

Air Cooled Heat Pump

EuroScroll 40-75 Air HP



37-72 kW



Air cooled



Scroll



39-76 kW



Plate



HFC 410A

Technical feature

- 6 sizes
- Cooling capacity from 36,8 to 71,6 kW
- Heating capacity from 39,2 to 76,3 kW
- 3 versions:
 - STD (Standard version)
 - HT (High Temperature)
 - HPF (High Pressure Fans)
- 2 Low Noise versions:
 - Standard version (STD)
 - Super Low Noise (S)
- One refrigerant circuit
- 2 scroll compressors (one tandem)
- Low operating water content in the plant
- "Polar" version for extreme conditions

Accessories and options

- Automatic circuit breaker
- Coils treatments
- Coil grilles (standard)
- Compressors acoustic box (standard on S)
- Compressors jackets (standard S)
- Desuperheater
- Electric heater inside buffer tank for additional heating
- Fan speed control
- Hydrokit with 1 or 2 pumps with or without buffer tank
- Mechanical gauges
- Power factor corrector capacitors
- Sequence phases control (standard)
- Softstart
- Water filter (standard)
- Water pressure switch (standard)
- Water flow switch (standard)



Operating limit (to be confirmed following selection software issue)

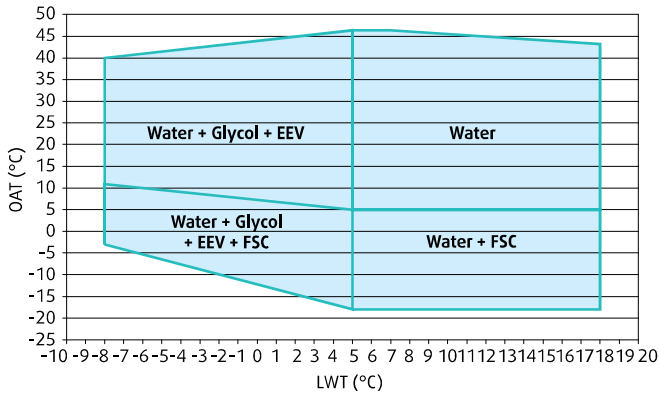
EuroScroll 40-75 Air HP		40	45	50	60	65	75
		Min - Max					
Leaving water temperature (cooling)*	°C	from -8 to +18					
Water Δ T (cooling)	K	3 - 7					
Leaving water temperature (heating)	°C	from +25 to +55					
Water Δ T (heating)	K	3 - 15					
Air temperature	°C	Refers to following graphics					

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

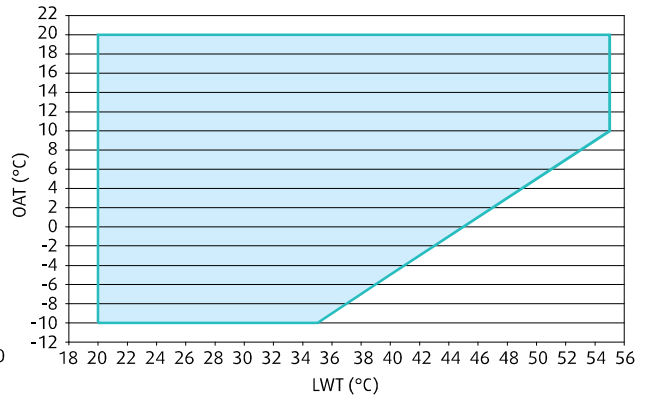
Chillers suitable for operation without buffer tank for water content greater than 2,5 liters of water per kW of output.

