

ENVIRONMENTAL
CLIMATE CONTROL
EQUIPMENT
& SOLUTIONS







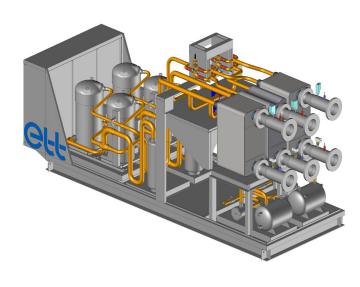






# ECO4







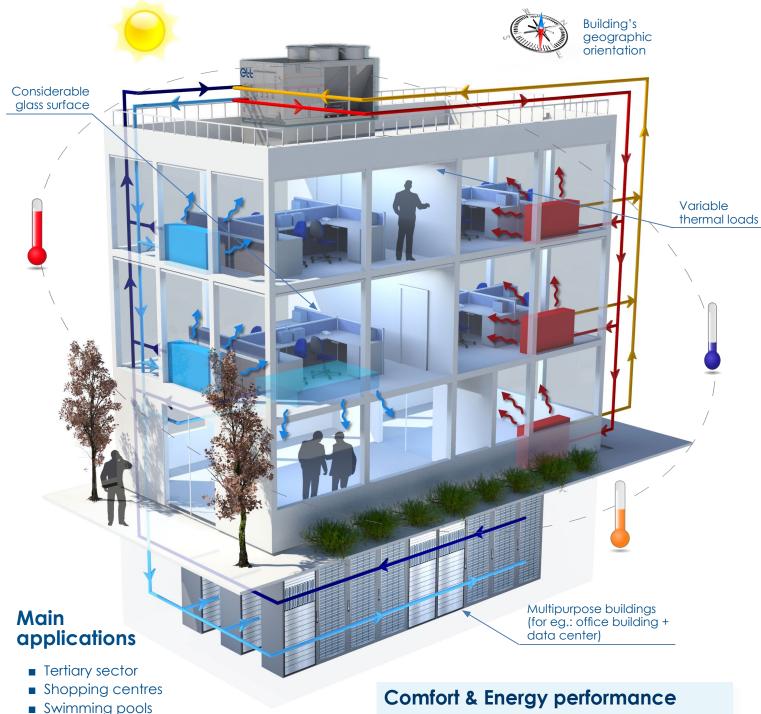
Thermorefrigerating pump - 4 pipes
Air-to-Water (RW) or Water-to-Water (WW) Multipurpose Unit



# multipurpose solution for buildings with simultaneous needs

### Modern buildings impose new requirements

Office buildings are the applications that have the most important simultaneous needs in heating and cooling. Numerous cumulative factors such as the geographic orientation, the variable thermal loads and the multipurpose nature of the building result in simultaneous and/or independent needs.



# **Comfort & Energy performance**

Today's expectations in terms of buildings' comfort and performance require adequate heating and cooling solutions.

### Hotels

- Residential sector
- Industry
- Viticulture

The ECO4 thermodynamic 4-pipe solution fully meets these requirements.

# malternative traditional installations easy installation & thermal comfort

## **Application example:**

732 m² multipurpose office building equipped with a data centre - Rennes (FR)

- Occupancy from 8:30 am to 8 pm, Monday to Friday
- Ratio of yearly simultaneous needs estimated at 31%
- Heating needs: 272 kW / Cooling needs: 290 kW

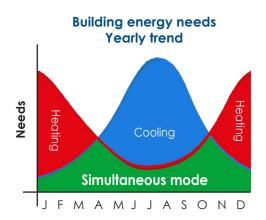
Standard solution: Natural gas boiler + R410A boiler

ECO4 RW 44 (Air-to-Water) solution

### Primary energy comparative estimates



Estimated return on investment: 2.1 years



# The benefits of the ECO4 solution compared to a standard solution (boiler + chiller)

- Energy savings (recovery on exhaust air)
- Smaller footprint (only one unit instead of two)
- Reduced installation costs (ETT plug & play)
- Reduced maintenance costs
- Energy optimisation
- Reduced CO₂ emissions

### The ECO4 range has been specially designed to adapt to complex needs.



Large range of available capacities to meet your needs.



