



United Technologies

ECODESIGN MANUAL AND ENERGY LABELLING



Reversible Air to Water Heat Pump

30AW



CARRIER participates in the ECP programme for LCP/HP
Check ongoing validity of certificate:
www.eurovent-certification.com





Model	30AWH004HD
Heat pump type	Air-to-Water
Equipped with supplementary heater	No
Heat pump combination heater	No

Rated heat output, kW	Prated	3.83
Annual energy consumption, kWh	Qhe	2105
Seasonal space heating energy efficiency, %	ns,h	146
Energy Classes		A+
Seasonal Coefficient Of Performance, kWh/kWh	SCOP	3.73
Sound power level indoor/outdoor, dB(A)	LwA	62 NA

Declared capacity and coefficient of performance for heating at indoor conditions 20°C and outdoor temperature Tj

Temperature application :		Low (30°C/35°C)	
Climate:		Average (Strasbourg)	
Bivalent temperature, °C	Tbivalent	-7	
Operating limit temperature, °C	TOL	-20	
Heating water operation limit temperature, °C	WTOL	60	
Tj, °C	Capacity Pdh, kW	COPd	Degradation coef, Cdh
-7	3.39	2.44	0.90
2	2.15	3.47	0.90
7	1.28	5.33	0.90
12	1.07	6.69	0.90
Bivalent temperature	3.39	2.44	-
Operating limit temperature	3.22	2.21	-

Power consumption in modes other than active mode

Off mode, kW	POFF	0.0000
Thermostat-off mode, kW	PTO	0.0500
Standby mode, kW	PSB	0.0500
Crankcase heater mode, kW	PCK	0.0500

Supplementary heater

Rated heat output, kW	Psup	0.61
Type of energy input		Electric

Other items

Capacity control	Variable
Outlet temperature capacity control	Variable
Water flow rate capacity control	Fixed

For air-to-water heat pumps

Rated Air flow rate, outdoors, m³/h	2600
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Contact details	Carrier Refrigeration Operation Czech Republic s.r.o. Lidicka 323 - 266 39 Beroun 3 - Czech Republic
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Accessories and Installed Options
No Accessories or Installed Options selected



Model	30AWH004HD
Heat pump type	Air-to-Water
Equipped with supplementary heater	No
Heat pump combination heater	No

Rated heat output, kW	Prated	3.28
Annual energy consumption, kWh	Qhe	1900
Seasonal space heating energy efficiency, %	ns,h	138
Energy Classes		A++
Seasonal Coefficient Of Performance, kWh/kWh	SCOP	3.53
Sound power level indoor/outdoor, dB(A)	LwA	62 NA

Declared capacity and coefficient of performance for heating at indoor conditions 20°C and outdoor temperature Tj

Temperature application :	Medium (47°C/55°C)		
Climate:	Average (Strasbourg)		
Bivalent temperature, °C	Tbivalent	-7	
Operating limit temperature, °C	TOL	-20	
Heating water operation limit temperature, °C	WTOL	60	
Tj, °C	Capacity Pdh, kW	COPd	Degradation coef, Cdh
-7	2.90	2.15	0.90
2	1.80	3.46	0.90
7	1.17	4.68	0.90
12	1.20	7.25	0.90
Bivalent temperature	2.90	2.15	-
Operating limit temperature	2.76	1.94	-

Power consumption in modes other than active mode

Off mode, kW	POFF	0.0500
Thermostat-off mode, kW	PTO	0.0410
Standby mode, kW	PSB	0.0500
Crankcase heater mode, kW	PCK	0.0500

Supplementary heater

Rated heat output, kW	Psup	0.52
Type of energy input		Electric

Other items

Capacity control	Variable
Outlet temperature capacity control	Variable
Water flow rate capacity control	Fixed

For air-to-water heat pumps

Rated Air flow rate, outdoors, m³/h	2600
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Contact details	Carrier Refrigeration Operation Czech Republic s.r.o. Lidicka 323 - 266 39 Beroun 3 - Czech Republic
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Accessories and Installed Options
No Accessories or Installed Options selected

Fiche/Ficha/Scheda/Datenblatt



30AWH004HD



kW	5.16	3.28	3.10
ηs %	126	138	190
kWh/annum	3911	1900	843



62dB



dB



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30AWH004HD

55 °C

35 °C

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dB

62dB

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> 5.16</td> <td style="width: 33%;"> 6.03</td> </tr> <tr> <td> 3.28</td> <td> 3.83</td> </tr> <tr> <td> 3.10</td> <td> 3.42</td> </tr> </table> <p style="text-align: center;">kW</p>	5.16	6.03	3.28	3.83	3.10	3.42	
5.16	6.03						
3.28	3.83						
3.10	3.42						

2015

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