BLN Version

Cooling

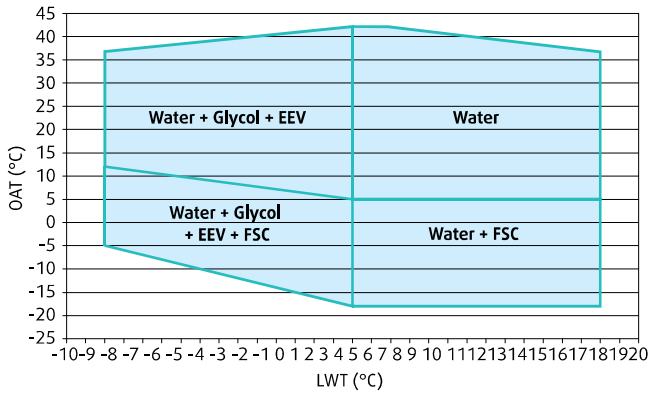


Heating

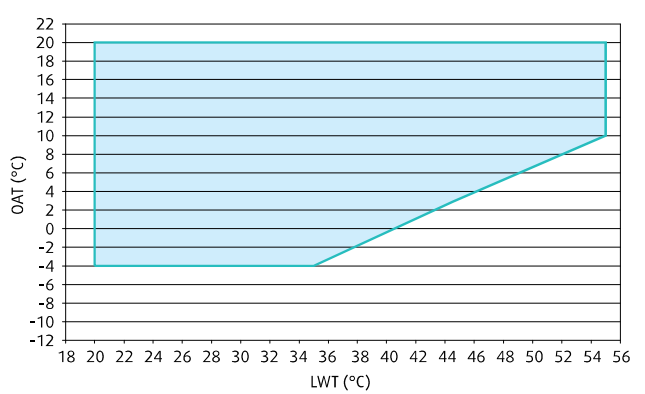


S Version

Cooling

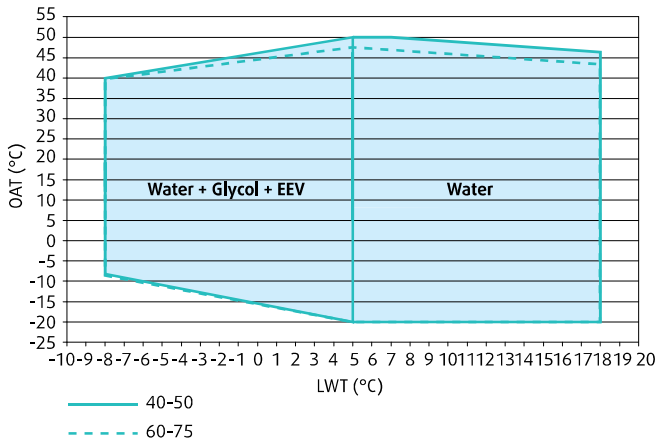


Heating

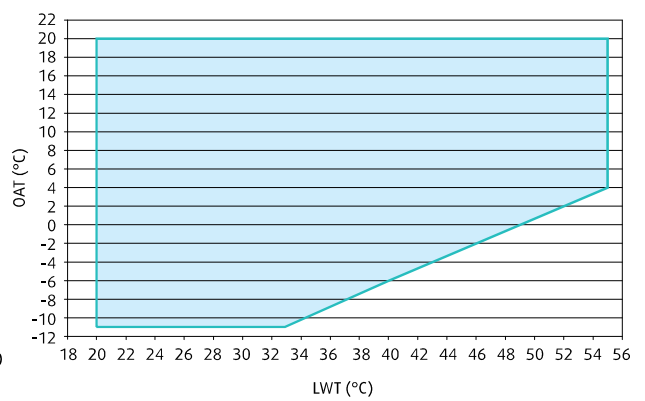


HT Version

Cooling



Heating



— 40-50
- - - 60-75

Technical feature

EuroScroll 40-75 Air HP (STD-HPF-HT)		40	45	50	60	65	75
Cooling capacity ¹	kW	36,8	41,7	48,4	56,8	64,3	71,6
Power input ¹	kW	13,6	15,6	18,1	19,9	22,8	27,1
EER ¹		2,71	2,67	2,67	2,85	2,82	2,64
Energy Efficiency Class		C	D	D	C	C	D
ESEER		3,81	3,74	3,72	3,82	3,75	3,57
Heating capacity ²	kW	39,2	43,7	51,7	58,0	69,1	76,3
Power input ²	kW	13,3	14,5	16,3	21,3	23,0	26,9
COP ²		2,95	3,01	3,17	2,72	3,00	2,84
Energy Efficiency Class		C	B	B	C	B	C
Part load steps	%	0-50-100	0-50-100	0-50-100	0-44-56-100	0-50-100	0-50-100
Power supply	V/Ph/Hz	400/3+N/50					
Startup type		Direct					
Refrigerant							
Type		HFC 410A					
Number of refrigerant circuits		1	1	1	1	1	1
Compressor							
Qty		2	2	2	2	2	2
Type		Scroll					
Crankcase heater	W	90	90	90	90	90	90
Evaporator							
Qty		1	1	1	1	1	1
Type		Plate exchanger AISI 316					
Water flow	l/h	6.209	7.052	8.170	9.615	10.888	12.160
Antifreeze heater	W	35	35	35	35	35	35
Connection type		Male gas threaded					
Inlet/outlet diameter	inch	2"	2"	2"	2"	2"	2"
Water drain connection	inch	Ø"	Ø"	Ø"	Ø"	Ø"	Ø"
Condenser							
Qty		1	1	1	1	1	1
Total coil face area per coil	mm	2,6	2,6	2,6	3,2	3,2	3,2
Fan							
Qty		1	1	1	1	1	1
Air flow	m ³ /h	14.800	14.800	14.800	22.250	22.250	22.250
Speed	rpm/min	680	680	680	900	900	900
Power Input	kW	0,98	0,98	0,98	2,00	2,00	2,00
Power Input [*]	kW	2,67	2,67	2,67	2,67	2,67	2,67
Available static pressure [*]	Pa	from 0 to 120					
Weight							
Shipping	kg	422	430	457	504	511	517
Operating	kg	431	440	467	517	524	530
Dimensions							
Length	mm	1.750	1.750	1.750	2.200	2.200	2.200
Width	mm	1.100	1.100	1.100	1.100	1.100	1.100
Height	mm	1.580	1.580	1.580	1.580	1.580	1.580
