

Air Cooled Chiller

EuroScrew 370-1100 Air EVO CO



364-1.118 kW



Shell & Tube



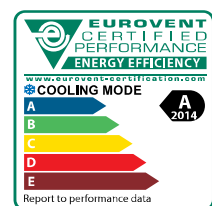
134a



Air cooled



Screw



Technical features

- 12 sizes
- Cooling capacity from 364,1 to 1.117,9 kW
- 3 acoustic versions:
 - - (Basic Low Noise)
 - L (Low Noise)
 - S (Super Low Noise)
- Two refrigerant circuits
- Screw compressors
- Electronic expansion valve
- "Brine" version for process application LWT -8°C
- "Polar" Version for air temperature -18°C
- E-Coating coil treatment as standard

Accessories and options

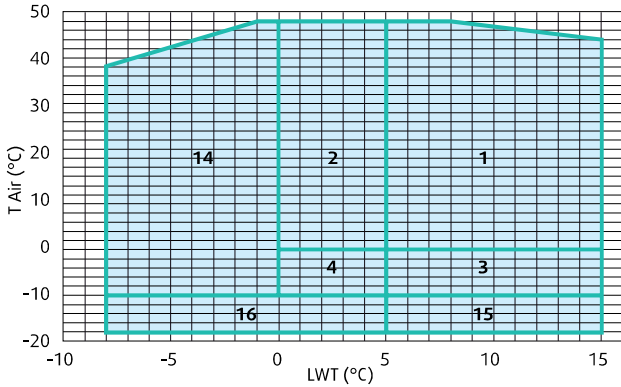
- Automatic circuit breaker
- BMS interface
- Coils treatments
- Compressors acoustic box (standard)
- Compressor stepless control
- Desuperheater and total heat recovery (TR)
- Hydrokit with 1 or 2 pumps
- Mechanical gauges
- Pressostatic fan speed control
- Power factor corrector capacitors
- Sequence phases control (standard)
- Softstart
- Unit protection grilles
- Water filter
- Water flow switch



Operating limit (to be confirmed following selection software issue)

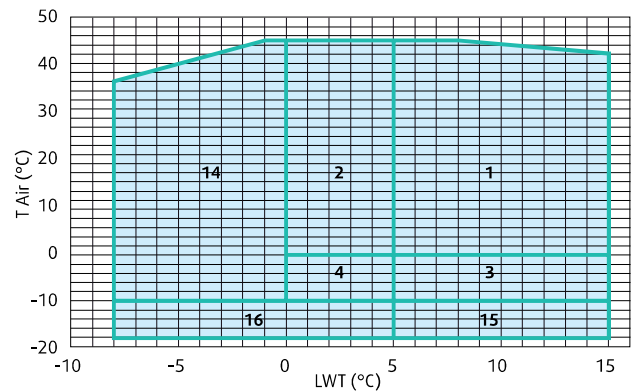
EuroScrew 370-1100 Air EVO CO			from 370 to 1100	
			Min	Max
Leaving water temperature	Water	°C	from +5 to +15	
	Water + glycol	°C	from 0 to +15	
	Water + glycol (Brine Version)	°C	from -8 to +15	
	Δ T	K	from 3 to 8	
Air temperature	-	°C	da 0 a +49	
	L/S	°C	da 0 a +47	
	HT	°C	da -10 a +51	
	Minimum Air temperature Polar Version	°C	-18	
External static pressure	Standard fans	Pa	0	
	Inverter fans	Pa	< 120	

STD version



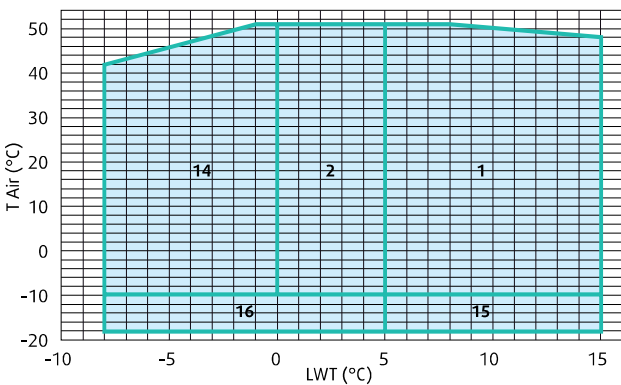
- 1 Water.
- 2 Water + Glycol.
- 3 Water + FSC.
- 4 Water + Glycol + FSC.
- 14 Brine Version.
- 15 Polar Version.
- 16 Polar + Glycol.
- 1 + 2 Standard unit.

