TECHNICAL PRODUCT SUBMITTAL

AMICUS LAHP-492HTS STANDARD AIR SOURCE HEAT PUMP

Data	Unit	Model
		LAHP-492HTS
Heating Data		
Heating Capacity (EN14511)[1]	kW	50.9
Total Power input (EN14511)[1]	kW	13
COP (EN14511)[1]	W/W	3.92
Nominal flow rate	m^3/h	8.84
Pressure drop across the heat pump	kPa	61
Design air flow rate	m^3/h	17722
EcoDesign data [2]		
Energy Label Rating Low temperature		A+
SCOP Low Temperature		3.45
Seasonal Efficiency Low temperature	**%**	135
Energy Label Rating High temperature		A+
SCOP High Temperature		2.99
Seasonal Efficiency High temperature	**%**	116
Cooling Data		
Cooling Capacity (EN14511)3	kW	46.8
Total Power input (EN14511)[3]	kW	16.4
EER (EN14511)[3]	W/W	2.85
Nominal flow rate	m^3/h	7.97
Pressure drop across the heat pump	kPa	43.4
Design air flow rate	m^3/h	18186
General data		
Refrigerant		R410A
Compressor Type		E.V.I. Scroll
Number of Compressors		2
Number of Circuits		1
Capacity steps		2
Minimum capacity step	**%**	50
Sound power level	dB(A)	84
Sound pressure level (10m)	dB(A)	52
Minimum water content in the user circuit	litre	510
Electrical Data		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input power	kW	24.6
Maximum input current standard unit	A (per phase)	43.6
Peak input current standard unit	A (per phase)	153
Peak input current unit with soft start option fitted	A (per phase)	80
Fuse rating (delayed)	A	100
Fans		
Type		Axial EC
Number of fans (standard unit)	nº	2

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LAHP-492HTS			Heating OUT							Max Outlet
Water Delivery Temperature			35C	40C	45C	50C	55C	60C	63C	
Source air temperature	-10	Heat Output (KW)	29.0	29.1	29.2	29.4	29.5	N/A	N/A	55°c
		Efficiency COP	2.6	2.4	2.2	2.0	1.8	N/A	N/A	
	-8	Heat Output (KW)	30.6	30.6	30.9	31.0	31.3	N/A	N/A	55°c
		Efficiency COP	2.7	2.5	2.3	2.1	1.9	N/A	N/A	
	-6	Heat Output (KW)	32.1	32.1	32.3	32.4	32.7	32.9	N/A	60°c
		Efficiency COP	2.8	2.6	2.4	2.2	2.0	1.8	N/A	
	-4	Heat Output (KW)	33.7	33.8	33.7	34.0	34.1	34.3	N/A	60°c
		Efficiency COP	2.9	2.7	2.4	2.2	2.1	1.9	N/A	
	-2	Heat Output (KW)	35.7	35.6	35.7	35.8	36.1	36.1	36.0	63°c
		Efficiency COP	3.1	2.8	2.6	2.3	2.2	2.0	1.9	
	0	Heat Output (KW)	39.1	39.0	39.0	39.2	39.4	39.7	39.7	63°c
		Efficiency COP	3.3	3.0	2.8	2.5	2.3	2.1	2.0	
	2	Heat Output (KW)	42.3	42.5	42.4	42.6	42.8	42.9	43.3	63°c
		Efficiency COP	3.5	3.2	2.9	2.7	2.5	2.3	2.2	
	4	Heat Output (KW)	45.7	45.9	46.1	46.1	46.3	46.6	46.9	63°c
		Efficiency COP	3.8	3.5	3.2	2.9	2.7	2.4	2.3	
	6	Heat Output (KW)	49.3	49.5	49.8	50.0	50.1	50.5	50.8	63°c
		Efficiency COP	4.0	3.7	3.4	3.1	2.8	2.6	2.5	
	7	Heat Output (KW)	51.1	51.4	51.7	51.8	52.1	52.5	52.8	63°c
		Efficiency COP	4.1	3.8	3.5	3.2	2.9	2.7	2.6	
	8	Heat Output (KW)	52.6	52.9	53.1	53.4	53.5	53.9	54.2	63°c
		Efficiency COP	4.2	3.9	3.6	3.3	3.0	2.8	2.6	
	10	Heat Output (KW)	55.1	55.3	55.4	55.7	55.9	56.1	56.3	63°c
		Efficiency COP	4.4	4.0	3.7	3.4	3.1	2.8	2.7	
	15	Heat Output (KW)	61.7	61.7	61.7	61.8	61.9	62.1	62.1	63°c
		Efficiency COP	4.8	4.4	4.0	3.6	3.3	3.1	2.9	
	20	Heat Output (KW)	69.4	69.2	68.9	68.8	68.7	68.7	68.7	63°c
		Efficiency COP	5.2	4.8	4.3	4.0	3.6	3.3	3.2	
	25	Heat Output (KW)	77.5	77.1	76.6	76.3	76.1	75.9	75.7	63°c
		Efficiency COP	5.7	5.2	4.7	4.3	3.9	3.6	3.4	

