

Key features:

- Low noise level
- Up to 55°C output

RANGE

AMICUS AIR TO WATER HEAT PUMPS

Model

LAHP252LT

Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	22.2
Total Power input (EN14511) ¹	kW	5.3
COP (EN14511) ¹	W/W	4.11
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	150.1
SCOP Low Temperature		3.83
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	18.1
Peak current standard unit	A	58.3
Fans	n°	2
Compressors/Circuits	n°	2/1
Sound power level ²	dB(A)	73
Sound pressure level ³	dB(A)	41
Flow/Return connections	Inch	1¼"
Nominal flow rate	L/sec	1.1
Minimum water content in the user circuit	litre	240
DIMENSIONS		
Height	mm	1468
Depth	mm	1915
Width	mm	875
Weight	Kg	560

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

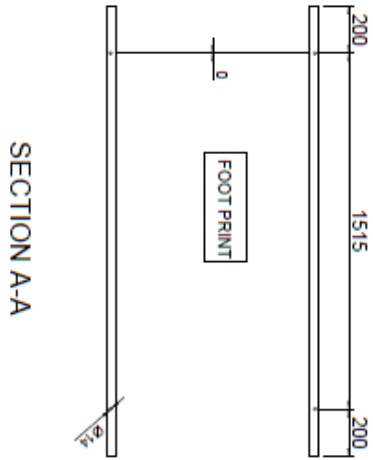
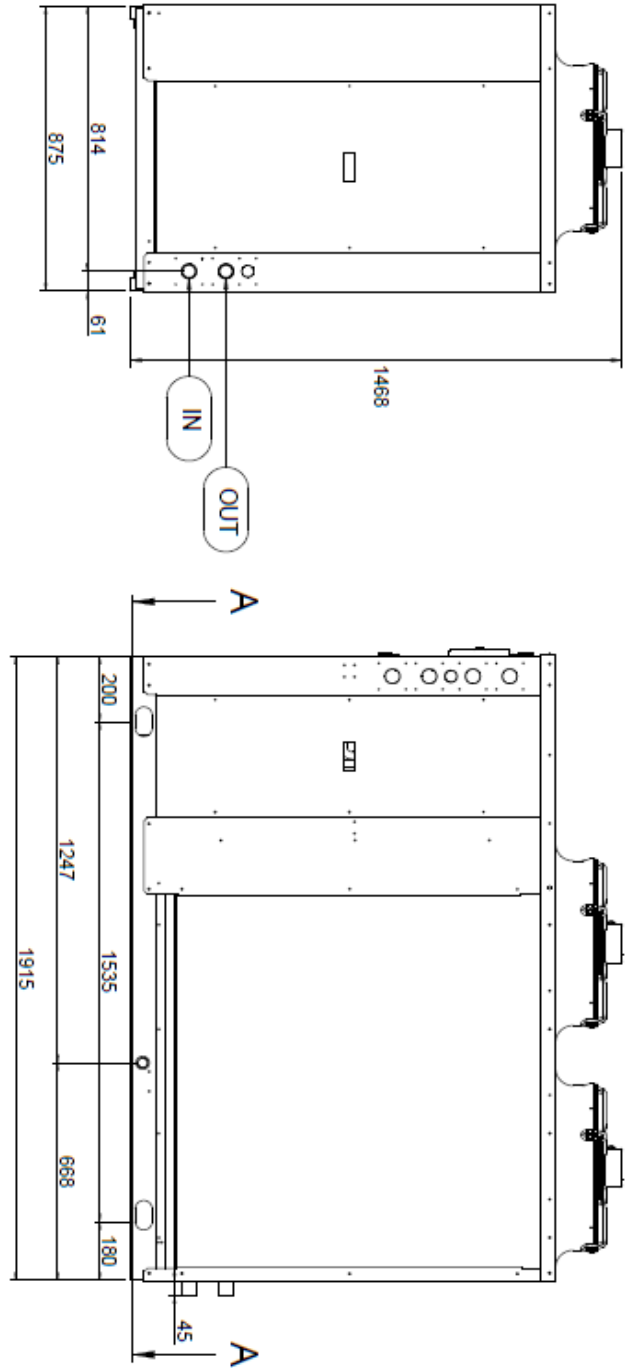
Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of www.lochinvar.ltd.uk

Particular attention should be made to:-

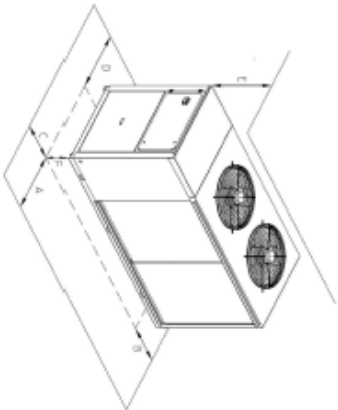
- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at www.lochinvar.ltd.uk



Clearances



Legend	Unit	Model	
		LAHP-252HT	LAHP-302HT
A	mm	1000	1000
B	mm	800	800
C	mm	800	800
D	mm	800	800
E	mm	3000	3000
F*	mm	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE AMICUS AIR TO WATER HEAT PUMPS

Model LAHP302LT

Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	29.6
Total Power input (EN14511) ¹	kW	7.1
COP (EN14511) ¹	W/W	4.16
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	151.4
SCOP Low Temperature		3.86
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	22.5
Peak current standard unit	A	75.5
Fans	n ^o	2
Compressors/Circuits	n ^o	2/1
Sound power level ²	dB(A)	74
Sound pressure level ³	dB(A)	42
Flow/Return connections	Inch	1¼"
Nominal flow rate	L/sec	1.4
Minimum water content in the user circuit	litre	340
DIMENSIONS		
Height	mm	1468
Depth	mm	1915
Width	mm	875
Weight	Kg	560

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

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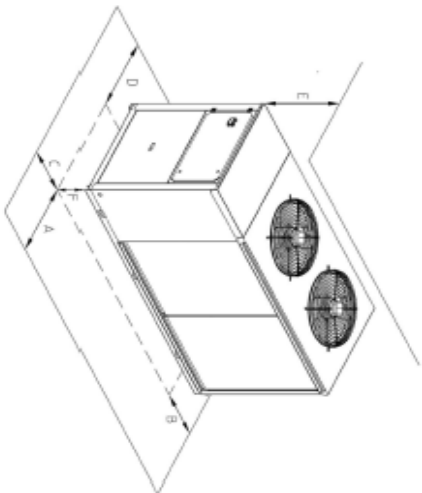
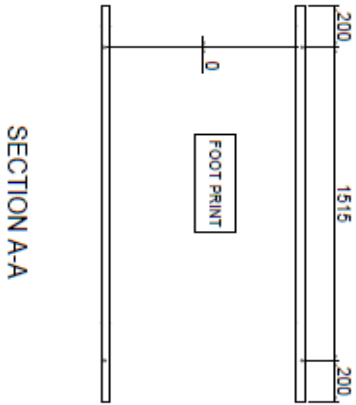
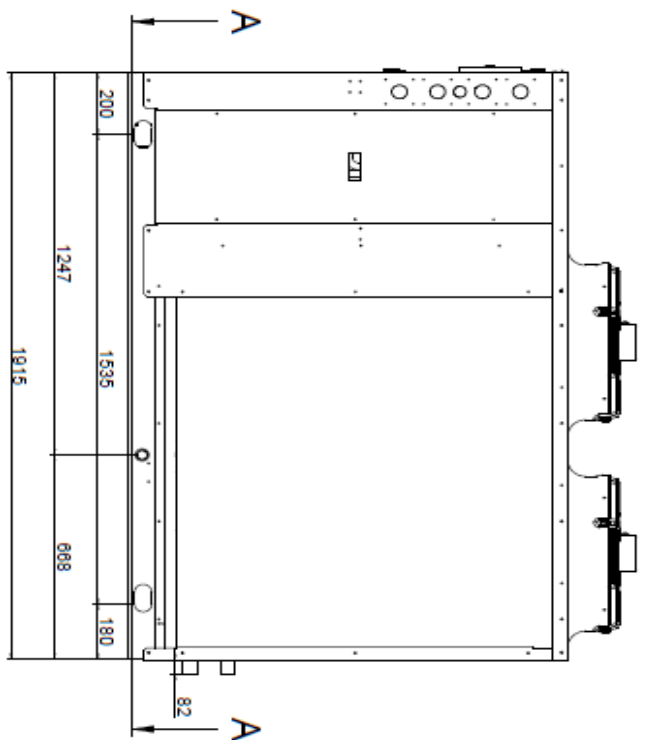
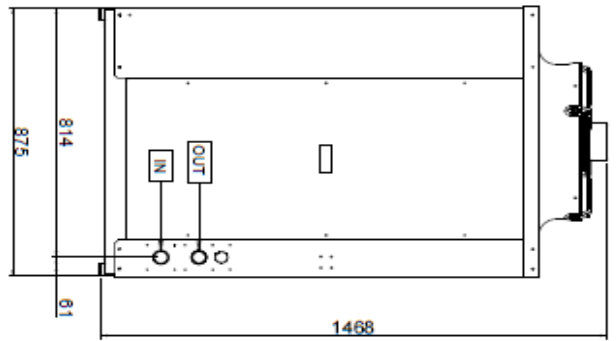
Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at www.lochinvar.ltd.uk

Dimensions



Clearances

Legend	Unit	Model	
		252	302
A	mm	1000	1000
B	mm	800	800
C	mm	800	800
D	mm	800	800
E	mm	3000	3000
F	mm	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE AMICUS AIR TO WATER HEAT PUMPS

Model LAHP402LT

Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	37.3
Total Power input (EN14511) ¹	kW	8.8
COP (EN14511) ¹	W/W	4.23
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	150.9
SCOP Low Temperature		3.85
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	26.5
Peak current standard unit	A	80.5
Fans	n°	2
Compressors/Circuits	n°	2/1
Sound power level ²	dB(A)	74
Sound pressure level ³	dB(A)	42
Flow/Return connections	Inch	1½"
Nominal flow rate	L/sec	1.8
Minimum water content in the user circuit	litre	400
DIMENSIONS		
Height	mm	1677
Depth	mm	2115
Width	mm	875
Weight	Kg	670

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

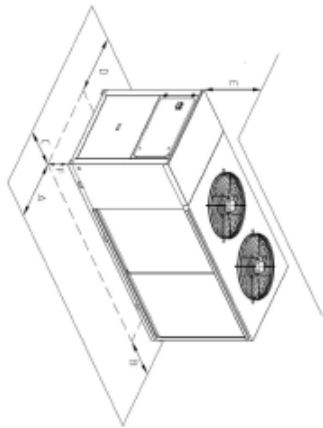
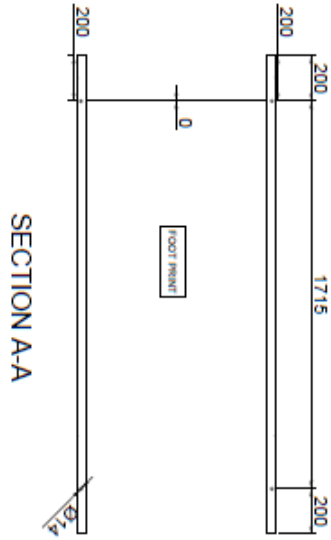
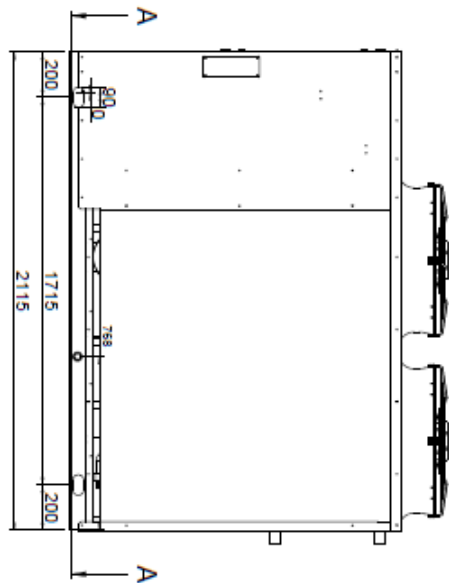
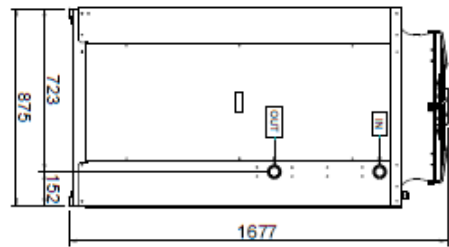
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Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at www.lochinvar.ltd.uk



