

Immersion chillers for cutting fluids

ISO 9001:2015
certified Quality Management System



Main features

- Available models for emulsions cooling up to 8% and oil cooling with viscosity grade up to 22 centistokes at +40°C. optional on emulsion models.
- Agitator of the fluid applied on all models;
- High performance rotary vane or scroll compressors with low energy consumption.
- **NEW!!!** Fixed or differential set temperature control (standard supply of the kit ambient probe).
- 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.
- Eco-friendly refrigerant gas (HFC).

Accessories

- Metal washable air filters for condenser protection.
- 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.

ECI 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 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.

Technical data

MODEL	ECI						
	12	25	45	60	95	160	200
Nominal cooling capacity (*) W	1920	3460	5300	8150	12440	20250	24880
Power supply	230V / 1ph / 50Hz			400V / 3ph / 50Hz			
Compressor (Max. absorbed power) W	660	1420	2140	3575	5302	6886	8140
Agitator (Max. absorbed power) W	220		240				
Fan Air flow mc/h	1150	1700	2700	4060	4060	4060	4060
Fan Max. absorbed power W	70	85	130	180	180	180	450
Condenser	Air condenser (copper/aluminium)						
Evaporator	Submerged type Inox						
Electronic thermoregulator	Setting range from +15 to +30°C						
Refrigerant gas HFC	R407C						
Noise level (at 1 m distance) db (A)	55	64	64	70	70	70	70
Frame colour	RAL 7035						
Frame type	ECI 12	ECI 25	ECI 45	ECI 60	ECI 95	ECI 160	ECI 200

Technical drawings available in the **DOWNLOAD** area of our Web site

Weight & dimensions

Empty weight (approx.) kg	50	60	80	100	160	180	190
Packaging weight (approx.) kg	60	70	90	110	170	190	200
Dimensions (W x D x H) mm	480 x 455 x 820	545 x 500 x 960	685 x 610 x 1140	735 x 630 x 1340	795 x 810 x 1425	795 x 810 x 1575	795 x 810 x 1445

Notes

Reference values: fluid temperature +30°C, ambient temperature +32°C
 (*) Agitator of the fluid applied on all models; optional on emulsion models
 Absorbed power data refer to the standard agitator. In case of special agitator the values may differ
 Standard packaging: cardboard box placed on pallet
 Cooling capacity data is based on graphs supplied by the compressor manufacturers
 Maximum and minimum ambient temperature: from +10 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 +55°C.

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 cutting fluid temperature in the tank and on ambient temperature: Kcf

Inlet temperature	30°C	25°C	20°C	15°C
Kcf	1	0,91	0,83	0,76
Ambient temperature	32°C	37°C	40°C	42°C
Kcf	1	0,95	0,9	0,87

The result of the K application is approximate.

If a precise value is required, please contact our Technical Sales Department.