

TECHNICAL PRODUCT SUBMITTAL

AMICUS LAHP-1402WWXL BOOST HEAT PUMP

| Heating Data | | |
|--|--|-------------------|
| Heating Capacity (EN14511) ¹ | | kW |
| Total Power input (EN14511) ¹ | | kW |
| COP (EN14511) ¹ | | W/W |
| Nominal flow rate | | m ³ /h |
| Pressure drop across the heat pump | | kPa |
| EcoDesign data | | |
| EcoDesign Energy Label Rating | | LT/HT |
| SCOP Low Temperature | | |
| Seasonal Efficiency High temperature | | % |
| General Data | | |
| Refrigerant type | | |
| Compressor Type | | |
| Number of Compressors | | |
| Number of Circuits | | |
| Capacity steps | | |
| Minimum capacity step | | % |
| Electrical Data | | |
| Power supply | | V/Ph/Hz |
| Maximum input power | | kW |
| Maximum input current standard unit | | A |
| Peak input current standard unit | | A |
| Peak input current with soft start option fitted | | A |
| Fuse rating (delayed) | | A |
| Fans | | |
| Sound power level | | dB(A) |
| Sound pressure level | | dB(A) |

| |
|------------|
| 248 |
| 51.2 |
| 4.84 |
| 34.15 |
| 11.7 |
| |
| A++/A++ |
| 6.08 |
| 186 |
| |
| R134A |
| Scroll |
| 2 |
| 1 |
| 2 |
| 50 |
| |
| 400/3+N/50 |
| 71.6 |
| 126 |
| 373 |
| 249 |
| 200 |
| |
| 78 |
| 46 |

| Model | Octave band (Hz) | | | | | | | | Lw | | Lp |
|-------|------------------|------|------|------|------|------|------|------|-------|-------|-------|
| | 63 | 125 | 250 | 500 | 1K | 2K | 4K | 8K | Db | dB(A) | dB(A) |
| | dB | dB | dB | dB | dB | dB | dB | dB | | | |
| 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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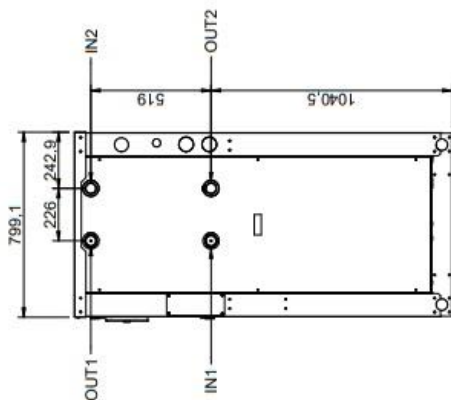
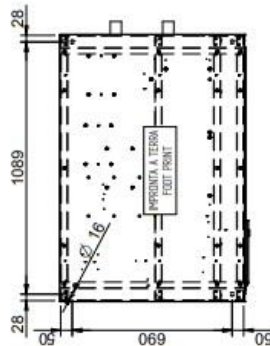
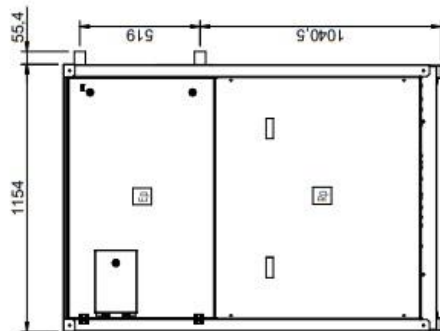
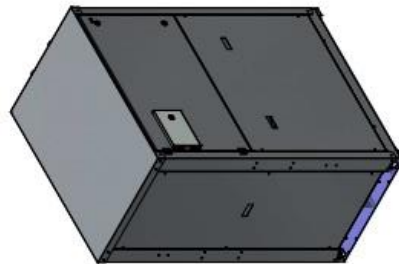
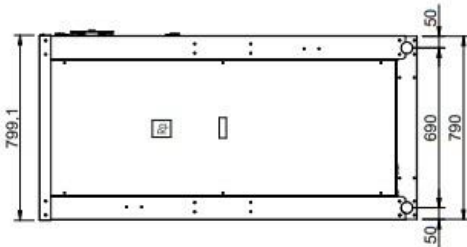
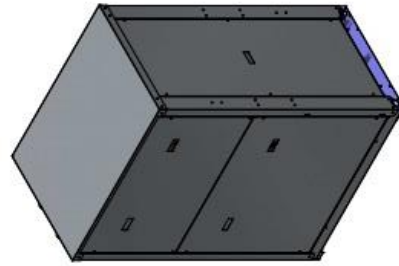
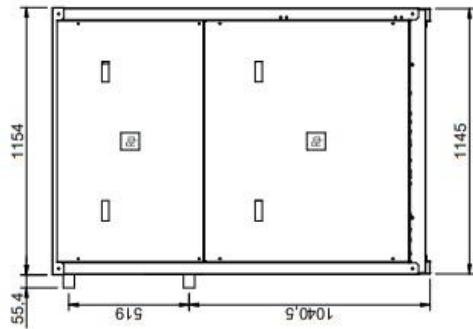
| User | 65 | | | 70 | | |
|--------|--------|------------|------|--------|------------|------|
| Source | Output | Absorption | COP | Output | Absorption | COP |
| 20 | 167 | 119 | 3.49 | n/a | n/a | n/a |
| 25 | 191 | 142 | 3.91 | 185 | 132 | 3.45 |
| 30 | 218 | 168 | 4.37 | 210 | 156 | 3.85 |
| 35 | 249 | 198 | 4.87 | 240 | 184 | 4.29 |
| 40 | 283 | 232 | 5.39 | 273 | 216 | 4.78 |
| 45 | 323 | 270 | 5.96 | 310 | 252 | 5.28 |
| 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 | 203 | 144 | 3.39 | 200 | 137 | 3.16 |
| 35 | 231 | 171 | 3.79 | 226 | 162 | 3.5 |
| 40 | 262 | 200 | 4.21 | 256 | 191 | 3.9 |
| 45 | 297 | 234 | 4.66 | 290 | 224 | 4.33 |

n/a= not allowed heat pump will not operate at these 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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| | |
|------|--|
| Rp | PANNELLO ASPORTABILE REMOVABLE PANEL |
| Ep | QUADRO ELETRICO ELECTRICAL PANEL |
| Es | INGRESSO ALIMENTAZIONE ELETTRICA POWER SUPPLY DRAIN INLET |
| IN1 | INGRESSO ACQUA UTENTE φ 1"-1/2 G.M. |
| OUT1 | USCITA ACQUA UTENTE φ 1"-1/2 G.M. |
| IN2 | INGRESSO ACQUA SORGENTE φ 1"-1/2 G.M. |
| OUT2 | USCITA ACQUA SORGENTE φ 1"-1/2 G.M. |