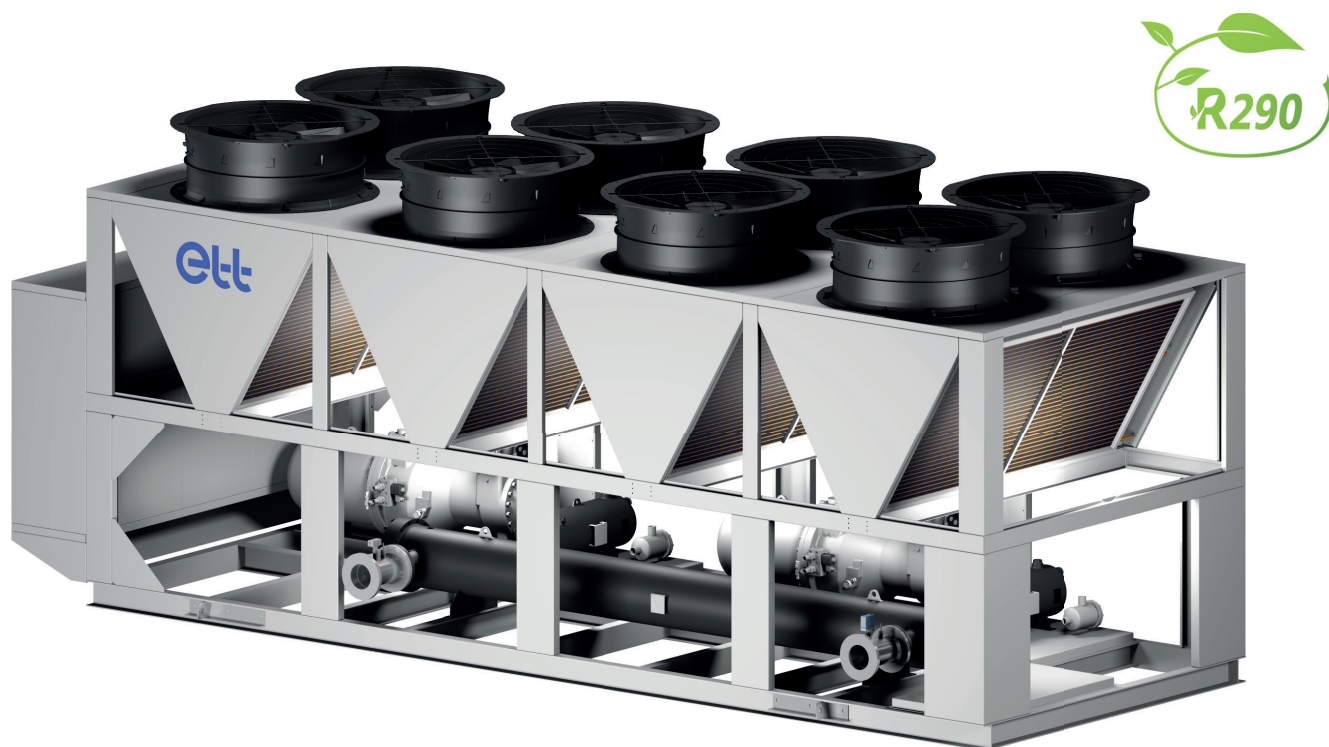




ENVIRONMENTAL
CLIMATE CONTROL
EQUIPMENT & SOLUTIONS



Industrial liquid chiller - EC+

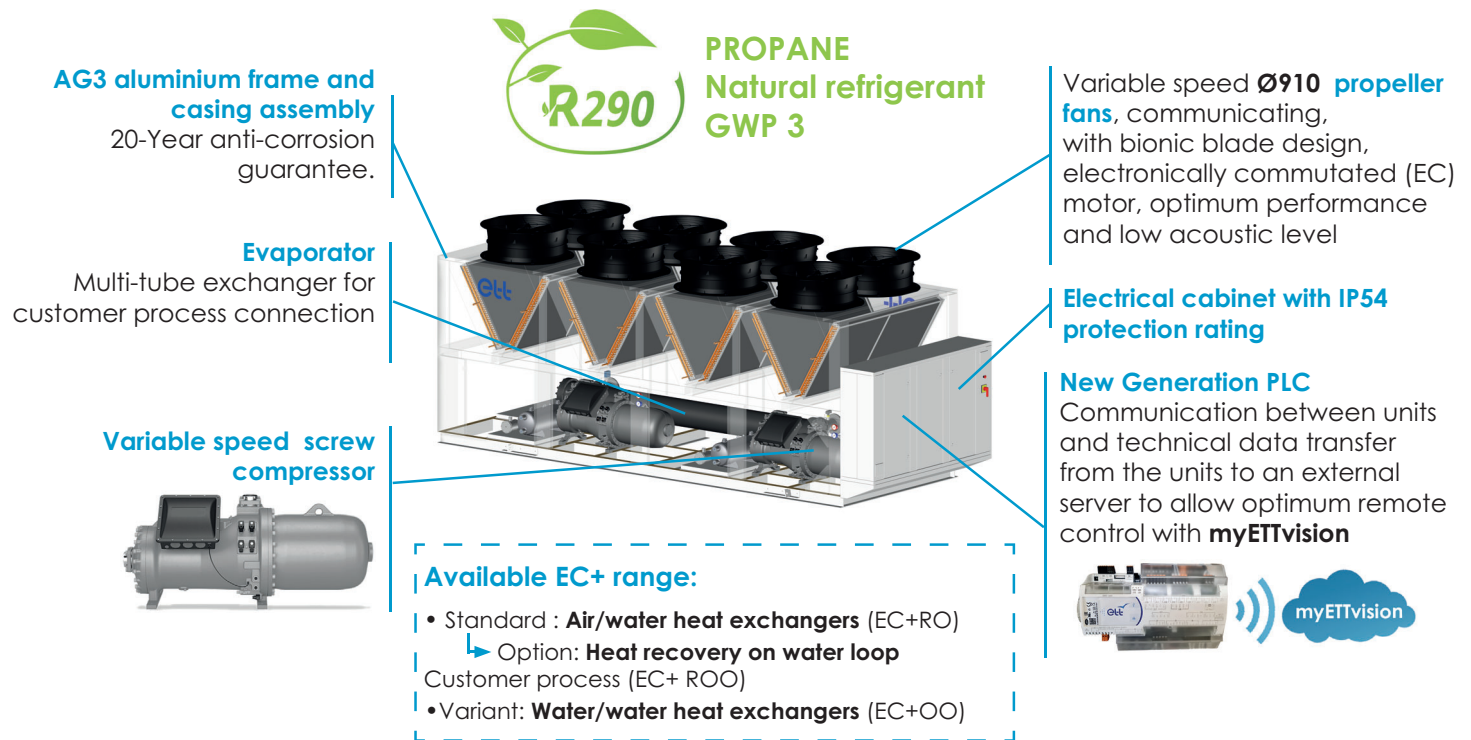


Full range of Industrial Liquid Chillers: EC+



www.ett-hvac.com

Our complete range of industrial liquid chillers: EC+



Wide range width and wide choice of compressors

Optimized refrigeration performance thanks to EC propeller fans with air flow modulation

Optimisation of refrigerant charge and adjust if necessary

Acoustic performance with the integration of the quietest propeller fans on the market

Adapting to dimensional constraints with tailor-made solutions

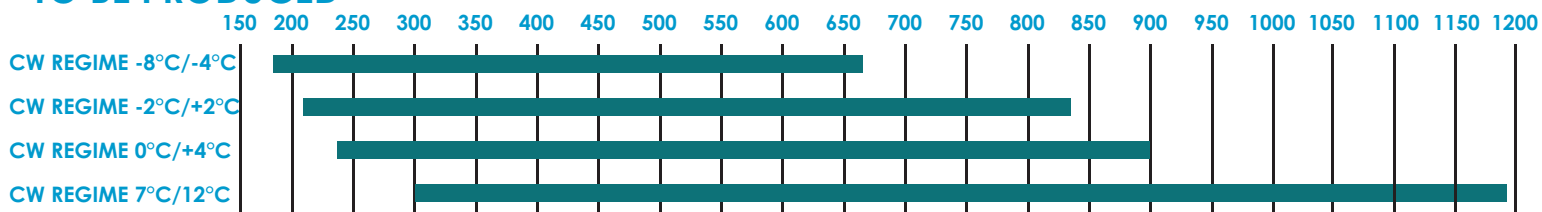
INDUSTRIAL APPLICATIONS

Any industrial application where a production of chilled water is required for the proper operation of the process or the heating of the premises (including storage at negative temperatures).

Agri-food	Defence - Armament	Paper - Printing	Shipbuilding
Cosmetics - Chemistry - Pharma	Electricity- Electronics	Mechanics - Automotive	Oil & Gas- Energy
Data Centers	Warehouses - Logistics	Metallurgy	Plastics industry

For any other fluid to treat than water, do not hesitate to consult us

REFRIGERATION POWER RANGES (kW) ACCORDING TO THE CHILLED WATER REGIMES TO BE PRODUCED



our quick selection guide of the EC+ RO unit

EC+ Range :



