



United Technologies

ECODESIGN MANUAL



Reversible Air to Water Heat Pump

30AW



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AIR TO WATER

| | |
|--|-----------------------------|
| Model ^[1] | |
| Heat pump type ^[2] | Air to Water ^[3] |
| Equipped with supplementary heater ^[7] | Yes/No ^[8] |
| Heat pump combination heater ^[9] | Yes/No ^[8] |

| | | |
|--|---------|--|
| Rated heat output, kW ^[10] | Prated | |
| Annual energy consumption, kWh ^[11] | Qhe | |
| Seasonal space heating energy efficiency, % ^[12] | ns,heat | |
| Sound power level indoor/outdoor, dB(A) ^[13] | LwA | |

Declared capacity and coefficient of performance for heating at indoor conditions 20°C and outdoor temperature Tj ^[14]

| | | | |
|--|---|-------------|---|
| Climate: ^[15] | Average /Colder /Warmer ^[16] | | |
| Bivalent temperature, °C ^[17] | | | |
| Operating limit temperature, °C ^[18] | | | |
| Heating water operation limit temperature, °C ^[19] | | | |
| Tj, °C | Capacity, kW ^[20] | COPd | Degradation coef ^[21] |
| | | | |
| | | | |
| | | | |
| | | | |
| Bivalent temperature ^[17] | | | |
| Operating limit temperature ^[18] | | | |

Power consumption in modes other than active mode ^[22]

| | |
|--|--|
| Off mode, kW ^[23] | |
| Thermostat-off mode, kW ^[24] | |
| Standby mode, kW ^[25] | |
| Crankcase heater mode, kW ^[26] | |

Supplementary heater ^[27]

| | |
|--|--------------------------|
| Rated heat output, kW ^[28] | Psup |
| Type of energy input ^[29] | Electric ^[30] |

Other items ^[31]

| | |
|--|--------------------------------|
| Capacity control ^[32] | |
| Outlet temperature capacity control ^[33] | Fixed/Variable ^[34] |
| Water flow rate capacity control ^[35] | Fixed/Variable ^[34] |

For air-to-water heat pumps ^[36]

