

Air Cooled Chiller

EuroScroll 85-135 Air CO



84-132 kW



Plate



410A



Air cooled



Scroll

Technical feature

- 5 sizes
- Cooling capacity from 84,2 to 132,1 kW
- 3 Versions:
 - STD (Standard version)
 - HT (High Temperature version)
 - HPF (High Pressure Fans version)
- 2 acoustic versions:
 - Standard version (STD)
 - Super Low Noise version (S)
- One refrigerant circuit
- 2 Scroll compressors (Tandem)
- Microchannel coils
- Microprocessor control
- Electronic expansion valve as standard
- E-Coating coil treatment as standard
- "Brine" version for process application

Accessories and options

- Hydrokit with 1 or 2 pumps with or without buffer tank
- Desuperheater
- Unit protection grilles
- Sofstart
- BMS interface
- Overload protection for compressors
- Automatic circuit breaker
- Water flow switch (standard)
- Mechanical gauges
- Fan speed control
- Water pressure switch
- Water filter
- Power factor corrector capacitors
- Compressors acoustic box (standard)
- Sequence phases control (standard)
- Compressors jackets

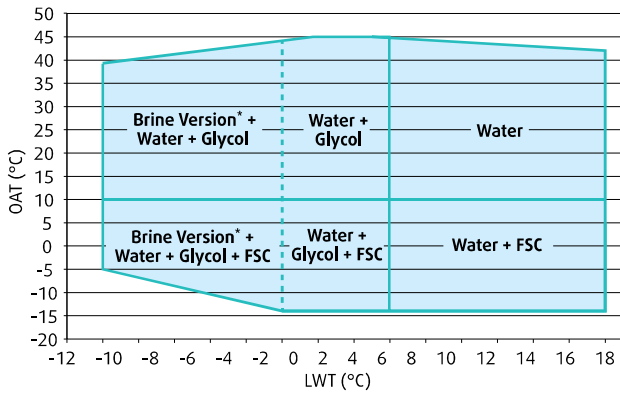


Operating Limit (to be confirmed following selection software issue)

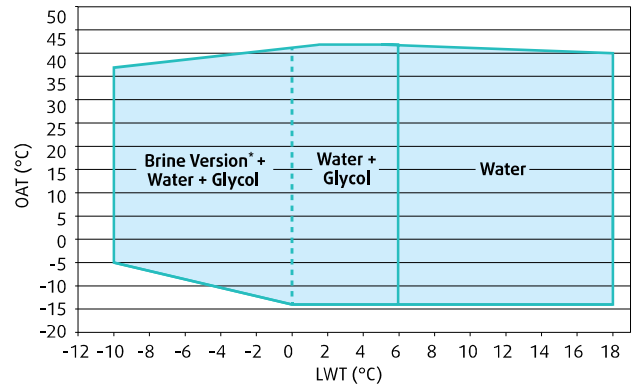
EuroScroll 85-135 Air CO			85-135	
			Min	Max
Leaving water temperature	Water	°C	+6	+18
	Water with glycol + electronic expansion valve*	°C	-8	+5
	Δ T Water	K	3	7
Air temperature	BLN	°C	+10	+45
	S	°C	-14	+42
	HT	°C	-16	+47
External static pressure	Standard fans	Pa	0	
	High pressure fans (HPF)	Pa	< 120	

* For operation below 0°C contact sales office.

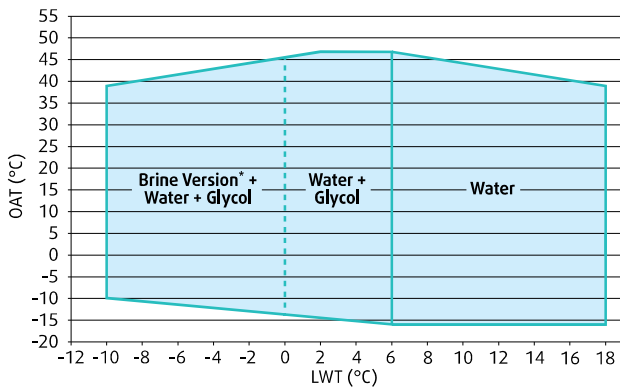
STD Version



S Version



HT Version



Technical feature

EuroScroll 85-135 Air CO		85	95	105	120	135
Cooling capacity ¹	kW	84,2	93,2	104,6	118,6	132,1
Power input ¹	kW	27,2	31,5	37,7	42,0	47,6
EER ¹		3,09	2,96	2,77	2,82	2,78
Energy efficiency class		B	C	C	C	C
ESEER		3,94	4,35	4,00	4,01	4,03
Part load steps		0-50-100	0-43-100	0-50-100	0-44-100	0-50-100
Startup type		Direct				
Refrigerant						
Type		HFC 410A				
Number of refrigerant circuits		1				
Compressor						
Qty		2				
Type		Scroll				
Internal heat exchanger						
Qty		1				
Type		Plate				
Water flow rate	m ³ /h	14,5	16,0	18,0	20,4	22,7
Water pressure drop	kPa	26	32	28	22	19
Antifreeze heater	W	130				
External heat exchanger						
Qty		2				
Total coil face area per coil	m ²	2,4			3,1	
Fan						
Qty		2				
Water connections						
Type		Male GAS Threaded				
Inlet diameter	inch	2"1/2				
Outlet diameter	inch	2"1/2				
Dimensions						
Length	mm	3.000			3.500	
Width	mm	1.100			1.100	
Height	mm	2.250			2.250	
Acoustic data						
Sound power level ²	dB(A)	84	84	88	88	88
Sound pressure level ³	dB(A)	52	52	56	56	56

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

EuroScroll 85-135 Air CO S		85	95	105	120	135
Cooling capacity ¹	kW	81,1	89,3	101,4	113,5	126,0
Power input ¹	kW	28,0	32,8	38,6	43,0	49,6
EER ¹		2,90	2,72	2,63	2,64	2,54
Energy efficiency class		C	C	D	D	D
ESEER		3,91	4,32	3,98	4,03	4,00
Part load steps	%	0-50-100	0-43-100	0-50-100	0-44-100	0-50-100
Startup type		Direct				
Refrigerant						
Type		HFC 410A				
Number of refrigerant circuits		1				
Compressor						
Qty		2				
Type		Scroll				
Internal heat exchanger						
Qty		1				
Type		Plate				
Water flow rate	m ³ /h	13,9	15,4	17,4	19,5	21,7
Water pressure drop	kPa	23	28	25	20	17
Antifreeze heater	W	130				
External heat exchanger						
Qty		2				
Total coil face area per coil	m ²	2,4			3,1	
Fans						
Qty		2				
Air flow rate	m ³ /h	25.000		34.000	36.000	
Water connections						
Type		Male GAS Threaded				
Inlet diameter	inch	2"1/2				
Outlet diameter	inch	2"1/2				
Dimensions						
Length	mm	3.000			3.500	
Width	mm	1.100			1.100	
Height	mm	2.250			2.250	
Acoustic data						
Sound power level ²	dB(A)	82	82	85	85	85
Sound pressure level ³	dB(A)	50	50	53	53	53

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.