20-year guarantee against corrosion frame - casing



# ECO4 RW: Technical features & dimensions

	Designation		11	12	2	13	14	21	22	2	23	24
	RATED PERFORMANCES AT 35°C outs. (1)									_		
COOLING	Net cooling capacity	kW	52.0	58.		67.0	71.5	86.6	98.		117.6	128.
S S	Absorbed electrical power	kW	17.6	20.		24.3	26.4	29.1	34.		42.5	49.
5	Net EER	kW/kW	2.96	2.8	4	2.75	2.71	2.95	2.8	55	2.76	2.6
3	SEASONAL EFFICIENCY (2)											
	Pdesign, C	kW	52.0	58		67.0	71.5	86.6	98		117.6	12
١.	SEER	kW/kW	4.67	4.1		4.30	4.22	4.59	4.3		4.39	4.
	ns, C	%	184	16	9	169	166	181	17	/ I	173	17
١.	RATED PERFORMANCES AT 7°C outs. (3)											
	Net heating capacity	kW	60.0	67		76.2	81.3	99.9		5.3	133.7	14
nealing	Absorbed electrical power	kW	18.0	20		23.3	24.9	28.3	33		39.5	45
	Net COP	kW/kW	3.34	3.1	2/	3.27	3.27	3.53	3.	42	3.38	3.
1	SEASONAL EFFICIENCY (4)	LAM	40.9	46	Е	52.0	55.3	67.9	78	2	89.7	10
	Pdesign, H SCOP	kW kW/kW	3.19	3.1		3.22	3.21	3.27	3.		3.22	3.:
	ns, H	%	125	12		126	126	128	12		126	12
	RATED PERFORMANCES HEAT RECOVERY MODE (5)			_		'				'		
		1,1,1	51.0	50		10.0	7	00.4	10	, ,	100.0	10
	Cooling capacity	kW	51.8	58	.3	69.2	74.6	88.6	10	1.6	123.0	13
	Heating capacity	kW	68.0	77	.1	90.3	97.2	114.7	13:	2.2	158.6	17-
ĺ	Absorbed electrical power	kW	17.1	19	.8	22.2	23.8	27.4	32	2.2	37.5	42
	Net TER	kW/kW	7.01	6.8	35	7.18	7.21	7.42	7.:	27	7.51	7.:
-	ACQUISTICS (I)		1									
١.	ACOUSTICS (1)			_						_		_
г	Outside sound power level	dB(A)	76	7		79	80	78		2	84	8
1 -	Resulting outside sound pressure at 10 m, reference 10-5 in free field	dB(A)	48	5	0	51	52	50	5	4	56	5
١.	DIMENSIONS AND WEIGHT		I									
	Overall width	mm	2,280	2,2		2,280	2,280	2,280			2,280	2,2
		mm	2.500	2.5	00	2.500	2.500	3,600	3,6	500	3,600	3,6
1	Overall length		1 (75		7.5	1 475	1 (75	1 010	1.0	10	1 010	1.0
	Overall height	mm	1,675	1,6		1,675	1,675	1,910		710	1,910	
		mm kg	1,675 780	1,6		1,675 810	1,675 815	1,910 1,150			1,910 1,170	
	Overall height											1,2
ľ	Overall height Unit weight without any option		780	80	00	810	815	1,150	1,1	55	1,170	1,2
ľ	Overall height Unit weight without any option  Designation		780	80	00	810	815	1,150	1,1	55	1,170	1,2
ľ	Overall height Unit weight without any option  Designation  RATED PERFORMANCES AT 35°C outs. (1)	kg kW kW	780	32	33	810	815	1,150	1,1	55 51 348.0 123.1	1,170	1,2
	Overall height  Unit weight without any option  Designation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity	kg kW	780 31 150.6	32	33	810 41 231.8	815 42 250.5	1,150 43 282.2	1,1 44 305.6	55 51 348.0	1,170 52 366.0	1,2
ľ	Overall height Unit weight without any option  Designation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)	kW kW kW/kW	780 31 150.6 51.4 2.93	32 166.0 58.6 2.85	33 190.0 68.7 2.77	231.8 76.8 3.02	250.5 85.3 2.94	1,150 43 282.2 99.9 2.83	305.6 114.1 2.68	55 51 348.0 123.1 2.83	1,170 52 366.0 132.7 2.76	1,2 5 38 14 2.
COCHING	Overall height Unit weight without any option  Designation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2) Pdesign, C	kW kW kW/kW	780 31 150.6 51.4 2.93	32 166.0 58.6 2.85	33 190.0 68.7 2.77	41 231.8 76.8 3.02	815 42 250.5 85.3 2.94 250.5	1,150 43 282.2 99.9 2.83	305.6 114.1 2.68	55 51 348.0 123.1 2.83 348.0	1,170 52 366.0 132.7 2.76	1,2 5 38 14 2.
	Overall height Unit weight without any option  Designation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER	kW kW kW/kW	780 31 150.6 51.4 2.93 150.6 4.68	32 166.0 58.6 2.85 166.0 4.15	33 190.0 68.7 2.77	41 231.8 76.8 3.02 231.8 4.51	250.5 85.3 2.94 250.5 4.55	1,150 43 282.2 99.9 2.83 282.2 4.43	305.6 114.1 2.68 305.7 4.45	55 51 348.0 123.1 2.83 348.0 4.56	1,170 52 366.0 132.7 2.76 366.0 4.68	38 14 2.
	Overall height Unit weight without any option  Designation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C	kW kW kW/kW	780 31 150.6 51.4 2.93	32 166.0 58.6 2.85	33 190.0 68.7 2.77	41 231.8 76.8 3.02	815 42 250.5 85.3 2.94 250.5	1,150 43 282.2 99.9 2.83	305.6 114.1 2.68	55 51 348.0 123.1 2.83 348.0	1,170 52 366.0 132.7 2.76	1,2 5 38 14 2.
	Overall height Unit weight without any option  Designation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER	kW kW kW/kW	780 31 150.6 51.4 2.93 150.6 4.68	32 166.0 58.6 2.85 166.0 4.15	33 190.0 68.7 2.77	41 231.8 76.8 3.02 231.8 4.51	250.5 85.3 2.94 250.5 4.55	1,150 43 282.2 99.9 2.83 282.2 4.43	305.6 114.1 2.68 305.7 4.45	55 51 348.0 123.1 2.83 348.0 4.56	1,170 52 366.0 132.7 2.76 366.0 4.68	1,2 5 38 14 2.
	Overall height Unit weight without any option  Designation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity	kW kW kW/kW % %	780 31 150.6 51.4 2.93 150.6 4.68 184	32 166.0 58.6 2.85 166.0 4.15 163	33 190.0 68.7 2.77 190.0 4.10 161	231.8 76.8 3.02 231.8 4.51 177	250.5 85.3 2.94 250.5 4.55 179	1,150 43 282.2 99.9 2.83 282.2 4.43 174	305.6 114.1 2.68 305.7 4.45 175	55 51 348.0 123.1 2.83 348.0 4.56 179 392.9	1,170   52   366.0   132.7   2.76   366.0   4.68   184   418.2	1,2 38 14 2. 38 4 11
	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power	kW kW kW/kW % kW/kW kW/kW kW/kW	780 31 150.6 51.4 2.93 150.6 4.68 184 170.5 50.5	32 166.0 58.6 2.85 166.0 4.15 163 189.3 55.7	33 190.0 68.7 2.77 190.0 4.10 161	231.8 76.8 3.02 231.8 4.51 177	250.5 85.3 2.94 250.5 4.55 179	1,150 43 282.2 99.9 2.83 282.2 4.43 174 321.6 99.3	305.6 114.1 2.68 305.7 4.45 175	55 51 348.0 123.1 2.83 348.0 4.56 179 392.9 122	1,170   52   366.0   132.7   2.76   366.0   4.68   184   418.2   136	1,2 388 144 2.
	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power Net COP	kW kW kW/kW % %	780 31 150.6 51.4 2.93 150.6 4.68 184	32 166.0 58.6 2.85 166.0 4.15 163	33 190.0 68.7 2.77 190.0 4.10 161	231.8 76.8 3.02 231.8 4.51 177	250.5 85.3 2.94 250.5 4.55 179	1,150 43 282.2 99.9 2.83 282.2 4.43 174	305.6 114.1 2.68 305.7 4.45 175	55 51 348.0 123.1 2.83 348.0 4.56 179 392.9	1,170   52   366.0   132.7   2.76   366.0   4.68   184   418.2	1,2 388 144 2.
	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power Net COP  SEASONAL EFFICIENCY (4)	kW kW/kW % kW/kw % kW kW/kW	780 31 150.6 51.4 2.93 150.6 4.68 184 170.5 50.5 3.37	32 166.0 58.6 2.85 166.0 4.15 163 189.3 55.7 3.40	33 190.0 68.7 2.77 190.0 4.10 161 210.8 64.9 3.25	231.8 76.8 3.02 231.8 4.51 177 266.1 77.0 3.46	250.5 85.3 2.94 250.5 4.55 179 289.1 85.4 3.38	1,150 43 282.2 99.9 2.83 282.2 4.43 174 321.6 99.3 3.24	305.6 114.1 2.68 305.7 4.45 175 353.2 112.0 3.15	55 51 348.0 123.1 2.83 348.0 4.56 179 392.9 122 3.23	1,170 52 366.0 132.7 2.76 366.0 4.68 184 418.2 136 3.08	1,22 \$ 388 144 22 \$ 34 44 \$ 3 3 3
	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power Net COP  SEASONAL EFFICIENCY (4)  Pdesign, H	kW kW/kW % kW/kW % kW/kW kW/kW	780 31 150.6 51.4 2.93 150.6 4.68 184 170.5 50.5 3.37	32 166.0 58.6 2.85 166.0 4.15 163 189.3 55.7 3.40	33 190.0 68.7 2.77 190.0 4.10 161 210.8 64.9 3.25	231.8 76.8 3.02 231.8 4.51 177 266.1 77.0 3.46	250.5 85.3 2.94 250.5 4.55 179 289.1 85.4 3.38	1,150 43 282.2 99.9 2.83 282.2 4.43 174 321.6 99.3 3.24	305.6 114.1 2.68 305.7 4.45 175 353.2 112.0 3.15	348.0 123.1 2.83 348.0 4.56 179 392.9 122 3.23	1,170 52 366.0 132.7 2.76 366.0 4.68 184 418.2 136 3.08	1,22
