

TECHNICAL PRODUCT SUBMITTAL

AMICUS LAHP-2302LTS AIR SOURCE HEAT PUMP



Heating Data ¹		
Heating Capacity (EN14511)	kW	210.6
Total Power input (EN14511)	kW	49.4
COP (EN14511)	W/W	4.26
Nominal flow rate	m ³ /h	36.77
Pressure drop across the heat pump	kPa	56.8
Design air flow rate	m ³ /h	63817
EcoDesign data ²		
Energy Label Rating Low temperature		A++
SCOP Low Temperature		3.92
Seasonal Efficiency Low temperature	%	153.6
Cooling Data (RV units only) ³		
Cooling Capacity (EN14511)	kW	181
Total Power input (EN14511)	kW	65.7
EER (EN14511)	W/W	2.75
Nominal flow rate	m ³ /h	31
Pressure drop across the heat pump	kPa	41.1
Design air flow rate	m ³ /h	65032
General		
Refrigerant type		R410A
Compressor Type		Scroll
Number of Compressors		2
Number of Circuits		1
Capacity steps		2
Minimum capacity step	%	50
Electrical Data		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input power	kW	87
Maximum input current standard unit	A	157
Peak input current standard unit	A	402
Peak input current unit with soft start option fitted	A	319
Fuse rating (delayed)	A	250
Optional Hydraulic kit input power	kW	3
Optional Hydraulic kit maximum input current	A	6.33
Fans		
Fan type (standard unit)		Axial
Number of fans (standard unit)		3
Air flow rate for design	m ³ /h	68320
Sound power level ²	dB(A)	89
Sound pressure level ³	dB(A)	57

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LAHP-2302LTS			Heating OUT					Max outlet	
Water Delivery Temperature		35C	40C	45C	50C	55C	59C		
performance data	-10	Heat Output (KW)	113.0	111.0	110.0	N/A	N/A	N/A	45c
		Efficiency COP	2.3	2.1	1.8	N/A	N/A	N/A	
	-7	Heat Output (KW)	123.0	121.0	119.0	N/A	N/A	N/A	45c
		Efficiency COP	2.5	2.2	2.0	N/A	N/A	N/A	
	-5	Heat Output (KW)	130.0	127.0	124.0	122.0	N/A	N/A	50c
		Efficiency COP	2.6	2.3	2.1	1.8	N/A	N/A	
	-4	Heat Output (KW)	133.0	130.0	127.0	124.0	N/A	N/A	50c
		Efficiency COP	2.7	2.4	2.1	1.9	N/A	N/A	
	-3	Heat Output (KW)	137.0	134	133	132.0	N/A	N/A	50c
		Efficiency COP	2.8	2.46	2.22	2.0	N/A	N/A	
	-2	Heat Output (KW)	144.0	141.0	139.0	138.0	N/A	N/A	50c
		Efficiency COP	2.9	2.6	2.3	2.1	N/A	N/A	
	0	Heat Output (KW)	158.0	156.0	153.0	152.0	150.0	N/A	55c
		Efficiency COP	3.2	2.9	2.6	2.3	2.1	N/A	
	5	Heat Output (KW)	195.0	193.0	191.0	189.0	186.0	N/A	55c
		Efficiency COP	3.9	3.5	3.2	2.9	2.6	N/A	
10	Heat Output (KW)	228.0	224.0	219.0	214.0	210.0	208.0	59c	
	Efficiency COP	4.7	4.2	3.7	3.3	3.0	2.7		
15	Heat Output (KW)	256.0	250.0	244.0	238.0	233.0	229	59c	
	Efficiency COP	5.3	4.7	4.2	3.7	3.3	3		
20	Heat Output (KW)	280.0	273.0	266.0	259.0	253.0	248.0	59c	
	Efficiency COP	5.7	5.1	4.6	4.0	3.6	3.2		

