

## CAR-EVI Air to Water Heat Pump-heating/hot water

| Model                               |                      |                              | CAR-12EVI    | CAR-24EVI     | CAR-12EVI     | CAR-20EVI     | CAR-40EVI     | CAR-60EVI     | CAR-75EVI     | CAR-80EVI |
|-------------------------------------|----------------------|------------------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------|
| Standard<br>20/15<br>DB/WB<br>°C    | Heating capacity     | KW                           | 10.4         | 20.8          | 11.4          | 20.3          | 40.6          | 60.9          | 74.4          | 81.2      |
|                                     |                      | BTU                          | 35484        | 70969         | 38897         | 69264         | 138527        | 207791        | 253853        | 277054    |
|                                     | Hot water output     | T/h                          | 0.22         | 0.45          | 0.25          | 0.44          | 0.87          | 1.31          | 1.6           | 1.75      |
|                                     | Input power          | KW                           | 2.56         | 5.12          | 2.77          | 4.8           | 9.6           | 14.4          | 16.3          | 19.2      |
| Low<br>7/6<br>DB/WB<br>°C           | Heating capacity     | KW                           | 8.65         | 17.3          | 9.59          | 16.6          | 33.2          | 49.8          | 62.7          | 66.4      |
|                                     |                      | BTU                          | 29514        | 59028         | 32721         | 56639         | 113278        | 169918        | 213932        | 226557    |
|                                     | Hot water output     | T/h                          | 0.17         | 0.33          | 0.18          | 0.32          | 0.63          | 0.95          | 1.2           | 1.27      |
|                                     | Input power          | KW                           | 2.6          | 5.2           | 2.8           | 4.69          | 9.38          | 14.07         | 16.3          | 18.76     |
| Super low<br>-15/-17<br>DB/WB<br>°C | Heating capacity     | KW                           | 5.33         | 10.66         | 5.95          | 9.7           | 19.4          | 29.1          | 34.6          | 38.8      |
|                                     |                      | BTU                          | 18186        | 36372         | 20301         | 33096         | 66193         | 99289         | 118055        | 132386    |
|                                     | Hot water output     | T/h                          | 0.1          | 0.2           | 0.11          | 0.19          | 0.37          | 0.56          | 0.66          | 0.74      |
|                                     | Input power          | KW                           | 2.5          | 5             | 2.7           | 4.15          | 9.3           | 14.45         | 15.6          | 19.6      |
| Standard running current            | A                    | 12.2                         | 24.4         | 4.85          | 8.4           | 16.8          | 25.5          | 29            | 34            |           |
| Max running current                 | A                    | 17.1                         | 34.2         | 7.5           | 12            | 24            | 36            | 42            | 48            |           |
| Power source                        | V/Ph/Hz              | 220V/1N/50HZ                 |              |               |               | 380V/3N/50HZ  |               |               |               |           |
| Noise level                         | dB(A)                | <55                          | <58          | <55           | <58           | <62           | <64           | <66           | <66           |           |
| Up discharge W x D x H              | mm                   | 670*640*820                  | 1390*635*950 | 670*640*820   | 810*780*1050  | 1450*780*1050 | 1700*900*1250 | 1700*900*1250 | 1700*900*1250 |           |
| Side discharge W x D x H            | mm                   | 883*363*1000                 | 900*420*1400 | 883*3630*1000 | 1120*425*1260 | --            |               |               |               |           |
| Unit net weight                     | kg                   | 115                          | 175          | 115           | 145           | 270           | 470           | 620           | 620           |           |
| Water temp control precise          | °C                   | ±2°C                         |              |               |               |               |               |               |               |           |
| Working temp range                  | °C                   | -25°C-43°C                   |              |               |               |               |               |               |               |           |
| Throttle type                       |                      | Thermostatic expansion valve |              |               |               |               |               |               |               |           |
| Refrigerant                         | Type                 | R407C                        |              |               |               |               |               |               |               |           |
|                                     | Charge qty           | kg                           | 2.6          | 2.6*2         | 2.6           | 3.5           | 3.5*2         | 3.5*3         | 7.2*2         | 3.5*4     |
|                                     | Max working pressure | Bar                          | 28           | 28            | 28            | 28            | 28            | 28            | 28            | 28        |
| Compressor                          | Type                 | EVI Copeland compressor      |              |               |               |               |               |               |               |           |
|                                     | Qty                  | pcs                          | 1            | 2             | 1             | 1             | 2             | 3             | 2             | 4         |
| Air source side                     | Heat exchanger type  | Finned tube heat exchanger   |              |               |               |               |               |               |               |           |
|                                     | Qty                  | pcs                          | 1            | 2             | 1             | 1             | 2             | 2             | 2             | 2         |
|                                     | Motor power          | KW                           | 0.2          | 0.4           | 0.2           | 0.4           | 0.4*2         | 0.75*2        | 0.75*2        | 0.75*2    |
| Hot water side                      | Heat exchanger type  | Tube in tube heat exchanger  |              |               |               |               |               |               |               |           |
|                                     | Water flow           | m <sup>3</sup> /H            | 1.79         | 3.58          | 1.98          | 3.49          | 6.98          | 10.47         | 12.79         | 13.96     |
|                                     | Water pressure loss  | kPa                          | 27           | 30            | 27            | 30            | 36            | 42            | 48            | 48        |

|  |                             |            |      |      |      |      |      |      |      |      |
|--|-----------------------------|------------|------|------|------|------|------|------|------|------|
|  | <b>Pipe size</b>            | <b>DN</b>  | 20   | 25   | 20   | 25   | 32   | 40   | 50   | 50   |
|  | <b>Max working pressure</b> | <b>kPa</b> | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

**Test conditions:**

1. Standard: Air source side DB/WB is 20 / 15 , inlet water temp 15 , outlet water temp 55 .
2. Low: Air source side DB/WB is 7 / 6 , inlet water temp 10 , outlet water temp 55 .
3. Super low: Air source side DB/WB is -15 / -17 , inlet water temp 10 , outlet water temp 55 .
4. Cooling work condition: air source side temp 35°C, chiller side inlet water temp is 12°C, outlet water temp is 7°C.

**Models show(powder coated cover):**

**Product options:**

1. Stainless steel casing;
2. Add cooling function;
3. Bottom heater;

If need to add above functions, pls contact us, it need to add cost.

**CAR-12/20/24EVI**



**CAR-40/60/75/80EVI**



**CAR-12EVI**



**CAR-20EVI**



**CAR-24EVI**