| | |
|---|--|
| Rated Air flow rate, outdoors, m³/h ^[38] | |
|---|--|

| | |
|--|--|
| Contact details ^[40] | |
|--|--|

| ENGLISH | | FRANCAIS | | DEUTSCH | | ITALIANO | |
|---------|---|----------|--|---------|---|----------|--|
| [1] | Model | [1] | Modèle | [1] | Modell(e) | [1] | Modelli |
| [2] | Heat pump type | [2] | Type de pompe à chaleur | [2] | Wärmepumpe Typ | [2] | Pompa di calore/ Tipo |
| [3] | Air to Water | [3] | Pompes à chaleur air-eau | [3] | Luft-Wasser-Wärmepumpe | [3] | Aria acqua |
| [4] | Water-to-Water | [4] | Pompes à chaleur eau-eau: | [4] | Wasser-Wasser-Wärmepumpe | [4] | Acqua/acqua |
| [5] | Outdoor water type | [5] | Type d'eau échangeur extérieur | [5] | Wassertyp externer Wärmetauscher | [5] | Tipo d'acqua scambiatore esterno |
| [6] | Ground Water (10°C/-)/Brine to Water | [6] | Pompes à eau souterraines/ eau glycolée-eau | [6] | Grundwasser /Sole-Wasser | [6] | Acque sotterranee/ salamoia-acqua |
| [7] | Equipped with supplementary heater | [7] | Equipé d'un chauffage supplémentaire | [7] | Mit Zusatzheizgerät: | [7] | Con riscaldatore supplementare |
| [8] | Yes/No | [8] | Oui/Non | [8] | (Ja/Nein) | [8] | [si/no] |
| [9] | Heat pump combination heater | [9] | Dispositif de chauffage mixte par pompe à chaleur | [9] | Kombiheizgerät mit Wärmepumpe: | [9] | Apparecchio misto a pompa di calore |
| [10] | Rated heat output, Kw | [10] | Puissance thermique nominale | [10] | Wärmenennleistung | [10] | Potenza termica nominale |
| [11] | Annual energy consumption, kWh | [11] | Consommation annuelle d'énergie | [11] | Jährliche Energieverbrauch | [11] | Il consumo energetico annuo |
| [12] | Seasonal space heating energy efficiency, % | [12] | L'efficacité énergétique saisonnière | [12] | Jahreszeitbedingte Raumheizungs-Energieeffizienz | [12] | Efficienza energetica stagionale del riscaldamento d'ambiente |
| [13] | Sound power level indoor/outdoor, dB(A) | [13] | Niveau de puissance acoustique à l'intérieur/ à l'extérieur | [13] | Schalleistungspegel in Innenräumen und/oder im Freien | [13] | Il livello di potenza sonora ponderato A, all'interno e/o all'esterno, espresso in dB |
| [14] | Declared capacity and coefficient of performance for heating at indoor conditions 20°C and outdoor temperature Tj | [14] | Puissances et coefficient de performances déclarés en chauffage pour une température intérieure de 20 °C et pour une température extérieure Tj | [14] | enlleistungen und -Leistungskoeffizienten im Heizbetrieb bei einer Innenraumtemperatur von 20 °C und einer Außentemperatur Tj | [14] | Potenze e coefficiente di prestazioni dichiarate in fase riscaldamento per una temperatura interna di 20 °C e per una temperatura esterna Tj |
| [15] | Climate | [15] | Climat : | [15] | Klima | [15] | Clima |
| [16] | Average (Strasbourg)/Colder (Helsinki)/Warmer (Athenes) | [16] | Moyennes/ plus froid/ plus chaud | [16] | Durchschnittliche Klimaverhältnisse/ kälter/ wärmer | [16] | Climatiche medie/ clima più freddo/ clima più caldo |
| [17] | Bivalent temperature | [17] | Température bivalente | [17] | Bivalententemperatur | [17] | Temperatura bivalente |
| [18] | Operating limit temperature | [18] | Température maximale (de service...) | [18] | Grenzwert der Betriebstemperatur | [18] | Temperatura limite di esercizio |
| [19] | Heating water operation limit temperature | [19] | Température maximale de service de l'eau de chauffage | [19] | Grenzwert der Betriebstemperatur des Heizwasser | [19] | Temperatura limite di esercizio di riscaldamento dell'acqua |
| [20] | Capacity | [20] | Capacité | [20] | Die Leistung | [20] | Capacità |
| [21] | Degradation coeff | [21] | Coefficient de dégradation | [21] | Minderungsfaktor | [21] | Coefficiente di degradazione |
| [22] | Power consumption in modes other than active mode | [22] | Consommation d'électricité dans les modes autres que le mode actif | [22] | Stromverbrauch in anderen Betriebsarten als dem Betriebszustand | [22] | Consumo energetico in modi diversi dal modo attivo |
| [23] | Off mode | [23] | Mode arrêt | [23] | Aus-Zustand | [23] | Modo spento |
| [24] | Thermostat off-mode | [24] | Mode arrêt par thermostat | [24] | Thermostat-aus-Zustand | [24] | Modo termostato spento |
| [25] | Standby mode | [25] | Mode veille | [25] | Bereitschaftszustand | [25] | Modo stand-by |
| [26] | Crankcase heater mode | [26] | Mode résistance de carter active | [26] | Betriebszustand mit Kurbelgehäuseheizung | [26] | Modo riscaldamento del carter |
| [27] | Supplementary heater | [27] | Dispositif de chauffage d'appoint | [27] | Zusatzheizgerät | [27] | Riscaldatore supplementare |
| [28] | Rated heat output | [28] | Puissance thermique nominale | [28] | Wärmenennleistung | [28] | Potenza termica nominale |
| [29] | Type of energy input | [29] | Type d'énergie utilisée | [29] | Art der Energiezufuhr | [29] | Tipo di alimentazione energetica |
| [30] | Electric | [30] | Electrique | [30] | Elektrik | [30] | Specifiche elettriche |
| [31] | Other items | [31] | Autres caractéristiques | [31] | Sonstige Elemente | [31] | Altri elementi |
| [32] | Capacity control | [32] | Régulation de la puissance | [32] | Leistungssteuerung | [32] | Controllo della capacità |
| [33] | Outlet/variable capacity control | [33] | Contrôle de la capacité de la température de sortie | [33] | Kontrolle der Kapazität der Vorlauftemperatur | [33] | Controllo della capacità della temperatura di uscita serbatoio fisso/variabile |
| [34] | Fixed/Variable | [34] | Fixe/variable | [34] | Fix / variabel | [34] | Flusso idrico utile |
| [35] | Water flow rate capacity control | [35] | Régulation de la puissance du débit nominal d'eau | [35] | Nutzbarer Wasserdurchsatz | [35] | Per le pompa di calore aria/ acqua |
| [36] | For air-to-water heat pumps | [36] | Pour les pompes à chaleur air-eau | [36] | Für Luft-Wasser-Wärmepumpen | [36] | Per PDC acqua/acqua glicolata : |
| [37] | For Water/brine-to-Water heat pumps | [37] | Pour les pompes à chaleur eau-eau ou eau glycolée-eau: | [37] | Bei Wasser-Glykolwasser-/ Wasser-Wasser-Wärmepumpe | [37] | Portata d'aria, all'esterno |
| [38] | Rated Air flow rate, outdoors, m³/h | [38] | Débit d'air nominal, à l'extérieur | [38] | Nenn-Luftdurchsatz, außen | [38] | Portata d'acqua nominale scambiatore esterno, m³/h |
| [39] | Rated Water flow rate outdoor exchanger, m³/h | [39] | Débit nominal d'eau, échangeur thermique extérieur, m³/h | [39] | Nenn-Wasservolumenstrom externer Wärmetauscher m³/h | [39] | Recapiti |
| [40] | Contact details | [40] | Coordonnées de contact | [40] | Kontakt | [40] | |