Legend	Unit	Model		
		402	452	502
A	mm	1500	1500	1500
B	mm	1000	1000	1000
C	mm	1000	1000	1000
D	mm	1000	1000	1000
E	mm	3000	3000	3000
F	mm	350	350	350

Clearances

Key features:

- Low noise level
- Up to 55°C output

RANGE AMICUS AIR TO WATER HEAT PUMPS

Model LAHP452LT

Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	47.1
Total Power input (EN14511) ¹	kW	11.5
COP (EN14511) ¹	W/W	4.11
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	151.1
SCOP Low Temperature		3.85
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	34.2
Peak current standard unit	A	115
Fans	n°	2
Compressors/Circuits	n°	2/1
Sound power level ²	dB(A)	75
Sound pressure level ³	dB(A)	43
Flow/Return connections	Inch	1½"
Nominal flow rate	L/sec	2.2
Minimum water content in the user circuit	litre	480
DIMENSIONS		
Height	mm	1677
Depth	mm	2115
Width	mm	875
Weight	Kg	690

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

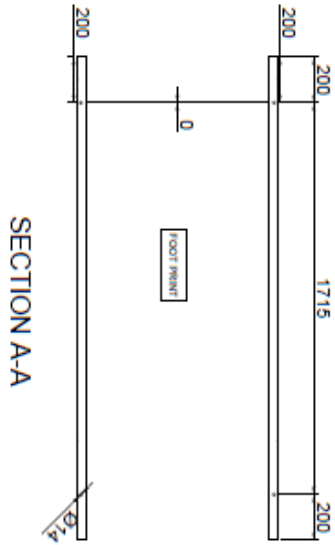
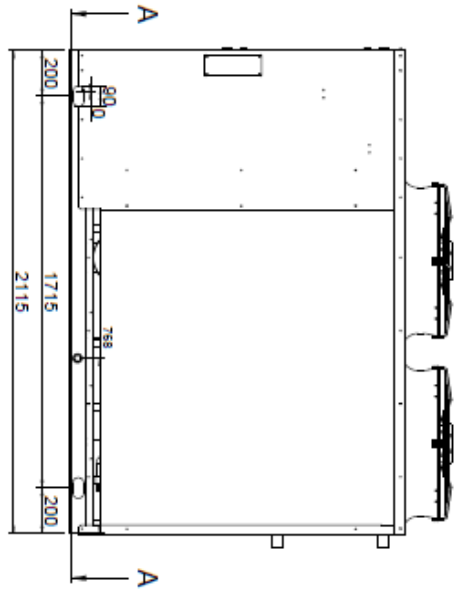
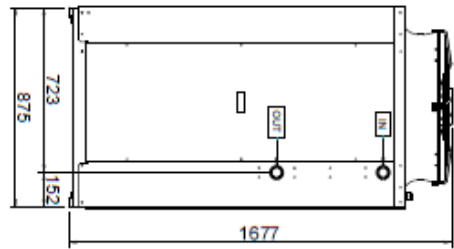
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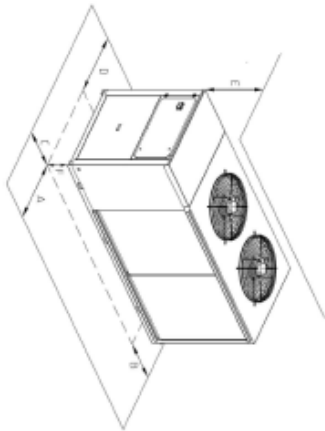
- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at www.lochinvar.ltd.uk



Clearances



Legend		Model	
Unit		402	402
A	mm	1500	1500
B	mm	1000	1000
C	mm	1000	1000
D	mm	1000	1000
E	mm	3000	3000
F	mm	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE AMICUS AIR TO WATER HEAT PUMPS

Model LAHP502LT

Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	50.8
Total Power input (EN14511) ¹	kW	11.8
COP (EN14511) ¹	W/W	4.32
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	153.6
SCOP Low Temperature		3.92
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	44.4
Peak current standard unit	A	134
Fans	n°	2
Compressors/Circuits	n°	2/1
Sound power level ²	dB(A)	76
Sound pressure level ³	dB(A)	44
Flow/Return connections	Inch	1½"
Nominal flow rate	L/sec	2.5
Minimum water content in the user circuit	litre	560
DIMENSIONS		
Height	mm	1677
Depth	mm	2115
Width	mm	875
Weight	Kg	720

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

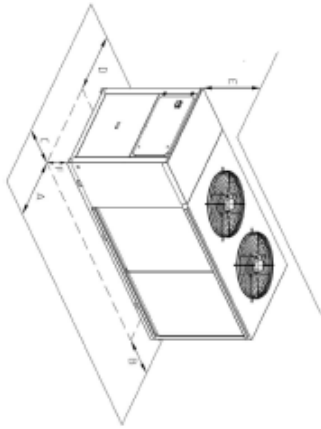
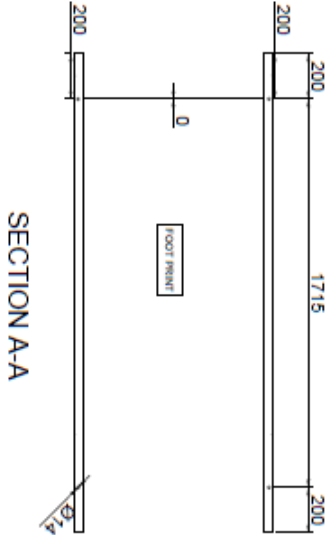
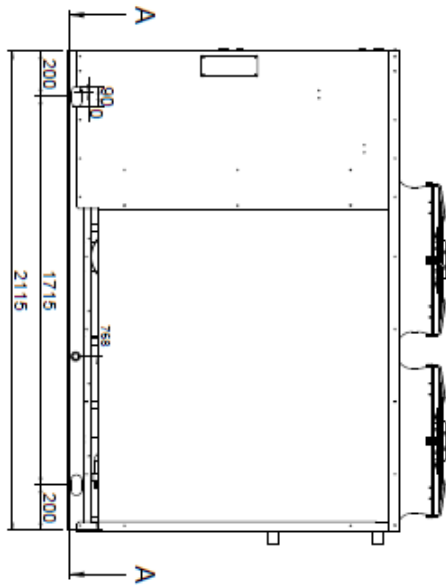
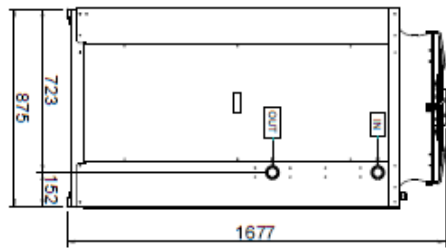
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Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at www.lochinvar.ltd.uk



Clearances

Legend	Unit	Model		
		402	452	502
A	mm	1500	1500	1500
B	mm	1000	1000	1000
C	mm	1000	1000	1000
D	mm	1000	1000	1000
E	mm	3000	3000	3000
F	mm	350	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE

AMICUS AIR TO WATER HEAT PUMPS

		Model
Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	61.2
Total Power input (EN14511) ¹	kW	13.3
COP (EN14511) ¹	W/W	4.61
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	162
SCOP Low Temperature		4.13
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	46.4
Peak current standard unit	A	142
Fans	n°	2
Compressors/Circuits	n°	2/1
Sound power level ²	dB(A)	76
Sound pressure level ³	dB(A)	44
Flow/Return connections	Inch	1½"
Nominal flow rate	L/sec	2.9
Minimum water content in the user circuit	litre	650
DIMENSIONS		
Height	mm	1840
Depth	mm	2905
Width	mm	1146
Weight	Kg	1060

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of www.lochinvar.ltd.uk

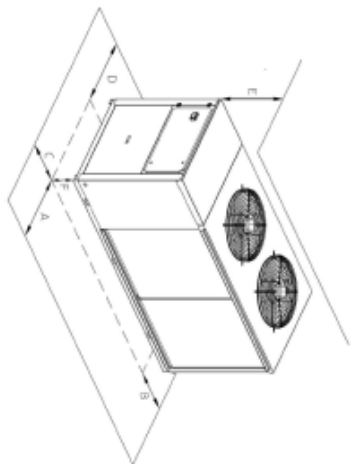
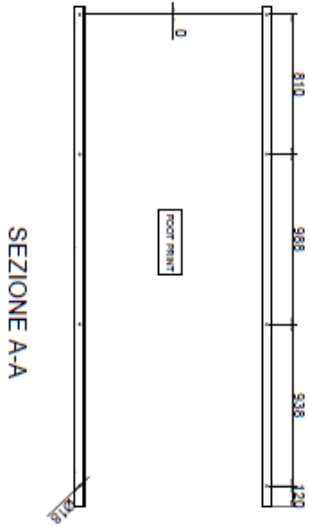
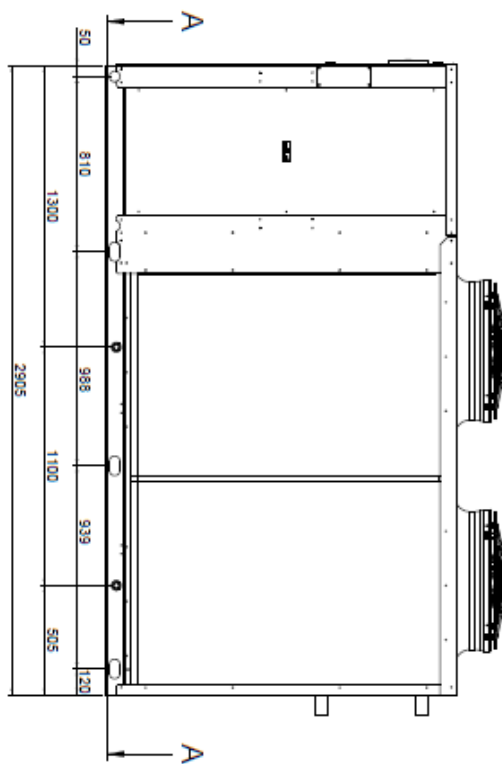
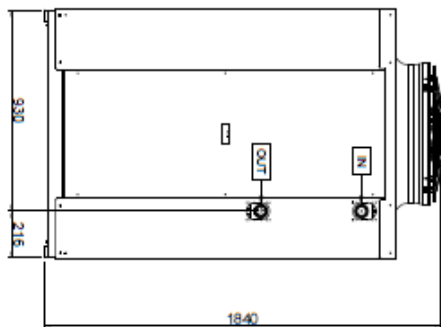
Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at www.lochinvar.ltd.uk

Dimensions



Clearances

Legend	Unit	Model		
		602	702	802
A	mm	2000	2000	2000
B	mm	1000	1000	1000
C	mm	1000	1000	1000
D	mm	1000	1000	1000
E	mm	3000	3000	3000
F	mm	350	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE AMICUS AIR TO WATER HEAT PUMPS

Model LAHP702LT

Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	67.3
Total Power input (EN14511) ¹	kW	15.1
COP (EN14511) ¹	W/W	4.46
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	158.4
SCOP Low Temperature		4.04
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	52.4
Peak current standard unit	A	145
Fans	n°	2
Compressors/Circuits	n°	2/1
Sound power level ²	dB(A)	77
Sound pressure level ³	dB(A)	45
Flow/Return connections	Inch	2"
Nominal flow rate	L/sec	3.3
Minimum water content in the user circuit	litre	750
DIMENSIONS		
Height	mm	1840
Depth	mm	2905
Width	mm	1146
Weight	Kg	1060