	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power Net COP  SEASONAL EFFICIENCY (4)	kW kW/kW % kW/kw % kW kW/kW	780 31 150.6 51.4 2.93 150.6 4.68 184 170.5 50.5 3.37	32 166.0 58.6 2.85 166.0 4.15 163 189.3 55.7 3.40	33 190.0 68.7 2.77 190.0 4.10 161 210.8 64.9 3.25	231.8 76.8 3.02 231.8 4.51 177 266.1 77.0 3.46	250.5 85.3 2.94 250.5 4.55 179 289.1 85.4 3.38	1,150 43 282.2 99.9 2.83 282.2 4.43 174 321.6 99.3 3.24	305.6 114.1 2.68 305.7 4.45 175 353.2 112.0 3.15	55 51 348.0 123.1 2.83 348.0 4.56 179 392.9 122 3.23	1,170 52 366.0 132.7 2.76 366.0 4.68 184 418.2 136 3.08	1,22 38 38 144 22 36 36 36 36 36 36 36 36 36 36 36 36 36
	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power Net COP  SEASONAL EFFICIENCY (4)  Pdesign, H SCOP ns, H	kW kW/kW % kW/kW kW/kW kW/kW kW/kW	780  31  150.6  51.4  2.93  150.6  4.68  184  170.5  50.5  3.37	32 166.0 58.6 2.85 166.0 4.15 163 189.3 55.7 3.40	33 190.0 68.7 2.77 190.0 4.10 161 210.8 64.9 3.25	231.8 76.8 3.02 231.8 4.51 177 266.1 77.0 3.46	250.5 85.3 2.94 250.5 4.55 179 289.1 85.4 3.38	282.2 99.9 2.83 282.2 4.43 174 321.6 99.3 3.24	305.6 114.1 2.68 305.7 4.45 175 353.2 112.0 3.15	348.0 123.1 2.83 348.0 4.56 179 392.9 122 3.23 271.6 3.24	1,170 52 366.0 132.7 2.76 366.0 4.68 184 418.2 136 3.08	1,22 38 38 144 22 36 36 36 36 36 36 36 36 36 36 36 36 36
	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power  Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power  Net COP  SEASONAL EFFICIENCY (4)  Pdesign, H  SCOP ns, H  RATED PERFORMANCES HEAT RECOVERY MODE (3)	kg kW kW/kW kW/kW % kW kW/kw kW/kW kW/kW	780  31  150.6 51.4 2.93  150.6 4.68 184  170.5 50.5 3.37  116.2 3.20 125	32 166.0 58.6 2.85 166.0 4.15 163 189.3 55.7 3.40 125.2 3.32 130	190.0 68.7 2.77 190.0 4.10 161 210.8 64.9 3.25 152.4 3.24 127	231.8 76.8 3.02 231.8 4.51 177 266.1 77.0 3.46	250.5 85.3 2.94 250.5 4.55 179 289.1 85.4 3.38	282.2 99.9 2.83 282.2 4.43 174 321.6 99.3 3.24 220.1 3.26 127	305.6 114.1 2.68 305.7 4.45 175 353.2 112.0 3.15 242.0 3.23 126	348.0 123.1 2.83 348.0 4.56 179 392.9 122 3.23 271.6 3.24 127	1,170  52  366.0  132.7  2.76  366.0  4.68  184  418.2  136  3.08  287.8  3.24  126	1,2 38 14 2. 36 4 4 4 33 33 33 33
	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power Net COP  SEASONAL EFFICIENCY (4)  Pdesign, H  SCOP ns, H  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity	kW kW/kW % kW/kW/kW/kW/kW/kW/kW/kW/kW/kW/kW/kW/kW/k	780 31 150.6 51.4 2.93 150.6 4.68 184 170.5 50.5 3.37 116.2 3.20 125	32 166.0 58.6 2.85 166.0 4.15 163 189.3 55.7 3.40 125.2 3.32 130	33 190.0 68.7 2.77 190.0 4.10 161 210.8 64.9 3.25 152.4 3.24 127	231.8 76.8 3.02 231.8 4.51 177 266.1 77.0 3.46 181.1 3.29 129	250.5 85.3 2.94 250.5 4.55 179 289.1 85.4 3.38	1,150 43 282.2 99.9 2.83 282.2 4.43 174 321.6 99.3 3.24 220.1 3.26 127	305.6 114.1 2.68 305.7 4.45 175 353.2 112.0 3.15 242.0 3.23 126	348.0 123.1 2.83 348.0 4.56 179 392.9 122 3.23 271.6 3.24 127	1,170  52  366.0  132.7  2.76  366.0  4.68  184  418.2  136  3.08  287.8  3.24  126	1,2 8 38 38 14 2. 33 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power  Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power  Net COP  SEASONAL EFFICIENCY (4)  Pdesign, H  SCOP ns, H  RATED PERFORMANCES HEAT RECOVERY MODE (3)	kg kW kW/kW kW/kW % kW kW/kw kW/kW kW/kW	780  31  150.6 51.4 2.93  150.6 4.68 184  170.5 50.5 3.37  116.2 3.20 125	32 166.0 58.6 2.85 166.0 4.15 163 189.3 55.7 3.40 125.2 3.32 130	190.0 68.7 2.77 190.0 4.10 161 210.8 64.9 3.25 152.4 3.24 127	231.8 76.8 3.02 231.8 4.51 177 266.1 77.0 3.46	250.5 85.3 2.94 250.5 4.55 179 289.1 85.4 3.38	282.2 99.9 2.83 282.2 4.43 174 321.6 99.3 3.24 220.1 3.26 127	305.6 114.1 2.68 305.7 4.45 175 353.2 112.0 3.15 242.0 3.23 126	348.0 123.1 2.83 348.0 4.56 179 392.9 122 3.23 271.6 3.24 127	1,170  52  366.0  132.7  2.76  366.0  4.68  184  418.2  136  3.08  287.8  3.24  126	1,2
	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power Net COP  SEASONAL EFFICIENCY (4)  Pdesign, H  SCOP ns, H  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity	kW kW/kW % kW/kW/kW/kW/kW/kW/kW/kW/kW/kW/kW/kW/kW/k	780 31 150.6 51.4 2.93 150.6 4.68 184 170.5 50.5 3.37 116.2 3.20 125	32 166.0 58.6 2.85 166.0 4.15 163 189.3 55.7 3.40 125.2 3.32 130	33 190.0 68.7 2.77 190.0 4.10 161 210.8 64.9 3.25 152.4 3.24 127	231.8 76.8 3.02 231.8 4.51 177 266.1 77.0 3.46 181.1 3.29 129	250.5 85.3 2.94 250.5 4.55 179 289.1 85.4 3.38	1,150 43 282.2 99.9 2.83 282.2 4.43 174 321.6 99.3 3.24 220.1 3.26 127	305.6 114.1 2.68 305.7 4.45 175 353.2 112.0 3.15 242.0 3.23 126	348.0 123.1 2.83 348.0 4.56 179 392.9 122 3.23 271.6 3.24 127	1,170  52  366.0  132.7  2.76  366.0  4.68  184  418.2  136  3.08  287.8  3.24  126	1,2 55 388 144 2. 34 41 11 33 33 11 44 45 55
	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power Net COP  SEASONAL EFFICIENCY (4)  Pdesign, H  SCOP ns, H  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity Heating capacity Heating capacity	kg kW kW/kW kW/kW % kW kW/kW kW/kW kW/kW kW/kW	780  31  150.6 51.4 2.93  150.6 4.68 184  170.5 50.5 3.37  116.2 3.20 125  152.6 198.2	32 166.0 58.6 2.85 166.0 4.15 163 189.3 55.7 3.40 125.2 3.32 130 172.5 223.5	33 190.0 68.7 2.77 190.0 4.10 161 210.8 64.9 3.25 152.4 3.24 127	231.8 76.8 3.02 231.8 4.51 177 266.1 77.0 3.46 181.1 3.29 129	250.5 85.3 2.94 250.5 4.55 179 289.1 85.4 3.38 197.0 3.32 130	1,150 43 282.2 99.9 2.83 282.2 4.43 174 321.6 99.3 3.24 220.1 3.26 127 281.3 367.3	305.6 114.1 2.68 305.7 4.45 175 353.2 112.0 3.15 242.0 3.23 126	348.0 123.1 2.83 348.0 4.56 179 392.9 122 3.23 271.6 3.24 127	1,170  52  366.0 132.7 2.76  366.0 4.68 184  418.2 136 3.08  287.8 3.24 126	1,22
	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power Net COP  SEASONAL EFFICIENCY (4)  Pdesign, H  SCOP ns, H  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity Heating capacity Absorbed electrical power Net COP  Net TER	kg kW kW/kW kW/kW % kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	780  31  150.6 51.4 2.93  150.6 4.68 184  170.5 50.5 3.37  116.2 3.20 125  152.6 198.2 47.9	32 166.0 58.6 2.85 166.0 4.15 163 189.3 55.7 3.40 125.2 3.32 130 172.5 223.5 53.7	190.0 68.7 2.77 190.0 4.10 161 210.8 64.9 3.25 152.4 3.24 127	231.8 76.8 3.02 231.8 4.51 177 266.1 77.0 3.46 181.1 3.29 129 230.6 298.4 71.4	250.5 85.3 2.94 250.5 4.55 179 289.1 85.4 3.38 197.0 3.32 130 249.1 323.1 77.9	282.2 99.9 2.83 282.2 4.43 174 321.6 99.3 3.24 220.1 3.26 127 281.3 367.3 90.5	305.6 114.1 2.68 305.7 4.45 175 353.2 112.0 3.15 242.0 3.23 126 306.7 404.4 102.8	348.0 123.1 2.83 348.0 4.56 179 392.9 122 3.23 271.6 3.24 127 358.6 466.2	1,170  52  366.0  132.7  2.76  366.0  4.68  184  418.2  136  3.08  287.8  3.24  126  379.6  494.9  121.4	1,22