| SVENSKA | | ESPAÑOL | | NEDERLANDS | | POLSKI | |
|---------|--|---------|--|------------|---|--------|---|
| [1] | Modell(er) | [1] | Modelos | [1] | Model(len) | [1] | Model(-e) |
| [2] | Värmepump/ Typ | [2] | Bomba de calor/ Tipo | [2] | warmtepomp/ soort | [2] | Pompa ciepła/ Rodzaj |
| [3] | Luft-till-vatten | [3] | aire-agua | [3] | Lucht/water | [3] | powietrze/woda |
| [4] | Vatten-till-vatten | [4] | agua-agua | [4] | water/water | [4] | woda/woda |
| [5] | Utomhusvattentyp | [5] | Tipo de agua del intercambiador exterior | [5] | Type externe waterwarmtewisselaar grondwater/ Pekel-water | [5] | Rodzaj wody w wymienniku zewnętrznym |
| [6] | Ground Water (10°C/-)/Brine to Water | [6] | geotérmicas /salmuera-agua | [6] | Uitgerust met aanvullend verwarmingstoestel | [6] | solanka/woda |
| [7] | Ground water/ Saltlösning-till-vatten | [7] | Equipado con un calefactor complementario | [7] | [ja/nee] | [7] | Wyposażona w dodatkowy ogrzewacz [tak/nie] |
| [8] | [ja/nee] | [8] | [sí/no] | [8] | Combinatieverwarmingstoestel met warmtepomp | [8] | Wielofunkcyjny ogrzewacz z pompą ciepła |
| [9] | Pannor med inbyggd tappvarmvattenberedning och med värmepump | [9] | Calefactor combinado con bomba de calor | [9] | Nominale warmteafgifte | [9] | Znamionowa moc cieplna |
| [10] | Nominell avgiven värmeeffekt | [10] | Potencia calorífica nominal | [10] | Het jaarlijkse energieverbruik | [10] | Roczne zużycie energii |
| [11] | Den årliga energiförbrukningen | [11] | El consumo anual de energía | [11] | Seizoensgebonden energie-efficiëntie van ruimteverwarming | [11] | Efficiencia energética stagionale del riscaldamento d'ambiente |
| [12] | Säsongmedelverkningsgrad för rumsuppvärmning | [12] | Eficiencia energética estacional de calefacción | [12] | geluidsvermogensniveau, binnen en/af buiten, uitgedrukt in dB | [12] | poziom mocy akustycznej odniesionej do A, w pomieszczeniu lub na zewnątrz |
| [13] | ljudeffektivnivå, inomhus och/eller utomhus, uttryckt i dB | [13] | nivel de potencia acústica ponderada A, en interiores o exteriores, expresado en dB | [13] | Nominale vermogens en warmteprestatie bij verwarming voor een binnentemperatuur van 20 °C en een buitentemperatuur Tj | [13] | Deklarowana moc grzewcza i współczynnik wydajności grzewczej w przypadku temperatury poniżej 20 °C i dla temperatury zewnętrznej Tj |
| [14] | Deklarerad kapacitetoch värmefaktor vid inomhusförhållanden 20 °C och utomhustemperatur Tj | [14] | Potencias y coeficiente de rendimiento declarados para una calefacción con una temperatura interior de 20 °C y una temperatura exterior Tj | [14] | Klimaat | [14] | Klimatu |
| [15] | Klimat | [15] | Clima | [15] | gemiddelde klimaatomstandigheden/ kouder(e) klimaat/ warmer | [15] | warunki klimatu umiarkowanego/ cieplejszy klimat/ chłodniejszy klimat |
| [16] | Genomsnittliga klimatförhållanden/ kallare klimat/ varmare klimat/Warmer (Athenes) | [16] | condiciones climáticas medias/ clima más fríos/ clima más cálido | [16] | klimaatWarmer (Athenes) | [16] | temperatura dwuwartościowa |
| [17] | Bivalenttemperatur | [17] | Temperatura bivalente | [17] | bivalente temperatuur | [17] | Graniczna temperatura robocza |
| [18] | Gränstemperatur för drift | [18] | Temperatura limite | [18] | Uiterste bedrijfstemperatuur | [18] | Graniczna temperatura robocza dla podgrzewania wody |
