



iCOOL-39D MHP and iCOOL-43D MHP are the newest models in the iCOOL™ inverter condensing units series. Valid for F-gas regulation 2022 restrictions for commercial refrigeration applications.

Who are we?



Operation with refrigerants R448A/R449A/R513A

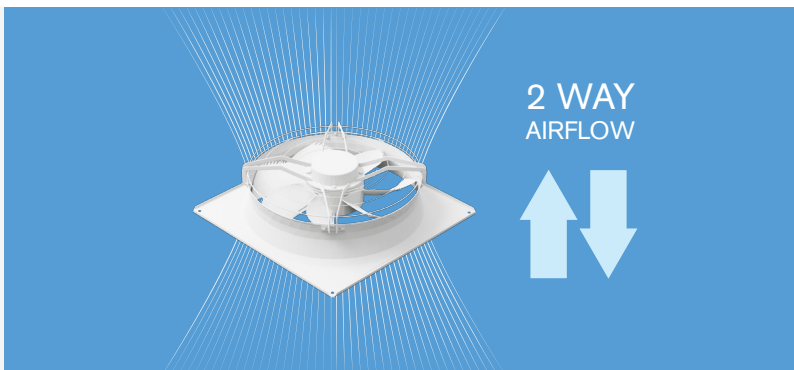
Key features

- Condenser cleaning function - fan with reversible airflow.
- Reduced refrigerant charge thanks to the microchannel condenser with special anti-corrosion protection.
- High efficiency oil separator and oil level regulators.
- Plug & Play - unit equipped with liquid line and suction line also with mechanical filter and suction separator.
- Low noise. - 43 dB @ 10m thanks to acoustic insulation of the compressor compartment, inverter technology and EC fan.

The Innovation Corner

Condenser cleaning function

- Reverse rotation mode providing optimum 2-way airflow through the condenser.
- Keep your condenser clean and secure the performance of the unit between the planned maintenance inspections!



Designed and
manufactured
in Europe



Maximum energy efficiency in partial load mode

Capacity modulation from 23% to 100% thanks to the BLDC compressor and EC fan.

Fewer start and stop cycles

Extending the lifetime of the compressor.

Remote monitoring

Preventive maintenance through remote diagnostics and parametrization (optional).

Energy savings

Up to 40% lower energy consumption compared to on/off solution.

Plug & Play

Compact unit with easy components access. Easy installation and commissioning.

Low noise

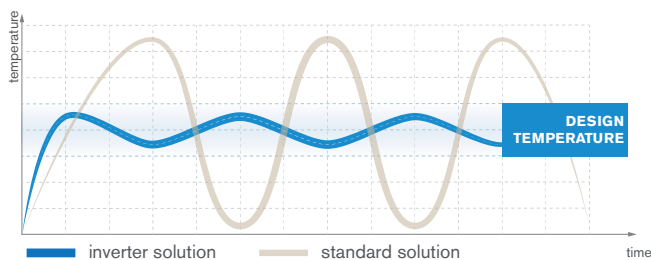
One of the most silent units on the market. 6-face soundproof insulation, inverter compressor and EC fan.

Capacity table

Model		Tev.	-15°C		-10°C		-5°C		0°C		5°C		10°C	
		Tamb.	Qo (min)	Qo (max)	Qo (min)	Qo (max)	Qo (min)	Qo (max)	Qo (min)	Qo (max)	Qo (min)	Qo (max)	Qo (min)	Qo (max)
R449A	iCOOL-39D MHP	32°C	5 012	32 882	6 486	39 693	8 440	47 773	10 769	57 247	13 369	68 187	16 147	80 619
		38°C	4 759	30 143	5 935	36 325	7 450	43 654	9 218	52 288	11 155	62 333	13 183	73 843
		43°C	4 396	27 957	5 453	33 692	6 724	40 460	8 134	48 445	9 611	57 779	11 088	68 544
	iCOOL-43D MHP	32°C	5 012	34 971	6 486	42 153	8 440	50 647	10 769	60 576	13 369	72 007	16 147	84 959
		38°C	4 759	32 032	5 935	38 556	7 450	46 263	9 218	55 315	11 155	65 815	13 183	77 815
		43°C	4 396	29 685	5 453	35 744	6 724	42 868	8 134	51 243	9 611	61 004	11 088	72 232
R513A	iCOOL-39D MHP	32°C	3 463	23 479	4 371	28 695	5 493	34 817	6 902	41 955	8 672	50 202	10 872	59 638
		38°C	3 095	21 627	3 913	26 352	4 919	31 954	6 188	38 555	7 794	46 259	9 812	55 151
		43°C	2 805	20 153	3 558	24 502	4 477	29 702	5 638	35 882	7 117	43 154	8 991	51 613
	iCOOL-43D MHP	32°C	3 463	24 850	4 371	30 390	5 493	36 889	6 902	44 451	8 672	53 163	10 872	63 097
		38°C	3 095	22 895	3 913	27 904	4 919	33 849	6 188	40 845	7 794	48 988	9 812	58 360
		43°C	2 805	21 336	3 558	25 939	4 477	31 454	5 638	38 004	7 117	45 696	8 991	54 620

Superheating - 10 K, subcooling - 3 K, Tamb. [°C] - ambient temp. - Tev. [°C] - evaporating temp. - Qo (min)/(max) - minimum and maximum cooling capacity [W]

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



Inverter solution - here comes the benefit

- Energy saving due to capacity modulation.
- Reduced quantity of defrost cycles.
- Smooth operation, fewer start/stop cycles.
- Precise temperature control.

Did you know that?

- AREA has been developing inverter solutions for refrigeration applications for more than 10 years.
- Around 10.000 iCOOL™ units are operating in various applications worldwide.