	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power Net COP  SEASONAL EFFICIENCY (4)  Pdesign, H  SCOP ns, H  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity Heating capacity Absorbed electrical power Net TER  ACOUSTICS (1)	kg  kW kW/kW  kW/kW  %  kW kW/kW  kW kW/kW  kW kW/kW	780  31  150.6 51.4 2.93  150.6 4.68 184  170.5 50.5 3.37  116.2 3.20 125  152.6 198.2 47.9 7.32	32 166.0 58.6 2.85 166.0 4.15 163 189.3 55.7 3.40 125.2 3.32 130 172.5 223.5 53.7 7.38	190.0 68.7 2.77 190.0 4.10 161 210.8 64.9 3.25 152.4 3.24 127 197.2 254.9 60.8 7.44	231.8 76.8 3.02 231.8 4.51 177 266.1 77.0 3.46 181.1 3.29 129 230.6 298.4 71.4 7.41	250.5 85.3 2.94 250.5 4.55 179 289.1 85.4 3.38 197.0 3.32 130 249.1 323.1 77.9 7.34	282.2 99.9 2.83 282.2 4.43 174 321.6 99.3 3.24 220.1 3.26 127 281.3 367.3 90.5 7.16	305.6 114.1 2.68 305.7 4.45 175 353.2 112.0 3.15 242.0 3.23 126 306.7 404.4 102.8 6.92	348.0 123.1 2.83 348.0 4.56 179 392.9 122 3.23 271.6 3.24 127 358.6 466.2 113.2 7.28	1,170  52  366.0 132.7 2.76  366.0 4.68 184  418.2 136 3.08  287.8 3.24 126  379.6 494.9 121.4 7.20	1,22
	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power Net COP  SEASONAL EFFICIENCY (4)  Pdesign, H  SCOP ns, H  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity Heating capacity Absorbed electrical power Net TER  ACOUSTICS (1)  Outside sound power level	kg  kW kW/kW  kW/kW  %  kW kW/kW  kW kW/kW  dB(A)	780  31  150.6 51.4 2.93  150.6 4.68 184  170.5 50.5 3.37  116.2 3.20 125  152.6 198.2 47.9 7.32	166.0 58.6 2.85 166.0 4.15 163 189.3 55.7 3.40 125.2 3.32 130 172.5 223.5 53.7 7.38	33 190.0 68.7 2.77 190.0 4.10 161 210.8 64.9 3.25 152.4 3.24 127 197.2 254.9 60.8 7.44	231.8 76.8 3.02 231.8 4.51 177 266.1 77.0 3.46 181.1 3.29 129 230.6 298.4 71.4 7.41	250.5 85.3 2.94 250.5 4.55 179 289.1 85.4 3.38 197.0 3.32 130 249.1 323.1 77.9 7.34	1,150 43 282.2 99.9 2.83 282.2 4.43 174 321.6 99.3 3.24 220.1 3.26 127 281.3 367.3 90.5 7.16	305.6 114.1 2.68 305.7 4.45 175 353.2 112.0 3.15 242.0 3.23 126 306.7 404.4 102.8 6.92	348.0 123.1 2.83 348.0 4.56 179 392.9 122 3.23 271.6 3.24 127 358.6 466.2 113.2 7.28	1,170  52  366.0 132.7 2.76  366.0 4.68 184  418.2 136 3.08  287.8 3.24 126  379.6 494.9 121.4 7.20	1,22
Omionio de la companya della companya della companya de la companya de la companya della company	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power Net COP  SEASONAL EFFICIENCY (4)  Pdesign, H  SCOP ns, H  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity Heating capacity Heating capacity Absorbed electrical power Net TER  ACOUSTICS (1)  Outside sound power level Resulting outside sound pressure at 10 m, reference 10°s in free field	kg  kW kW/kW  kW/kW  %  kW kW/kW  kW kW/kW  kW kW/kW	780  31  150.6 51.4 2.93  150.6 4.68 184  170.5 50.5 3.37  116.2 3.20 125  152.6 198.2 47.9 7.32	32 166.0 58.6 2.85 166.0 4.15 163 189.3 55.7 3.40 125.2 3.32 130 172.5 223.5 53.7 7.38	190.0 68.7 2.77 190.0 4.10 161 210.8 64.9 3.25 152.4 3.24 127 197.2 254.9 60.8 7.44	231.8 76.8 3.02 231.8 4.51 177 266.1 77.0 3.46 181.1 3.29 129 230.6 298.4 71.4 7.41	250.5 85.3 2.94 250.5 4.55 179 289.1 85.4 3.38 197.0 3.32 130 249.1 323.1 77.9 7.34	282.2 99.9 2.83 282.2 4.43 174 321.6 99.3 3.24 220.1 3.26 127 281.3 367.3 90.5 7.16	305.6 114.1 2.68 305.7 4.45 175 353.2 112.0 3.15 242.0 3.23 126 306.7 404.4 102.8 6.92	348.0 123.1 2.83 348.0 4.56 179 392.9 122 3.23 271.6 3.24 127 358.6 466.2 113.2 7.28	1,170  52  366.0 132.7 2.76  366.0 4.68 184  418.2 136 3.08  287.8 3.24 126  379.6 494.9 121.4 7.20	1,22
Omionio de la companya della companya della companya de la companya de la companya della company	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power Net COP  SEASONAL EFFICIENCY (4)  Pdesign, H  SCOP ns, H  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity Heating capacity Absorbed electrical power Net TER  ACOUSTICS (1)  Outside sound power level Resulting outside sound pressure at 10 m, reference 10°s in free field  DIMENSIONS AND WEIGHT	kg kW kW kW/kW  kW/kW %  kW kW/kW  kW kW/kW  dB(A)	780  31  150.6 51.4 2.93  150.6 4.68 184  170.5 50.5 3.37  116.2 3.20 125  152.6 198.2 47.9 7.32  83 55	166.0 58.6 2.85 166.0 4.15 163 189.3 55.7 3.40 125.2 3.32 130 172.5 223.5 53.7 7.38	190.0 68.7 2.77 190.0 4.10 161 210.8 64.9 3.25 152.4 3.24 127 197.2 254.9 60.8 7.44	231.8 76.8 3.02 231.8 4.51 177 266.1 77.0 3.46 181.1 3.29 129 230.6 298.4 71.4 7.41	250.5 85.3 2.94 250.5 4.55 179 289.1 85.4 3.38 197.0 3.32 130 249.1 323.1 77.9 7.34	282.2 99.9 2.83 282.2 4.43 174 321.6 99.3 3.24 220.1 3.26 127 281.3 367.3 90.5 7.16	305.6 114.1 2.68 305.7 4.45 175 353.2 112.0 3.15 242.0 3.23 126 306.7 404.4 102.8 6.92	348.0 123.1 2.83 348.0 4.56 179 392.9 122 3.23 271.6 3.24 127 358.6 466.2 113.2 7.28	1,170  52  366.0 132.7 2.76  366.0 4.68 184  418.2 136 3.08  287.8 3.24 126  379.6 494.9 121.4 7.20	1,22
	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power Net COP  SEASONAL EFFICIENCY (4)  Pdesign, H  SCOP ns, H  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity Heating capacity Heating capacity Absorbed electrical power Net TER  ACOUSTICS (1) Outside sound power level Resulting outside sound pressure at 10 m, reference 10°s in free field DIMENSIONS AND WEIGHT Overall width	kg  kW kW kW/kW  kW/kW  kW kW/kW  kW kW/kW  dB(A)  mm	780  31  150.6 51.4 2.93  150.6 4.68 184  170.5 50.5 3.37  116.2 3.20 125  152.6 198.2 47.9 7.32  83 55	166.0 58.6 2.85 166.0 4.15 163 189.3 55.7 3.40 125.2 3.32 130 172.5 223.5 53.7 7.38	190.0 68.7 2.77 190.0 4.10 161 210.8 64.9 3.25 152.4 3.24 127 197.2 254.9 60.8 7.44	231.8 76.8 3.02 231.8 4.51 177 266.1 77.0 3.46 181.1 3.29 129 230.6 298.4 71.4 7.41 85 57	250.5 85.3 2.94 250.5 4.55 179 289.1 85.4 3.38 197.0 3.32 130 249.1 323.1 77.9 7.34	282.2 99.9 2.83 282.2 4.43 174 321.6 99.3 3.24 220.1 3.26 127 281.3 367.3 90.5 7.16	305.6 114.1 2.68 305.7 4.45 175 353.2 112.0 3.15 242.0 3.23 126 306.7 404.4 102.8 6.92	348.0 123.1 2.83 348.0 4.56 179 392.9 122 3.23 271.6 3.24 127 358.6 466.2 113.2 7.28	1,170  52  366.0 132.7 2.76  366.0 4.68 184  418.2 136 3.08  287.8 3.24 126  379.6 494.9 121.4 7.20  90 62	1,2 5 388 144 2. 34 44 55 12 7
SOCIENCE	Overall height Unit weight without any option  Pasignation  RATED PERFORMANCES AT 35°C outs. (1)  Net cooling capacity Absorbed electrical power Net EER  SEASONAL EFFICIENCY (2)  Pdesign, C  SEER ns, C  RATED PERFORMANCES AT 7°C outs. (3)  Net heating capacity Absorbed electrical power Net COP  SEASONAL EFFICIENCY (4)  Pdesign, H  SCOP ns, H  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity Heating capacity Absorbed electrical power Net TER  ACOUSTICS (1)  Outside sound power level Resulting outside sound pressure at 10 m, reference 10°s in free field  DIMENSIONS AND WEIGHT	kg kW kW kW/kW  kW/kW %  kW kW/kW  kW kW/kW  dB(A)	780  31  150.6 51.4 2.93  150.6 4.68 184  170.5 50.5 3.37  116.2 3.20 125  152.6 198.2 47.9 7.32  83 55	166.0 58.6 2.85 166.0 4.15 163 189.3 55.7 3.40 125.2 3.32 130 172.5 223.5 53.7 7.38	190.0 68.7 2.77 190.0 4.10 161 210.8 64.9 3.25 152.4 3.24 127 197.2 254.9 60.8 7.44	231.8 76.8 3.02 231.8 4.51 177 266.1 77.0 3.46 181.1 3.29 129 230.6 298.4 71.4 7.41	250.5 85.3 2.94 250.5 4.55 179 289.1 85.4 3.38 197.0 3.32 130 249.1 323.1 77.9 7.34	282.2 99.9 2.83 282.2 4.43 174 321.6 99.3 3.24 220.1 3.26 127 281.3 367.3 90.5 7.16	305.6 114.1 2.68 305.7 4.45 175 353.2 112.0 3.15 242.0 3.23 126 306.7 404.4 102.8 6.92	348.0 123.1 2.83 348.0 4.56 179 392.9 122 3.23 271.6 3.24 127 358.6 466.2 113.2 7.28	1,170  52  366.0 132.7 2.76  366.0 4.68 184  418.2 136 3.08  287.8 3.24 126  379.6 494.9 121.4 7.20	1,9 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2

