

Air Cooled Chiller

EuroScroll 140-360 Air EVO CO



144-360 kW



Plate



410A



Air cooled



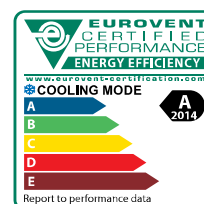
Scroll

Technical feature

- 9 sizes
- Cooling capacity from 144 to 360,7 kW
- Fans versions:
 - STD (Standard)
 - EC (Inverter Fans)
 - HT (High Temperature)
 - HPF (High Pressure Fans)
- Acoustic versions:
 - - (Basic Low Noise)
 - L (Low Noise)
 - S (Super Low Noise)
- "Brine" version: Cooling only for process application LWT -10°C
- Two refrigerant circuits
- 4 Scroll compressors
- Electronic expansion valve
- Microchannel coils
- E-Coating coil treatment as standard

Accessories and options

- Automatic circuit breaker
- BMS interface
- Coils treatments
- Compressors acoustic box (standard)
- Compressors jackets (standard as Super Low Noise)
- Desuperheater and totally heat recovery (TR version)
- Fan speed control (-14 °C in cooling mode – standard as Super Low Noise version)
- Hydrokit with 1 or 2 pumps with or without buffer tank
- Mechanical gauges
- Overload protection for compressors
- Power factor corrector capacitors
- Sequence phases control (standard)
- Softstarter
- Unit protection grilles
- Water differential pressure switch (standard)
- Water filter
- Water flow switch



Operating limit (to be confirmed following selection software issue)

| EuroScroll 140-360 Air EVO CO | | | | 140 | | 170 | | 200 | | 230 | |
|--|----------------------------------|--------------------|----|-------------------------------|-----|-----|-----|-----|-----|-----|-----|
| | | | | Min | Max | Min | Max | Min | Max | Min | Max |
| Chilled liquid | Liquid outlet temperature | Water | °C | +5 to +18 | | | | | | | |
| | | Water with glycol* | °C | -10 to +5 | | | | | | | |
| | | Temperature spread | K | 3 to 7 | | | | | | | |
| | Maximum operating pressure | bar | 6 | | | | | | | | |
| Ambient air | Air entering temperature cooling | - | °C | +5 to +48 | | | | | | | |
| | | L | °C | +0 to +46 | | | | | | | |
| | | S | °C | -14 to +44 | | | | | | | |
| | | EC-HT | °C | -18 to +50 | | | | | | | |
| | External static pressure | Temperature spread | Pa | 0 | | | | | | | |
| | | High pressure fans | Pa | <120 | | | | | | | |
| Recommended system chilled water volume ¹ | | | l | 420 | 510 | 600 | 690 | | | | |
| Minimum capacity step | | | % | 25 | 25 | 21 | 19 | | | | |
| Power supply voltage ² | | | V | 400 V / 3 Ø / 50 Hz (nominal) | | | | | | | |

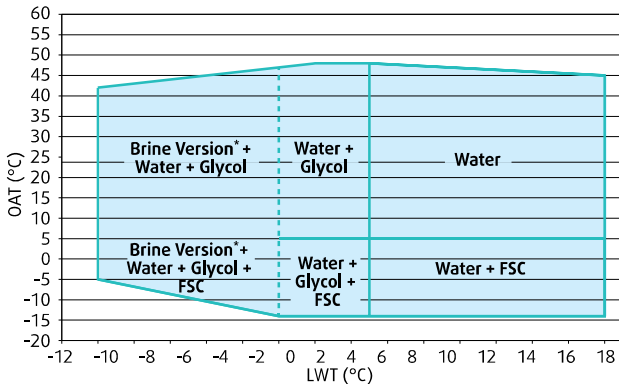
| EuroScroll 140-360 Air EVO CO | | | | 260 | | 280 | | 300 | | 330 | | 360 | |
|--|----------------------------------|--------------------|----|-------------------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|
| | | | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| High pressure fans | Liquid outlet temperature | Water | °C | +5 to +18 | | | | | | | | | |
| | | Water with glycol* | °C | -10 to +5 | | | | | | | | | |
| | | Temperature spread | K | 3 to 7 | | | | | | | | | |
| | Maximum operating pressure | bar | 6 | | | | | | | | | | |
| Ambient air | Air entering temperature cooling | - | °C | +5 to +48 | | | | | | | | | |
| | | L | °C | +0 to +46 | | | | | | | | | |
| | | S | °C | -14 to +44 | | | | | | | | | |
| | | EC-HT | °C | -18 to +50 | | | | | | | | | |
| | External static pressure | Standard fans | Pa | 0 | | | | | | | | | |
| | | High pressure fans | Pa | <120 | | | | | | | | | |
| Recommended system chilled water volume ¹ | | | l | 780 | 840 | 900 | 990 | 1080 | | | | | |
| Minimum capacity step | | | % | 17 | 16 | 24 | 23 | 25 | | | | | |
| Power supply voltage ² | | | V | 400 V / 3 Ø / 50 Hz (nominal) | | | | | | | | | |