L/S version



- 1 Water.
- 2 Water + Glycol.
- 3 Water + FSC.
- 4 Water + Glycol + FSC.
- 14 Brine Version.
- 15 Polar Version.
- 16 Polar + Glycol.
- 1 + 2 Standard unit.

HT version



- 1 Water.
- 2 Water + Glycol.
- 14 Brine Version.
- 15 Polar Version.
- 16 Polar + Glycol.
- 1 + 2 Standard unit.

Technical feature

EuroScrew 370-700 Air EVO CO (STD)		370	400	450	500	570	650	700	
Cooling capacity ¹	kW	364,1	414,5	445,5	502,9	562,1	625,5	712,9	
Power input ¹	kW	112,7	130,4	143,5	159,9	176,5	197,7	223,5	
EER ¹		3,23	3,18	3,11	3,15	3,18	3,16	3,19	
Energy efficiency class		A	A	A	A	A	A	A	
ESEER		3,75	3,69	3,60	3,65	3,69	3,67	3,70	
Refrigerant									
Type		HFC 134a							
Number of refrigerant circuits		2	2	2	2	2	2	2	
Compressor									
Qty		2							
Type		Screw							
Part load steps	%	25-50-62-75-87-100							
Power supply		400V/3/50Hz							
Start-up type		Part Winding							Y/Δ
Evaporator									
Qty		1							
Type		Shell & Tube							
Water flow rate	m ³ /h	62,7	71,4	76,8	86,7	96,9	107,8	123,0	
Water pressure drop	kPa	17,0	21,1	24,4	18,7	23,3	29,3	37,6	
Inlet/outlet diameter	inch	6	6	6	8	8	8	8	
Condenser									
Qty		8	10	10	10	12	12	14	
Type		MCHX - Al/Alloy							
Fan									
Qty		6	8	8	8	8	9	10	
Air flow	m ³ /s	51,1	63,9	63,9	63,9	76,7	76,7	89,4	
Power input	kW	16,8	21,0	21,0	21,0	25,2	25,2	29,4	
Weight									
Shipping	kg	3.500	3.840	3.870	4.720	5.050	5.100	5.550	
Operating	kg	3.650	3.980	4.010	4.970	5.300	5.340	5.780	
Dimensions									
Length	mm	4.600	5.700	5.700	5.700	6.700	6.700	7.800	
Width	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	
Height	mm	2.550	2.550	2.550	2.550	2.550	2.550	2.550	
Acoustical data									
Sound power level ²	dB(A)	97	98	98	98	99	99	99	
Sound pressure level at 10 m ³	dB(A)	65	66	66	66	67	67	67	

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

EuroScrew 750-1100 Air EVO CO (STD)		750	850	950	1000	1100
Cooling capacity ¹	kW	749,2	839,0	961,8	1.019,0	1.117,9
Power input ¹	kW	237,4	261,2	288,6	312,8	340,0
EER ¹		3,16	3,21	3,33	3,26	3,29
Energy efficiency class		A	A	A	A	A
ESEER		3,66	3,73	3,87	3,78	3,81
Refrigerant						
Type		HFC 134a				
Number of refrigerant circuits		2	2	2	2	2
Compressor						
Qty		2				
Type		Screw				
Part load steps	%	25-50-62-75-87-100				
Power supply		400V/3/50Hz				
Start-up type		Y/Δ				
Evaporator						
Qty		1				
Type		Shell & Tube				
Water flow rate	m ³ /h	129,0	144,5	165,7	175,6	192,7
Water pressure drop	kPa	15,4	19,4	24,2	25,6	31,4
Inlet/outlet diameter	inch	8	8	8	10	10
Condenser						
Qty		14	16	18	20	22
Type		MCHX - Al/Alloy				
Fan						
Qty		14	16	18	20	22
Air flow	m ³ /s	89,4	102,2	115,0	127,8	140,6
Power input	kW	29,4	33,6	37,8	42,0	46,2
Weight						
Shipping	kg	6.730	7.030	7.460	7.840	8.260
Operating	kg	7.120	7.420	7.840	8.210	8.660
Dimensions						
Length	mm	7.800	8.800	9.900	10.900	12.000
Width	mm	2.200	2.200	2.200	2.200	2.200
Height	mm	2.550	2.550	2.550	2.550	2.550
Acoustical data						
Sound power level ²	dB(A)	100	100	101	101	102
Sound pressure level at 10 m ³	dB(A)	67	67	68	68	69

