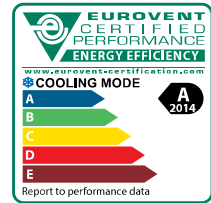


Water Cooled Chiller

Eurocrew 440-1550 Water EVO CO/HP/RC



444-1.567 kW



Shell & Tube



134a



Water cooled



Screw

Technical features

- 15 sizes
- Cooling capacity from 444 to 1.567 kW
- 3 versions:
 - CO (chiller)
 - HP (heat pump) water side
 - RC (condenserless)
- 2 acoustic versions:
 - STD (Standard)
 - S (Super Low Noise)
- 1/2 refrigerant circuit
- Screw compressors
- Shell & Tube evaporator and condenser
- Electronic expansion valve

Accessories and options

- Automatic circuit breaker
- BMS interface
- Compressors acoustic box (standard for S version)
- Compressor stepless control
- Mechanical gauges
- Power factor corrector capacitors
- Sequence phases control (standard)
- Softstart
- Water filter
- Water flow switch



Operating limit (to be confirmed following selection software issue)

Models				Eurocrew Water EVO CO	Eurocrew Water EVO HP	Eurocrew Water EVO RC
Evaporator	Leaving water temperature	Water	°C	from 5 to 15		
		Water + glycol	°C	from -8 to 5		
		Δ T	K	from 3 to 7		
Condenser	Leaving water temperature		°C	from 25 a 45	from 25 to 60	-
	Condensing Temperature		°C	-	-	da 30 a 63
	Leaving water + glycol temperature		K	from +3 to +8 with tower water 15 with well water		-

Technical feature

Euroscree 440-770 Water EVO CO		440	490	570	630	700	770
Cooling capacity ¹	kW	444,3	494,4	570,4	636,2	708,5	787,1
Power input ¹	kW	87,9	97,8	112,4	125,4	140,2	155,7
EER ¹		5,06	5,05	5,07	5,07	5,05	5,06
Energy efficiency class		A	A	A	A	A	A
ESEER		6,27	6,27	6,29	6,29	6,27	6,27
Part load steps	%	50-75-100					
Refrigerant							
Type		HFC 134a					
Number of refrigerant circuits		1					
Compressor							
Type		Screw					
Qty		1					
Startup type		S/Δ					
Evaporator							
Type		Shell & Tube (Pure counterflow)					
Qty		1					
Water flow	m ³ /h	76,7	85,3	98,5	109,9	122,2	135,8
Water pressure drop	kPa	42,9	30,2	52,0	64,7	30,2	37,2
Connection type		Victaulic					
Inlet/outlet diameter	inch	6	6	6	6	8	8
Condenser							
Type		Shell & Tube (Pure counterflow)					
Qty		1					
Water flow	m ³ /h	91,2	101,5	117,0	130,6	145,5	161,6
Water pressure drop	kPa	52,5	50,7	54,7	34,3	42,5	51,1
Connection type		Female gas threaded					
Inlet/outlet diameter	inch	4	4	5	5	5	5
Weight / STD version							
Shipping	kg	2.502	2.531	2.694	2.800	3.178	3.245
Operating	kg	2.683	2.718	2.911	3.033	3.516	3.590
Dimensions / STD version							
Length	mm	3.620		4.210		4.180	
Width	mm	1.350					
Height	mm	1.650					
Acoustic data / STD version							
Sound power level ²	dB(A)	95	95	95	95	95	95
Sound pressure level ³	dB(A)	76	76	76	76	76	76
Weight / S version							
Shipping	kg	2.682	2.711	2.874	2.980	3.358	3.425
Operating	kg	2.863	2.898	3.091	3.213	3.696	3.770
Dimensions / S version							
Length	mm	3.620		4.210		4.180	
Width	mm	1.350					
Height	mm	1.750					
Acoustic data / S version							
Sound power level ²	dB(A)	85	85	85	85	85	85
Sound pressure level ³	dB(A)	66	66	66	66	66	66

¹ Data refers to 7°C leaving chilled water temperature and 35°C condenser air temperature, according EN14511 standard.

² Sound levels are at fully loaded conditions. Sound power level values refers to ISO 3744 standard.

³ Sound pressure levels refer to ISO 3744 standard, parallelepiped shape.

