TECHNICAL PRODUCT SUBMITTAL HIGH EFFICIENCY BOILERS & WATER HEATERS



### Comparison of Comparison o	RANGE AMICUS AIR TO WATER HEAT PUMPS		Model LAHP-15HT
Heating Capacity (EN14511)¹ kW 3.40			
Total Power input (EN14511)¹ kW 3.40 COP (EN14511)¹ W/W 4.4 EFFICIENCY DATA -ErP and Energy Label Energy Label Rating Low temperature A++ SCOP Low Temperature 4.01 Seasonal Efficiency Low temperature % 157.3 Energy Label Rating High temperature A++ SCOP High Temperature 3.37 Seasonal Efficiency High temperature % 131.6 GENERAL Refrigerant Refrigerant R410A Power supply V/Ph/Hz 415/3+N/50 Maximum input current standard unit A 15 Peak input current standard unit A 15 Fans no 2 Compressors/refrigerant circuits no 1 E.V.I. DC inverter Sound power level 2 dB(A) 67 Sound pressure level 3 dB(A) 35.5 Flow/Return connections inch 1" Nominal flow L/sec 0.76 Minimum water content in the user circuit litre 200<	EFFICIENCY DATA -Part L2		
COP (EN14511)¹ W/W 4.4 EFFICIENCY DATA -ErP and Energy Label A++ Energy Label Rating Low temperature 4.01 Seasonal Efficiency Low temperature % 157.3 Energy Label Rating High temperature A++ SCOP High Temperature 3.37 Seasonal Efficiency High temperature % 131.6 GENERAL R410A Refrigerant R410A Power supply V/Ph/Hz 415/3+N/50 Maximum input current standard unit A 15 Peak input current standard unit A 15 Fans no 2 Compressors/refrigerant circuits no 1 E.V.I. DC inverter Sound power level 2 dB(A) 67 Sound pressure level 3 dB(A) 35.5 Flow/Return connections inch 1" Nominal flow L/sec 0.76 Minimum water content in the user circuit litre 200 DIMENSIONS Height mm 1450 Length	Heating Capacity (EN14511) ¹	kW	15
EFFICIENCY DATA - ErP and Energy Label Energy Label Rating Low temperature Energy Label Rating Low temperature SCOP Low Temperature ### 4.01 Seasonal Efficiency Low temperature ### 5COP Light Temperature ### 5COP High Temperature ### 5.00 ### 5.00 ### 5.00 ### 5.00 ### 5.00 ###	Total Power input (EN14511) ¹	kW	3.40
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SCOP Low Temperature Seasonal Efficiency Low temperature Seasonal Efficiency Low temperature SCOP High Temperature SCOP High Temperature SCOP High Temperature Seasonal Efficiency High temperature SCOP High Temperature SC	EFFICIENCY DATA -ErP and Energy Label		
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SCOP High Temperature Seasonal Efficiency High temperature Seasonal Efficiency High temperature ### Mathematical	Seasonal Efficiency Low temperature	%	157.3
Seasonal Efficiency High temperature%131.6GENERALRefrigerantR410APower supplyV/Ph/Hz415/3+N/50Maximum input current standard unitA15Peak input current standard unitA15Fansno2Compressors/refrigerant circuitsno1 E.V.I. DC inverterSound power level 2dB(A)67Sound pressure level 3dB(A)35.5Flow/Return connectionsinch1"Nominal flowL/sec0.76Minimum water content in the user circuitlitre200DIMENSIONSHeightmm1450Lengthmm1402Depthmm650	Energy Label Rating High temperature		A++
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Refrigerant Refrigerant Power supply V/Ph/Hz 415/3+N/50 Maximum input current standard unit A 15 Peak input current standard unit A 15 Fans no 2 Compressors/refrigerant circuits no 1 E.V.I. DC inverter Sound power level 2 dB(A) 67 Sound pressure level 3 dB(A) 35.5 Flow/Return connections inch 1" Nominal flow L/sec 0.76 Minimum water content in the user circuit litre 200 DIMENSIONS Height mm 1450 Length mm 650	Seasonal Efficiency High temperature	%	131.6
Power supplyV/Ph/Hz415/3+N/50Maximum input current standard unitA15Peak input current standard unitA15Fansno2Compressors/refrigerant circuitsno1 E.V.I. DC inverterSound power level 2dB(A)67Sound pressure level 3dB(A)35.5Flow/Return connectionsinch1"Nominal flowL/sec0.76Minimum water content in the user circuitlitre200DIMENSIONSUnimal standard mm1450Lengthmm1402Depthmm650	GENERAL		
Maximum input current standard unitA15Peak input current standard unitA15Fansno2Compressors/refrigerant circuitsno1 E.V.I. DC inverterSound power level 2dB(A)67Sound pressure level 3dB(A)35.5Flow/Return connectionsinch1"Nominal flowL/sec0.76Minimum water content in the user circuitlitre200DIMENSIONSUnimal standard unit1450Lengthmm1402Depthmm650	Refrigerant		R410A
Peak input current standard unitA15Fansno2Compressors/refrigerant circuitsno1 E.V.I. DC inverterSound power level 2dB(A)67Sound pressure level 3dB(A)35.5Flow/Return connectionsinch1"Nominal flowL/sec0.76Minimum water content in the user circuitlitre200DIMENSIONSHeightmm1450Lengthmm1402Depthmm650	Power supply	V/Ph/Hz	415/3+N/50
Fans no 2 Compressors/refrigerant circuits no 1 E.V.I. DC inverter Sound power level 2 dB(A) 67 Sound pressure level 3 dB(A) 35.5 Flow/Return connections inch 1" Nominal flow L/sec 0.76 Minimum water content in the user circuit litre 200 DIMENSIONS Height mm 1450 Length mm 650	Maximum input current standard unit	А	15
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Sound power level 2 dB(A) 67 Sound pressure level 3 dB(A) 35.5 Flow/Return connections inch 1" Nominal flow L/sec 0.76 Minimum water content in the user circuit litre 200 DIMENSIONS	Fans	no	2
Sound pressure level 3 dB(A) 35.5 Flow/Return connections inch 1" Nominal flow L/sec 0.76 Minimum water content in the user circuit litre 200 DIMENSIONS mm 1450 Length mm 1402 Depth mm 650	Compressors/refrigerant circuits	no	1 E.V.I. DC inverter
Flow/Return connections inch 1" Nominal flow L/sec 0.76 Minimum water content in the user circuit litre 200 DIMENSIONS Height mm 1450 Length mm 1402 Depth mm 650	Sound power level 2	dB(A)	67
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Minimum water content in the user circuit litre 200 DIMENSIONS Height mm 1450 Length mm 1402 Depth mm 650	Flow/Return connections	inch	1"
DIMENSIONS Height mm 1450 Length mm 1402 Depth mm 650	Nominal flow	L/sec	0.76
Height mm 1450 Length mm 1402 Depth mm 650	Minimum water content in the user circuit	litre	200
Length mm 1402 Depth mm 650	DIMENSIONS		
Depth mm 650	Height	mm	1450
- TPT	Length	mm	1402
Weight Kg 270	Depth	mm	650
	Weight	Kg	270

1-Ambient air +7 heating 30/35

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 page 25 and 72 Unit start up page 46 Water quality page 28

ErP and Warranty

 $\textit{ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at \underline{www.lochinvar.ltd.uk} \\$