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of www.lochinvar.ltd.uk

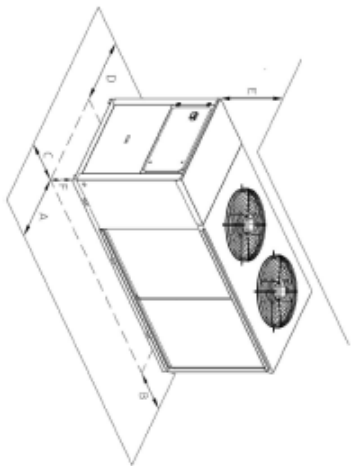
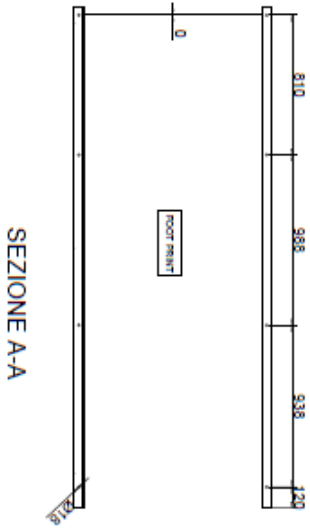
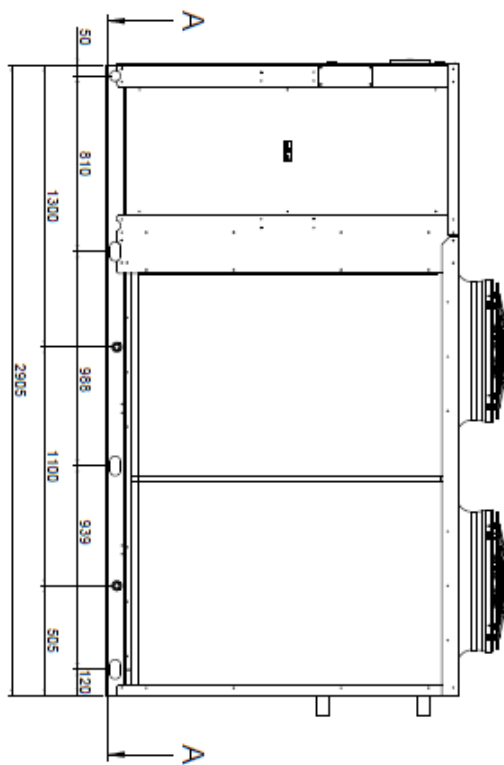
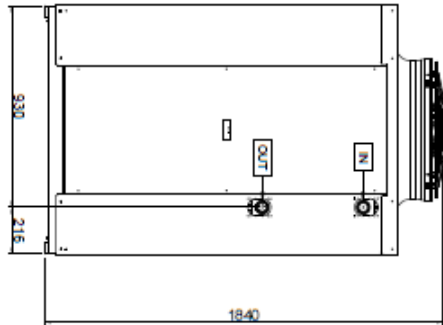
Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

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Dimensions



Clearances

Legend	Unit	Model		
		602	702	802
A	mm	2000	2000	2000
B	mm	1000	1000	1000
C	mm	1000	1000	1000
D	mm	1000	1000	1000
E	mm	3000	3000	3000
F	mm	350	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE AMICUS AIR TO WATER HEAT PUMPS

Model LAHP802LT

Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	74.9
Total Power input (EN14511) ¹	kW	17.2
COP (EN14511) ¹	W/W	4.36
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	155.8
SCOP Low Temperature		3.97
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	64.4
Peak current standard unit	A	173
Fans	n°	2
Compressors/Circuits	n°	2/1
Sound power level ²	dB(A)	78
Sound pressure level ³	dB(A)	46
Flow/Return connections	Inch	2"
Nominal flow rate	L/sec	3.6
Minimum water content in the user circuit	litre	820
DIMENSIONS		
Height	mm	1840
Depth	mm	2905
Width	mm	1146
Weight	Kg	1070

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of www.lochinvar.ltd.uk

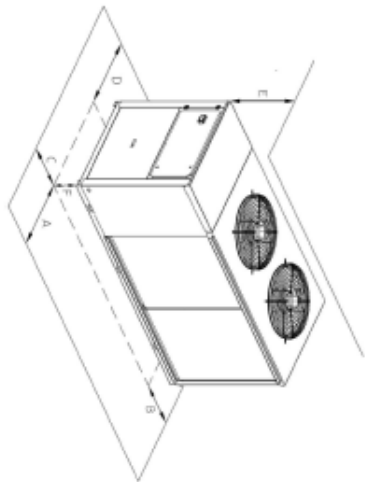
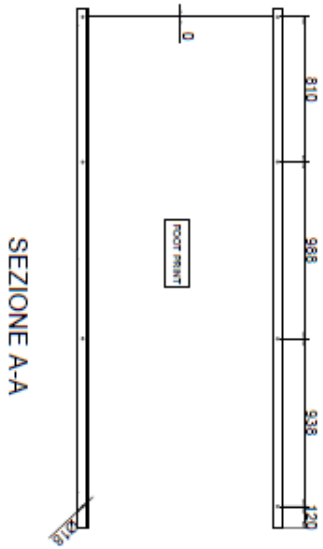
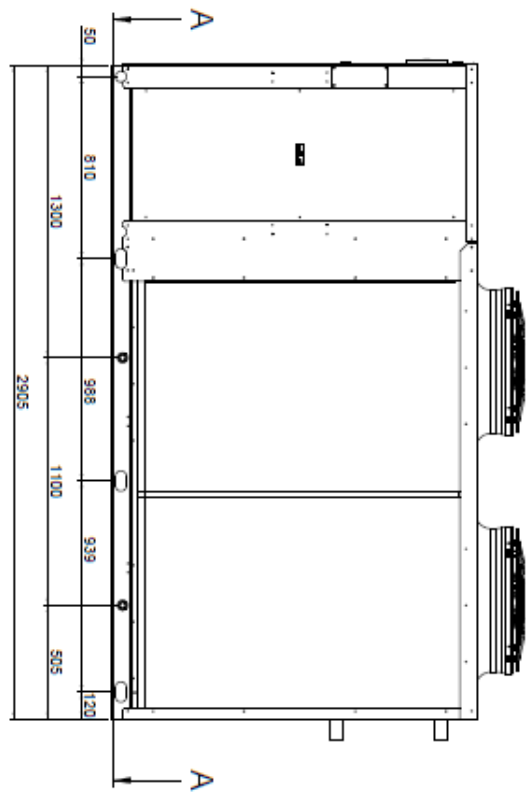
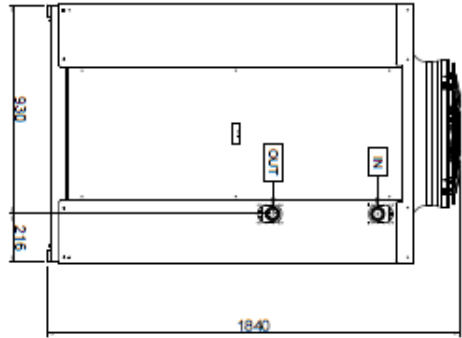
Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at www.lochinvar.ltd.uk

Dimensions



Clearances

Legend	Unit	Model		
		702	802	
A	mm	2000	2000	2000
B	mm	1000	1000	1000
C	mm	1000	1000	1000
D	mm	1000	1000	1000
E	mm	3000	3000	3000
F	mm	350	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE AMICUS AIR TO WATER HEAT PUMPS

Model LAHP902LT

Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	93.2
Total Power input (EN14511) ¹	kW	21.2
COP (EN14511) ¹	W/W	4.4
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	151.7
SCOP Low Temperature		3.87
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	75.8
Peak current standard unit	A	216
Fans	n°	2
Compressors/Circuits	n°	2/1
Sound power level ²	dB(A)	82
Sound pressure level ³	dB(A)	50
Flow/Return connections	Inch	2"
Nominal flow rate	L/sec	4.5
Minimum water content in the user circuit	litre	1000
DIMENSIONS		
Height	mm	1892
Depth	mm	2905
Width	mm	1145
Weight	Kg	1120

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

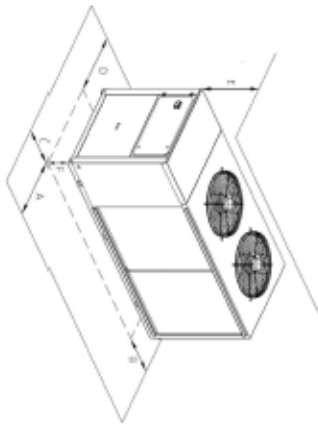
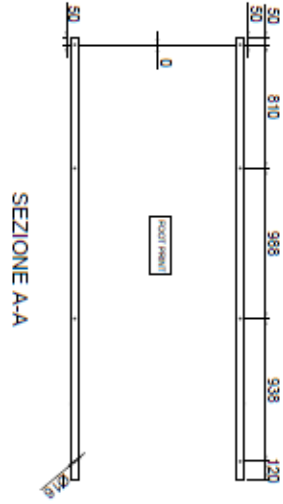
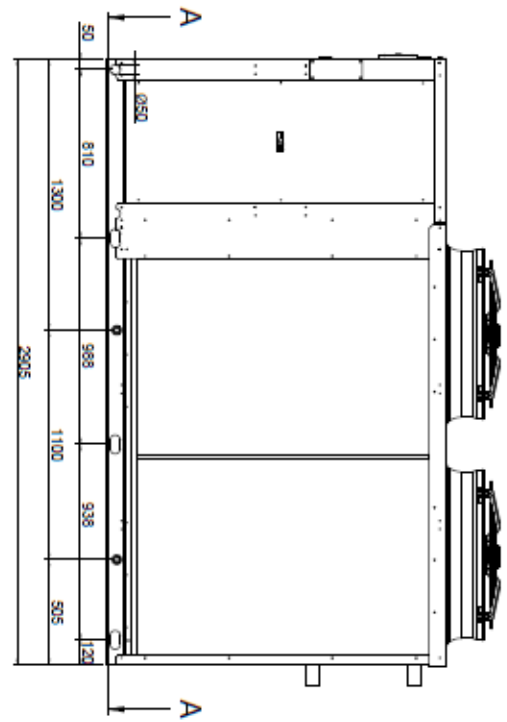
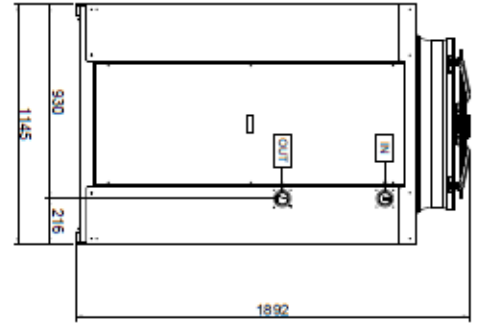
Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of www.lochinvar.ltd.uk

Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at www.lochinvar.ltd.uk



Clearances

Legend	Unit	Model		
		902	1002	1202
A	mm	2000	2000	2000
B	mm	1000	1000	1000
C	mm	1000	1000	1000
D	mm	2000	2000	2000
E	mm	3000	3000	3000
F	mm	350	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE

AMICUS AIR TO WATER HEAT PUMPS

		Model
Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	104.9
Total Power input (EN14511) ¹	kW	24.5
COP (EN14511) ¹	W/W	4.29
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	150.8
SCOP Low Temperature		3.85
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	81.8
Peak current standard unit	A	267
Fans	n°	2
Compressors/Circuits	n°	2/1
Sound power level ²	dB(A)	83
Sound pressure level ³	dB(A)	51
Flow/Return connections	Inch	2"
Nominal flow rate	L/sec	5.0
Minimum water content in the user circuit	litre	1120
DIMENSIONS		
Height	mm	1892
Depth	mm	2905
Width	mm	1145
Weight	Kg	1160

