

TECHNICAL PRODUCT SUBMITTAL

AMICUS LAHP-1804WWS BOOST HEAT PUMP

Heating Data		
Heating Capacity (EN14511) ¹	kW	323
Total Power input (EN14511) ¹	kW	67.9
COP (EN14511) ¹	W/W	4.76
Nominal flow rate	m ³ /h	44.21
Pressure drop across the heat pump	kPa	12.2
EcoDesign data		
EcoDesign Energy Label Rating	LT/HT	A++/A++
SCOP Low Temperature		5.95
Seasonal Efficiency High temperature	%	181
General Data		
Refrigerant type		R134A
Compressor Type		Scroll
Number of Compressors		4
Number of Circuits		2
Capacity steps		4
Minimum capacity step	%	25
Electrical Data		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input power	kW	95.6
Maximum input current standard unit	A	172
Peak input current standard unit	A	354
Peak input current with soft start option fitted	A	264
Fuse rating (delayed)	A	315
Fans		
Sound power level	dB(A)	88
Sound pressure level	dB(A)	56

Model	Octave band (Hz)								Lw		Lp
	63	125	250	500	1K	2K	4K	8K			
	dB	dB	dB	dB	dB	dB	dB	dB	Db	dB(A)	dB(A)
302	78.1	69.3	63.2	61.7	60.6	55.2	51.8	42.7	78.9	65	49
402	78.1	69.3	63.2	61.7	60.6	55.2	51.8	42.7	78.9	65	49
602	83.1	74.3	68.2	66.7	65.6	60.2	56.8	47.7	83.9	70	54
702	86.1	77.3	71.2	69.7	68.6	63.2	59.8	50.7	86.9	73	57
902	87.1	78.3	72.2	70.7	69.6	64.2	60.8	51.7	87.9	74	58
1202	89.1	80.3	74.2	72.7	71.6	66.2	62.8	53.7	89.9	76	60
1402	91.1	82.3	76.2	74.7	73.6	68.2	64.8	55.7	91.9	78	62
1804	101.1	92.3	86.2	84.7	83.6	78.2	74.8	65.7	101.9	88	72
2304	102.1	93.3	87.2	85.7	84.6	79.2	75.8	66.7	102.9	89	73
2604	104.1	95.3	89.2	87.7	86.6	81.2	77.8	68.7	104.9	91	75

Lw: sound power level according to ISO 3744

Lp: sound pressure level at 1 mt from the unit in free field conditions direction factor Q=2 according to ISO 3744

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User	65			70		
Source	Output	Absorption	COP	Output	Absorption	COP
20	218	153	3.37	n/a	n/a	n/a
25	248	183	3.77	241	169	3.31
30	283	216	4.22	274	200	3.71
35	323	255	4.74	311	236	4.15
40	366	297	5.26	352	276	4.61
45	416	345	5.85	399	322	5.13
User	75			78		
Source	Output	Absorption	COP	Output	Absorption	COP
20	n/a	n/a	n/a	n/a	n/a	n/a
25	n/a	n/a	n/a	n/a	n/a	n/a
30	265	184	3.25	260	174	3.01
35	300	217	3.62	294	206	3.35
40	339	255	4.04	331	243	3.72
45	383	298	4.49	373	284	4.13

n/a=not allowed, heat pump will not work at operating conditions

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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