Technical feature

Eurocrew 860-1550 Water EVO CO		860	920	990	1070	1130	1220	1280	1400	1550
Cooling capacity ¹	kW	875,5	936,0	998,6	1.071,4	1.132,9	1.224,1	1.285,2	1.428,5	1.567,0
Power input ¹	kW	173,1	185,2	197,6	211,7	223,8	241,0	253,9	282,4	309,9
EER ¹		5,06	5,05	5,05	5,06	5,06	5,08	5,06	5,06	5,06
Energy efficiency class		A	C	A	A	A	A	A	A	A
ESEER		6,37	6,37	6,39	6,42	6,42	6,43	6,37	6,38	6,38
Part load steps	%	25-50-62-75-87-100								
Refrigerant										
Type		HFC 134a								
Number of refrigerant circuits		2								
Compressor										
Type		Screw								
Qty		2								
Startup type		S/Δ								
Evaporator										
Type		Shell & Tube (Pure counterflow)								
Qty		1								
Water flow	m ³ /h	151,0	161,5	172,3	184,9	195,6	211,0	221,6	246,7	270,8
Water pressure drop	kPa	41,6	47,6	42,6	47,6	53,2	32,3	35,6	62,1	74,8
Connection type		Victaulic								
Inlet/outlet diameter	inch	8	8	8	8	8	8	8	10	10
Condenser										
Type		Shell & Tube								
Qty		2								
Water flow	m ³ /h	179,7	192,2	205,0	219,9	232,5	251,1	263,8	293,4	321,8
Water pressure drop 1 circuit	kPa	51,0	51,8	51,8	52,9	54,0	56,0	54,6	42,2	50,7
Water pressure drop 2 circuit		51,0	50,9	51,8	54,0	54,0	55,3	54,6	42,2	50,7
Connection type		Female gas threaded								
Inlet/outlet diameter	inch	4	4	4	4 / 5	5	5	5	5	5
Weight / STD version										
Shipping	kg	5.085	5.115	5.227	5.361	5.466	5.557	5.599	6.093	6.188
Operating	kg	5.540	5.576	5.787	5.909	6.016	6.087	6.136	6.754	6.849
Dimensions / STD version										
Length	mm	4.400		4.600	4.650			5.350		
Width	mm	1.520								
Height	mm	1.710								
Acoustic data / STD version										
Sound power level ²	dB(A)	98	98	98	98	98	98	98	98	98
Sound pressure level ³	dB(A)	79	79	79	79	79	79	79	79	79
Weight / S version										
Shipping	kg	5.445	5.475	5.587	5.721	5.826	5.917	5.959	6.453	6.548
Operating	kg	5.900	5.936	6.147	6.269	6.376	6.447	6.496	7.114	7.209
Dimensions / S version										
Length	mm	4.400		4.600	4.650			5.350		
Width	mm	1.520								
Height	mm	1.710								
Acoustic data / S version										
Sound power level ²	dB(A)	89	89	89	89	89	89	89	89	89
Sound pressure level ³	dB(A)	70	70	70	70	70	70	70	70	70

¹ Data refers to 7°C leaving chilled water temperature and 35°C condenser air temperature, according EN14511 standard.

² Sound levels are at fully loaded conditions. Sound power level values refers to ISO 3744 standard.

³ Sound pressure levels refer to ISO 3744 standard, parallelepiped shape.