<sup>(1)</sup> According to EN 14511. Cooling Mode: Heat exchanger on the inside: 12°C / 7°C Outside conditions: 35°C DB/24°C WB.
(2) According to EcoDesign regulations 2016/2281. (For information purpose).
(3) According to EN 14511. Heating mode: Heat exchanger on the inside: 40°C / 45°C Outside conditions: 7°C DB/6°C WB.

<sup>(4)</sup> According to EcoDesign regulations 2013/813.
(5) Heat exchanger on chilled water side: 12°C / 7°C - Heat exchanger on hot water side: 40°C / 45°C.

Nota: Outside temperature in Heating mode: Maximum: please contact us / Minimum: -15°C Outside temperature in Cooling mode: Maximum: +45°C / Minimum: please contact us.

# ECO4 RW: Description of the air-to-water unit

The **ECO4 RW** is a R410A thermorefrigerating pump (4-pipe version) allowing the simultaneous production of hot water and chilled water, with energy recovery on outside air.

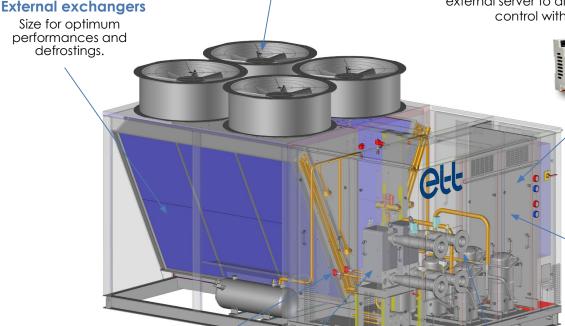
This unit is also **available with low GWP refrigerants**, such as R454B, R452B, R134A, R32 and R513A (please contact us).



Low acoustic level as standard and performance optimisation according to required capacities.

### **New generation CONTROLLER**

Communication between units and technical data transfer from the units to an external server to allow optimum remote control with **myETTvision**.



**mvETTvision** 

### **Electrical board**

separate from the technical section in accordance with regulations on low GWP refrigerants.

# Electronic expansion valves

Operating flexibility and optimum performance.

# DUAL type brazed plate hot water & chilled water exchangers

Better performances in part load and compact installation.

# 2 refrigeration circuits equipped with tandem scroll compressors

Performance optimisation with 4 power stages as standard and a large operating range to suit all potential applications.

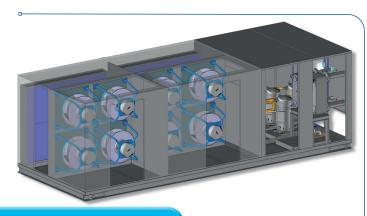
## RWC option: Energy recovery on outside air for units installed in technical sections

### ECO4 RWC - External centrifugal fans:

- Ductable external box
- Extra reduced sound level
- Multiple air utilities

### Main available options for ECO4 RW & RWC:

- Adjustable primary or secondary distribution hydraulic module
- Variable speed compressor
- Additional acoustic insulation



Other specific requests: please contact us.