Acoustical data							
Sound power level ³	dB(A)	78	79	79	83	84	84
Sound pressure level ⁴	dB(A)	47	47	47	52	52	52

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.

^{*} HPF / HT versions with EC fan motor.

Technical feature

EuroScroll 40-75 Air HP S		40	45	50	60	65	75
Cooling capacity ¹	kW	36,8	40,2	46,3	55,0	59,8	68,9
Power input ¹	kW	13,9	16,1	18,9	20,1	22,9	28,0
EER ¹		2,65	2,50	2,45	2,74	2,61	2,46
Energy Efficiency Class		D	D	E	C	D	E
ESEER		3,61	3,50	3,42	3,67	3,47	3,35
Heating capacity ²	kW	38,2	42,5	50,4	56,6	67,3	74,4
Power input ²	kW	13,0	14,2	16,1	20,8	22,5	26,4
COP ²		2,94	2,99	3,13	2,72	2,99	2,82
Energy Efficiency Class		C	C	B	C	C	C
Number of refrigerant circuits		1	1	1	1	1	1
Part load steps	%	0-50-100	0-50-100	0-50-100	0-44-56-100	0-50-100	0-50-100
Power supply	V/Ph/Hz	400/3+N/50					
Startup type		Direct					
Refrigerant							
Type		HFC 410A					
Compressor							
Qty		2	2	2	2	2	2
Type		Scroll					
Crankcase heater	W	90	90	90	90	90	90
Evaporator							
Qty		1	1	1	1	1	1
Type		Plate exchanger AISI 316					
Water flow	l/h	6.209	6.794	7.809	9.305	10.114	11.679
Antifreeze heater	W	35	35	35	35	35	35
Connection type		Male gas threaded					
Inlet/outlet Diameter	inch	2"	2"	2"	2"	2"	2"
Water drain connection	inch	Ø"	Ø"	Ø"	Ø"	Ø"	Ø"
Condenser							
Qty		1	1	1	1	1	1
Total coil face area per coil	mm	2,6	2,6	2,6	3,2	3,2	3,2
Fan							
Qty		1	1	1	1	1	1
Air flow	m ³ /h	11.500	11.500	10.800	17.000	17.000	17.000
Speed	rpm/min	530	530	530	720	720	720
Power Input	kW	0,57	0,57	0,57	1,27	1,27	1,27
Weight							
Shipping	kg	422	430	457	504	511	517
Operating	kg	431	440	467	517	524	530
Dimensions							
Length	mm	1.750	1.750	1.750	2.200	2.200	2.200
Width	mm	1.100	1.100	1.100	1.100	1.100	1.100
Height	mm	1.580	1.580	1.580	1.580	1.580	1.580
Acoustical data							
Sound power level ³	dB(A)	74	75	75	78	79	79
Sound pressure level ⁴	dB(A)	42	44	44	46	47	47

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.