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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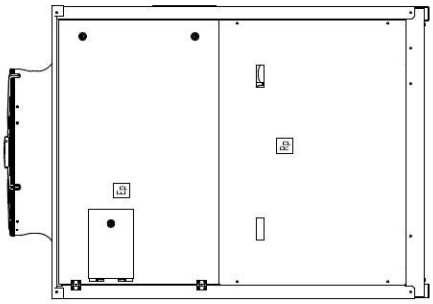
TECHNICAL PRODUCT SUBMITTAL

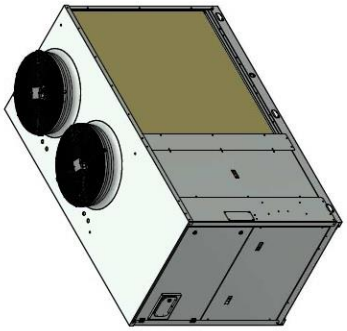
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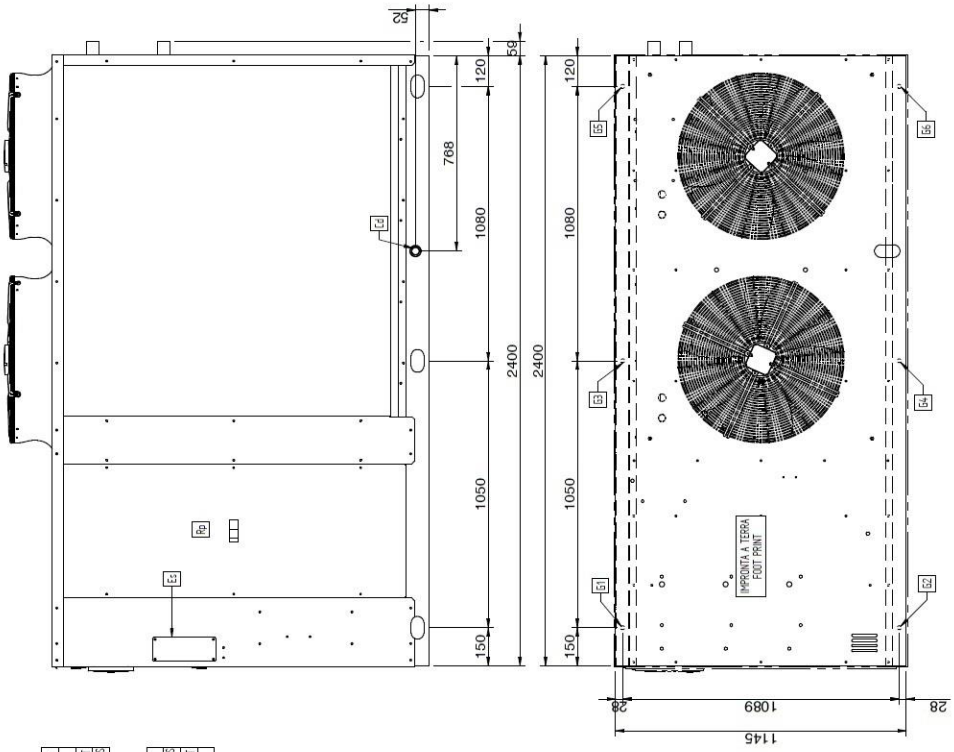
model	octave bands (hz)								lw		lp
	63	125	250	500	1k	2k	4k	8k			
	db	db	db	db	db	db	db	db	db	db	db
252HTS	91.1	82.3	76.2	74.7	73.6	68.2	64.8	55.7	91.9	82	50
302HTS	91.1	82.3	76.2	74.7	73.6	68.2	64.8	55.7	91.9	83	51
432HTS	92.1	83.3	77.2	75.7	74.6	69.2	65.8	56.7	92.9	84	52
492HTS	93.1	84.3	79.2	76.7	75.6	70.2	66.8	57.7	93.9	84	52
602HTS	93.1	84.3	79.2	76.7	75.6	70.2	66.8	57.7	93.9	83	51
752HTS	93.1	84.3	79.2	76.7	75.6	70.2	66.8	57.7	93.9	84	52
852HTS	93.1	84.3	79.2	76.7	75.6	70.2	66.8	57.7	93.9	84	52
1002HTS	93.1	84.3	79.2	76.7	75.6	70.2	66.8	57.7	93.9	84	52
1202HTS	93.1	84.3	79.2	76.7	75.6	70.2	66.8	57.7	93.9	87	55
1454HTS	100.1	91.3	85.2	83.7	82.6	77.2	73.8	64.7	100.9	88	56
1654HTS	100.1	91.3	85.2	83.7	82.6	77.2	73.8	64.7	100.9	89	57
1854HTS	101.1	92.3	86.2	84.7	83.6	78.2	74.8	65.7	101.9	88	56
2154HTS	102.1	93.3	87.2	85.7	84.6	79.2	75.8	66.7	102.9	89	57