# ECO4 WW: Technical features & dimensions

	Designation		11	12		13	14	21	22		23	24
PERFORMANCES COOLING	RATED PERFORMANCES (1)			12			14	21			20	Lπ
		kW	60.2	68.0	.	80.6	87.0	101.8	116.	Ω 1	45.7	159.6
	Net cooling capacity											
	Absorbed electrical power	kW	13.6	16.3	5	18.2	19.9	22.8	26.6	3 ;	30.4	34.4
	Net EER	kW/kW	4.43	4.17	'	4.43	4.38	4.47	4.39	,	4.79	4.64
PERFORMANCES HEATING	RATED PERFORMANCES (2)											
NG	Net heating capacity	kW	69.1	78.7	7	91.5	99.0	116.2	134	.6	162.8	180.2
ORN	Absorbed electrical power	kW	16.8	19.5	5	21.9	23.6	27.2	32.	0	37.1	42.3
PERF	Net COP	kW/kW	4.11	4.03	3	4.17	4.19	4.27	4.2	1	4.39	4.26
PERFORMANCES RECOVERY	RATED PERFORMANCES HEAT RECOVERY MODE (3)											
	Cooling capacity	kW	53.6	60.3	3	71.8	77.7	91.0	104	.4	129.2	141.6
	Heating capacity	kW	69.5	78.9		92.6	100.1	116.8	134		164.4	181.7
	Absorbed electrical power	kW	16.8	19.5	5	21.9	23.6	27.2	31.	9	37.1	42.2
	Net TER	kW/kW	7.34	7.14	4	7.51	7.54	7.65	7.4	9	7.92	7.65
	ACOUSTICS (1)			1				1				
	Outside sound power level	dB(A)	70	71		73	72	72	73	3	75	75
GENERAL	Resulting outside sound pressure at 10 m, reference 10-5 in free field	dB(A)	39	40		42	41	41	42	2	44	44
	Weight and dimensions											
	Overall width	mm	1,220	1,22	20	1,220	1,220	1,220	1,22	20	1,220	1,220
	Overall length	mm	2,490	2,49	0	2,490	2,490	2,890	2,89	90 :	2,890	2,890
	Overall height	mm	1,400	1,40	00	1,400	1,400	1,600	1,60	00	1,600	1,600
	Unit weight without any option	kg	580	600	)	615	620	720	77	0	770	850
	Designation		31	32	33	41	42	43	44	51	52	53
ES	Designation  RATED PERFORMANCES (1)		31	32	33	41	42	43	44	51	52	53
ANCES NG		kW	178.9	201.4	230.7	264.5	286.9	341.1	380.6	51 411.8	52	53
ORMANCES OOLING	RATED PERFORMANCES (1)  Net cooling capacity	kW kW										
FEFORMANCES COOLING	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power	kW	178.9 38.7	201.4	230.7	264.5 59.2	286.9	341.1 74.0	380.6 84.9	411.8 90.0	436.9 96.4	468.2 102.0
PER	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power  Net EER		178.9	201.4	230.7	264.5	286.9	341.1	380.6	411.8	436.9	468.2
62	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power  Net EER  RATED PERFORMANCES (2)	kW kW/kW	178.9 38.7 4.62	201.4 44.7 4.51	230.7 50.7 4.55	264.5 59.2 4.47	286.9 64.8 4.43	341.1 74.0 4.61	380.6 84.9 4.48	411.8 90.0 4.58	436.9 96.4 4.53	468.2 102.0 4.59
10	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power  Net EER	kW	178.9 38.7	201.4	230.7	264.5 59.2	286.9	341.1 74.0	380.6 84.9	411.8 90.0	436.9 96.4	468.2
10	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power  Net EER  RATED PERFORMANCES (2)	kW kW/kW	178.9 38.7 4.62	201.4 44.7 4.51	230.7 50.7 4.55	264.5 59.2 4.47	286.9 64.8 4.43	341.1 74.0 4.61	380.6 84.9 4.48	411.8 90.0 4.58	436.9 96.4 4.53	468.2 102.0 4.59
	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power  Net EER  RATED PERFORMANCES (2)  Net heating capacity	kW kW/kW	178.9 38.7 4.62	201.4 44.7 4.51	230.7 50.7 4.55	264.5 59.2 4.47	286.9 64.8 4.43	341.1 74.0 4.61	380.6 84.9 4.48	411.8 90.0 4.58	436.9 96.4 4.53	468.2 102.0 4.59
PERFORMANCES HEATING	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power  Net EER  RATED PERFORMANCES (2)  Net heating capacity  Absorbed electrical power	kW kW/kW kW kW	178.9 38.7 4.62 202.8 47.6	201.4 44.7 4.51 230.2 53.5	230.7 50.7 4.55 261.9 60.6	264.5 59.2 4.47 300.3 71.4	286.9 64.8 4.43 325.8 78.1	341.1 74.0 4.61 384.5 89.9	380.6 84.9 4.48 432.7 103.1	411.8 90.0 4.58 463.9	436.9 96.4 4.53 494.2	468.2 102.0 4.59 529.1
PERFORMANCES HEATING	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power  Net EER  RATED PERFORMANCES (2)  Net heating capacity  Absorbed electrical power  Net COP	kW kW/kW kW kW	178.9 38.7 4.62 202.8 47.6	201.4 44.7 4.51 230.2 53.5	230.7 50.7 4.55 261.9 60.6	264.5 59.2 4.47 300.3 71.4	286.9 64.8 4.43 325.8 78.1	341.1 74.0 4.61 384.5 89.9	380.6 84.9 4.48 432.7 103.1	411.8 90.0 4.58 463.9	436.9 96.4 4.53 494.2	468.2 102.0 4.59 529.1
PERFORMANCES HEATING	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power  Net EER  RATED PERFORMANCES (2)  Net heating capacity  Absorbed electrical power  Net COP  RATED PERFORMANCES HEAT RECOVERY MODE (3)	kW kW/kW kW kW	178.9 38.7 4.62 202.8 47.6 4.26	201.4 44.7 4.51 230.2 53.5 4.31	230.7 50.7 4.55 261.9 60.6 4.33	264.5 59.2 4.47 300.3 71.4 4.21	286.9 64.8 4.43 325.8 78.1 4.17	341.1 74.0 4.61 384.5 89.9 4.28	380.6 84.9 4.48 432.7 103.1 4.20	411.8 90.0 4.58 463.9 110 4.22	436.9 96.4 4.53 494.2 121 4.10	468.2 102.0 4.59 529.1 128 4.13
PERFORMANCES HEATING	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power  Net EER  RATED PERFORMANCES (2)  Net heating capacity  Absorbed electrical power  Net COP  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity	kW kW/kW kW kW/kW	178.9 38.7 4.62 202.8 47.6 4.26	201.4 44.7 4.51 230.2 53.5 4.31	230.7 50.7 4.55 261.9 60.6 4.33	264.5 59.2 4.47 300.3 71.4 4.21	286.9 64.8 4.43 325.8 78.1 4.17	341.1 74.0 4.61 384.5 89.9 4.28	380.6 84.9 4.48 432.7 103.1 4.20	411.8 90.0 4.58 463.9 110 4.22	436.9 96.4 4.53 494.2 121 4.10	468.2 102.0 4.59 529.1 128 4.13
CES PERFORMANCES HEATING	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power  Net EER  RATED PERFORMANCES (2)  Net heating capacity  Absorbed electrical power  Net COP  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity  Heating capacity	kW kW/kW kW kW/kW kW kW	178.9 38.7 4.62 202.8 47.6 4.26	201.4 44.7 4.51 230.2 53.5 4.31	230.7 50.7 4.55 261.9 60.6 4.33	264.5 59.2 4.47 300.3 71.4 4.21 236.9 304.8	286.9 64.8 4.43 325.8 78.1 4.17	341.1 74.0 4.61 384.5 89.9 4.28	380.6 84.9 4.48 432.7 103.1 4.20	411.8 90.0 4.58 463.9 110 4.22 365.3 472.3	436.9 96.4 4.53 494.2 121 4.10 387.3 501.8	468.2 102.0 4.59 529.1 128 4.13
PERFORMANCES HEATING	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power  Net EER  RATED PERFORMANCES (2)  Net heating capacity  Absorbed electrical power  Net COP  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity  Heating capacity  Absorbed electrical power	kW kW/kW  kW kW/kW  kW/kW	178.9 38.7 4.62 202.8 47.6 4.26	201.4 44.7 4.51 230.2 53.5 4.31 180.2 230.9 53.4	230.7 50.7 4.55 261.9 60.6 4.33 206.4 264.0 60.6	264.5 59.2 4.47 300.3 71.4 4.21 236.9 304.8 71.4	286.9 64.8 4.43 325.8 78.1 4.17 256.7 331.0 78.2	341.1 74.0 4.61 384.5 89.9 4.28 304.2 389.7 90.0	380.6 84.9 4.48 432.7 103.1 4.20 340.1 438.1 103.2	411.8 90.0 4.58 463.9 110 4.22 365.3 472.3	436.9 96.4 4.53 494.2 121 4.10 387.3 501.8 120.5	468.2 102.0 4.59 529.1 128 4.13 415.4 537.2 128.1
