

Air Cooled Chiller & Heat Pump

EuroScroll 20-35 Air HP

-  20-33 kW
-  Air cooled
-  Scroll
-  21-35 kW
-  Plate
-  410A

Technical feature

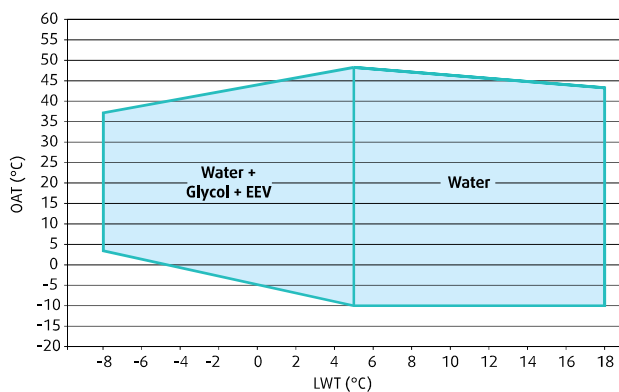
- 4 sizes
- Cooling capacity from 20,2 to 33,4 kW
- Heating capacity from 20,9 to 35 kW
- One scroll compressor
- New control
- Operating low water content in the plant
- Pump as standard

Accessories and options

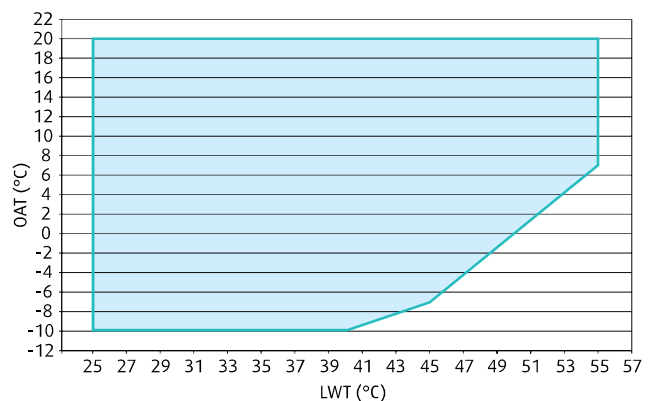
- Automatic circuit breaker (standard)
- Buffer tank placed under unit
- Coils treatments
- Coil grilles
- Desuperheater
- Fan speed control (standard)
- Mechanical gauges
- Power factor corrector capacitors
- Sequence phases control (standard)
- Softstart
- Water flow switch
- Water differential pressure switch (standard)
- Water filter (standard)



EuroScroll 20-35 Air HP - Cooling operation



EuroScroll 20-35 Air HP - Heating operation



Operating limit (to be confirmed following selection software issue)

EuroScroll Air HP		20	25	30	35
		Min - Max			
Leaving water temperature (cooling)*	°C	from -8 to 18			
Δ T water (cooling mode)	K	3 - 7			
Leaving water temperature (heating)	°C	+25 to +55			
Δ T water (heating mode)	K	3 - 15			
Air temperature	°C	Refer to below graphics			

* Below 5°C, glycol and electronic expansion valve is required.

Chillers suitable for operation without buffer tank for water content greater than 4 liters of water per kW of output.

Technical feature

EuroScroll 20-35 Air HP		20	25	30	35	
Cooling capacity ¹	kW	20,2	23,9	27,4	33,4	
Power input ¹	kW	6,91	7,65	9,27	11,5	
EER 100% ¹		2,92	3,12	2,96	2,90	
Energy Efficiency Class		B	A	B	B	
ESEER		3,34	3,61	3,50	3,40	
Heating capacity ²	kW	20,9	24,5	28,4	35,0	
Power input ²	kW	6,70	7,69	8,70	10,8	
COP ²		3,12	3,19	3,26	3,24	
Energy Efficiency Class		B	B	A	A	
Part load steps	%	0-100				
Power supply	V/Ph/Hz	400/3+N/50				
Startup type		Direct				
Refrigerant						
Type		HFC 410A				
Number of refrigerant circuits		1				
Compressor						
Qty / Type		1 / Scroll				
Crankcase heater	W	70	90	90	90	
Internal heat exchanger						
Qty / Type		1 / Plate exchanger AISI 316				
Summer operation	Water flow	l/s	0,95	1,12	1,29	1,57
	Available Static Pressure	kPa	172	154	148	116
Winter operation	Water flow	l/s	1,02	1,19	1,38	1,70
	Available Static Pressure	kPa	164	146	138	101
Antifreeze heater	W	35	35	35	35	
Connection type						
Male gas threaded						
Inlet/outlet diameter	inch	1"1/4				
Water drain connection	inch	Ø"				
Fan						
Qty / Type		2 / Axial				
Air flow	m ³ /h	11.289	10.848	10.848	10.425	
Power input	kW	0,53	0,54	0,54	0,54	
Pump						
Qty		1	1	1	1	
Input Power (Summer / Winter)	kW	0,57/0,58	0,60/0,61	0,62/0,63	0,65/0,66	
Weight						
Shipping	kg	256	287	291	305	
Operating	kg	250	281	286	299	
Dimensions						
Length	mm	1.477	1.477	1.477	1.477	
Width	mm	539	539	539	539	
Height	mm	1.615	1.615	1.615	1.615	
Acoustical data						
Sound power level ³	dB(A)	73	74	74	75	
Sound pressure level at 10 m ⁴	dB(A)	41	42	42	43	

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

² Data refers to 45°C leaving warm water temperature and 7°C ambient coil air temperature with 87% R.H., according EN14511 standard.

³ Sound levels are at fully loaded conditions. Sound power level values refers to ISO 3744 standard.

⁴ Sound pressure levels refer to ISO 3744 standard, parallelepiped shape.