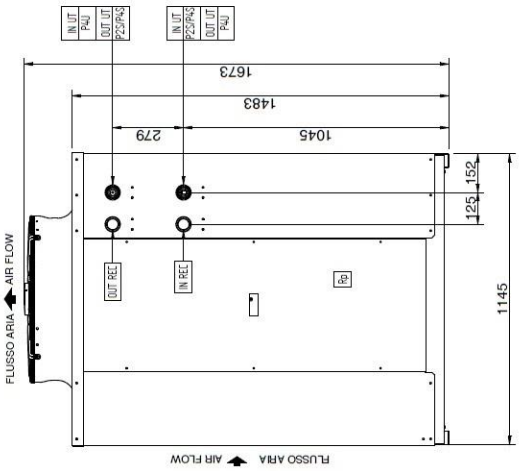
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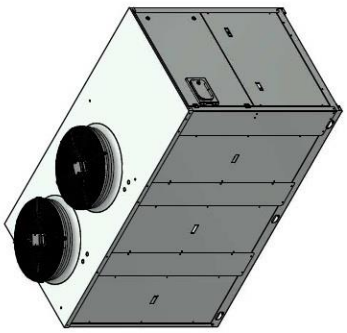
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Rp	PANNELLO ASPORTABILE - REMOVABLE PANEL	
Ep	QUADRO ELETTRICO - ELECTRICAL PANEL	
Es	INGRESSO ALIMENTAZIONE ELETTRICA - POWER SUPPLY INLET	
Cd	SCARICO CONDENSA - CONDENSATE DRAIN	Ø 1" GAS F
IN UT	INGRESSO ACQUA UTENTE - USER WATER INLET	Ø 1"1/2 GAS M
OUT UT	USCITA ACQUA UTENTE - USER WATER OUTLET	Ø 1"1/2 GAS M
IN REC	INGRESSO ACQUA RECUPERO - RECOVERY WATER INLET	Ø 1"1/2 GAS M
OUT REC	USCITA ACQUA RECUPERO - RECOVERY WATER OUTLET	Ø 1"1/2 GAS M

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