Technical feature

Euroscree 440-770 Water EVO HP		440	490	570	630	700	770
Cooling Capacity ^{1,3}	kW	383,4	433,6	498,1	554,5	619,1	676,8
Power input ^{1,3}	kW	104,3	115,6	136,4	153,4	172,8	185,2
Heating Capacity ^{1,3}	kW	487,7	549,1	634,6	707,9	791,9	862,1
COP ^{1,3}		4,68	4,75	4,65	4,61	4,58	4,65
Energy Efficiency Class		A	A	A	A	A	A
Cooling Capacity ^{2,3}	kW	339,5	383,8	441,3	491,4	548,0	599,1
Total Input Power ^{2,3}	kW	117,1	130,3	152,2	172,0	195,5	208,9
Heating Capacity ^{2,3}	kW	456,6	514,1	593,5	663,4	743,5	808,0
COP ^{2,3}		3,90	3,95	3,90	3,86	3,80	3,87
Part Load Steps	%	50-75-100					
Start-up Type		SD	SD	SD	SD	SD	SD
Refrigerant							
Type		HFC 134a					
Number of Refrigerant Circuits		1	1	1	1	1	1
Compressor							
Qty / Type		1 / Screw					
Internal heat exchanger (Evaporator)							
Qty / Type		1 / Shell & tube (Pure counterflow)					
Connection type		Victaulic					
Inlet/outlet diameter	inch	6	6	6	6	8	8
Water flow rate ¹	m ³ /h	110,4	124,8	143,5	159,4	178,1	194,8
Water pressure drop ¹	kPa	89	65	110	136	64	77
Water flow rate ²	m ³ /h	97,5	110,3	126,8	141,1	157,4	172,1
Water pressure drop ²	kPa	69	50	86	107	50	60
External heat exchanger (Condenser)							
Qty / Type		1 / Shell & tube					
Connection type		Victaulic					
Inlet/outlet diameter	inch	4	4	5	5	5	5
Water flow rate (total) ¹	m ³ /h	83,4	94,0	108,4	120,7	135,6	147,5
Water pressure drop cond 1 ¹	kPa	44	44	47	29	37	43
Water pressure drop cond 2 ¹	kPa	-	-	-	-	-	-
Water flow rate (total) ²	m ³ /h	48,8	55,0	63,4	70,8	79,6	86,5
Water pressure drop cond 1 ²	kPa	15	15	16	10	13	15
Water pressure drop cond 2 ²	kPa	-	-	-	-	-	-
Acoustic Data / STD version							
Sound power level ⁴	dB(A)	95	95	95	95	95	95
Sound pressure level ⁵	dB(A)	76	76	76	76	76	76
Acoustic Data / S version							
Sound Power Level ⁴	dB(A)	85	85	85	85	85	85
Sound Pressure Level ⁵	dB(A)	66	66	66	66	66	66
Dimensions / STD version							
Length	mm	3.620	3.620	4.210	4.210	4.180	4.180
Width	mm	1.350	1.350	1.350	1.350	1.350	1.350
Height	mm	1.650	1.650	1.650	1.650	1.650	1.650
Dimensions / S version							
Length	mm	3.620	3.620	4.210	4.210	4.180	4.180
Width	mm	1.350	1.350	1.350	1.350	1.350	1.350
Height	mm	1.750	1.750	1.750	1.750	1.750	1.750
Weight / STD version							
Shipping	kg	2.509	2.538	2.701	2.807	3.185	3.252
Operating	kg	2.690	2.725	2.918	3.040	3.523	3.597
Weight / S version							
Shipping	kg	2.703	2.732	2.895	3.001	3.379	3.446
Operating	kg	2.884	2.919	3.112	3.234	3.717	3.791

¹ Heating mode conditions: evaporator EWT/LWT 10°C/7°C, condenser EWT/LWT 40°C/45°C.

² Heating mode conditions: evaporator EWT/LWT 10°C/7°C, condenser EWT/LWT 47°C/55°C.

³ NET value. According to standard EN 14511-3:2011.

⁴ Sound power levels refers to standard ISO 3744 and Eurovent 8/1 for units certified. Units at fully loaded conditions.

⁵ Sound pressure levels refers to unit in free field on reflective surface at 1m. Values derived from sound power levels (standard ISO 3744 with parallelepiped shape).