| [19] | Uppvärmningsvattnets gränstemperatur för drift | [19] | Temperatura limite de calentamiento de agua | [19] | Uiterste bedrijfstemperatuur van sanitair water | [19] | Regulacja wydajności/ wydajności |
| [20] | Kapacitet | [20] | Capacidad | [20] | Vermogen | [20] | Współczynnik strat |
| [21] | Degraderingskoefficient | [21] | Coefficiente de degradación | [21] | Coefficiente de degradación | [21] | Pobór mocy w trybach innych niż aktywny |
| [22] | Effektförbrukning i andra lägen än aktivt lågeactive mode | [22] | Consumo de electricidad en modos distintos del activoactive mode | [22] | Elekticiteitsverbruik in andere standen dan de actieve modusactive mode | [22] | Tryb wyłączenia |
| [23] | Frånläge | [23] | Modo desactivado | [23] | Uit-stand | [23] | Tryb wyłączonego termostatu |
| [24] | Termostaattrånläge | [24] | Modo desactivado por termostato | [24] | Thermostaat-uit-stand | [24] | Tryb czuwania |
| [25] | Standbyläge | [25] | Modo de espera | [25] | Stand-by-stand | [25] | Tryb włączony grzałki karteru |
| [26] | Vehusvärmärläge | [26] | Modo de calentador del carter | [26] | Carterverwarming-stand | [26] | Ogrzewacz dodatkowy |
| [27] | Extra värmegenerator | [27] | Calefactor complementario | [27] | Aanvullend verwarmingstoestel | [27] | Znamionowa moc cieplna |
| [28] | Nominell avgiven värmeeffekt | [28] | Potencia calorífica nominal | [28] | Nominale warmteafgifte | [28] | Rodzaj pobieranej energii |
| [29] | Typ av tillförd energi | [29] | Tipo de insumo de energía | [29] | Soort energie-input | [29] | Elektryczny/a |
| [30] | Elektrisk | [30] | Electrica | [30] | Elektrisch | [30] | Pozostałe parametry |
| [31] | Övriga poster | [31] | Otros elementos | [31] | Andere kenmerken | [31] | Regulacja wydajności |
| [32] | Kapacitetsreglering | [32] | Control de capacidad | [32] | Vermogenscontrole | [32] | Kontrola wydajności cieplnej na wyjściu |
| [33] | Kapacitetskontroll för utgående temperatur | [33] | Comprobación de capacidad de la temperatura de salida | [33] | Capaciteitscontrole uitredetemperatuur | [33] | Stała / zmienna natężenie przepływu wody użytkowej |
| [34] | Fast/varierande | [34] | Fijo/variable | [34] | Vast/variabel | [34] | Pompy ciepła powietrze/ woda |
| [35] | Nyttiggjort vattenflöde | [35] | caudal de agua útil | [35] | nuttige waterroomsnelheid | [35] | Dla pompy ciepła woda/woda glikol-woda |
| [36] | For air-to-water heat pumps | [36] | Para bombas de calor aire- agua | [36] | Voor lucht/water-warmtepompen | [36] | znamienny przepływ powietrza na zewnątrz |
| [37] | För värmepumpar med vatten/ saltlösning till vatten | [37] | Para bomba de calor agua/agua glicolada - agua | [37] | Voor water/glycolwater warmtepomp -water | [37] | Nominalny wydatek wody w wymienniku zewnętrznym, m³/h |
| [38] | Nominellt luftflöde, ute | [38] | Caudal de aire nominal, exterior | [38] | nominaal luchtdebiet, buiten | [38] | Dane kontaktowe |
| [39] | Klassificerat vattenflöde utomhusväxlare, m³/h | [39] | Caudal de agua nominal, del intercambiador de calor de exterior, m³/h | [39] | Nominaal waterdebiet externe warmtewisselaar m³/u | [39] | |
| [40] | Kontakt | [40] | Datos de contacto | [40] | Contactgegevens | [40] | |