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

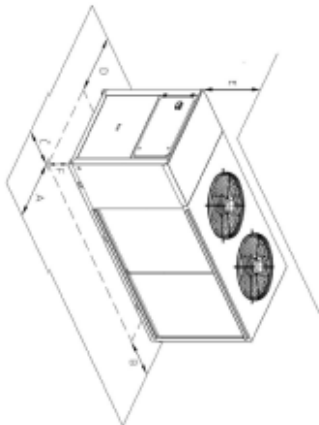
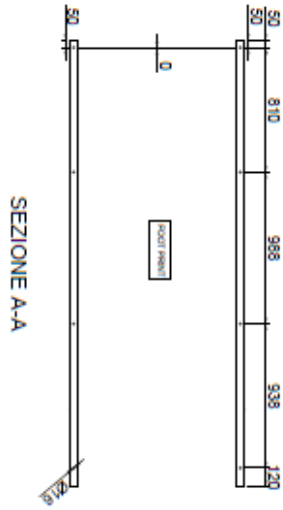
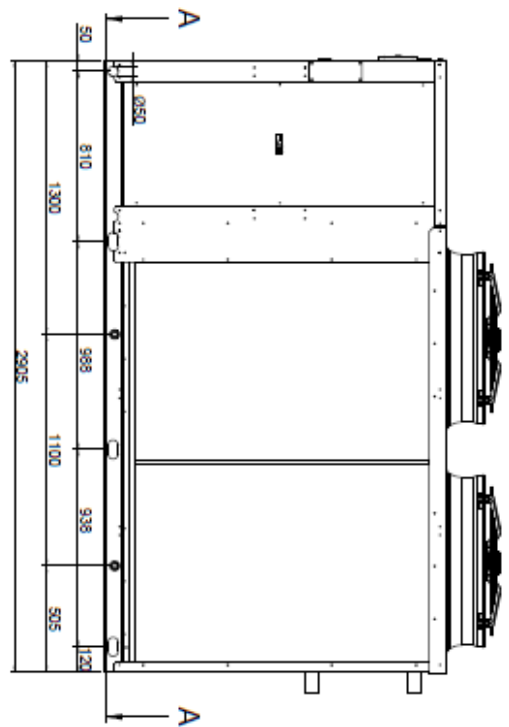
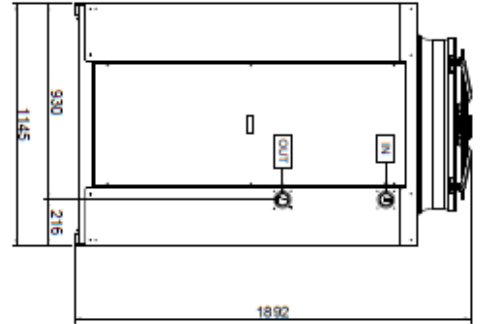
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- Unit start up
- Water quality

ErP and Warranty

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Clearances

Legend	Unit	Model		
		902	1002	1202
A	mm	2000	2000	2000
B	mm	1000	1000	1000
C	mm	1000	1000	1000
D	mm	2000	2000	2000
E	mm	3000	3000	3000
F	mm	350	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE

AMICUS AIR TO WATER HEAT PUMPS

		Model
Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	114.9
Total Power input (EN14511) ¹	kW	27.8
COP (EN14511) ¹	W/W	4.13
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	150.2
SCOP Low Temperature		3.83
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	87.8
Peak current standard unit	A	273
Fans	n°	2
Compressors/Circuits	n°	2/1
Sound power level ²	dB(A)	85
Sound pressure level ³	dB(A)	53
Flow/Return connections	Inch	2"
Nominal flow rate	L/sec	5.5
Minimum water content in the user circuit	litre	1240
DIMENSIONS		
Height	mm	1892
Depth	mm	2905
Width	mm	1145
Weight	Kg	1240

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

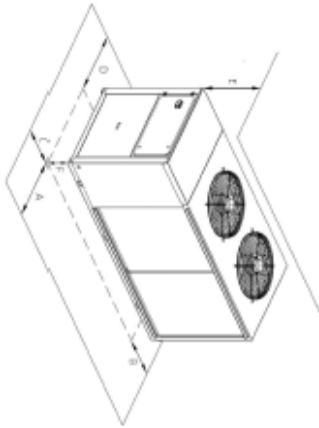
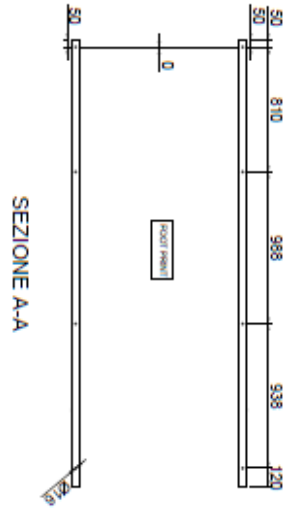
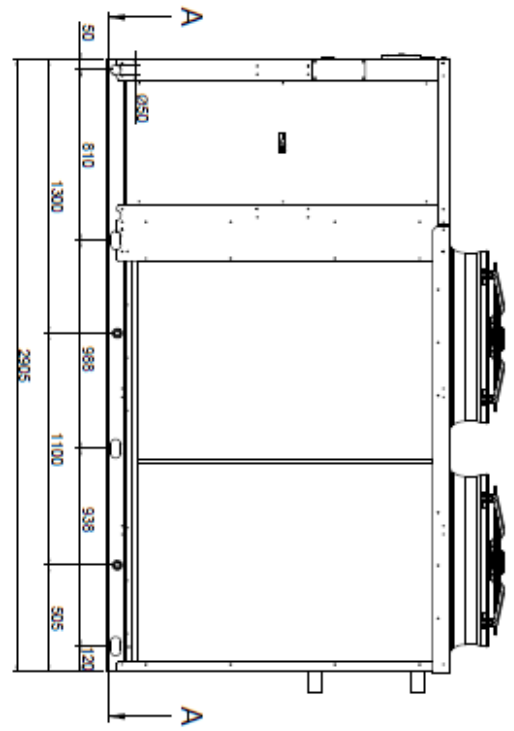
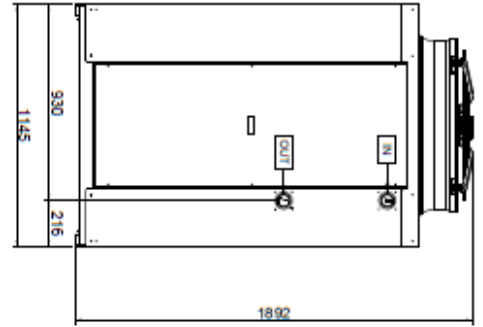
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Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

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Clearances

Legend	Unit	Model		
A	mm	902	1002	1202
B	mm	2000	2000	2000
C	mm	1000	1000	1000
D	mm	1000	1000	1000
E	mm	2000	2000	2000
F	mm	3000	3000	3000
	mm	350	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE

AMICUS AIR TO WATER HEAT PUMPS

		Model LAHP1402LT
Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	137.1
Total Power input (EN14511) ¹	kW	30.9
COP (EN14511) ¹	W/W	4.44
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	151
SCOP Low Temperature		3.85
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	100
Peak current standard unit	A	324
Fans	n°	3
Compressors/Circuits	n°	2/1
Sound power level ²	dB(A)	86
Sound pressure level ³	dB(A)	54
Flow/Return connections	Inch	2½"
Nominal flow rate	L/sec	6.6
Minimum water content in the user circuit	litre	1440
DIMENSIONS		
Height	mm	1894
Depth	mm	3905
Width	mm	1145
Weight	Kg	1560

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

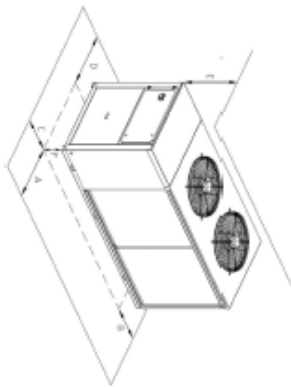
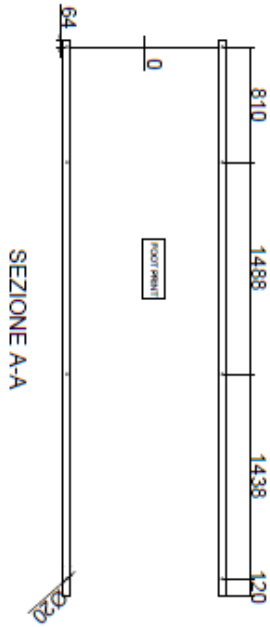
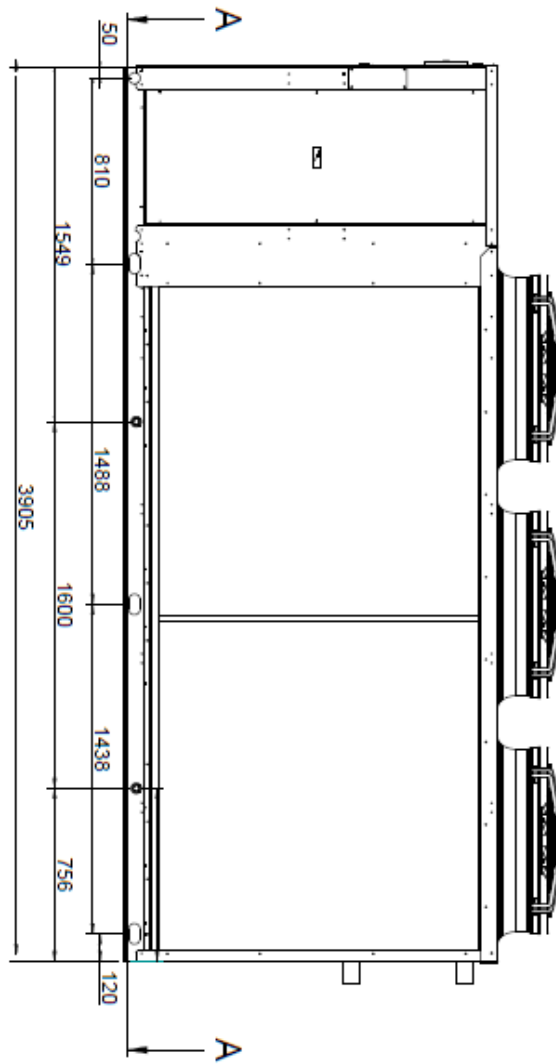
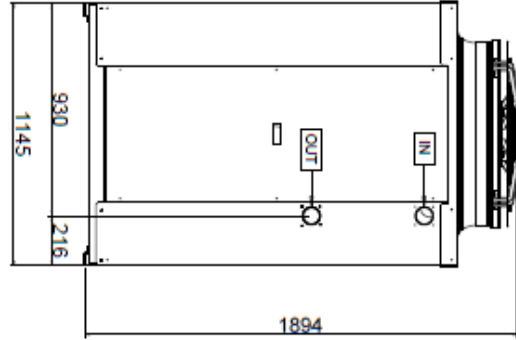
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Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at www.lochinvar.ltd.uk



Clearances

Legend		Model					
	Unit	1402	1602	1802	2002	2000	2000
A	mm	2000	2000	2000	2000	2000	2000
B	mm	1000	1000	1000	1000	1000	1000
C	mm	1000	1000	1000	1500	1500	1500
D	mm	2000	2000	2000	2000	2000	2000
E	mm	3000	3000	3000	3000	3000	3000
F	mm	350	350	350	350	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE

AMICUS AIR TO WATER HEAT PUMPS

		Model
Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	151
Total Power input (EN14511) ¹	kW	34.4
COP (EN14511) ¹	W/W	4.39
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	151.3
SCOP Low Temperature		3.86
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	109
Peak current standard unit	A	332
Fans	n°	3
Compressors/Circuits	n°	2/1
Sound power level ²	dB(A)	87
Sound pressure level ³	dB(A)	55
Flow/Return connections	Inch	2½"
Nominal flow rate	L/sec	7.2
Minimum water content in the user circuit	litre	1600
DIMENSIONS		
Height	mm	1894
Depth	mm	3905
Width	mm	1145
Weight	Kg	1580

