

ACO

OIL COOLERS



**FLUID
COOLERS**
FOR MACHINE
MANUFACTURERS

ISO 9001:2015
certified Quality
Management System

MADE IN ITALY



Thanks to a wide range of models and accessories, the ACO range is able to offer strongly personalized solutions aimed at Euro Cold coolers' specific industrial application needs.

The skills and the experience gained by Euro Cold during its over 30 years of experience in the field are at your disposal. Our power is our ability to respond to the needs of mechanical and industrial systems' manufacturers which are rapidly and constantly changing.

Do not hesitate to contact us in order that we may provide you with the most adequate solution to your specific temperature control needs.

MAIN FEATURES

- Air condensed.
- High performance rotary vane or scroll compressors with low energy consumption.
- Electronic microprocessor thermoregulator for fluid temperature control and display.
- Cooler malfunction signal display (an optional feature in the single-phase models).
- High efficiency plate heat exchangers.
- Low-noise axial fans.
- Protective metal frame made of S235 steel painted with epoxy powder and with a semi-gloss textured effect.
- Eco-friendly refrigerant gas (HFC).
- Standard models without circulation pump and tank, available as optional features upon request.

ACCESSORIES

- Screw/gear volumetric pumps, equipped with an electric engine.
- Tank equipped with top-up system and sight level indicator.
- Differential electronic thermoregulator equipped with a tenth of a degree resolution ambient sensor.
- Oil flow switches with fixed settings or settable options and malfunction signal setup.
- Oil filter inlet/outlet with visual and/or electrical clogging indicator.
- Pressure gauges on the hydraulic circuit and/or the cooler circuit.
- Mechanical oil level gauge.
- Caster wheels.
- Air filter cartridge for condenser protection.
- Cooler remote malfunction signal.
- Electric connectors upon client's request.
- PID control for an improved fluid temperature control, with electronic thermoregulator equipped with Autotuning settings.
- Special power supply voltages.
- Configuration for an ambient temperature up to +55°C.
- Configuration for an ambient temperature down to -15°C.
- Frame available upon request in every type of RAL finish or polished stainless steel (available up to the ACO-MP 350 model included).



TECHNICAL DATA

		ACO-LP		
MODEL		25	45	60
Nominal cooling capacity (*) W		3460	5300	8150
Power supply		230V / 1ph / 50Hz	400V / 3ph / 50Hz	
Compressor (Max. absorbed power) W		1360	1740	3040
Fan	Air flow mc/h	1690	2550	4660
	Max. absorbed power W	85	120	220
Condenser		Air condenser (copper/aluminium)		
Evaporator		Brazen plates		
Electronic thermoregulator		Setting range from +25 to +40°C		
Pump (**)	Flow rate l/min	10	14	25
	Head bar	10		
	Max. absorbed power W	570	1020	1800
Thermoplastic tank (nom. capacity) (**) l		14	23	65
Refrigerant gas HFC		R407C - R410A		
Noise level (at 1 m distance) db (A)		64		70
Frame colour		RAL 7035		
Frame type (***)		ECP1-B	ECP2-B	ECP3-B
WEIGHTS & DIMENSIONS				
Empty weight (approx.) kg		80	105	150
Packaging weight (approx.) kg		90	115	170
Dimensions (W x D x H) mm		450 x 470 x 990	570 x 520 x 1080	670 x 660 x 1180
Packaging dimensions (W x D x H) (****) mm		755 x 630 x 1200		1020 x 800 x 1580

NOTES

(*) Reference values: inlet oil +30°C, ambient temperature +32°C

(**) Optional feature upon request.

(***) Technical drawings of structures available for download in the DOWNLOAD area of our website.

(****) Standard packaging: cardboard box placed on pallet.

Cooling capacity data is based on graphs supplied by the compressor manufacturers.

ISO VG 10-68 oil coolers. For cooling different oils, please contact our Technical Department.

Maximum temperature of the inlet fluid: +50°C.

Minimum and maximum ambient temperature: from +10 to +40°C.