AQUASNAP
Reversible



| | | | |
|---|--------------|--|--|
| Model | 30AWH004XD | | |
| 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 | 2025 | |
| Seasonal space heating energy efficiency, % | ns,heat | 129 | |
| 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

| | | | |
|--|----------------------|-------------|-------------------------|
| Climate: | Average (Strasbourg) | | |
| Bivalent temperature, °C | -7 | | |
| Operating limit temperature, °C | -20 | | |
| Heating water operation limit temperature, °C | 60 | | |
| Tj, °C | Capacity, kW | COPd | Degradation coef |
| -7 | 2.90 | 2.07 | 0.90 |
| 2 | 1.80 | 3.21 | 0.90 |
| 7 | 1.20 | 4.44 | 0.90 |
| 12 | 1.23 | 6.47 | 0.90 |
| Bivalent temperature | 2.90 | 2.07 | - |
| Operation limit temperature | 2.76 | 1.87 | - |

Power consumption in modes other than active mode

| | | |
|----------------------------------|------|--------|
| Off mode, kW | Poff | 0.0500 |
| Thermostat-off mode, kW | Pto | 0.0630 |
| 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 |
|--|------|

| | |
|------------------------|--|
| Contact details | Carrier Refrigeration Operation Czech Republic s.r.o. Lidicka 323 - 266 39 Beroun 3 - Czech Republic |
|------------------------|--|



| | | | |
|---|--------------|--|--|
| Model | 30AWH006XD | | |
| Heat pump type | Air-to-Water | | |
| Equipped with supplementary heater | No | | |
| Heat pump combination heater | No | | |

| | | | |
|--|---------|------|----|
| Rated heat output, kW | Prated | 4.24 | |
| Annual energy consumption, kWh | Qhe | 2687 | |
| Seasonal space heating energy efficiency, % | ns,heat | 126 | |
| 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

| | | | |
|--|----------------------|-------------|-------------------------|
| Climate: | Average (Strasbourg) | | |
| Bivalent temperature, °C | -7 | | |
| Operating limit temperature, °C | -20 | | |
| Heating water operation limit temperature, °C | 60 | | |
| Tj, °C | Capacity, kW | COPd | Degradation coef |
| -7 | 3.75 | 1.97 | 0.90 |
| 2 | 2.30 | 3.07 | 0.90 |
| 7 | 1.48 | 4.48 | 0.90 |
| 12 | 0.76 | 6.33 | 0.90 |
| Bivalent temperature | 3.75 | 1.97 | - |
| Operation limit temperature | 3.56 | 1.79 | - |

Power consumption in modes other than active mode

| | | |
|----------------------------------|------|--------|
| Off mode, kW | Poff | 0.0500 |
| Thermostat-off mode, kW | Pto | 0.0610 |
| Standby mode, kW | Psb | 0.0500 |
| Crankcase heater mode, kW | Pck | 0.0500 |

Supplementary heater

| | | |
|------------------------------|----------|------|
| Rated heat output, kW | Psup | 0.68 |
| 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 |
|--|------|

| | |
|------------------------|--|
| Contact details | Carrier Refrigeration Operation Czech Republic s.r.o. Lidicka 323 - 266 39 Beroun 3 - Czech Republic |
|------------------------|--|

AQUASNAP
Reversible



| | | | |
|---|--------------|--|--|
| Model | 30AWH008XD | | |
| Heat pump type | Air-to-Water | | |
| Equipped with supplementary heater | No | | |
| Heat pump combination heater | No | | |

| | | | |
|--|---------|------|----|
| Rated heat output, kW | Prated | 4.74 | |
| Annual energy consumption, kWh | Qhe | 3444 | |
| Seasonal space heating energy efficiency, % | ns,heat | 110 | |
| Sound power level indoor/outdoor, dB(A) | LwA | 64 | NA |

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

| | | | |
|--|----------------------|-------------|-------------------------|
| Climate: | Average (Strasbourg) | | |
| Bivalent temperature, °C | -7 | | |
| Operating limit temperature, °C | -20 | | |
| Heating water operation limit temperature, °C | 60 | | |
| Tj, °C | Capacity, kW | COPd | Degradation coef |
| -7 | 4.19 | 1.69 | 0.90 |
| 2 | 2.59 | 2.85 | 0.90 |
| 7 | 1.71 | 3.56 | 0.90 |
| 12 | 1.04 | 4.95 | 0.90 |
| Bivalent temperature | 4.19 | 1.69 | - |
| Operation limit temperature | 3.98 | 1.53 | - |

Power consumption in modes other than active mode

| | | |
|----------------------------------|------|--------|
| Off mode, kW | Poff | 0.0500 |
| Thermostat-off mode, kW | Pto | 0.0700 |
| Standby mode, kW | Psb | 0.0500 |
| Crankcase heater mode, kW | Pck | 0.0500 |

Supplementary heater

| | | |
|------------------------------|----------|------|
| Rated heat output, kW | Psup | 0.76 |
| 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 |
|--|------|

| | |
|------------------------|--|
| Contact details | Carrier Refrigeration Operation Czech Republic s.r.o. Lidicka 323 - 266 39 Beroun 3 - Czech Republic |
|------------------------|--|

AQUASNAP
Reversible



| | | | |
|---|--------------|--|--|
| Model | 30AWH012XD | | |
| Heat pump type | Air-to-Water | | |
| Equipped with supplementary heater | No | | |
| Heat pump combination heater | No | | |

| | | | |
|--|---------|------|----|
| Rated heat output, kW | Prated | 8.82 | |
| Annual energy consumption, kWh | Qhe | 6387 | |
| Seasonal space heating energy efficiency, % | ns,heat | 111 | |
| Sound power level indoor/outdoor, dB(A) | LwA | 67 | NA |