* For Liquid outlet temperature <0 °C provide Brine Version (available for CO; on request for HP).

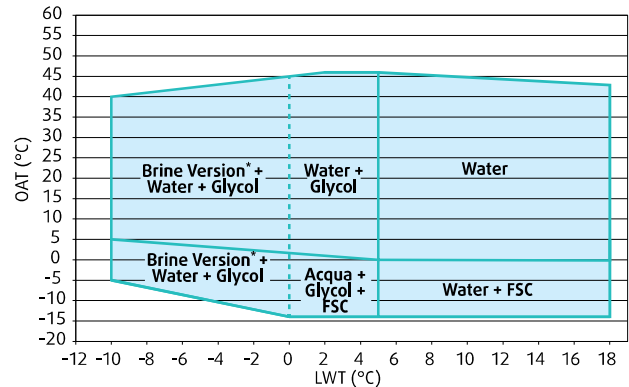
¹ Table shows minimum water / brine volume of system (about 3 lt/kW).

² Voltage 400V +/- 10%.

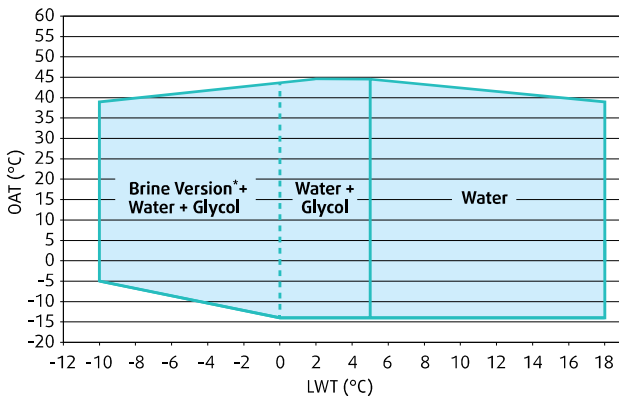
- version



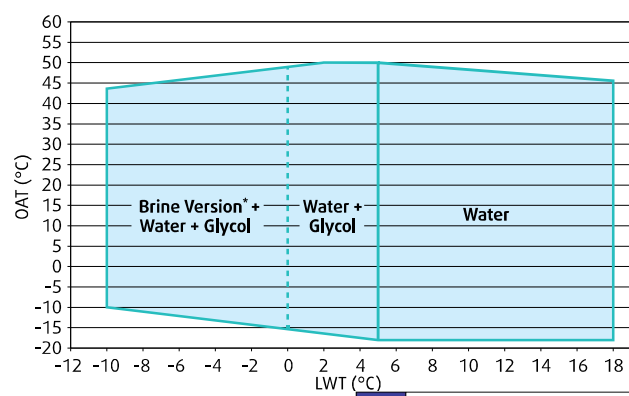
L version



S version



EC-HT version



Technical feature

| EuroScroll 140-360 Air Evo CO (STD-EC-HPF) | | 140 | 170 | 200 | 230 | 260 | 280 | 300 | 330 | 360 |
|--|-------------------|---------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Nominal cooling capacity ¹ | kW | 144,0 | 168,6 | 196,4 | 229,9 | 262,6 | 283,5 | 309,3 | 330,3 | 360,7 |
| Input power ¹ | kW | 44,7 | 54,2 | 62,0 | 73,9 | 83,4 | 90,3 | 98,5 | 103,9 | 116,0 |
| EER ¹ | | 3,22 | 3,11 | 3,17 | 3,11 | 3,15 | 3,14 | 3,14 | 3,18 | 3,11 |
| Energy efficiency class | | A | A | A | A | A | A | A | A | A |
| ESEER | | 3,96 | 3,81 | 4,00 | 4,00 | 4,05 | 4,02 | 4,01 | 4,10 | 4,00 |
| EER [*] | | 3,26 | 3,14 | 3,22 | 3,16 | 3,19 | 3,18 | 3,19 | 3,23 | 3,16 |
| ESEER [*] | | 4,16 | 4,00 | 4,20 | 4,22 | 4,27 | 4,24 | 4,21 | 4,26 | 4,20 |
| EER ^{**} | | 3,03 | 2,96 | 2,95 | 2,93 | 2,96 | 2,96 | 2,95 | 2,98 | 2,93 |
| ESEER ^{**} | | 3,81 | 3,63 | 3,84 | 3,84 | 3,93 | 3,86 | 3,85 | 4,02 | 3,84 |
| Total capacity steps | % | 25-50-75-100 | 25-50-75-100 | 21-43-71-100 | 19-38-69-100 | 17-39-67-100 | 16-37-68-100 | 24-48-71-100 | 23-50-73-100 | 25-50-75-100 |
| Refrigerant | | | | | | | | | | |
| Type | | HFC 410A | | | | | | | | |
| Number of refrigerant circuits | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Compressor | | | | | | | | | | |
| Qty | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Type | | Scroll | | | | | | | | |
| Evaporator | | | | | | | | | | |
| Qty | | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 |
| Type | | Plate | | | | | | | | |
| Water flow | m ³ /h | 24,9 | 29,1 | 33,9 | 39,7 | 45,3 | 48,9 | 53,4 | 57,0 | 62,2 |
| Pressure drop | kPa | 27 | 37 | 40 | 35 | 35 | 41 | 30 | 34 | 41 |
| Water volume | l | 11,4 | 11,4 | 13 | 21,1 | 23,4 | 23,4 | 32,4 | 32,4 | 32,4 |
| Antifreeze heater | W | 130 | 130 | 130 | 130+130 | 130+130 | 130+130 | 130 | 130 | 130 |