Chilled water regime -8°C/-4°C												
Unit part number R290 RO		EC2+ 070	EC2+ 080	EC2+ 090	EC2+ 100	EC2+ 110	EC2+ 125	EC2+ 140	EC2+ 160	EC2+ 180	EC2+ 210	EC2+ 240
Cooling capacity	kW	169.4	194.0	228.8	271.0	308.0	331.8	383.2	417.6	488.2	564.0	655.4
Chilled water flow ⁽³⁾	m³/h	39.5	45.2	53.3	63.2	71.8	77.4	89.3	97.4	113.8	131.5	152.8
Gross EER	kW/kW	1.60	1.61	1.51	1.67	1.61	1.58	1.71	1.63	1.60	1.68	1.66
SEPR (-2/-8°C process Mode -average Temp) ⁽⁴⁾	kW/kW	3.64	3.63	3.54	3.67	3.55	3.51	3.83	3.63	3.57	3.76	3.60
Max installed electrical power	kW	171.2	191.2	224.0	219.2	256.0	296.0	322.8	368.0	420.0	556.0	574.0
Max. voltage installed	A	280.8	312.8	375.2	366.8	411.2	483.2	529.2	596.8	696.8	842.4	942.4
Outside sound pressure level ⁽⁶⁾	dB(A)	60	63	71	63	69	72	65	68	72	68	73
Length x Width x Height	mm	6,560 x 2,250 x 2,630						9,560 x 2,250 x 2,630			12,560 x 2,250 x 2,630	
Unit weight	kg	3,618	3,629	3,739	3,930	4,089	4,736	6,143	6,135	6,186	8,569	8,590
Heat output recovery (optional)	kW	270.5	306.6	359.1	422.1	479.5	516.5	594.0	654.0	754.6	871.4	1,000.6
Hot water flow (optional) ⁽³⁾	m³/h	49.8	56.4	66.1	77.7	88.3	95.1	109.4	120.4	138.9	160.4	184.2
Operating temperature	°C	-15/+45										

Chilled water regime -2°C/+2°C												
Unit part number R290 RO		EC2+ 070	EC2+ 080	EC2+ 090	EC2+ 100	EC2+ 110	EC2+ 125	EC2+ 140	EC2+ 160	EC2+ 180	EC2+ 210	EC2+ 240
Cooling capacity ⁽¹⁾	kW	217.6	248.8	291.8	343.2	390.0	419.6	484.8	531.0	621.8	717.6	833.6
Chilled water flow ⁽³⁾	m³/h	50.6	57.8	67.8	79.8	90.7	97.5	112.7	123.4	144.5	166.8	193.8
Gross EER	kW/kW	2.03	2.06	2.02	2.12	2.10	2.07	2.14	2.06	2.06	2.12	2.06
SEPR (-2/-8°C process Mode - average Temp) ⁽⁴⁾	kW/kW	3.64	3.63	3.54	3.67	3.55	3.51	3.83	3.63	3.57	3.76	3.60
Max installed electrical power	kW	171.2	191.2	207.2	226.8	246.8	286.8	330.4	350.4	436.0	530.0	590.0
Max. voltage installed	A	280.8	312.8	348.8	379.2	397.2	469.2	541.6	569.6	722.4	802.0	968.0
Outside sound pressure level ⁽⁶⁾	dB(A)	60	61	64	60	61	65	65	66	67	68	71
Length x Width x Height	mm	6,560 x 2,250 x 2,630			9,560 x 2,250 x 2,630			12,560 x 2,250 x 2,630			15,560 x 2,250 x 2,630	
Unit weight	kg	3,761	3,771	3,792	5,239	5,271	5,924	7,323	7,496	7,547	9,891	9,912
Heat output recovery (optional) ⁽⁷⁾	kW	321.3	364.2	425.2	498.0	565.7	608.6	700.3	773.9	892.5	1,030.3	1,185.2
Hot water flow (optional) ⁽³⁾	m³/h	59.2	67.1	78.3	91.7	104.2	112.0	128.9	142.5	164.3	189.7	218.2
Operating temperature	°C	-15/+45										