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

| | | | |
|--|----------------------|-------------|-------------------------|
| Climate: | Average (Strasbourg) | | |
| Bivalent temperature, °C | -7 | | |
| Operating limit temperature, °C | -20 | | |
| Heating water operation limit temperature, °C | 60 | | |
| Tj, °C | Capacity, kW | COPd | Degradation coef |
| -7 | 7.80 | 1.92 | 0.90 |
| 2 | 4.95 | 2.59 | 0.90 |
| 7 | 3.66 | 4.11 | 0.90 |
| 12 | 4.20 | 5.60 | 0.90 |
| Bivalent temperature | 7.80 | 1.92 | - |
| Operation limit temperature | 7.41 | 1.73 | - |

Power consumption in modes other than active mode

| | | |
|----------------------------------|------|--------|
| Off mode, kW | Poff | 0.0500 |
| Thermostat-off mode, kW | Pto | 0.0860 |
| Standby mode, kW | Psb | 0.0500 |
| Crankcase heater mode, kW | Pck | 0.0500 |

Supplementary heater

| | | |
|------------------------------|----------|------|
| Rated heat output, kW | Psup | 1.41 |
| 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 | 6000 |
|--|------|

| | |
|------------------------|--|
| Contact details | Carrier Refrigeration Operation Czech Republic s.r.o. Lidicka 323 - 266 39 Beroun 3 - Czech Republic |
|------------------------|--|



| | | | |
|---|--------------|--|--|
| Model | 30AWH012XD9 | | |
| Heat pump type | Air-to-Water | | |
| Equipped with supplementary heater | No | | |
| Heat pump combination heater | No | | |

| | | | |
|--|---------|------|----|
| Rated heat output, kW | Prated | 8.51 | |
| Annual energy consumption, kWh | Qhe | 5332 | |
| Seasonal space heating energy efficiency, % | ns,heat | 128 | |
| Sound power level indoor/outdoor, dB(A) | LwA | 68 | NA |

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

| | | | |
|--|----------------------|-------------|-------------------------|
| Climate: | Average (Strasbourg) | | |
| Bivalent temperature, °C | -7 | | |
| Operating limit temperature, °C | -20 | | |
| Heating water operation limit temperature, °C | 60 | | |
| Tj, °C | Capacity, kW | COPd | Degradation coef |
| -7 | 7.53 | 1.98 | 0.90 |
| 2 | 5.55 | 3.36 | 0.90 |
| 7 | 3.55 | 4.38 | 0.90 |
| 12 | 4.03 | 5.93 | 0.90 |
| Bivalent temperature | 7.53 | 1.98 | - |
| Operation limit temperature | 7.15 | 1.79 | - |

Power consumption in modes other than active mode

| | | |
|----------------------------------|------|--------|
| Off mode, kW | Poff | 0.0500 |
| Thermostat-off mode, kW | Pto | 0.0880 |
| Standby mode, kW | Psb | 0.0500 |
| Crankcase heater mode, kW | Pck | 0.0500 |

Supplementary heater

| | | |
|------------------------------|----------|------|
| Rated heat output, kW | Psup | 1.36 |
| Type of energy input | Electric | |

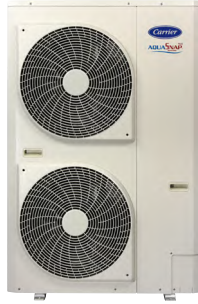
Other items

| | |
|--|----------|
| 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 | 6000 |
|--|------|

| | |
|------------------------|--|
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|------------------------|--|



| | | | |
|---|--------------|--|--|
| Model | 30AWH015XD | | |
| Heat pump type | Air-to-Water | | |
| Equipped with supplementary heater | No | | |
| Heat pump combination heater | No | | |

| | | | |
|--|---------|------|----|
| Rated heat output, kW | Prated | 9.20 | |
| Annual energy consumption, kWh | Qhe | 5928 | |
| Seasonal space heating energy efficiency, % | ns,heat | 125 | |
| Sound power level indoor/outdoor, dB(A) | LwA | 68 | NA |

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

| | | | |
|--|----------------------|-------------|-------------------------|
| Climate: | Average (Strasbourg) | | |
| Bivalent temperature, °C | -7 | | |
| Operating limit temperature, °C | -20 | | |
| Heating water operation limit temperature, °C | 60 | | |
| Tj, °C | Capacity, kW | COPd | Degradation coef |
| -7 | 8.14 | 2.04 | 0.90 |
| 2 | 5.10 | 3.05 | 0.90 |
| 7 | 3.59 | 4.33 | 0.90 |
| 12 | 3.13 | 6.02 | 0.90 |
| Bivalent temperature | 8.14 | 2.04 | - |
| Operation limit temperature | 7.73 | 1.84 | - |