| Air cooled condenser | | | | | | | | | | |
| Qty | | 2 | 2 | 5 | 5 | 6 | 6 | 7 | 8 | 8 |
| Total coil face area per coil | m ² | 4,6 | 4,6 | 2,4 | 2,4 | 2,4 | 2,4 | 2,4 | 2,4 | 2,4 |
| Fans | | | | | | | | | | |
| Qty | | 3 | 3 | 5 | 5 | 6 | 6 | 7 | 8 | 8 |
| Nominal speed | rpm | 900 | 900 | 900 | 900 | 900 | 900 | 900 | 900 | 900 |
| Total airflow | m ³ /h | 68.400 | 68.400 | 112.500 | 112.500 | 135.000 | 135.000 | 157.500 | 180.000 | 180.000 |
| Total input power | kW | 5,1 | 5,1 | 8,5 | 8,5 | 10,2 | 10,2 | 11,9 | 13,6 | 13,6 |
| Total input power [*] | kW | 4,5 | 4,5 | 7,5 | 7,5 | 9,0 | 9,0 | 10,5 | 12,0 | 12,0 |
| Total input power ^{**} | kW | 7,8 | 7,8 | 13,0 | 13,0 | 15,6 | 15,6 | 18,2 | 20,8 | 20,8 |
| External static pressure | Pa | 0 or 120 Pa ^{**} | | | | | | | | |
| Water Connections (Evaporator) | | | | | | | | | | |
| Type | | Male GAS Threaded | | | | | | | | |
| Inlet Diameter | inch | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" | 3" |
| Outlet Diameter | inch | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" | 3" |
| Water Connections (Desuperheater) | | | | | | | | | | |
| Type | | Male GAS Threaded | | | | | | | | |
| Inlet Diameter / Outlet Diameter | inch | 1"1" | | | | | | | | |
| Weight | | | | | | | | | | |
| Shipping | kg | 1.139 | 1.183 | 1.477 | 1.592 | 1.738 | 1.738 | 2.237 | 2.264 | 2.274 |
| Operating | kg | 1.157 | 1.200 | 1.492 | 1.617 | 1.765 | 1.705 | 2.286 | 2.303 | 2.313 |
| Additional weight | | | | | | | | | | |
| EC-HPF versions | kg | 30 | 30 | 50 | 50 | 60 | 60 | 70 | 80 | 80 |
| With desuperheater | kg | 8,5 | 8,5 | 17 | 17 | 19 | 19 | 23 | 23 | 23 |
| With one pump | kg | 45 | 45 | 45 | 55 | 55 | 55 | 65 | 65 | 65 |
| With two pumps | kg | 95 | 95 | 95 | 115 | 115 | 115 | 140 | 140 | 140 |
| Dimensions | | | | | | | | | | |
| Length | mm | 4.000 | 4.000 | 3.500 | 3.500 | 3.500 | 3.500 | 4.550 | 4.550 | 4.550 |
| Width | mm | 1.100 | 1.100 | 2.150 | 2.150 | 2.150 | 2.150 | 2.150 | 2.150 | 2.150 |
| Height | mm | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 |
| Acoustical data | | | | | | | | | | |
| Sound power level ² | dB(A) | 90 | 90 | 92 | 92 | 93 | 93 | 94 | 95 | 95 |
| Sound pressure level 10 m ³ | dB(A) | 58 | 58 | 60 | 60 | 61 | 61 | 62 | 63 | 63 |