PERFORMANCES HEATING	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power  Net EER  RATED PERFORMANCES (2)  Net heating capacity  Absorbed electrical power  Net COP  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity  Heating capacity  Absorbed electrical power  Net TER	kW kW/kW  kW kW/kW  kW/kW	178.9 38.7 4.62 202.8 47.6 4.26	201.4 44.7 4.51 230.2 53.5 4.31 180.2 230.9 53.4	230.7 50.7 4.55 261.9 60.6 4.33 206.4 264.0 60.6	264.5 59.2 4.47 300.3 71.4 4.21 236.9 304.8 71.4	286.9 64.8 4.43 325.8 78.1 4.17 256.7 331.0 78.2	341.1 74.0 4.61 384.5 89.9 4.28 304.2 389.7 90.0	380.6 84.9 4.48 432.7 103.1 4.20 340.1 438.1 103.2	411.8 90.0 4.58 463.9 110 4.22 365.3 472.3	436.9 96.4 4.53 494.2 121 4.10 387.3 501.8 120.5	468.2 102.0 4.59 529.1 128 4.13 415.4 537.2 128.1
PERFORMANCES PERFORMANCES RECOVERY HEATING	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power  Net EER  RATED PERFORMANCES (2)  Net heating capacity  Absorbed electrical power  Net COP  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity  Heating capacity  Absorbed electrical power  Net TER  ACOUSTICS (1)	kW kW/kW  kW kW/kW  kW kW/kW  dB(A)	178.9 38.7 4.62 202.8 47.6 4.26 159.0 204.1 47.5 7.64	201.4 44.7 4.51 230.2 53.5 4.31 180.2 230.9 53.4 7.70	230.7 50.7 4.55 261.9 60.6 4.33 206.4 264.0 60.6 7.77	264.5 59.2 4.47 300.3 71.4 4.21 236.9 304.8 71.4 7.58	286.9 64.8 4.43 325.8 78.1 4.17 256.7 331.0 78.2 7.52	341.1 74.0 4.61 384.5 89.9 4.28 304.2 389.7 90.0 7.71	380.6 84.9 4.48 432.7 103.1 4.20 340.1 438.1 103.2 7.54	411.8 90.0 4.58 463.9 110 4.22 365.3 472.3 112.6 7.44	436.9 96.4 4.53 494.2 121 4.10 387.3 501.8 120.5 7.38	468.2 102.0 4.59 529.1 128 4.13 415.4 537.2 128.1 7.43
PERFORMANCES PERFORMANCES RECOVERY HEATING	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power  Net EER  RATED PERFORMANCES (2)  Net heating capacity  Absorbed electrical power  Net COP  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity  Heating capacity  Absorbed electrical power  Net TER  ACOUSTICS (1)  Outside sound power level  Resulting outside sound pressure at 10 m, reference 10-5 in free field  Weight and dimensions	kW kW/kW kW kW/kW kW/kW dB(A) dB(A)	178.9 38.7 4.62 202.8 47.6 4.26 159.0 204.1 47.5 7.64	201.4 44.7 4.51 230.2 53.5 4.31 180.2 230.9 53.4 7.70	230.7 50.7 4.55 261.9 60.6 4.33 206.4 264.0 60.6 7.77	264.5 59.2 4.47 300.3 71.4 4.21 236.9 304.8 71.4 7.58	286.9 64.8 4.43 325.8 78.1 4.17 256.7 331.0 78.2 7.52	341.1 74.0 4.61 384.5 89.9 4.28 304.2 389.7 90.0 7.71	380.6 84.9 4.48 432.7 103.1 4.20 340.1 438.1 103.2 7.54	411.8 90.0 4.58 463.9 110 4.22 365.3 472.3 112.6 7.44	436.9 96.4 4.53 494.2 121 4.10 387.3 501.8 120.5 7.38	468.2 102.0 4.59 529.1 128 4.13 415.4 537.2 128.1 7.43
PERFORMANCES HEATING	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power  Net EER  RATED PERFORMANCES (2)  Net heating capacity  Absorbed electrical power  Net COP  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity  Heating capacity  Absorbed electrical power  Net TER  ACOUSTICS (1)  Outside sound power level  Resulting outside sound pressure at 10 m, reference 10.5 in free field  Weight and dimensions  Overall width	kW kW/kW kW kW/kW kW kW kM kW kW kM kW kW/kW	178.9 38.7 4.62 202.8 47.6 4.26 159.0 204.1 47.5 7.64	201.4 44.7 4.51 230.2 53.5 4.31 180.2 230.9 53.4 7.70	230.7 50.7 4.55 261.9 60.6 4.33 206.4 264.0 60.6 7.77	264.5 59.2 4.47 300.3 71.4 4.21 236.9 304.8 71.4 7.58	286.9 64.8 4.43 325.8 78.1 4.17 256.7 331.0 78.2 7.52 85 54	341.1 74.0 4.61 384.5 89.9 4.28 304.2 389.7 90.0 7.71	380.6 84.9 4.48 432.7 103.1 4.20 340.1 438.1 103.2 7.54	411.8 90.0 4.58 463.9 110 4.22 365.3 472.3 112.6 7.44 53	436.9 96.4 4.53 494.2 121 4.10 387.3 501.8 120.5 7.38	468.2 102.0 4.59 529.1 128 4.13 415.4 537.2 128.1 7.43
PERFORMANCES PERFORMANCES RECOVERY HEATING	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power  Net EER  RATED PERFORMANCES (2)  Net heating capacity  Absorbed electrical power  Net COP  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity  Heating capacity  Absorbed electrical power  Net TER  ACOUSTICS (1)  Outside sound power level  Resulting outside sound pressure at 10 m, reference 10 s in free field  Weight and dimensions  Overall width  Overall length	kW kW/kW kW kW/kW kW/kW dB(A) dB(A) mm mm	178.9 38.7 4.62 202.8 47.6 4.26 159.0 204.1 47.5 7.64 78 47	201.4 44.7 4.51 230.2 53.5 4.31 180.2 230.9 53.4 7.70 79 48	230.7 50.7 4.55 261.9 60.6 4.33 206.4 264.0 60.6 7.77 80 49	264.5 59.2 4.47 300.3 71.4 4.21 236.9 304.8 71.4 7.58 85 54	286.9 64.8 4.43 325.8 78.1 4.17 256.7 331.0 78.2 7.52 85 54	341.1 74.0 4.61 384.5 89.9 4.28 304.2 389.7 90.0 7.71 85 54	380.6 84.9 4.48 432.7 103.1 4.20 340.1 438.1 103.2 7.54 85 54	411.8 90.0 4.58 463.9 110 4.22 365.3 472.3 112.6 7.44 84 53	436.9 96.4 4.53 494.2 121 4.10 387.3 501.8 120.5 7.38 86 55	468.2 102.0 4.59 529.1 128 4.13 415.4 537.2 128.1 7.43 87 56
PERFORMANCES PERFORMANCES RECOVERY HEATING	RATED PERFORMANCES (1)  Net cooling capacity  Absorbed electrical power  Net EER  RATED PERFORMANCES (2)  Net heating capacity  Absorbed electrical power  Net COP  RATED PERFORMANCES HEAT RECOVERY MODE (3)  Cooling capacity  Heating capacity  Absorbed electrical power  Net TER  ACOUSTICS (1)  Outside sound power level  Resulting outside sound pressure at 10 m, reference 10.5 in free field  Weight and dimensions  Overall width	kW kW/kW kW kW/kW kW kW kM kW kW kM kW kW/kW	178.9 38.7 4.62 202.8 47.6 4.26 159.0 204.1 47.5 7.64	201.4 44.7 4.51 230.2 53.5 4.31 180.2 230.9 53.4 7.70	230.7 50.7 4.55 261.9 60.6 4.33 206.4 264.0 60.6 7.77	264.5 59.2 4.47 300.3 71.4 4.21 236.9 304.8 71.4 7.58	286.9 64.8 4.43 325.8 78.1 4.17 256.7 331.0 78.2 7.52 85 54	341.1 74.0 4.61 384.5 89.9 4.28 304.2 389.7 90.0 7.71	380.6 84.9 4.48 432.7 103.1 4.20 340.1 438.1 103.2 7.54	411.8 90.0 4.58 463.9 110 4.22 365.3 472.3 112.6 7.44 53	436.9 96.4 4.53 494.2 121 4.10 387.3 501.8 120.5 7.38	468.2 102.0 4.59 529.1 128 4.13 415.4 537.2 128.1 7.43