Power consumption in modes other than active mode

| | | |
|----------------------------------|------|--------|
| Off mode, kW | Poff | 0.0500 |
| Thermostat-off mode, kW | Pto | 0.0920 |
| Standby mode, kW | Psb | 0.0500 |
| Crankcase heater mode, kW | Pck | 0.0500 |

Supplementary heater

| | | |
|------------------------------|----------|------|
| Rated heat output, kW | Psup | 1.47 |
| 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 | 6200 |
|--|------|

| | |
|------------------------|--|
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|------------------------|--|



| | | | |
|------------------------------------|--------------|--|--|
| Model | 30AWH015XD9 | | |
| Heat pump type | Air-to-Water | | |
| Equipped with supplementary heater | No | | |
| Heat pump combination heater | No | | |

| | | | |
|---|---------|------|----|
| Rated heat output, kW | Prated | 9.52 | |
| Annual energy consumption, kWh | Qhe | 6043 | |
| Seasonal space heating energy efficiency, % | ns,heat | 127 | |
| Sound power level indoor/outdoor, dB(A) | LwA | 68 | NA |

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

| | | | |
|---|----------------------|------|------------------|
| Climate: | Average (Strasbourg) | | |
| Bivalent temperature, °C | -7 | | |
| Operating limit temperature, °C | -20 | | |
| Heating water operation limit temperature, °C | 60 | | |
| Tj, °C | Capacity, kW | COPd | Degradation coef |
| -7 | 8.42 | 1.90 | 0.90 |
| 2 | 5.46 | 3.33 | 0.90 |
| 7 | 3.36 | 4.10 | 0.90 |
| 12 | 2.90 | 5.37 | 0.90 |
| Bivalent temperature | 8.42 | 1.90 | - |
| Operation limit temperature | 8.00 | 1.72 | - |

Power consumption in modes other than active mode

| | | |
|---------------------------|------|--------|
| Off mode, kW | Poff | 0.0500 |
| Thermostat-off mode, kW | Pto | 0.0900 |
| Standby mode, kW | Psb | 0.0500 |
| Crankcase heater mode, kW | Pck | 0.0500 |

Supplementary heater

| | | |
|-----------------------|----------|------|
| Rated heat output, kW | Psup | 1.52 |
| 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 | 6200 |
|-------------------------------------|------|

| | |
|-----------------|--|
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|-----------------|--|



| | | | |
|---|--------------|--|--|
| 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,heat | 138 | |
| 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

| | | | |
|--|----------------------|-------------|-------------------------|
| Climate: | Average (Strasbourg) | | |
| Bivalent temperature, °C | -7 | | |
| Operating limit temperature, °C | -20 | | |
| Heating water operation limit temperature, °C | 60 | | |
| Tj, °C | Capacity, kW | COPd | Degradation coef |
| -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 | - |
| Operation 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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|------------------------|--|



| | | | |
|---|--------------|--|--|
| Model | 30AWH006HD | | |
| Heat pump type | Air-to-Water | | |
| Equipped with supplementary heater | No | | |
| Heat pump combination heater | No | | |

| | | | |
|--|---------|------|----|
| Rated heat output, kW | Prated | 4.22 | |
| Annual energy consumption, kWh | Qhe | 2571 | |
| Seasonal space heating energy efficiency, % | ns,heat | 132 | |
| 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

| | | | |
|--|----------------------|-------------|-------------------------|
| Climate: | Average (Strasbourg) | | |
| Bivalent temperature, °C | -7 | | |
| Operating limit temperature, °C | -20 | | |
| Heating water operation limit temperature, °C | 60 | | |
| Tj, °C | Capacity, kW | COPd | Degradation coef |
| -7 | 3.73 | 2.02 | 0.90 |
| 2 | 2.25 | 3.17 | 0.90 |
| 7 | 1.45 | 4.68 | 0.90 |
| 12 | 0.72 | 7.20 | 0.90 |
| Bivalent temperature | 3.73 | 2.02 | - |
| Operation limit temperature | 3.54 | 1.82 | - |

Power consumption in modes other than active mode

| | | |
|----------------------------------|------|--------|
| Off mode, kW | Poff | 0.0500 |
| Thermostat-off mode, kW | Pto | 0.0370 |
| Standby mode, kW | Psb | 0.0500 |
| Crankcase heater mode, kW | Pck | 0.0500 |

Supplementary heater

| | | |
|------------------------------|----------|------|
| Rated heat output, kW | Psup | 0.67 |
| 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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|------------------------|--|



| | | | |
|---|--------------|--|--|
| Model | 30AWH008HD | | |
| Heat pump type | Air-to-Water | | |
| Equipped with supplementary heater | No | | |
| Heat pump combination heater | No | | |

| | | | |
|--|---------|------|----|
| Rated heat output, kW | Prated | 4.65 | |
| Annual energy consumption, kWh | Qhe | 3367 | |
| Seasonal space heating energy efficiency, % | ns,heat | 111 | |
| Sound power level indoor/ outdoor, dB(A) | LwA | 64 | NA |