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

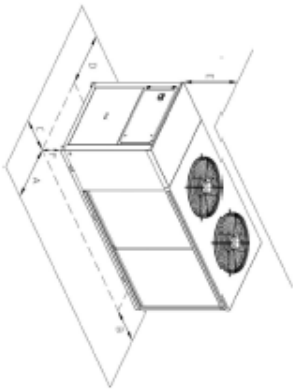
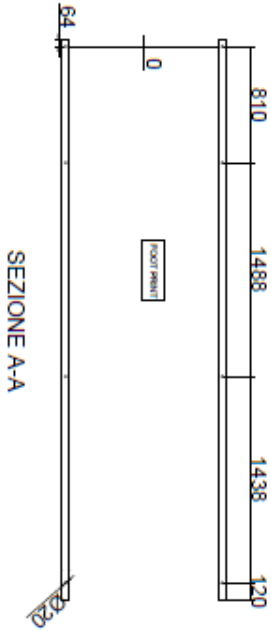
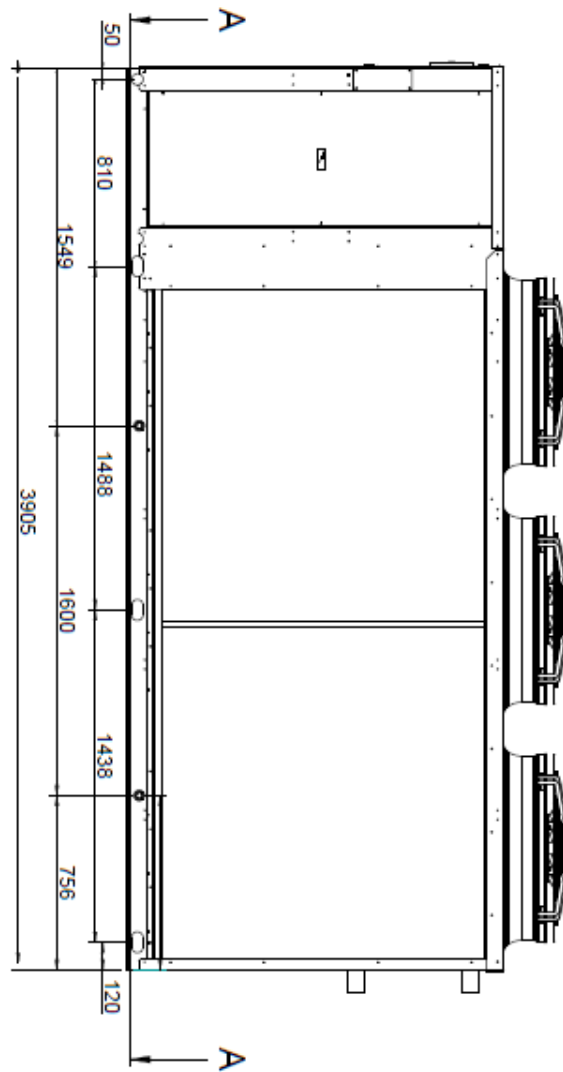
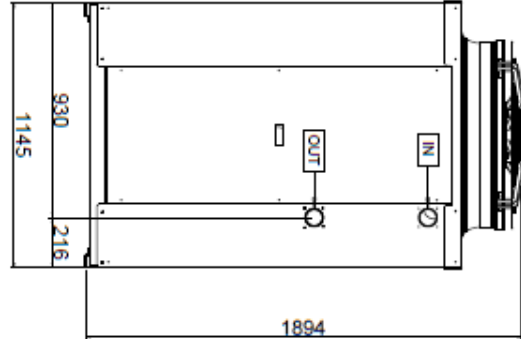
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Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

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Clearances

Legend	Unit	1402	1602	1802	2002
A	mm	2000	2000	2000	2000
B	mm	1000	1000	1000	1000
C	mm	1000	1000	1500	1500
D	mm	2000	2000	2000	2000
E	mm	3000	3000	3000	3000
F	mm	350	350	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE

AMICUS AIR TO WATER HEAT PUMPS

		Model
Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	167.9
Total Power input (EN14511) ¹	kW	40.2
COP (EN14511) ¹	W/W	4.18
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	150.9
SCOP Low Temperature		3.85
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	126
Peak current standard unit	A	370
Fans	n°	3
Compressors/Circuits	n°	2/1
Sound power level ²	dB(A)	87
Sound pressure level ³	dB(A)	55
Flow/Return connections	Inch	2½"
Nominal flow rate	L/sec	8.0
Minimum water content in the user circuit	litre	1800
DIMENSIONS		
Height	mm	1894
Depth	mm	3905
Width	mm	1145
Weight	Kg	1600

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

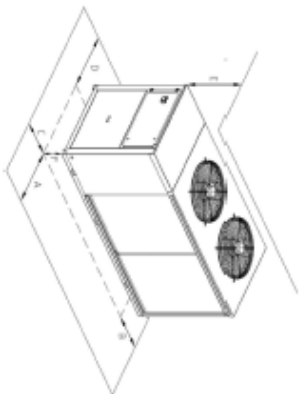
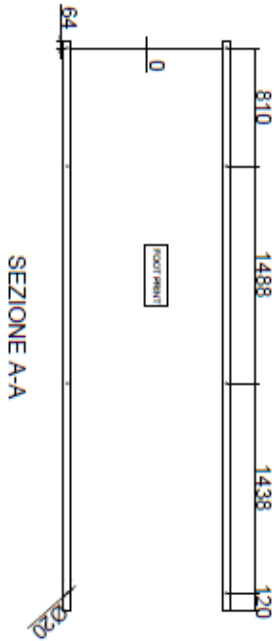
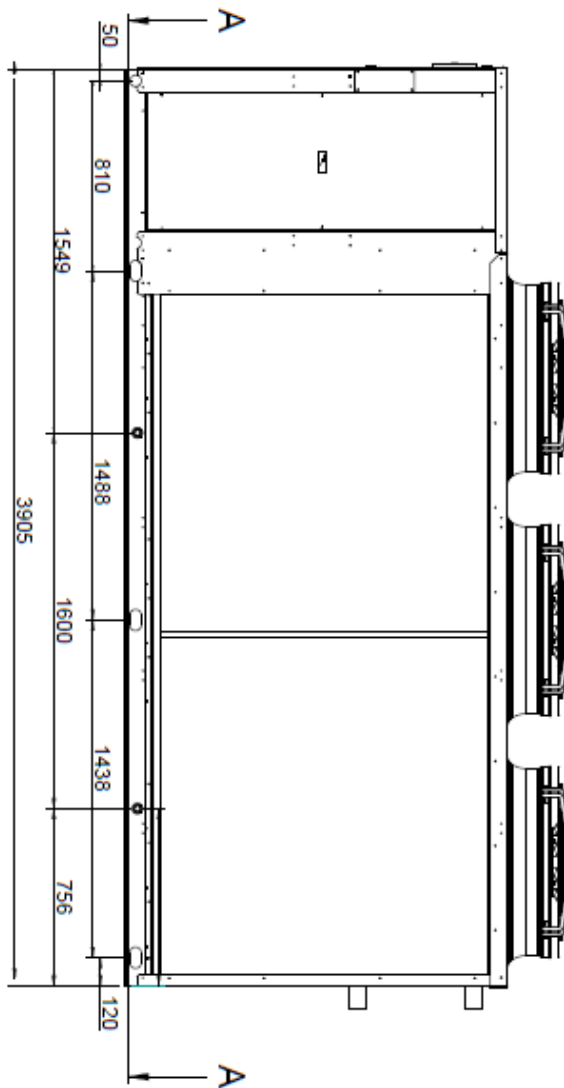
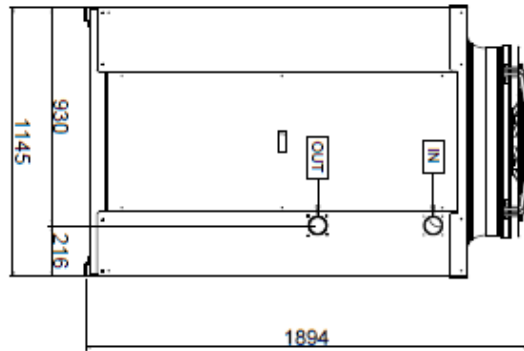
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- Unit start up
- Water quality

ErP and Warranty

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Clearances

Legend	Unit	Model					
		1402	1602	1802	2002	2000	2000
A	mm	2100	2000	2000	2000	2000	2000
B	mm	1000	1000	1000	1000	1000	1000
C	mm	1000	1000	1500	1500	1500	1500
D	mm	2000	2000	2000	2000	2000	2000
E	mm	3000	3000	3000	3000	3000	3000
F	mm	350	350	350	350	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE

AMICUS AIR TO WATER HEAT PUMPS

		Model
Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	182.8
Total Power input (EN14511) ¹	kW	45.5
COP (EN14511) ¹	W/W	4.02
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	150.4
SCOP Low Temperature		3.84
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	142
Peak current standard unit	A	387
Fans	n°	3
Compressors/Circuits	n°	2/1
Sound power level ²	dB(A)	87
Sound pressure level ³	dB(A)	55
Flow/Return connections	Inch	2½"
Nominal flow rate	L/sec	8.8
Minimum water content in the user circuit	litre	1920
DIMENSIONS		
Height	mm	1894
Depth	mm	3905
Width	mm	1145
Weight	Kg	1620

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

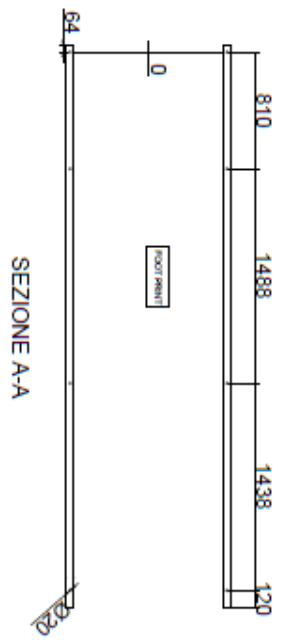
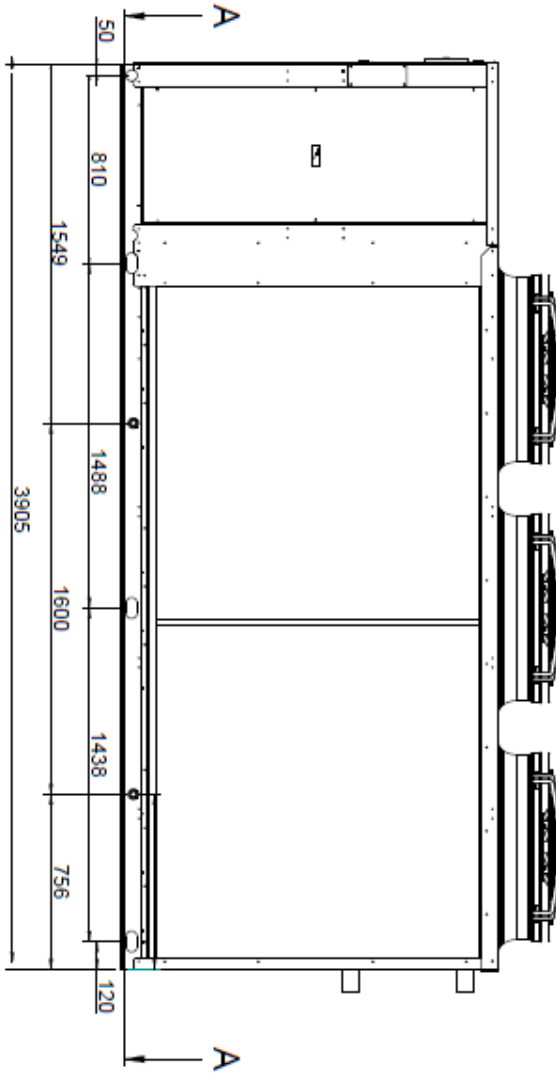
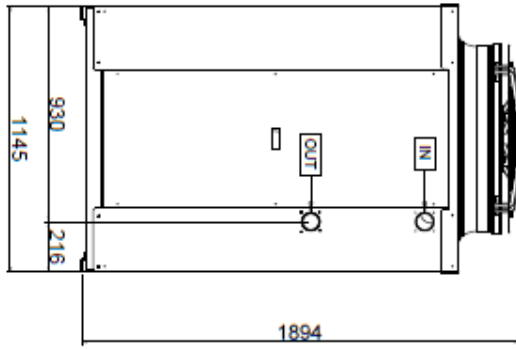
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Particular attention should be made to:-

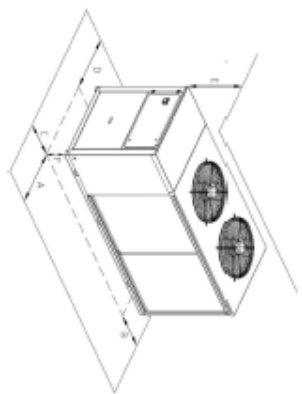
- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

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Clearances



Legend		Model					
	Unit	1402	1602	1802	2002	2002	2002
A	mm	2000	2000	2000	2000	2000	2000
B	mm	1000	1000	1000	1000	1000	1000
C	mm	1000	1000	1500	1500	1500	1500
D	mm	2000	2000	2000	2000	2000	2000
E	mm	3000	3000	3000	3000	3000	3000
F	mm	350	350	350	350	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE

AMICUS AIR TO WATER HEAT PUMPS

		Model
Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	210.6
Total Power input (EN14511) ¹	kW	49.4
COP (EN14511) ¹	W/W	4.26
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	153.6
SCOP Low Temperature		3.92
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	160
Peak current standard unit	A	485
Fans	n°	3
Compressors/Circuits	n°	2/1
Sound power level ²	dB(A)	89
Sound pressure level ³	dB(A)	57
Flow/Return connections	Inch	3"
Nominal flow rate	L/sec	10.2
Minimum water content in the user circuit	litre	2000
DIMENSIONS		
Height	mm	2294
Depth	mm	3905
Width	mm	1145
Weight	Kg	1790

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of www.lochinvar.ltd.uk

Particular attention should be made to:-

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- Unit start up
- Water quality

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Key features:

- Low noise level
- Up to 55°C output

RANGE

AMICUS AIR TO WATER HEAT PUMPS

		Model
Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	241.3
Total Power input (EN14511) ¹	kW	54.8
COP (EN14511) ¹	W/W	4.4
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	155.6
SCOP Low Temperature		3.97
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	177
Peak current standard unit	A	502
Fans	n°	3
Compressors/Circuits	n°	2/1
Sound power level ²	dB(A)	91
Sound pressure level ³	dB(A)	59
Flow/Return connections	Inch	3"
Nominal flow rate	L/sec	11.5
Minimum water content in the user circuit	litre	2200
DIMENSIONS		
Height	mm	2294
Depth	mm	3905
Width	mm	1145
Weight	Kg	1820

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

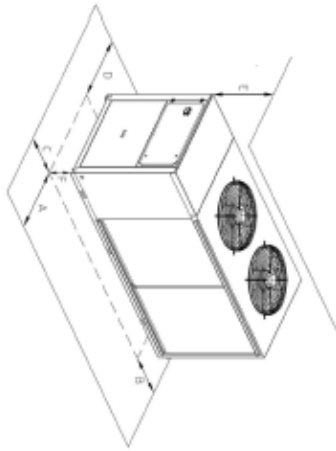
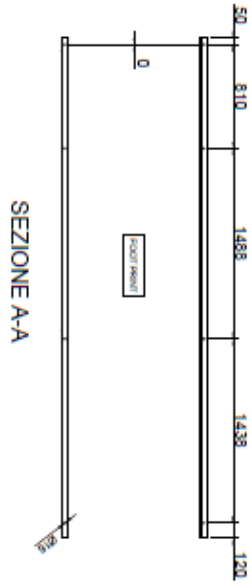
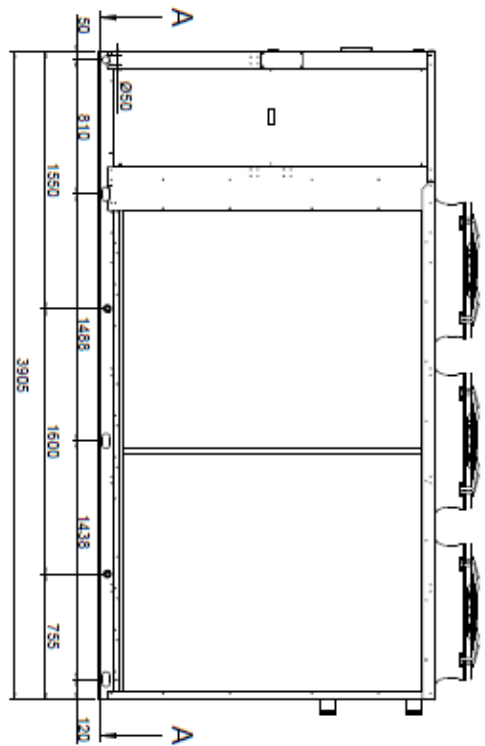
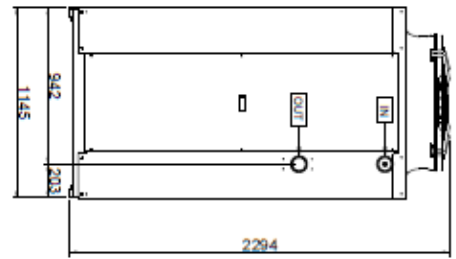
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- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

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Clearances

Legend	Unit	Model	
		2302	2502
A	mm	2000	2000
B	mm	1000	1000
C	mm	1500	1500
D	mm	2000	2000
E	mm	3000	3000
F	mm	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE

AMICUS AIR TO WATER HEAT PUMPS

		Model
Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	241.3
Total Power input (EN14511) ¹	kW	54.8
COP (EN14511) ¹	W/W	4.4
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	155.6
SCOP Low Temperature		3.97
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	177
Peak current standard unit	A	502
Fans	n°	3
Compressors/Circuits	n°	2/1
Sound power level ²	dB(A)	91
Sound pressure level ³	dB(A)	59
Flow/Return connections	Inch	3"
Nominal flow rate	L/sec	11.5
Minimum water content in the user circuit	litre	2200
DIMENSIONS		
Height	mm	2294
Depth	mm	3905
Width	mm	1145
Weight	Kg	1820

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

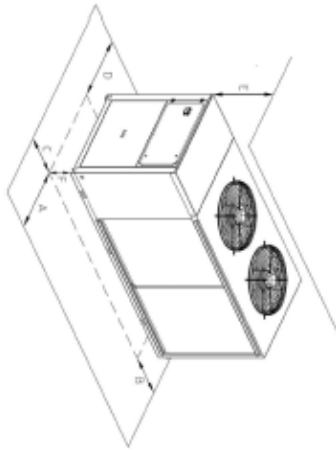
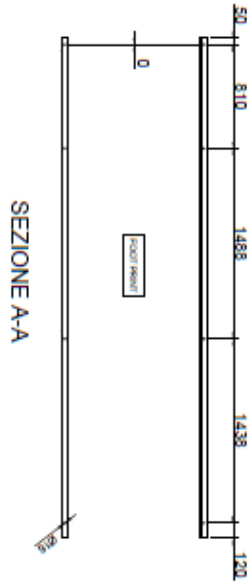
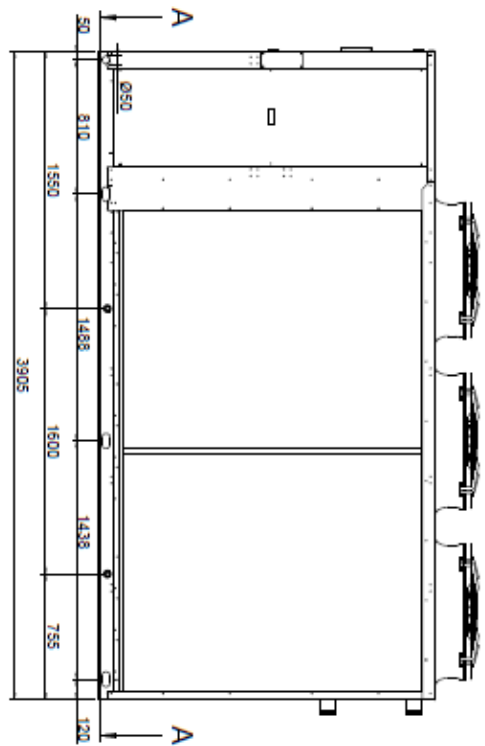
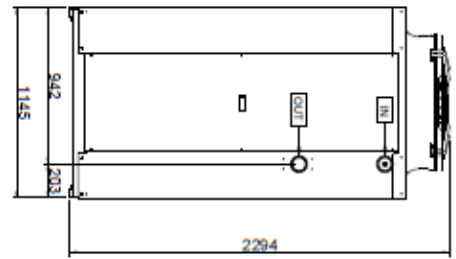
Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of www.lochinvar.ltd.uk

Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at www.lochinvar.ltd.uk



Clearances

Legend	Unit	Model	
		2302	2502
A	mm	2000	2000
B	mm	1000	1000
C	mm	1500	1500
D	mm	2000	2000
E	mm	3000	3000
F	mm	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE

AMICUS AIR TO WATER HEAT PUMPS

		Model
Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	229.4
Total Power input (EN14511) ¹	kW	55.8
COP (EN14511) ¹	W/W	4.11
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	150.2
SCOP Low Temperature		3.83
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	176
Peak current standard unit	A	361
Fans	n°	4
Compressors/Circuits	n°	4/2
Sound power level ²	dB(A)	88
Sound pressure level ³	dB(A)	56
Flow/Return connections	Inch	3"
Nominal flow rate	L/sec	11.0
Minimum water content in the user circuit	litre	1230
DIMENSIONS		
Height	mm	2356
Depth	mm	4205
Width	mm	2190
Weight	Kg	3170

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

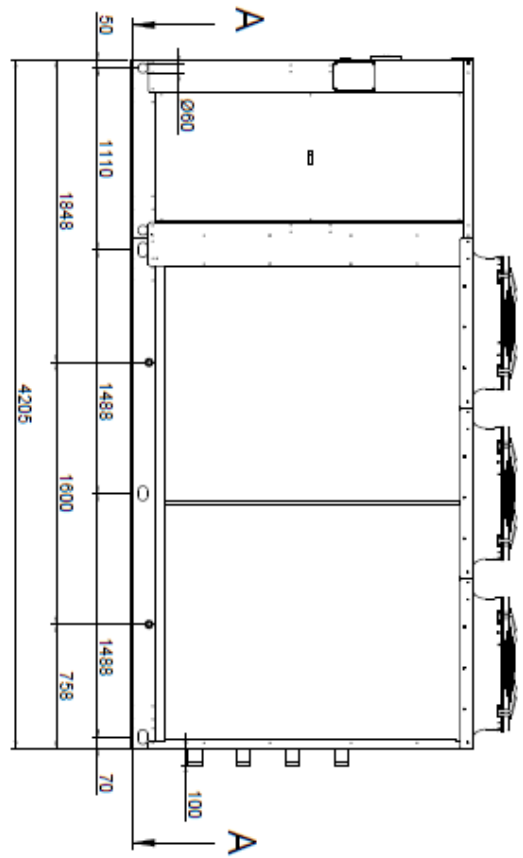
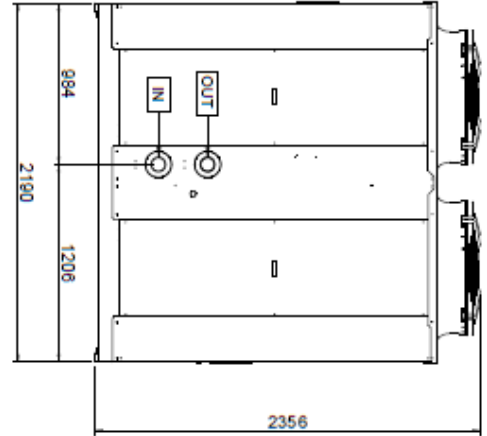
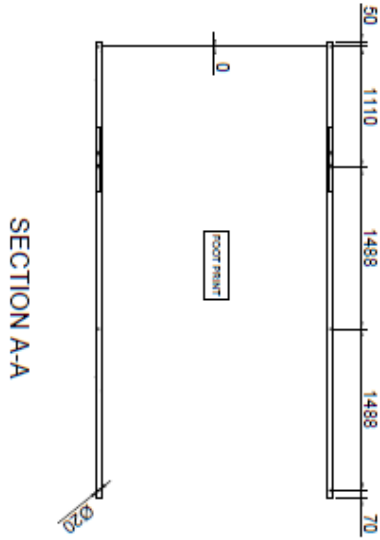
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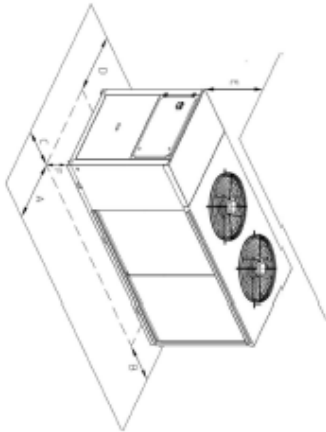
- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at www.lochinvar.ltd.uk



Clearances



Legend	Unit	Model
A	mm	3004 2000 3004 2000 3004 2000
B	mm	3000 1000 3000 1000 3000 1000
C	mm	1500 1500 1500 1500 1500 1500
D	mm	2000 2000 2000 2000 2000 2000
E	mm	3000 3000 3000 3000 3000 3000
F	mm	350 350 350 350 350 350

Key features:

- Low noise level
- Up to 55°C output

RANGE

AMICUS AIR TO WATER HEAT PUMPS

		Model
Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	271.4
Total Power input (EN14511) ¹	kW	63.90
COP (EN14511) ¹	W/W	4.25
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	151.1
SCOP Low Temperature		3.85
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	200
Peak current standard unit	A	424
Fans	n°	6
Compressors/Circuits	n°	4/2
Sound power level ²	dB(A)	89
Sound pressure level ³	dB(A)	57
Flow/Return connections	Inch	3
Nominal flow rate	L/sec	12.9
Minimum water content in the user circuit	litre	1400
DIMENSIONS		
Height	mm	2356
Depth	mm	4205
Width	mm	2190
Weight	Kg	3220

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

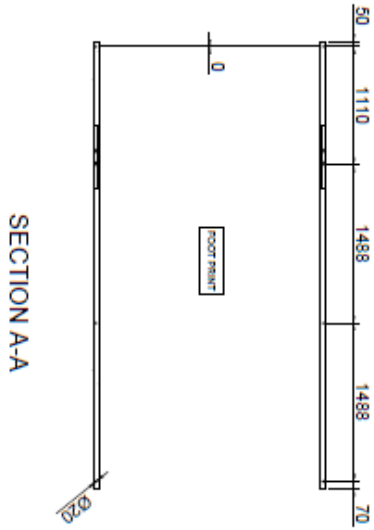
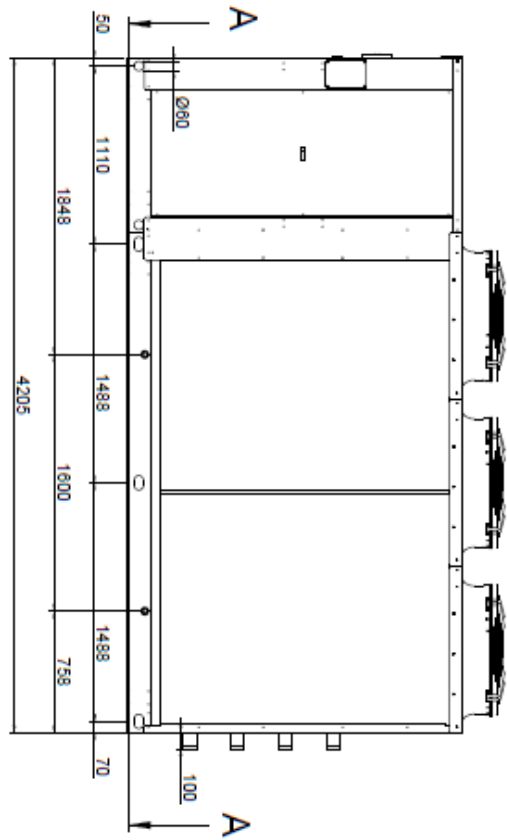
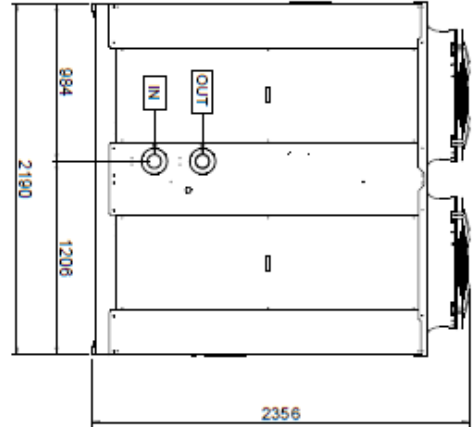
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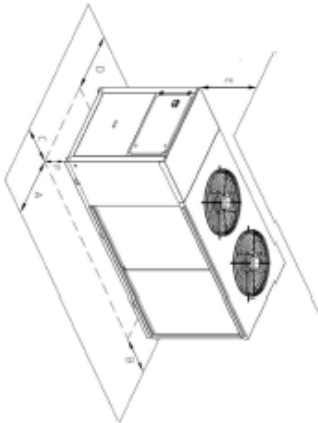
- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at www.lochinvar.ltd.uk



Clearances



Legend	Unit	2504	3004	3204	3524
A	mm	2000	2000	2000	2000
B	mm	1000	1000	1000	1000
C	mm	1500	1500	1500	1500
D	mm	2000	2000	2000	2000
E	mm	3000	3000	3000	3000
F	mm	350	350	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE

AMICUS AIR TO WATER HEAT PUMPS

		Model
Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	296.7
Total Power input (EN14511) ¹	kW	71.5
COP (EN14511) ¹	W/W	4.15
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	150.3
SCOP Low Temperature		3.83
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	217
Peak current standard unit	A	441
Fans	n°	6
Compressors/Circuits	n°	4/2
Sound power level ²	dB(A)	90
Sound pressure level ³	dB(A)	58
Flow/Return connections	Inch	4"
Nominal flow rate	L/sec	14.2
Minimum water content in the user circuit	litre	1530
DIMENSIONS		
Height	mm	2356
Depth	mm	4205
Width	mm	2190
Weight	Kg	3270

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

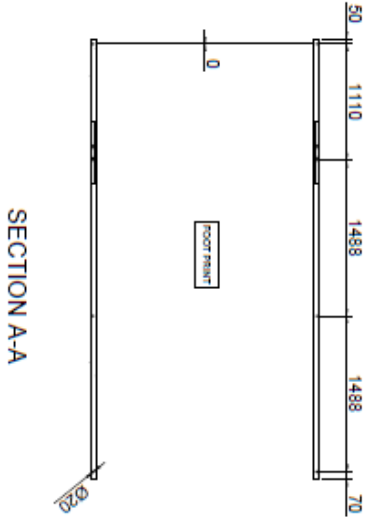
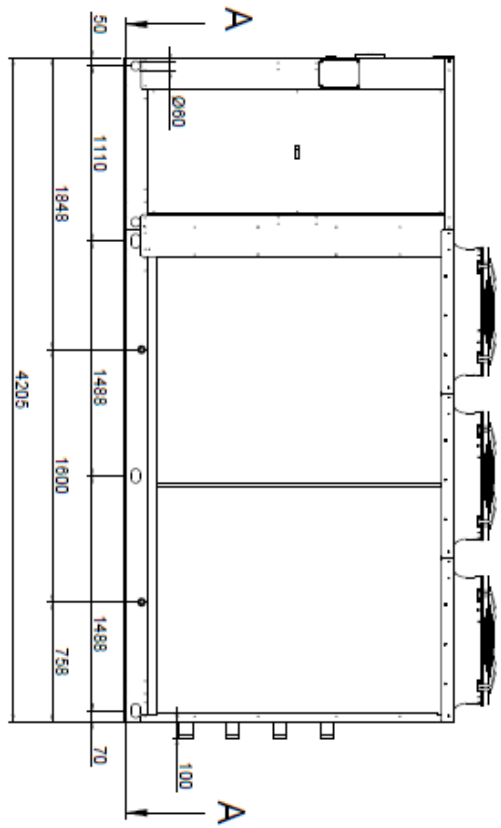
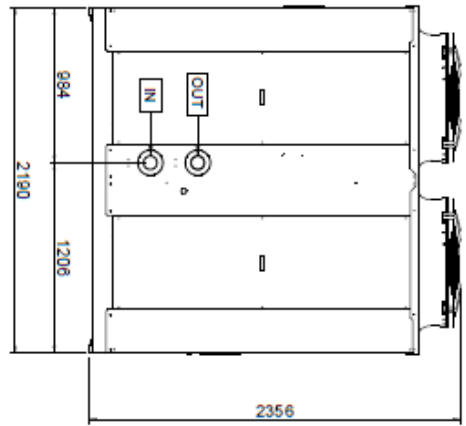
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Particular attention should be made to:-

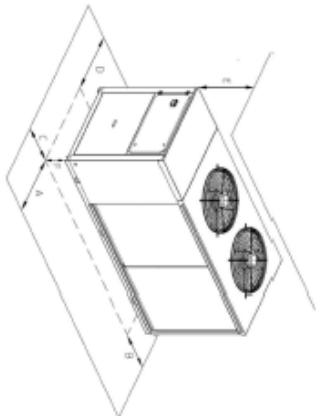
- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at www.lochinvar.ltd.uk



SECTION A-A



Clearances

Legend	Unit	Model							
		3504	3004	3004	3204	3204	3504	3504	3504
A	mm	2000	2000	2000	2000	2000	2000	2000	2000
B	mm	1000	1000	1000	1000	1000	1000	1000	1000
C	mm	1500	1500	1500	1500	1500	1500	1500	1500
D	mm	2000	2000	2000	2000	2000	2000	2000	2000
E	mm	3000	3000	3000	3000	3000	3000	3000	3000
F	mm	350	350	350	350	350	350	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE

AMICUS AIR TO WATER HEAT PUMPS

		Model
Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	339
Total Power input (EN14511) ¹	kW	83.7
COP (EN14511) ¹	W/W	4.05
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	153.5
SCOP Low Temperature		3.91
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	251
Peak current standard unit	A	496
Fans	n°	6
Compressors/Circuits	n°	4/2
Sound power level ²	dB(A)	90
Sound pressure level ³	dB(A)	58
Flow/Return connections	Inch	4"
Nominal flow rate	L/sec	16.2
Minimum water content in the user circuit	litre	1700
DIMENSIONS		
Height	mm	2356
Depth	mm	4205
Width	mm	2190
Weight	Kg	3320

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

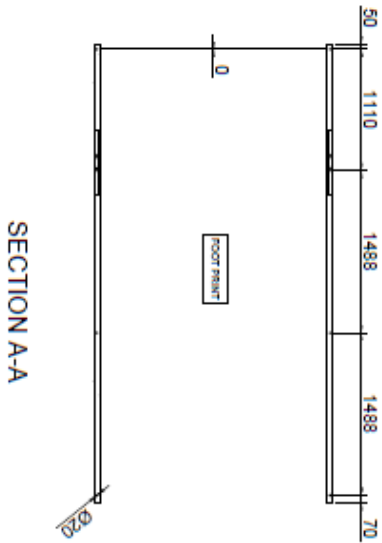
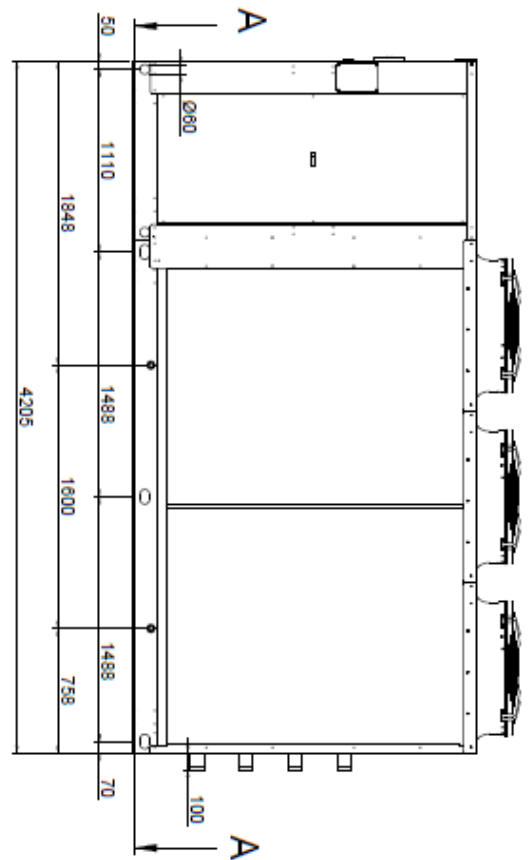
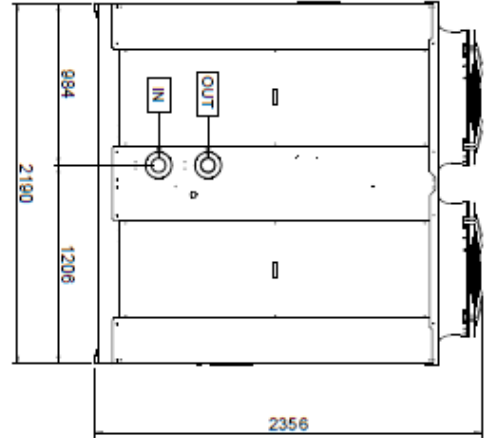
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Particular attention should be made to:-

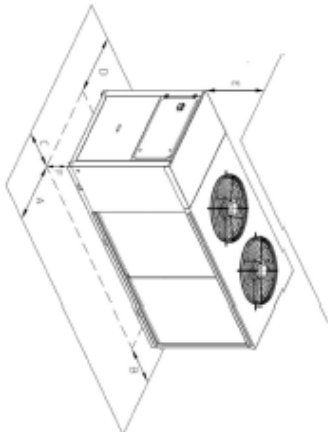
- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at www.lochinvar.ltd.uk