Technical feature

EuroscREW 860-1550 Water EVO HP		860	920	990	1070	1130	1220	1280	1400	1550
Cooling Capacity ^{1,3}	kW	755,9	813,8	874,6	934,6	985,3	1.069,6	1.122,1	1.241,5	1.341,5
Power Input ^{1,3}	kW	204,3	219,4	234,6	254,7	271,7	290,3	304,8	351,6	373,1
Heating Capacity ^{1,3}	kW	960,2	1.033,2	1.109,2	1.189,3	1.257,0	1.359,9	1.426,9	1.593,1	1.714,6
COP ^{1,3}		4,70	4,71	4,73	4,67	4,63	4,68	4,68	4,53	4,60
Energy Efficiency Class		A	A	A	A	A	A	A	A	A
Cooling Capacity ^{2,3}	kW	669,3	720,7	774,4	827,8	872,7	946,6	993,3	1.100,0	1.189,1
Total Input Power ^{2,3}	kW	230,2	246,6	264,0	286,2	305,1	327,7	343,8	395,2	417,5
Heating Capacity ^{2,3}	kW	899,5	967,3	1.038,4	1.114,0	1.177,8	1.274,3	1.337,1	1.495,2	1.606,6
COP ^{2,3}		3,91	3,92	3,93	3,89	3,86	3,89	3,89	3,78	3,85
Part Load Steps	%	25-50-62-75-87-100								
Start-up Type		SD	SD	SD	SD	SD	SD	SD	SD	SD
Refrigerant										
Type		HFC 134a								
Number of Refrigerant Circuits		2	2	2	2	2	2	2	2	2
Compressor										
Qty / Type		2 / Screw								
Internal heat exchanger (Evaporator)										
Qty / Type		1 / Shell & tube (Pure counterflow)								
Connection type		Victaulic								
Inlet/outlet diameter	inch	8	8	8	8	8	8	8	10	10
Water flow rate ¹	m ³ /h	217,6	234,2	251,7	269,0	283,6	307,9	323,0	357,0	386,0
Water pressure drop ¹	kPa	86	100	91	101	112	69	76	130	152
Water flow rate ²	m ³ /h	192,2	207,0	222,4	237,7	250,6	271,8	285,2	315,8	341,4
Water pressure drop ²	kPa	67	78	71	79	87	54	59	102	119
External heat exchanger (Condenser)										
Qty / Type		2 / Shell & tube								
Connection type		Victaulic								
Inlet/outlet diameter	inch	4	4	4	4 / 5	5	5	5	5	5
Water flow rate (total) ¹	m ³ /h	164,2	176,6	189,7	203,3	214,7	232,9	244,3	271,9	292,3
Water pressure drop cond 1 ¹	kPa	43	44	44	45	46	48	47	36	42
Water pressure drop cond 2 ¹	kPa	43	43	44	46	46	48	47	36	42
Water flow rate (total) ²	m ³ /h	96,3	103,4	111,1	119,1	125,9	136,5	143,2	159,7	171,5
Water pressure drop cond 1 ²	kPa	15	15	15	15	16	16	16	12	14
Water pressure drop cond 2 ²	kPa	15	15	15	16	16	16	16	12	14
Acoustic Data / STD version										
Sound power level ⁴	dB(A)	98	98	98	98	98	98	98	98	98
Sound pressure level ⁵	dB(A)	79	79	79	79	79	79	79	79	79
Acoustic Data / S version										
Sound power level ⁴	dB(A)	89	89	89	89	89	89	89	89	89
Sound pressure level ⁵	dB(A)	70	70	70	70	70	70	70	70	70
Dimensions / STD version										
Length	mm	4.400	4.400	4.600	4.650	4.650	4.650	4.650	5.350	5.350
Width	mm	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520
Height	mm	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710
Dimensions / S version										
Length	mm	4.650	4.650	4.650	4.650	4.650	4.650	4.650	5.350	5.350
Width	mm	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520
Height	mm	1.770	1.770	1.770	1.770	1.770	1.770	1.770	1.770	1.770
Weight / STD version										
Shipping	kg	5.124	5.154	5.266	5.400	5.505	5.596	5.638	6.132	6.227
Operating	kg	5.579	5.615	5.826	5.948	6.055	6.126	6.175	6.793	6.888
Weight / S version										
Shipping	kg	5.511	5.541	5.653	5.787	5.892	5.983	6.025	6.519	6.614
Operating	kg	5.966	6.002	6.213	6.335	6.442	6.513	6.562	7.180	7.275

¹ Heating mode conditions: evaporator EWT/LWT 10°C/7°C, condenser EWT/LWT 40°C/45°C.

² Heating mode conditions: evaporator EWT/LWT 10°C/7°C, condenser EWT/LWT 47°C/55°C.

³ NET value. According to standard EN 14511-3:2011.

⁴ Sound power levels refers to standard ISO 3744 and Eurovent 8/1 for units certified. Units at fully loaded conditions.

⁵ Sound pressure levels refers to unit in free field on reflective surface at 1m. Values derived from sound power levels (standard ISO 3744 with parallelepiped shape).

