



# IMMERSION CHILLERS FOR CUTTING FLUIDS



**FLUID  
COOLERS**  
FOR MACHINE  
MANUFACTURERS

ISO 9001:2015  
certified Quality  
Management System

MADE IN ITALY



**ECIK is the new Euro Cold series for cutting fluids. The immersion technology makes them extremely easy to fit and service.**

The skills and the experience gained by Euro Cold during its over 35 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

- Available models for emulsions cooling up to 8% and oil cooling with viscosity grade ISO 5. Maximum acceptable viscosity: 22 centistok. For higher viscosities, please contact our Technical Department.
- Agitator of the fluid applied on all models.
- High performance rotary vane or scroll compressors with low energy consumption.
- Chiller malfunction signal display (optional in all single-phase models).
- Low-noise axial fans.
- Remote malfunction signal of the chiller.
- Protective metal frame made of S235 steel painted with epoxy powder and with a semi-gloss textured effect.
- **NEW!!!** Fixed or differential set temperature control (standard supply of the kit ambient probe).

## ACCESSORIES

- Electric connectors upon client's request.
- 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.

For further information, please contact our sales department:  
[commerciale@eurocold.it](mailto:commerciale@eurocold.it)



# IMMERSION CHILLERS FOR CUTTING FLUIDS

# ECIK



## COOLING CAPACITY AT DIFFERENT FLUID CONDITIONS

EMULSION								
MODEL		45	70	120	160	200	300	350
Ambient temperature °C	Emulsion temperature °C							
32	20	6055	10480	17460	20955	26775	34340	40740
	25	6345	10980	18300	21960	28060	35986	42700
	30	6635	11485	19140	22965	29345	37635	44650

NEAT OIL								
MODEL		45	70	120	160	200	300	350
Ambient temperature °C	Emulsion temperature °C							
32	20	4510	6780	11980	14770	20730	23525	25660
	25	5160	8940	14890	19460	22830	30995	36440
	30	5300	9290	15485	20250	24880	32550	37920

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## TECHNICAL DATA

		ECIK - EMULSION / NEAT OIL						
MODEL		45	70	120	160	200	300	350
Power supply <b>V/ph/Hz</b>		230/1/50	400/3/50					
Compressor (Max. absorbed power) <b>W</b>		1700	2500	4200	4900	6600	8500	9200
Agitator (Max. absorbed power) <b>W</b>		180						
Fan	Air flow <b>mc/h</b>	2800	3700	5600	6700	8400	12500	
	Max. absorbed power <b>W</b>	190	290	530	630	760	750	
Condenser		Air condenser (copper/aluminium)						
Evaporator		Inox						
Electronic thermoregulator		Setting range from +20 to +30°C						
Refrigerant gas HFC		R410A						
Noise level (at 1 m distance) <b>db (A)</b>		60	61	62	63	64	66	68
Frame colour		RAL 7035 - RAL 7042						
Frame type (*)		ECIK 45	ECIK 70	ECIK 120	ECIK 160	ECIK 200	ECIK 300	ECIK 350
WEIGHT & DIMENSIONS								
Weight (approx.) <b>kg</b>		95	120	150	170	210	260	290
Packaging weight (approx.) <b>kg</b>		105	130	160	180	220	270	300
Dimensions (W x D x H) <b>mm</b>		605 x 650 x 1120	680 x 730 x 1340	750 x 802 x 1790	750 x 800 x 1990	1000 x 1050 x 1935	1000 x 1052 x 2050	

## NOTES

Absorbed power data refer to the standard agitator. In case of special agitator the values may differ.

(\*) Technical drawings available in the DOWNLOAD area of our Web site.

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

Maximum and minimum ambient temperature: from +5 to +42°C.

For ambient temperature above +42°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.

Standard hysteresis  $\pm 1,5^{\circ}\text{K}$ .

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

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

### Cooling capacity correction factor based on ambient temperature: Kcf

Temperature	32°C	37°C	40°C	42°C
Kcf	1	0,95	0,9	0,87

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## MASTER-SLAVE ECIK: THE POWER OF IMMERSION CHILLERS DOUBLES

Thanks to the new Master-Slave solution, there is the possibility of combining two immersion chillers to achieve higher capacities of up to 89,3 kW.

The chillers can be installed in different positions, depending on the available space, and can be installed very easily; each chiller is equipped with a Harting connector and pre-wired cable for connection. Lastly, the **Master-Slave** solution guarantees redundancy; if one chiller shuts down, the other keeps operating, avoiding potential downtime.