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

Technical feature

EuroScrew 370-700 Air EVO CO L		370	400	450	500	570	650	700	
Cooling capacity ¹	kW	354,6	401,7	438,5	478,8	547,5	610,5	702,3	
Power input ¹	kW	111,8	126,4	142,5	159,0	176,4	199,6	224,3	
EER ¹		3,17	3,18	3,08	3,01	3,10	3,06	3,13	
Energy efficiency class		A	A	B	B	A	B	A	
ESEER		4,07	4,19	4,07	4,00	4,11	4,05	4,14	
Refrigerant									
Type		HFC 134a							
Number of refrigerant circuits		2	2	2	2	2	2	2	
Compressor									
Qty		2							
Type		Screw							
Part load steps	%	25-50-62-75-87-100							
Power supply		400V/3/50Hz							
Start-up type		Part Winding							Y/Δ
Evaporator									
Qty		1							
Type		Shell & Tube							
Water flow rate	m ³ /h	61,1	69,2	75,6	82,5	94,3	105,3	121,1	
Water pressure drop	kPa	16	20	24	17	22	28	37	
Inlet/outlet diameter	inch	6	6	6	8	8	8	8	
Condenser									
Qty		8	10	10	10	12	12	14	
Type		MCHX - Al/Alloy							
Fan									
Qty		6	8	8	8	8	9	10	
Air flow	m ³ /s	42,4	53,1	53,1	53,1	63,7	63,7	74,3	
Power input	kW	9,2	11,5	11,5	11,5	13,8	13,8	16,1	
Weight									
Shipping	kg	3.500	3.840	3.870	4.720	5.050	5.100	5.550	
Operating	kg	3.650	3.980	4.010	4.970	5.300	5.340	5.780	
Dimensions									
Length	mm	4.600	5.700	5.700	5.700	6.700	6.700	7.800	
Width	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	
Height	mm	2.550	2.550	2.550	2.550	2.550	2.550	2.550	
Acoustical data									
Sound power level ²	dB(A)	91	92	92	92	93	93	94	
Sound pressure level at 10 m ³	dB(A)	59	60	60	60	61	61	61	

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

Technical feature

EuroScrew 750-1100 Air EVO CO L		750	850	950	1000	1100
Cooling capacity ¹	kW	722,2	814,4	922,4	981,4	1.086,0
Power input ¹	kW	237,7	264,2	288,3	309,8	339,3
EER ¹		3,04	3,08	3,20	3,17	3,20
Energy efficiency class		B	B	A	A	A
ESEER		4,04	4,08	4,23	4,21	4,24
Refrigerant						
Type		HFC 134a				
Number of refrigerant circuits		2	2	2	2	2
Compressor						
Qty		2				
Type		Screw				
Part load steps	%	25-50-62-75-87-100				
Power supply		400V/3/50Hz				
Start-up type		Y/Δ				
Evaporator						
Qty		1				
Type		Shell & Tube				
Water flow rate	m ³ /h	124,5	140,5	158,9	169,1	187,2
Water pressure drop	kPa	31	39	22	24	30
Inlet/outlet diameter	inch	8	8	8	10	10
Condenser						
Qty		14	16	18	20	22
Type		MCHX - Al/Alloy				
Fan						
Qty		14	16	18	20	22
Air flow	m ³ /s	74,3	84,9	95,5	106,1	116,7
Power input	kW	16,1	18,4	20,7	23,0	25,3
Weight						
Shipping	kg	6.730	7.030	7.460	7.840	8.260
Operating	kg	7.120	7.420	7.840	8.210	8.660
Dimensions						
Length	mm	7.800	8.800	9.900	10.900	12.000
Width	mm	2.200	2.200	2.200	2.200	2.200
Height	mm	2.550	2.550	2.550	2.550	2.550
Acoustical data						
Sound power level ²	dB(A)	94	94	95	95	96
Sound pressure level at 10 m ³	dB(A)	61	61	62	62	63

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