Technical feature

Euroscree 440-770 Water EVO RC		440	490	570	630	700	770
Cooling capacity ¹	kW	386,3	435,7	502,8	561,0	621,9	680,6
Power input ¹	kW	101,2	113,3	131,4	147,4	170,4	181,5
EER ¹		3,82	3,85	3,83	3,81	3,65	3,75
Part load steps	%	50-75-100					
Refrigerant							
Type		HFC 134a					
Number of refrigerant circuits		1					
Compressor							
Type		Screw					
Qty		1					
Startup type		S/Δ					
Evaporator							
Type		Shell & Tube (Pure counterflow)					
Qty		1					
Water flow	m ³ /h	66,4	74,9	86,5	96,5	107,0	117,1
Water pressure drop	kPa	32,2	23,3	40,0	49,9	23,1	27,7
Connection type		Victaulic					
Inlet/outlet diameter	inch	6	6	6	6	8	8
Weight / STD version							
Shipping	kg	2.152	2.162	2.278	2.298	2.669	2.709
Operating	kg	2.295	2.305	2.449	2.469	2.945	2.985
Dimensions / STD version							
Length	mm	3.620		4.210		4.180	
Width	mm	1.350					
Height	mm	1.620					
Acoustic data / STD version							
Sound power level ²	dB(A)	95	95	95	95	95	95
Sound pressure level ³	dB(A)	76	76	76	76	76	76
Weight / S version							
Shipping	kg	2.332	2.342	2.458	2.478	2.849	2.889
Operating	kg	2.475	2.485	2.629	2.649	3.125	3.165
Dimensions / S version							
Length	mm	3.620		4.210		4.180	
Width	mm	1.350					
Height	mm	1.620					
Acoustic data / S version							
Sound power level ²	dB(A)	85	85	85	85	85	85
Sound pressure level ³	dB(A)	66	66	66	66	66	66

¹ Data refers to 7°C leaving chilled water temperature and 35°C condenser air temperature, according EN14511 standard.

² Sound levels are at fully loaded conditions. Sound power level values refers to ISO 3744 standard.

³ Sound pressure levels refer to ISO 3744 standard, parallelepiped shape.

Technical feature

Euroscree 860-1550 Water EVO RC		860	920	990	1070	1130	1220	1280	1400	1550
Cooling capacity ¹	kW	760,8	820,0	880,4	941,7	993,6	1.074,2	1.127,6	1.253,8	1.357,3
Power input ¹	kW	199,5	213,2	228,7	247,5	263,2	285,5	299,1	340,5	357,8
EER ¹		3,81	3,85	3,85	3,80	3,77	3,76	3,77	3,68	3,79
Part load steps	%	25-50-62-75-87-100								
Refrigerant										
Type		HFC 134a								
Number of refrigerant circuits		2								
Compressor										
Type		Screw								
Qty		2								
Startup type		S/Δ								
Evaporator										
Type		Shell & Tube								
Qty		1								
Water flow	m ³ /h	130,9	141,0	151,4	162,0	170,9	184,8	194,0	215,6	233,5
Water pressure drop	kPa	31,2	36,3	32,9	36,5	40,6	24,7	27,3	47,4	55,6
Connection type		Victaulic								
Inlet/outlet diameter	inch	8	8	8	8	8	8	8	10	10
Weight STD version										
Shipping	kg	4.386	4.396	4.487	4.574	4.634	4.700	4.720	5.034	5.114
Operating	kg	4.765	4.775	4.959	5.032	5.092	5.131	5.151	5.557	5.637
Dimensions STD version										
Length	mm	4.400		4.600		4.650			5.350	
Width	mm	1.520								
Height	mm	1.710								
Acoustic data STD version										
Sound power level ²	dB(A)	98	98	98	98	98	98	98	98	98
Sound pressure level ³	dB(A)	79	79	79	79	79	79	79	79	79
Weight S version										
Shipping	kg	4.746	4.756	4.847	4.934	4.994	5.060	5.080	5.394	5.474
Operating	kg	5.125	5.135	5.319	5.392	5.452	5.491	5.511	5.917	5.997
Dimensions S version										
Length	mm	4.400		4.600		4.650			5.350	
Width	mm	1.520								
Height	mm	1.710								
Acoustic data S version										
Sound power level ²	dB(A)	89	89	89	89	89	89	89	89	89
Sound pressure level ³	dB(A)	70	70	70	70	70	70	70	70	70

¹ Data refers to 7°C leaving chilled water temperature and 35°C condenser air temperature, according EN14511 standard.


² Sound levels are at fully loaded conditions. Sound power level values refers to ISO 3744 standard.


³ Sound pressure levels refer to ISO 3744 standard, parallelepiped shape.

Free-cooling module



SysFreeCool

 100-550 kW

 Free-cooling