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.

^{*} High Efficiency Units (EC) with inverter fans.

^{**} HPF Units with high static pressure fans.

Technical feature

| EuroScroll 140-360 Air Evo CO L (STD-EC) | | 140 | 170 | 200 | 230 | 260 | 280 | 300 | 330 | 360 |
|--|-------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Nominal cooling capacity ¹ | kW | 139,9 | 162,9 | 191,5 | 222,9 | 255,1 | 275,0 | 300,1 | 321,3 | 349,5 |
| Input power ¹ | kW | 45,0 | 54,9 | 61,4 | 74,3 | 83,6 | 91,1 | 99,0 | 103,7 | 116,5 |
| EER ¹ | | 3,11 | 2,97 | 3,12 | 3,00 | 3,05 | 3,02 | 3,03 | 3,10 | 3,00 |
| Energy efficiency class | | A | B | A | B | B | B | B | A | B |
| ESEER | | 4,04 | 3,91 | 4,08 | 4,08 | 4,11 | 4,10 | 4,09 | 4,14 | 4,08 |
| EER ² | | 3,15 | 3,01 | 3,17 | 3,04 | 3,10 | 3,06 | 3,07 | 3,15 | 3,04 |
| ESEER ² | | 4,24 | 4,10 | 4,28 | 4,30 | 4,34 | 4,33 | 4,29 | 4,31 | 4,28 |
| Total capacity steps | % | 25-50-75-100 | 25-50-75-100 | 21-43-71-100 | 19-38-69-100 | 17-39-67-100 | 16-37-68-100 | 24-48-71-100 | 23-50-73-100 | 25-50-75-100 |
| Refrigerant | | | | | | | | | | |
| Type | | HFC 410A | | | | | | | | |
| Number of refrigerant circuits | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Compressor | | | | | | | | | | |
| Number | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Type | | Scroll | | | | | | | | |
| Evaporator | | | | | | | | | | |
| Qty | | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 |
| Type | | Plate | | | | | | | | |
| Water flow | m ³ /h | 24,1 | 28,1 | 33,1 | 38,5 | 44,0 | 47,5 | 51,8 | 55,4 | 60,3 |
| Pressure drop | kPa | 26 | 35 | 38 | 33 | 33 | 38 | 28 | 32 | 38 |
| Water volume | l | 11,4 | 11,4 | 13 | 21,1 | 23,4 | 23,4 | 32,4 | 32,4 | 32,4 |
| Antifreeze heater | W | 130 | 130 | 130 | 130+130 | 130+130 | 130+130 | 130 | 130 | 130 |
| Air cooled condenser | | | | | | | | | | |
| Qty | | 2 | 2 | 5 | 5 | 6 | 6 | 7 | 8 | 8 |
| Total coil face area per coil | m ² | 4,6 | 4,6 | 2,4 | 2,4 | 2,4 | 2,4 | 2,4 | 2,4 | 2,4 |
| Fans | | | | | | | | | | |
| Qty | | 3 | 3 | 5 | 5 | 6 | 6 | 7 | 8 | 8 |
| Nominal speed | rpm | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 |
| Total airflow | m ³ /h | 55.000 | 55.000 | 92.500 | 92.500 | 111.000 | 111.000 | 129.500 | 148.000 | 148.000 |
| Total input power | kW | 3,6 | 3,6 | 6,0 | 6,0 | 7,2 | 7,2 | 8,4 | 9,6 | 9,6 |
| Water Connections (Evaporator) | | | | | | | | | | |
| Type | | Male GAS Threaded | | | | | | | | |
| Inlet Diameter | inch | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" | 3" |
| Outlet Diameter | inch | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" | 3" |
| Water Connections (Desuperheater) | | | | | | | | | | |
| Type | | Male GAS Threaded | | | | | | | | |
| Inlet Diameter | inch | 1" | 1" | 1" | 1" | 1" | 1" | 1" | 1" | 1" |
| Outlet Diameter | inch | 1" | 1" | 1" | 1" | 1" | 1" | 1" | 1" | 1" |
| Weight | | | | | | | | | | |
| Shipping | kg | 1.139 | 1.183 | 1.477 | 1.592 | 1.738 | 1.738 | 2.237 | 2.264 | 2.274 |
| Operating | kg | 1.157 | 1.200 | 1.492 | 1.617 | 1.765 | 1.765 | 2.286 | 2.303 | 2.313 |
| Additional weight | | | | | | | | | | |
| EC versions | kg | 30 | 30 | 50 | 50 | 60 | 60 | 70 | 80 | 80 |
| With desuperheater | kg | 8,5 | 8,5 | 17 | 17 | 19 | 19 | 23 | 23 | 23 |
| With one pump | kg | 45 | 45 | 45 | 55 | 55 | 55 | 65 | 65 | 65 |
| With two pumps | kg | 95 | 95 | 95 | 115 | 115 | 115 | 140 | 140 | 140 |
| Dimensions | | | | | | | | | | |
| Length | mm | 4.000 | 4.000 | 3.500 | 3.500 | 3.500 | 3.500 | 4.550 | 4.550 | 4.550 |
| Width | mm | 1.100 | 1.100 | 2.150 | 2.150 | 2.150 | 2.150 | 2.150 | 2.150 | 2.150 |
| Height | mm | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 |
| Acoustical data | | | | | | | | | | |
| Sound power level ² | dB(A) | 85 | 85 | 87 | 87 | 88 | 88 | 89 | 90 | 90 |
| Sound pressure level 10 m ³ | dB(A) | 53 | 53 | 55 | 55 | 56 | 56 | 57 | 58 | 58 |

