

TECHNICAL PRODUCT SUBMITTAL

AMICUS LAHP-402WWXL BOOST HEAT PUMP

Heating Data		
Heating Capacity (EN14511) ¹	kW	72.3
Total Power input (EN14511) ¹	kW	14
COP (EN14511) ¹	W/W	5.16
Nominal flow rate	m ³ /h	10.12
Pressure drop across the heat pump	kPa	10.9
EcoDesign data		
EcoDesign Energy Label Rating	LT/HT	A++/A++
SCOP Low Temperature		5.82
Seasonal Efficiency High temperature	%	182
General Data		
Refrigerant type		R134A
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	19.4
Maximum input current standard unit	A	35.4
Peak input current standard unit	A	129
Peak input current with soft start option fitted	A	73
Fuse rating (delayed)	A	80
Fans		
Sound power level	dB(A)	65
Sound pressure level	dB(A)	33

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

TECHNICAL PRODUCT SUBMITTAL

AMICUS LAHP-402WWXL BOOST HEAT PUMP

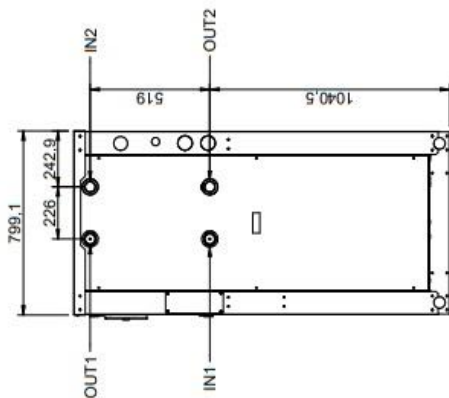
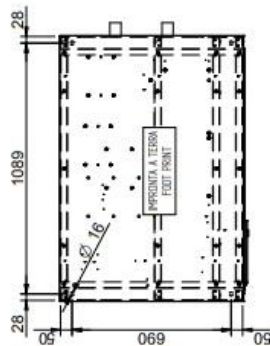
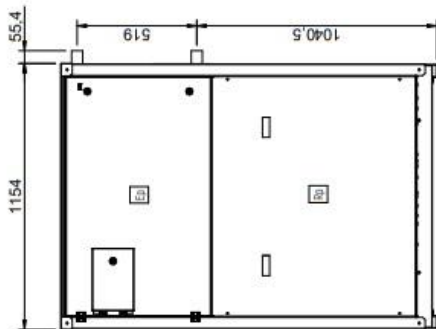
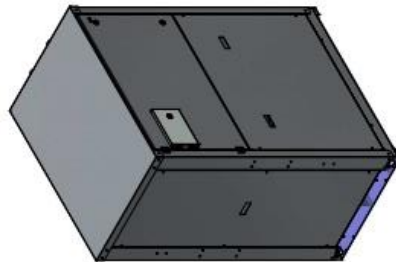
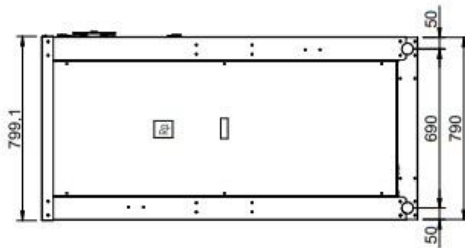
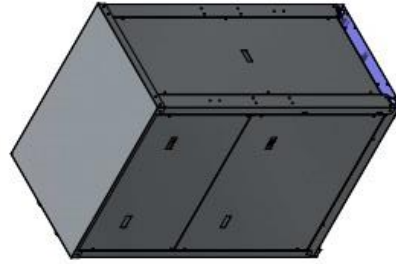
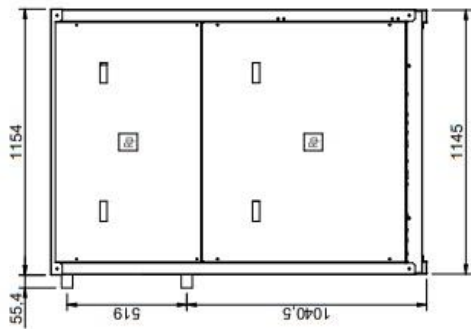
User	65			70		
Source	Output	Absorption	COP	Output	Absorption	COP
20	48.2	34.7	3.54	n/a	n/a	n/a
25	55.1	41.4	3.99	53.5	38.4	3.54
30	63.1	49.2	4.54	61	45.7	3.99
35	72.1	58.1	5.08	69.6	54.2	4.49
40	82.7	68.3	5.7	79.5	63.8	5.03
45	94.7	80	6.36	90.7	74.8	5.6
User	75			78		
Source	Output	Absorption	COP	Output	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	58.9	42.1	3.51	57.7	39.9	3.24
35	67	50	3.94	65.5	47.5	3.64
40	76.3	59.2	4.44	74.4	56.2	4.09
45	87	69.6	4.94	84.7	66.3	4.58

n/a =not allowed heat pump will not perform at these parameters

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

TECHNICAL PRODUCT SUBMITTAL

AMICUS LAHP-402WWXL BOOST HEAT PUMP



Rp	PANNELLO ASPORTABILE REMOVABLE PANEL
Ep	QUADRO ELETTRICO ELECTRICAL PANEL
Es	INGRESSO ALIMENTAZIONE ELETTRICA POWER SUPPLY / DRAIN INLET
IN1 φ 1 1/2 G.M.	INGRESSO ACQUA UTENTE USER WATER INLET
OUT1 φ 1 1/2 G.M.	USCITA ACQUA UTENTE USER WATER OUTLET
IN2 φ 1 1/2 G.M.	INGRESSO ACQUA SORGENTE SOURCE WATER INLET
OUT2 φ 1 1/2 G.M.	USCITA ACQUA SORGENTE SOURCE WATER OUTLET