For ambient temperature above +40°C, please contact our Technical Department.

Minimum and maximum ambient relative humidity (without condensation): from 10 to 85%.

Maximum ambient altitude: 2000 m.

Minimum and maximum stocking temperature: from +5 to +50°C.

Hydraulic connections: see technical drawings available in the DOWNLOAD area of our website.

All measures on technical drawings are in millimetres unless otherwise specified.

EURO COLD reserves the right to carry out modifications without prior notice.

TECHNICAL DATA

		ACO-MP							
MODEL		95	160	200	300	350	450	580	620
Nominal cooling capacity (*) W		12440	20250	24880	32550	37920	50470	67270	81680
Power supply		400V / 3ph / 50Hz							
Compressor (Max. absorbed power) W		5302	6886	8140	10681	15961	17440	24000	28900
Fan	Air flow mc/h	4660		6400	9330	12800	22000		
	Max. absorbed power W	220		450	2 x 220	2 x 450	2 x 620		
Condenser		Air condenser (copper/aluminium)							
Evaporator		Brazen plates					Shell and tube		
Electronic thermoregulator		Setting range from +25 to +40°C							
Pump (**) Data ref. ISO VG 22 at 35°C	Type	Gear					Multi-stage centrifugal		
	Flow rate l/min	25	44	75		150	260	370	400
	Head bar	10					2.0	2.2	2.5
	Max. absorbed power W	1800		2550		4528	4700		
Thermoplastic tank (nom. capacity) (**) l		65					-		
Refrigerant gas HFC		R407C					R410A		
Noise level (at 1 m distance unless otherwise specified) db (A)		70					49#	52#	
Frame colour		RAL 7035					RAL 9002		
Frame type (***)		D2-1C	D2-2C		D3-2C		D4-2V		
WEIGHTS & DIMENSIONS									
Empty weight (approx.) kg		190	200		320	340	450	550	600
Packaging weight (approx.) kg		200	220		340	360	500	600	650
Dimensions (W x D x H) mm		750 x 790 x 1380			950 x 2000 x 1460		950 x 2000 x 1460		
Packaging dimensions (W x D x H) (****) mm		1020 x 800 x 1580			1100 x 2600 x 1600		1100 x 2600 x 1600		

NOTES

(#) Sound pressure at a distance of 10 m in free field and directionality factor 2.

(*) Valori di riferimento: olio in entrata +30°C, temp. ambiente +32°C.

(**) Optional su richiesta.

(***) Disegni tecnici delle strutture scaricabili nell'area DOWNLOAD del nostro sito.

(****) Imballo standard: cartone su pallet.

Le rese frigorifere sono desunte sulla base delle curve, fornite dai costruttori dei compressori frigoriferi.

Refrigeratori per olio ISO VG 10-68. Per il raffreddamento di oli diversi, consultare il nostro Ufficio Tecnico.

Temperatura massima del fluido in entrata al refrigeratore +50°C.

Temperatura ambiente minima e massima: da +10 a +40°C.

Per temperatura ambiente superiore a +40°C, consultare il ns. Ufficio Tecnico.

Umidità relativa ambiente minima e massima (senza presenza condensa): da 10 a 85%.

Altitudine massima ambiente: 2000 m.

Temperatura minima e massima di stoccaggio: da +5 a +50°C.

Attacchi idraulici: vedere disegni tecnici nell'area DOWNLOAD del nostro sito.

Ove non diversamente specificato le misure nei disegni tecnici sono espresse in mm.

EURO COLD si riserva il diritto di apportare modifiche senza obbligo di preavviso.



EURO COLD srl (Headquarters)
Via Aldo Moro, 11/E - 41030 Bomperto (MO) Italy
Tel. +39.059.817.8138
info@eurocold.it - eurocold@hersypec.it
www.eurocold.it

EURO COLD C.S. GmbH
Im Speiterling 12 - Kelttern 75210, Germany
Tel. +49.7236.981.048 - Fax +49.7236.981.113
vertrieb@eurocold.de
www.eurocold.de