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

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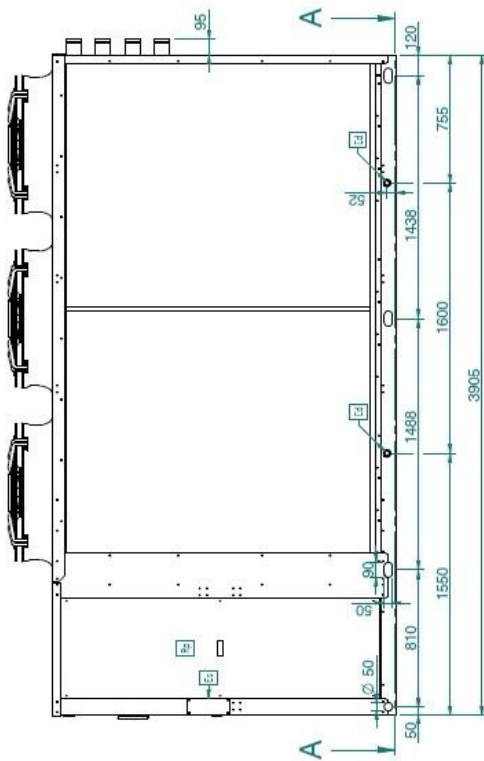
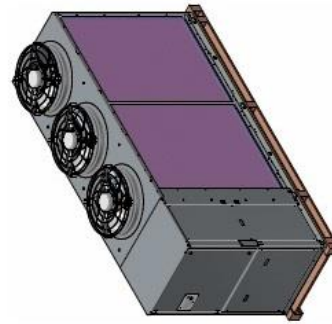
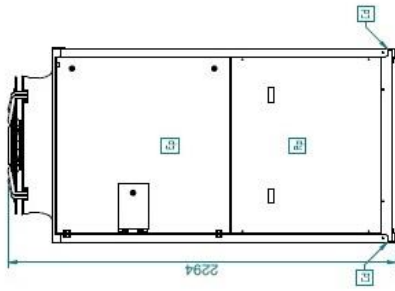
Model	Octave band (Hz)								Lw		Lp
	63	125	250	500	1K	2K	4K	8K	Db	dB(A)	dB(A)
	dB	dB	dB	dB	dB	dB	dB	dB			
242	86.1	77.3	71.2	69.7	68.6	63.2	59.8	50.7	86.9	78	46
292	87.1	78.3	72.2	70.7	69.6	64.2	60.8	51.7	87.9	79	47
412	87.1	78.3	72.2	70.7	69.6	64.2	60.8	51.7	87.9	74	42
432	88.1	79.3	73.2	71.7	70.6	65.2	61.8	52.7	88.9	80	48
492	89.1	80.3	74.2	72.7	71.6	66.2	62.8	53.7	89.9	79	47
602	89.1	80.3	74.2	72.7	71.6	66.2	62.8	53.7	89.9	80	48
702	90.1	81.3	75.2	73.7	72.6	67.2	63.8	54.7	90.9	81	49
802	91.1	82.3	76.2	74.7	73.6	68.2	64.8	55.7	91.9	82	50
902	95.1	86.3	80.2	78.7	77.6	72.2	68.8	59.7	95.9	86	54
1002	96.1	87.3	81.2	79.7	78.6	73.2	69.8	60.7	96.9	87	55
1202	98.1	89.3	83.2	81.7	80.6	75.2	71.8	62.7	98.9	88	56
1402	99.1	90.3	84.2	82.7	81.6	76.2	72.8	63.7	99.9	89	58
1602	100.1	91.3	85.2	83.7	82.6	77.2	73.8	64.7	100.9	89	57
1802	100.1	91.3	85.2	83.7	82.6	77.2	73.8	64.7	100.9	90	58
2002	100.1	91.3	85.2	83.7	82.6	77.2	73.8	64.7	100.9	90	58
2302	102.1	93.3	87.2	85.7	84.6	79.2	75.8	66.7	102.9	92	60
2502	104.1	95.3	89.2	87.7	85.6	81.2	77.8	68.7	104.9	93	61
2504	101.1	92.3	86.2	84.7	83.6	78.2	74.8	65.7	101.9	91	59
3004	102.1	93.3	87.2	85.7	84.6	79.2	75.8	66.7	102.9	92	60
3204	103.1	94.3	88.2	86.7	85.6	80.2	76.8	67.7	103.9	92	60
3504	103.1	94.3	88.2	86.7	85.6	80.2	76.8	67.7	103.9	93	61
4004	103.1	94.3	88.2	86.7	85.6	80.2	76.8	67.7	103.9	94	64
4504	105.1	96.3	90.2	88.7	87.6	82.2	78.8	69.7	105.9	96	64
5004	105.1	96.3	90.2	88.7	87.6	82.2	78.8	69.7	105.9	94	62

Lw: sound power level according to ISO 3744

Lp: sound pressure level at 10mtrs from unit in free field conditions, direction factor Q=2 according to ISO 3744

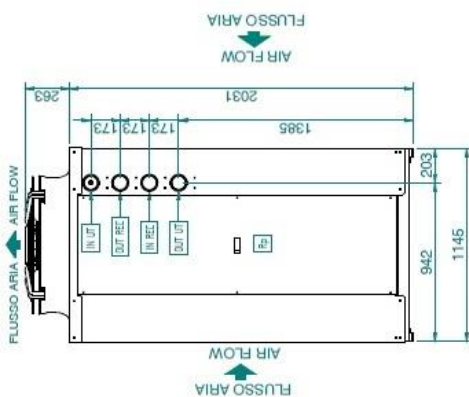
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IMPRONTA A TERRA
FOOT PRINT

SEZIONE A-A



Rp	2302_2502 HAVE LEVEL
Ep	PANNELLO ASPORTABILE - REMOVABLE PANEL
Es	QUADRO ELETTRICO - ELECTRICAL PANEL
Ed	INGRESSO ALIMENTAZIONE ELETTRICA - POWER SUPPLY INLET
Id	SCARICO CONDENSA - CONDENSATE DRAIN
IN UT	INGRESSO ACQUA UTENTE - USER WATER INLET
OUT UT	USCITA ACQUA UTENTE - USER WATER OUTLET
IN REC	INGRESSO ACQUA RECUPERO - RECOVERY WATER INLET
OUT REC	USCITA ACQUA RECUPERO - RECOVERY WATER OUTLET