Chilled water regime 0°C/+4°C												
Unit part number R290 RO		EC2+ 070	EC2+ 080	EC2+ 090	EC2+ 100	EC2+ 110	EC2+ 125	EC2+ 140	EC2+ 160	EC2+ 180	EC2+ 210	EC2+ 240
Cooling capacity ⁽¹⁾	kW	236.0	269.8	315.6	370.4	421.2	452.8	523.2	573.8	672.2	775.6	900.8
Chilled water flow ⁽³⁾	m³/h	54.8	62.7	73.3	86.0	97.8	105.2	121.5	133.3	156.1	180.2	209.2
Gross EER	kW/kW	2.16	2.18	2.11	2.26	2.22	2.17	2.27	2.17	2.15	2.23	2.15
SEPR (-2/-8°C process Mode -average Temp) ⁽⁴⁾	kW/kW	3.64	3.63	3.54	3.67	3.55	3.51	3.83	3.63	3.57	3.76	3.60
Max installed electrical power	kW	171.2	191.2	224.0	226.8	246.8	286.8	330.4	350.4	436.0	572.0	590.0
Max. voltage installed	A	280.8	312.8	375.2	379.2	397.2	469.2	541.6	569.6	722.4	868.0	968.0
Outside sound pressure level ⁽⁶⁾	dB(A)	60	62	66	60	62	67	65	67	70	68	73
Length x Width x Height	mm	6,560 x 2,250 x 2,630			9,560 x 2,250 x 2,630			12,560 x 2,250 x 2,630			15,560 x 2,250 x 2,630	
Unit weight	kg	3,778	3,789	3,810	5,239	5,271	5,924	7,470	7,643	7,694	9,955	9,976
Heat output recovery (optional) ⁽⁷⁾	kW	340.9	386.4	450.4	526.7	598.3	643.1	740.1	819.0	947.2	1,090.0	1,257.2
Hot water flow (optional) ⁽³⁾	m³/h	62.8	71.1	82.9	97.0	110.2	118.4	136.2	150.8	174.4	200.7	231.5
Operating temperature	°C	-15/+45										

Chilled water regime 7°C/12°C												
Unit part number R290 RO		EC2+ 070	EC2+ 080	EC2+ 090	EC2+ 100	EC2+ 110	EC2+ 125	EC2+ 140	EC2+ 160	EC2+ 180	EC2+ 210	EC2+ 240
Cooling capacity ⁽²⁾	kW	311.8	355.4	412.4	481.2	547.4	588.4	679.4	751.2	881.2	1,011.0	1,176.6
Chilled water flow ⁽³⁾	m³/h	57.7	65.8	76.4	89.1	101.4	109.0	125.8	139.1	163.2	187.2	217.9
Gross EER	kW/kW	2.69	2.70	2.66	2.76	2.71	2.70	2.79	2.70	2.73	2.84	2.77
SEPR (7/12°C Comfort - low average Temp) ⁽⁵⁾	kW/kW	5.20	5.09	-	-	-	-	-	-	-	-	-
Max installed electrical power	kW	171.2	191.2	207.2	226.8	246.8	286.8	330.4	350.4	436.0	530.0	590.0
Max. voltage installed	A	280.8	312.8	348.8	379.2	397.2	469.2	541.6	569.6	722.4	802.0	968.0
Outside sound pressure level ⁽⁴⁾	dB(A)	60	61	63	60	61	65	65	66	67	67	70
Length x Width x Height	mm	6,560 x 2,250 x 2,630			9,560 x 2,250 x 2,630			12,560 x 2,250 x 2,630			15,560 x 2,250 x 2,630	
Unit weight	kg	3,967	3,977	3,998	5,354	5,387	6,039	7,640	7,813	7,864	10,082	10,104
Heat output recovery (option) ⁽⁷⁾	kW	423.4	480.6	555.7	647.8	737.4	791.0	911.0	1,013.9	1,175.3	1,341.7	1,553.2
Hot water flow (optional) ⁽³⁾	m³/h	77.9	88.5	102.3	119.3	135.8	145.6	167.7	186.7	216.4	247.0	286.0
Operating temperature	°C	-15/+45										

(1) Outside conditions: +37°C DB / 25.5°C WB

(2) Outside conditions: +35°C DB / 24°C WB

(3) Glycol water: MPG 35%

(4) SEPR (Seasonal Energy Performance Ratio), in accordance with NF EN 14825/ EcoDesign Regulation N°2015/1095

(5) SEPR (Seasonal Energy Performance Ratio), in accordance with NF EN 14825/ EcoDesign Regulation N°2016/2281

(6) Resulting outside sound pressure at 10 m, reference 10⁵ in free field

(7) For a hot water temperature of 40°/45°C

ETT may change equipment technical data without prior notice.
Specifications given in this document are for information only and are not contractual.

Industrial Liquid Chiller MARK-
PLA_21-EN_A



High versatility for your industrial needs

AVAILABLE OPTIONS

- BPHE brazed plate exchanger on customer process water loop (EC+ ROO version)
- Water/water mode (EC+ OO) with skid or body design, for outdoor or indoor installations (with DRCPE compliance study if indoor)
- desuperheater for high temperature hot water production
- Hydraulic kit CW and/or HW (double pump with fixed flow / valves TA and filters out of body)
- Other capacities on request
- Enhanced protection for the seaside
- Very low noise level
- Tailor-made design for adaptation to dimensional constraints
- Stainless steel hydraulic tubes
- Victaulic quick couplings[®]

Our services ETT, a team of specialists
always at your side for the
success of your projects



Audit: Pre-visit for feasibility and costing



Studies Services: Specialized engineers



Follow-up: From the beginning to the end of the projects



Hotline: Expert technicians



On-site interventions: Experienced technicians trained in regulatory requirements and ETT technologies



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