling function of the unit
- Protection of the system against overheating or excessive temperature/ pressure increase
- The use of recovery to increase the efficiency of the unit at high ambient temperatures

Remote control

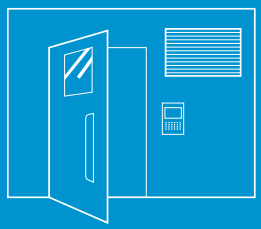
- Remote diagnostics
  - Preview of unit parameters
  - Preview of system/cabinets operation
- Visualization of monitored values
- Alarms
- Remote parameter change
- Archiving the values of monitored parameters



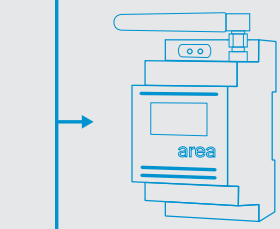
Condensing units
RS 485 Modbus RTU



Cooling/Freezing **cabinets**



Cooling/Freezing **chambers**



wireless GSM connection

wired connection

Internet

areacloud

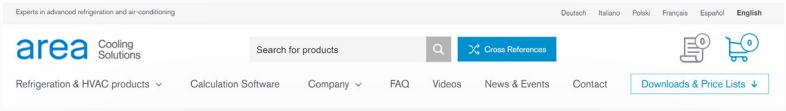
Access to all devices via cloud using a browser + SMS and e-mail alerts

Search engine of cross references

Check out our website to find our calculation software and a complete list of all updated equivalent products

1 Go to our cross references search engine

Find it next to our search box

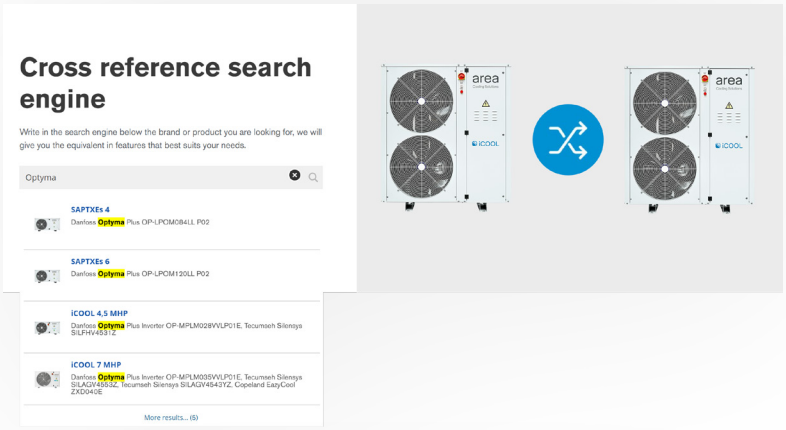


2 Search for a model

Type model number from AREA or other manufacturer

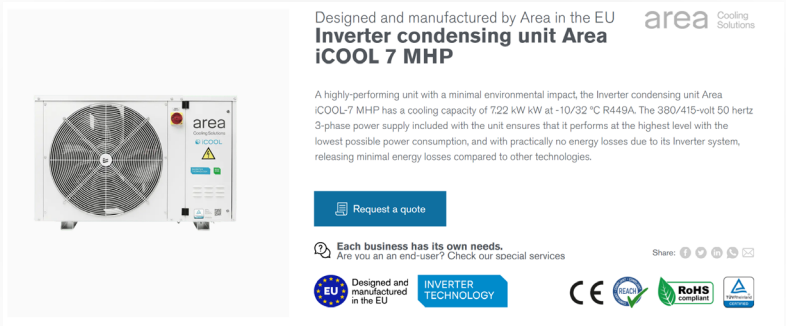
3 Find your equivalent

Our search engine will show you all our possible equivalences.



4 Consult our product

Click on the results and you will be able to consult the product details



5 Or contact our customer service

Via chat | Via phone | Via e-mail | Videoconferencing

Scan the code and download our equivalences catalogue

ECO DESIGN | PED III certified | TÜVRheinland CERTIFIED

areacademy

Interactive center of knowledge and technical support

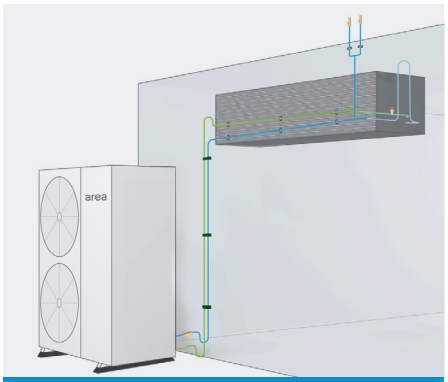
Our experts will share with you their know-how from basic concepts of refrigeration and HVAC to training in the most advanced technologies.

Hands-on training

Join our webinars and in-person hands-on training sessions focused on inverter technology, use of CO_2 in refrigeration, remote control, and preventive maintenance features based on our iCOOL™ and areacloud solutions.

Digital training materials

Check out our digital training materials available online, wherever you are! We share our know-how in specific videos, animations, 3D materials, and augmented reality simulations.



Interactive articles

Learn with us! We will be incorporating articles and infographics with the knowledge from the basics of refrigeration to the latest trends and most innovative solutions.

Explore our VR showroom

Download it for free at Areacademy web! This immersive experience will take you on a journey to learn more about Area, the inverter technology and other innovations inside our AREA units.

area Cooling Solutions