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.⁴ High Efficiency Units (EC) with inverter fans.

Technical feature

| EuroScroll 140-360 Air Evo CO S (STD-EC) | | 140 | 170 | 200 | 230 | 260 | 280 | 300 | 330 | 360 |
|--|-------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Nominal cooling capacity ¹ | kW | 132,5 | 152,9 | 182,3 | 209,4 | 241,0 | 258,7 | 282,5 | 304,3 | 328,5 |
| Input power ¹ | kW | 47,0 | 57,5 | 63,3 | 78,7 | 88,0 | 96,2 | 104,6 | 108,7 | 123,5 |
| EER ¹ | | 2,82 | 2,66 | 2,88 | 2,66 | 2,74 | 2,69 | 2,70 | 2,80 | 2,66 |
| Energy efficiency class | | C | D | C | C | C | D | C | C | C |
| ESEER | | 4,12 | 4,00 | 4,16 | 4,16 | 4,17 | 4,18 | 4,17 | 4,18 | 4,16 |
| EER ² | | 2,86 | 2,69 | 2,92 | 2,70 | 2,78 | 2,72 | 2,74 | 2,84 | 2,70 |
| ESEER ² | | 4,33 | 4,20 | 4,37 | 4,39 | 4,40 | 4,41 | 4,38 | 4,35 | 4,37 |
| Total capacity steps | % | 25-50-75-100 | 25-50-75-100 | 21-43-71-100 | 19-38-69-100 | 17-39-67-100 | 16-37-68-100 | 24-48-71-100 | 23-50-73-100 | 25-50-75-100 |
| Refrigerant | | | | | | | | | | |
| Type | | HFC 410A | | | | | | | | |
| Number of refrigerant circuits | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Compressor | | | | | | | | | | |
| Qty | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Type | | Scroll | | | | | | | | |
| Evaporator | | | | | | | | | | |
| Qty | | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 |
| Type | | Plate | | | | | | | | |
| Water flow | m ³ /h | 22,9 | 26,4 | 31,5 | 36,1 | 41,6 | 44,6 | 48,7 | 52,5 | 56,7 |
| Pressure drop | kPa | 23 | 31 | 35 | 29 | 29 | 34 | 25 | 29 | 34 |
| Water volume | l | 11,4 | 11,4 | 13 | 21,1 | 23,4 | 23,4 | 32,4 | 32,4 | 32,4 |
| Antifreeze heater | W | 130 | 130 | 130 | 130+130 | 130+130 | 130+130 | 130 | 130 | 130 |
| Air cooled condenser | | | | | | | | | | |
| Qty | | 2 | 2 | 5 | 5 | 6 | 6 | 7 | 8 | 8 |
| Total coil face area per coil | m ² | 4,6 | 4,6 | 2,4 | 2,4 | 2,4 | 2,4 | 2,4 | 2,4 | 2,4 |
| Fans | | | | | | | | | | |