Clearances



Legend	Unit	Model			
A	mm	2504	3004	3104	3504
B	mm	2000	2000	2000	2000
C	mm	1000	1000	1000	1000
D	mm	1500	1500	1500	1500
E	mm	2000	2000	2000	2000
F	mm	350	350	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE		Model
AMICUS AIR TO WATER HEAT PUMPS		LAHP-4004LT
Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	364.9
Total Power input (EN14511) ¹	kW	88.8
COP (EN14511) ¹	W/W	4.11
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	152.4
SCOP Low Temperature		3.89
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	285
Peak current standard unit	A	530
Fans	n°	6
Compressors/Circuits	n°	4/2
Sound power level ²	dB(A)	90
Sound pressure level ³	dB(A)	58
Flow/Return connections	Inch	5"
Nominal flow rate	L/sec	17.7
Minimum water content in the user circuit	litre	1970
DIMENSIONS		
Height	mm	2371
Depth	mm	4805
Width	mm	2190
Weight	Kg	3660

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

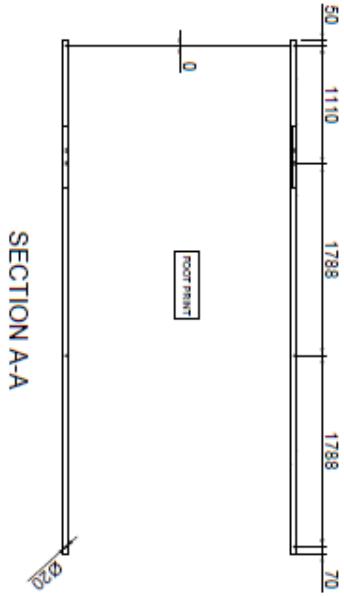
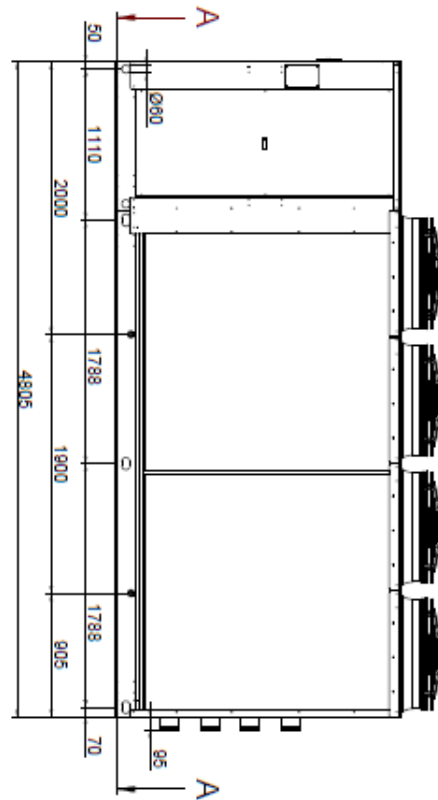
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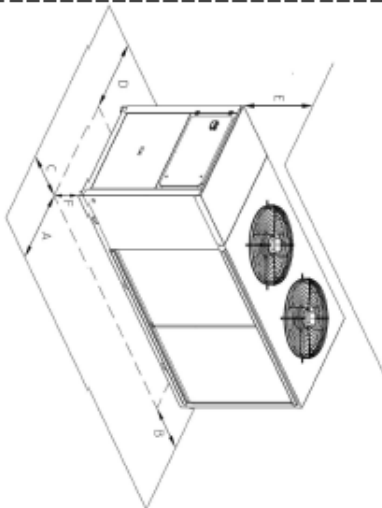
- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

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Clearances



Legend	Unit	Models		
		4004	4504	5004
A	mm	2000	2000	2000
B	mm	1000	1000	1000
C	mm	1500	1500	1500
D	mm	2000	2000	2000
E	mm	3000	3000	3000
F	mm	350	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE

AMICUS AIR TO WATER HEAT PUMPS

		Model
Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	407
Total Power input (EN14511) ¹	kW	104.1
COP (EN14511) ¹	W/W	3.91
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	151.9
SCOP Low Temperature		3.87
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	327
Peak current standard unit	A	653
Fans	n°	8
Compressors/Circuits	n°	4/2
Sound power level ²	dB(A)	92
Sound pressure level ³	dB(A)	60
Flow/Return connections	Inch	5"
Nominal flow rate	L/sec	19.9
Minimum water content in the user circuit	litre	2240
DIMENSIONS		
Height	mm	2371
Depth	mm	4805
Width	mm	2190
Weight	Kg	3720

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

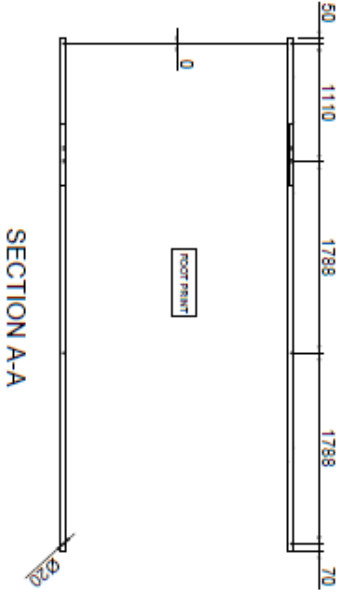
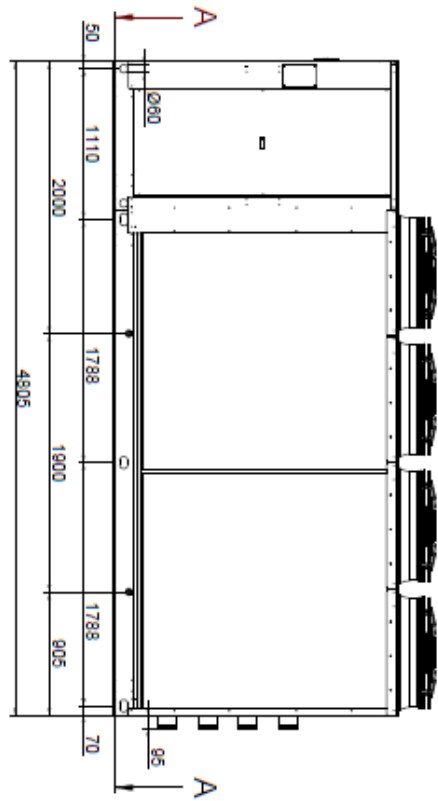
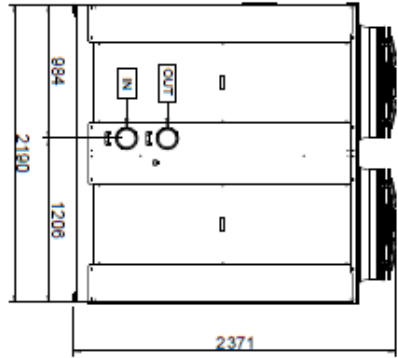
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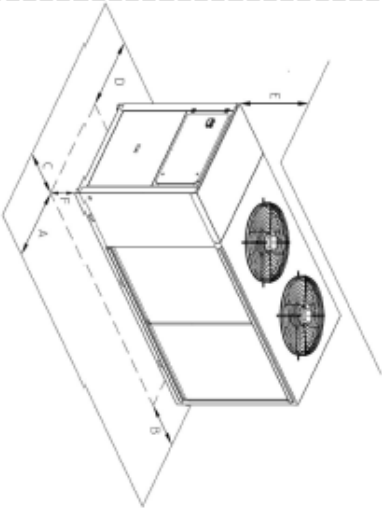
- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

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Clearances



Legend	Unit	Models		
		4004	4504	5004
A	mm	2000	2000	2000
B	mm	1000	1000	1000
C	mm	1500	1500	1500
D	mm	2000	2000	2000
E	mm	3000	3000	3000
F	mm	350	350	350

Key features:

- Low noise level
- Up to 55°C output

RANGE

AMICUS AIR TO WATER HEAT PUMPS

		Model
Refrigerant		R410A
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) ¹	kW	463.7
Total Power input (EN14511) ¹	kW	115.1
COP (EN14511) ¹	W/W	4.03
EFFICIENCY DATA -ErP and Energy Label		
EcoDesign Energy Label Rating	LT	A++
Seasonal Efficiency Low temperature	%	151.5
SCOP Low Temperature		3.86
GENERAL		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input current standard unit	A	362
Peak current standard unit	A	687
Fans	n°	8
Compressors/Circuits	n°	4/2
Sound power level ²	dB(A)	92
Sound pressure level ³	dB(A)	60
Flow/Return connections	Inch	5"
Nominal flow rate	L/sec	22.4
Minimum water content in the user circuit	litre	2420
DIMENSIONS		
Height	mm	2371
Depth	mm	4805
Width	mm	2190
Weight	Kg	3780

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

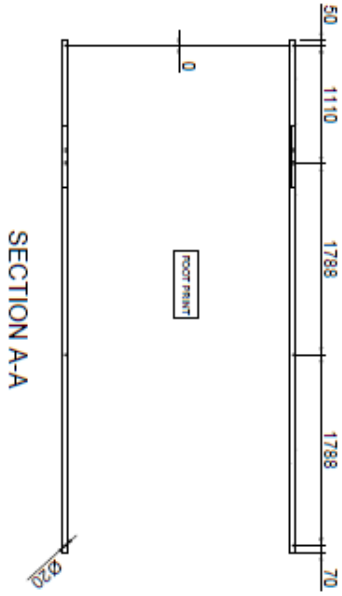
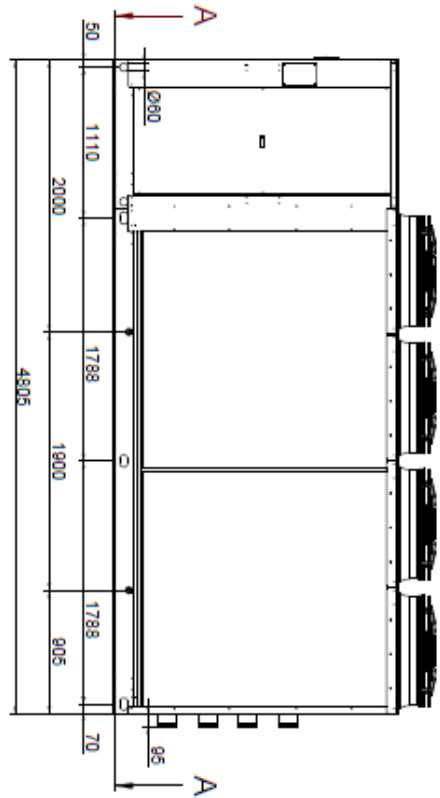
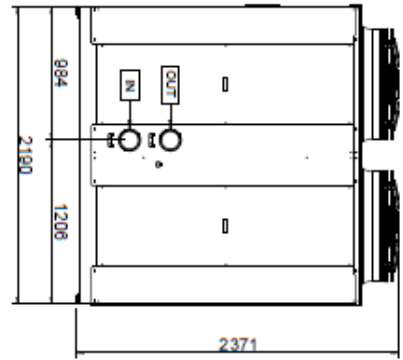
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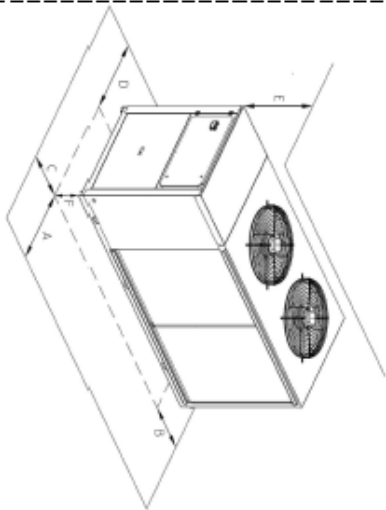
- Dimensions and clearances
- Unit start up
- Water quality

ErP and Warranty

ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at www.lochinvar.ltd.uk



Clearances



Legend	Unit	Models		
		4004	4504	5004
A	mm	2000	2000	2000
B	mm	1000	1000	1000
C	mm	1500	1500	1500
D	mm	2000	2000	2000
E	mm	3000	3000	3000
F	mm	350	350	350