ECIK - EMULSION								
MODEL		45	70	120	160	200	300	350
		6635	11485	19140	22965	29345	37635	44650
45	6635	13270	18120	25775	29600	35980	44270	51285
70	11485	18120	22970	30625	34450	40830	49120	56135
120	19140	25775	30625	38280	42105	48485	56775	63790
160	22965	29600	34450	42105	45930	52310	60600	67615
200	29345	35980	40830	48485	52310	58690	66980	73995
300	37635	44270	49120	56775	60600	66980	75270	82285
350	44650	51285	56135	63790	67615	73995	82285	89300

 Nominal cooling capacity in **Watts** referred to fluid at +30°C and ambient at +32°C

ECIK - NEAT OIL								
MODEL		45	70	120	160	200	300	350
		5300	9290	15485	20250	24880	32550	37920
45	5300	10600	14590	20785	25550	30180	37850	43220
70	9290	14590	18580	24775	29540	34170	41840	47210
120	15485	20785	24775	30970	35735	40365	48035	53405
160	20250	25550	29540	35735	40500	45130	52800	58170
200	24880	30180	34170	40365	45130	49760	57430	62800
300	32550	37850	41840	48035	52800	57430	65100	70470
350	37920	43220	47210	53405	58170	62800	70470	75840

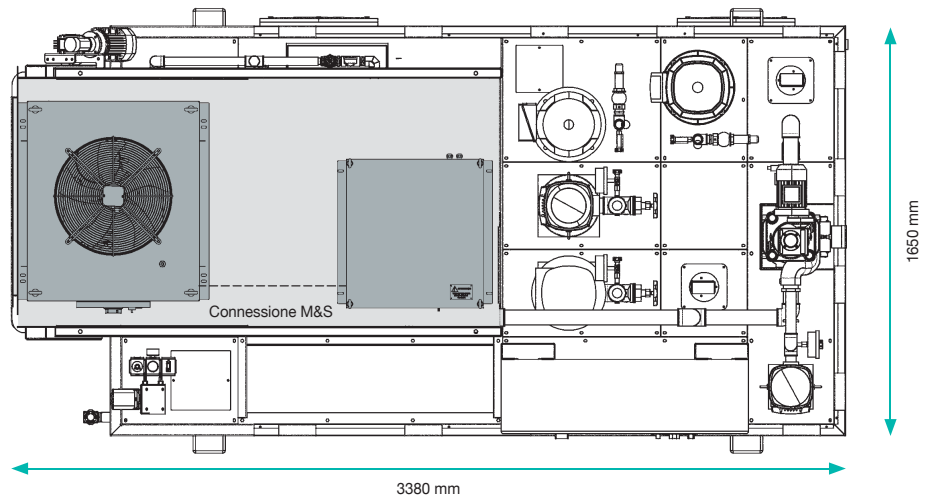
 Nominal cooling capacity in **Watts** referred to fluid at +30°C and ambient at +32°C

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# ECIK

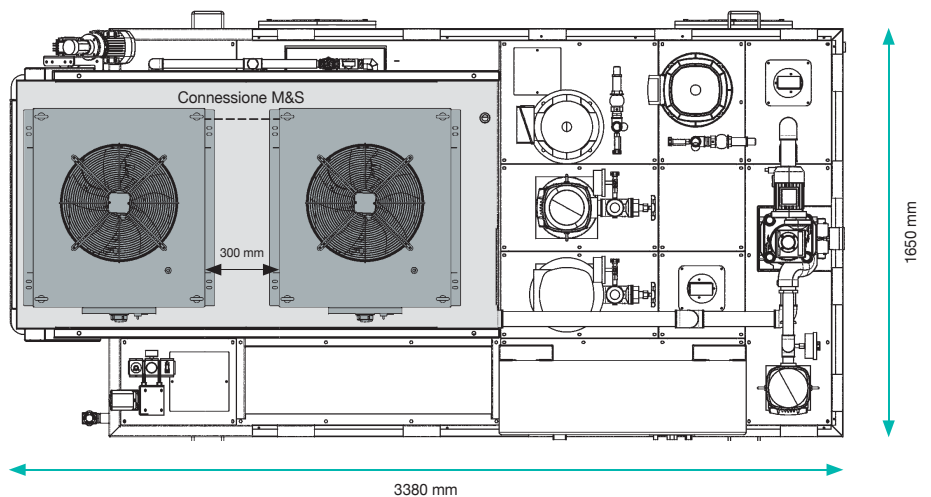
1

Depending on the available space, it is possible to combine two chillers of different sizes and power ratings.



2

The compactness of the ECik chillers allows installation of high capacities in small spaces. The M&S system allows the combination of two chillers only at the same time.



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