| Qty | | 3 | 3 | 5 | 5 | 6 | 6 | 7 | 8 | 8 |
| Nominal speed | rpm | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 550 |
| Total airflow | m ³ /h | 44.000 | 44.000 | 72.500 | 72.500 | 87.000 | 87.000 | 101.500 | 116.000 | 116.000 |
| Total input power | kW | 2,7 | 2,7 | 4,5 | 4,5 | 5,4 | 5,4 | 6,3 | 7,2 | 7,2 |
| Water Connections (Evaporator) | | | | | | | | | | |
| Type | | Male GAS Threaded | | | | | | | | |
| Inlet diameter | inch | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" | 3" |
| Outlet diameter | inch | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" | 3" |
| Water Connections (Desuperheater) | | | | | | | | | | |
| Type | | Male GAS Threaded | | | | | | | | |
| Inlet diameter | inch | 1" | 1" | 1" | 1" | 1" | 1" | 1" | 1" | 1" |
| Outlet diameter | inch | 1" | 1" | 1" | 1" | 1" | 1" | 1" | 1" | 1" |
| Weight | | | | | | | | | | |
| Shipping | kg | 1.144 | 1.188 | 1.482 | 1.597 | 1.743 | 1.743 | 2.242 | 2.269 | 2.279 |
| Operating | kg | 1.162 | 1.205 | 1.497 | 1.622 | 1.770 | 1.770 | 2.291 | 2.308 | 2.318 |
| Additional weight | | | | | | | | | | |
| EC version | kg | 30 | 30 | 50 | 50 | 60 | 60 | 70 | 80 | 80 |
| With desuperheater | kg | 8,5 | 8,5 | 17 | 17 | 19 | 19 | 23 | 23 | 23 |
| With one pump | kg | 45 | 45 | 45 | 55 | 55 | 55 | 65 | 65 | 65 |
| With two pumps | kg | 95 | 95 | 95 | 115 | 115 | 115 | 140 | 140 | 140 |
| Dimensions | | | | | | | | | | |
| Length | mm | 4.000 | 4.000 | 3.500 | 3.500 | 3.500 | 3.500 | 4.550 | 4.550 | 4.550 |
| Width | mm | 1.100 | 1.100 | 2.150 | 2.150 | 2.150 | 2.150 | 2.150 | 2.150 | 2.150 |
| Height | mm | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 |
| Acoustical data | | | | | | | | | | |
| Sound power level ² | dB(A) | 79 | 79 | 82 | 82 | 83 | 83 | 85 | 86 | 86 |
| Sound pressure level 10 m ³ | dB(A) | 47 | 47 | 50 | 50 | 51 | 51 | 53 | 54 | 54 |

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.

⁴ High Efficiency Units (EC) with inverter fans.

