



iTech ECOTECH | Hybrid chiller with integrated free cooling

iTech ECOTECH

Hybrid chiller with integrated free cooling | 120 – 1140 kW

30–60% annual energy savings – with automatic free cooling mode switching



The ECOTECH automatically selects between operating modes: in winter ($< 10^{\circ}\text{C}$) it switches off the compressor and cools with free cooling (COP 15–30), in transitional periods it runs in mixed mode, and in summer it uses compressor cooling. The dual independent refrigerant circuits ensure high availability. With the R-1234YF option, ultra-low GWP can be achieved, making it future-proof with regard to F-gas regulations.



Technical specifications

Parameter	Value
Cooling capacity	120 – 1140 kW
Compressor	Semi-hermetic screw or scroll
Refrigerant circuits	Dual independent refrigerant circuits
Refrigerant	R-410A or R-454B or R-1234YF (GWP < 1)
Evaporator	Shell-and-tube, high-efficiency
Condenser	Gold epoxy + blue fin coating
Free cooling	Automatic switching based on air temp.
Protections	Thermal, voltage, phase loss

Key benefits

- 30–60% annual energy savings
- Automatic mode switching: FC / mixed / compressor
- Dual refrigerant circuits = high availability
- R-1234YF option: ultra-low GWP, future-proof
- Longer compressor life – switched off in winter
- A single unit: no need for a separate dry cooler + chiller

Typical applications

- Injection moulding, blow moulding, extrusion
- Central industrial cooling systems
- Data centres
- Food industry

Cyber in Systems Kft. (CIS) – Exclusive distributor of iTech

Web: www.cyberin.hu | Email: info@cyberin.hu | Tel: +36 70 425 3330

Request a personalised quotation and a cooling demand assessment!