

TECHNICAL PRODUCT SUBMITTAL

AMICUS LAHP-252LT AIR SOURCE HEAT PUMP

EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) external air+7C 30/35 flow	kW	22.2
Total Power input (EN14511) external air+7C 30/35 flow	kW	5.3
COP (EN14511) external air+7C 30/35 flow	W/W	4.11
EFFICIENCY DATA -ErP and Energy Label		
Energy Label Rating Low temperature		A++
SCOP Low Temperature		3.83
Seasonal Efficiency Low temperature	%	150.1
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	11
Maximum input current standard unit	A (per phase)	19
Peak input current standard unit	A (per phase)	63
Peak input current unit with soft start option fitted	A (per phase)	42
Fuse rating (delayed)	A	32
Optional Hydraulic kit input power	kW	0.4
Optional Hydraulic kit maximum input current	A	1.43
FANS		
Fan type (standard unit)		Axial
Number of fans (standard unit)		2
Air flow rate for design	m ³ /h	9700
Sound power level ²	dB(A)	73
Sound pressure level ³	dB(A)	41
WATER		
Flow/Return connections	inch	1½"
Nominal flow rate	L/sec	1.44
Pressure drop across the heat exchanger	kPa	59
Minimum water content in the user circuit	litre	240
BREEAM DATA		
Total refrigerant charge	kg	7.7
Operational life	Years	20
Global warming potential		2088

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LAHP-252LT		Heating OUT						Max outlet	
Water Delivery Temperature		35C	40C	45C	50C	55C	59C		
performance data	-10	Heat Output (KW)	11.7	11.5	N/A	N/A	N/A	N/A	40°C
		Efficiency COP	2.0	1.8	N/A	N/A	N/A	N/A	
	-7	Heat Output (KW)	12.6	12.4	N/A	N/A	N/A	N/A	40°C
		Efficiency COP	2.2	2.0	N/A	N/A	N/A	N/A	
	-5	Heat Output (KW)	13.5	13.2	13.1	N/A	N/A	N/A	45°C
		Efficiency COP	2.4	2.1	1.9	N/A	N/A	N/A	
	-4	Heat Output (KW)	14.1	13.9	13.8	N/A	N/A	N/A	45°C
		Efficiency COP	2.5	2.2	2.0	N/A	N/A	N/A	
	-3	Heat Output (KW)	14.8	14.6	14.5	N/A	N/A	N/A	45°C
		Efficiency COP	2.6	2.32	2.09	N/A	N/A	N/A	
	-2	Heat Output (KW)	15.6	15.4	15.2	15.3	N/A	N/A	50°C
		Efficiency COP	2.8	2.5	2.2	2.0	N/A	N/A	
	0	Heat Output (KW)	17.2	16.9	16.7	16.6	N/A	N/A	50°C
		Efficiency COP	3.0	2.7	2.4	2.2	N/A	N/A	
	5	Heat Output (KW)	21.0	20.6	20.4	20.2	20.2	N/A	55°C
		Efficiency COP	3.8	3.4	3.1	2.7	2.5	N/A	
	10	Heat Output (KW)	23.8	23.2	22.8	22.5	22.3	22.3	59°C
		Efficiency COP	4.5	4.0	3.5	3.1	2.8	2.54	
15	Heat Output (KW)	26.8	26.1	25.5	25.1	24.7	24.6	59°C	
	Efficiency COP	5.2	4.6	4.0	3.5	3.1	2.85		
20	Heat Output (KW)	30.3	29.3	28.5	27.9	27.4	27.2	59°C	
	Efficiency COP	6.0	5.2	4.6	4.0	3.5	3.19		

Optional Hydraulic kit Pump details		
Model	LAHP252LT	
Nominal Input power	kW	0.4
Nominal Input current	A	1.43
Nominal water flow rate	l/h	3822
Total head available at the pump	kPa	170
Available head for system pipework	kPa	118
Power supply	V/ph/Hz	400/3/50

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