Technical feature

| EuroScroll 140-360 Air Evo CO HT | | 140 | 170 | 200 | 230 | 260 | 280 | 300 | 330 | 360 |
|--|-------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Nominal cooling capacity ¹ | kW | 145,3 | 170,2 | 197,9 | 232,0 | 264,7 | 286,0 | 312,0 | 332,9 | 363,8 |
| Input power ² | kW | 38,7 | 47,9 | 52,2 | 63,7 | 71,4 | 78,2 | 84,5 | 88,1 | 99,7 |
| EER | | 3,09 | 3,02 | 3,00 | 2,99 | 3,01 | 3,02 | 3,01 | 3,03 | 2,99 |
| Energy efficiency class | | B | B | B | B | B | B | B | B | B |
| ESEER | | 3,88 | 3,72 | 3,92 | 3,92 | 3,99 | 3,94 | 3,93 | 4,06 | 3,92 |
| Total capacity steps | % | 25-50-75-100 | 25-50-75-100 | 21-43-71-100 | 19-38-69-100 | 17-39-67-100 | 16-37-68-100 | 24-48-71-100 | 23-50-73-100 | 25-50-75-100 |
| Refrigerant | | | | | | | | | | |
| Type | | HFC 410A | | | | | | | | |
| Number of refrigerant circuits | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Compressor | | | | | | | | | | |
| Qty | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Type | | Scroll | | | | | | | | |
| Evaporator | | | | | | | | | | |
| Qty | | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 |
| Type | | Plate | | | | | | | | |
| Water flow | m ³ /h | 25,1 | 29,4 | 34,2 | 40,0 | 45,7 | 49,4 | 53,8 | 57,4 | 62,8 |
| Pressure drop | kPa | 28 | 38 | 41 | 36 | 36 | 42 | 31 | 35 | 42 |
| Water volume | l | 11,4 | 11,4 | 13 | 21,1 | 23,4 | 23,4 | 32,4 | 32,4 | 32,4 |
| Antifreeze heater | W | 130 | 130 | 130 | 130+130 | 130+130 | 130+130 | 130 | 130 | 130 |
| Air cooled condenser | | | | | | | | | | |
| Qty | | 2 | 2 | 5 | 5 | 6 | 6 | 7 | 8 | 8 |
| Total coil face area per coil | m ² | 4,6 | 4,6 | 2,4 | 2,4 | 2,4 | 2,4 | 2,4 | 2,4 | 2,4 |
| Fans | | | | | | | | | | |
| Qty | | 3 | 3 | 5 | 5 | 6 | 6 | 7 | 8 | 8 |
| Nominal speed | rpm | 1.100 | 1.100 | 1.100 | 1.100 | 1.100 | 1.100 | 1.100 | 1.100 | 1.100 |
| Total airflow | m ³ /h | 80.500 | 80.500 | 132.500 | 132.500 | 159.000 | 159.000 | 185.500 | 212.000 | 212.000 |
| Total input power | kW | 7,8 | 7,8 | 13,0 | 13,0 | 15,6 | 15,6 | 18,2 | 20,8 | 20,8 |
| Water Connections (Evaporator) | | | | | | | | | | |
| Type | | Male GAS Threaded | | | | | | | | |
| Inlet diameter | inch | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" | 3" |
| Outlet diameter | inch | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" | 3" |
| Water Connections (Desuperheater) | | | | | | | | | | |
| Type | | Male GAS Threaded | | | | | | | | |
| Inlet diameter | inch | 1" | 1" | 1" | 1" | 1" | 1" | 1" | 1" | 1" |
| Outlet diameter | inch | 1" | 1" | 1" | 1" | 1" | 1" | 1" | 1" | 1" |
| Weight | | | | | | | | | | |
| Shipping | kg | 1.169 | 1.213 | 1.527 | 1.642 | 1.798 | 1.798 | 2.307 | 2.344 | 2.354 |
| Operating | kg | 1.187 | 1.230 | 1.542 | 1.667 | 1.825 | 1.825 | 2.356 | 2.383 | 2.393 |
| Additional weight | | | | | | | | | | |
| With desuperheater | kg | 8,5 | 8,5 | 17 | 17 | 19 | 19 | 23 | 23 | 23 |
| With one pump | kg | 45 | 45 | 45 | 55 | 55 | 55 | 65 | 65 | 65 |
| With two pumps | kg | 95 | 95 | 95 | 115 | 115 | 115 | 140 | 140 | 140 |
| Dimensions | | | | | | | | | | |
| Length | mm | 4.000 | 4.000 | 3.500 | 3.500 | 3.500 | 3.500 | 4.550 | 4.550 | 4.550 |
| Width | mm | 1.100 | 1.100 | 2.150 | 2.150 | 2.150 | 2.150 | 2.150 | 2.150 | 2.150 |
| Height | mm | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 |
| Acoustical data | | | | | | | | | | |
| Sound power level ³ | dB(A) | 92 | 92 | 94 | 94 | 96 | 96 | 97 | 98 | 98 |
| Sound pressure level 10 m ⁴ | dB(A) | 60 | 60 | 62 | 62 | 64 | 64 | 65 | 66 | 66 |

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

² Input power (only compressors).