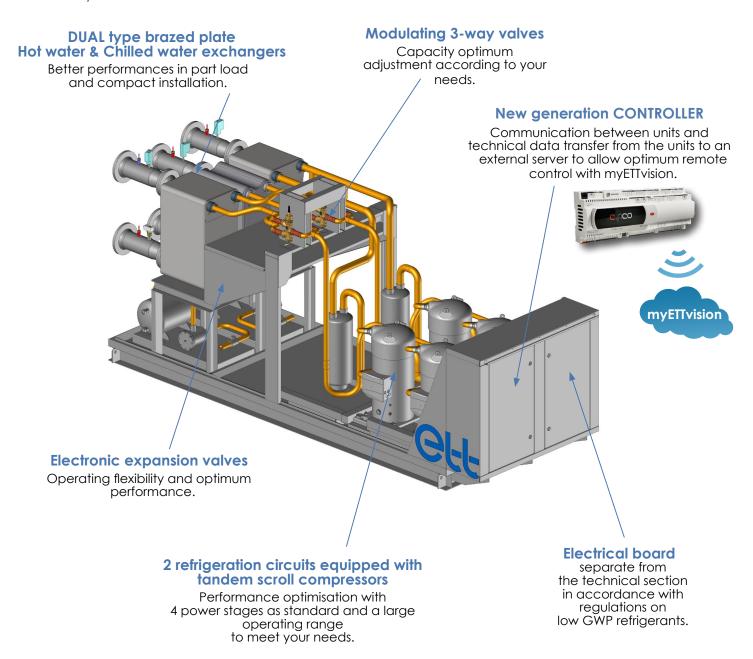
<sup>(1)</sup> According to EN 14511. Water on user side (inlet/outlet) 12°C/07°C; Water on source side (inlet/outlet) 30°C / 35°C. (2) According to EN 14511. Water on user side (inlet/outlet) 40°C/45°C; Water on source side (inlet/outlet) 10°C / 07°C.

<sup>(3)</sup> Water on user side (inlet/outlet) 12°C/07°C; Water on user side (inlet/outlet) 40°C / 45°C.

# ECO4 WW: Description of the water-to-water unit

The **ECO4 WW** is a R410A thermorefrigerating pump (4-pipe version) allowing the simultaneous production of hot water and chilled water, with energy recovery on water loop.

This unit is also available with low GWP refrigerants, such as R454B, R452B, R134A, R32 and R513A (please contact us).



# Main options for the ECO4 WW:

- ALUMINIUM casing (for outdoor units)
- Adjustable primary or secondary distribution hydraulic module
- Variable speed compressor
- Additional acoustic insulation



Other specific requests: please contact us.























Reference: MARK-BRO\_31-EN\_B

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