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.

Technical feature

| EuroScroll 140-360 Air Evo TR | | 140 | 170 | 200 | 230 | 260 | 280 | 300 | 330 | 360 |
|---------------------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Nominal cooling capacity ¹ | kW | 141,8 | 169,7 | 189,2 | 230,5 | 260,5 | 283,7 | 308,1 | 324,1 | 359,8 |
| Input power ² | kW | 39,9 | 47,9 | 55,3 | 64,0 | 73,2 | 78,9 | 86,0 | 91,6 | 101,1 |
| EER | | 3,43 | 3,40 | 3,29 | 3,47 | 3,44 | 3,46 | 3,48 | 3,43 | 3,43 |
| Heat recovery capacity ¹ | | 183,2 | 219,7 | 246,7 | 296,9 | 336,2 | 365,7 | 396,7 | 418,6 | 464,7 |
| Total capacity steps | % | 25-50-75-100 | 25-50-75-100 | 21-43-71-100 | 19-38-69-100 | 17-39-67-100 | 16-37-68-100 | 24-48-71-100 | 23-50-73-100 | 25-50-75-100 |
| Refrigerant | | | | | | | | | | |
| Type | | HFC 410A | | | | | | | | |
| Number of refrigerant circuits | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Compressor | | | | | | | | | | |
| Qty | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Type | | Scroll | | | | | | | | |
| Evaporator | | | | | | | | | | |
| Qty | | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 |
| Type | | Plate | | | | | | | | |
| Water flow | m ³ /h | 24,5 | 29,3 | 32,7 | 39,8 | 45,0 | 49,0 | 53,2 | 55,9 | 62,1 |
| Pressure drop | kPa | 26 | 38 | 37 | 35 | 34 | 41 | 30 | 33 | 41 |
| Water volume | | 11,4 | 11,4 | 13 | 21,1 | 23,4 | 23,4 | 32,4 | 32,4 | 32,4 |
| Inlet/outlet water connection | inch | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" | 3" |
| Recovery Condenser | | | | | | | | | | |
| Qty | | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 |
| Type | | Plate | | | | | | | | |
| Water flow | m ³ /h | 31,3 | 37,6 | 42,2 | 50,8 | 57,5 | 62,5 | 67,9 | 71,7 | 79,5 |
| Pressure drop | kPa | 43 | 62 | 62 | 57 | 56 | 67 | 49 | 54 | 67 |
| Water volume | | 11,4 | 11,4 | 13 | 21,1 | 23,4 | 23,4 | 32,4 | 32,4 | 32,4 |
| Inlet/outlet water connection | inch | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" | 3" |
| Weight | | | | | | | | | | |
| Shipping | kg | 1.331 | 1.375 | 1.875 | 2.008 | 2.227 | 2.227 | 2.844 | 2.937 | 2.937 |
| Operating | kg | 1.342 | 1.386 | 1.885 | 2.028 | 2.250 | 2.250 | 2.876 | 2.969 | 2.969 |
| Additional weight | | | | | | | | | | |
| EC version | kg | 30 | 30 | 50 | 50 | 60 | 60 | 70 | 80 | 80 |
| Dimensions | | | | | | | | | | |
| Length | mm | 4.000 | 4.000 | 3.500 | 3.500 | 3.500 | 3.500 | 4.550 | 4.550 | 4.550 |
| Width | mm | 1.100 | 1.100 | 2.150 | 2.150 | 2.150 | 2.150 | 2.150 | 2.150 | 2.150 |
| Height | mm | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 | 2.600 |

¹ Data refers to 7°C leaving chilled water temperature and 45°C leaving condenser water temperature.² Input power (only compressors).