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

| | | | |
|--|----------------------|-------------|-------------------------|
| Climate: | Average (Strasbourg) | | |
| Bivalent temperature, °C | -7 | | |
| Operating limit temperature, °C | -20 | | |
| Heating water operation limit temperature, °C | 60 | | |
| Tj, °C | Capacity, kW | COPd | Degradation coef |
| -7 | 4.11 | 1.66 | 0.90 |
| 2 | 2.51 | 2.79 | 0.90 |
| 7 | 1.67 | 3.71 | 0.90 |
| 12 | 1.00 | 5.56 | 0.90 |
| Bivalent temperature | 4.11 | 1.66 | - |
| Operation limit temperature | 3.90 | 1.51 | - |

Power consumption in modes other than active mode

| | | |
|----------------------------------|------|--------|
| Off mode, kW | Poff | 0.0500 |
| Thermostat-off mode, kW | Pto | 0.0370 |
| Standby mode, kW | Psb | 0.0500 |
| Crankcase heater mode, kW | Pck | 0.0500 |

Supplementary heater

| | | |
|------------------------------|----------|------|
| Rated heat output, kW | Psup | 0.74 |
| 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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|------------------------|--|



| | | | |
|---|--------------|--|--|
| Model | 30AWH012HD | | |
| Heat pump type | Air-to-Water | | |
| Equipped with supplementary heater | No | | |
| Heat pump combination heater | No | | |

| | | | |
|--|---------|------|----|
| Rated heat output, kW | Prated | 8.68 | |
| Annual energy consumption, kWh | Qhe | 6077 | |
| Seasonal space heating energy efficiency, % | ns,heat | 115 | |
| Sound power level indoor/outdoor, dB(A) | LwA | 67 | NA |

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

| | | | |
|--|----------------------|-------------|-------------------------|
| Climate: | Average (Strasbourg) | | |
| Bivalent temperature, °C | -7 | | |
| Operating limit temperature, °C | -20 | | |
| Heating water operation limit temperature, °C | 60 | | |
| Tj, °C | Capacity, kW | COPd | Degradation coef |
| -7 | 7.68 | 1.92 | 0.98 |
| 2 | 4.82 | 2.62 | 0.98 |
| 7 | 3.53 | 4.30 | 0.98 |
| 12 | 4.07 | 6.07 | 0.98 |
| Bivalent temperature | 7.68 | 1.92 | - |
| Operation limit temperature | 7.30 | 1.74 | - |

Power consumption in modes other than active mode

| | | |
|----------------------------------|------|--------|
| Off mode, kW | Poff | 0.0500 |
| Thermostat-off mode, kW | Pto | 0.0120 |
| Standby mode, kW | Psb | 0.0500 |
| Crankcase heater mode, kW | Pck | 0.0500 |

Supplementary heater

| | | |
|------------------------------|----------|------|
| Rated heat output, kW | Psup | 1.39 |
| 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 | 6000 |
|--|------|

| | |
|------------------------|--|
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|------------------------|--|



| | | | |
|---|--------------|--|--|
| Model | 30AWH012HD9 | | |
| Heat pump type | Air-to-Water | | |
| Equipped with supplementary heater | No | | |
| Heat pump combination heater | No | | |

| | | | |
|--|---------|------|----|
| Rated heat output, kW | Prated | 8.38 | |
| Annual energy consumption, kWh | Qhe | 4975 | |
| Seasonal space heating energy efficiency, % | ns,heat | 136 | |
| Sound power level indoor/outdoor, dB(A) | LwA | 68 | NA |

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

| | | | |
|--|----------------------|-------------|-------------------------|
| Climate: | Average (Strasbourg) | | |
| Bivalent temperature, °C | -7 | | |
| Operating limit temperature, °C | -20 | | |
| Heating water operation limit temperature, °C | 60 | | |
| Tj, °C | Capacity, kW | COPd | Degradation coef |
| -7 | 7.41 | 1.99 | 0.98 |
| 2 | 5.45 | 3.45 | 0.98 |
| 7 | 3.43 | 4.64 | 0.98 |
| 12 | 3.91 | 6.41 | 0.98 |
| Bivalent temperature | 7.41 | 1.99 | - |
| Operation limit temperature | 7.04 | 1.80 | - |

Power consumption in modes other than active mode

| | | |
|----------------------------------|------|--------|
| Off mode, kW | Poff | 0.0500 |
| Thermostat-off mode, kW | Pto | 0.0130 |
| Standby mode, kW | Psb | 0.0500 |
| Crankcase heater mode, kW | Pck | 0.0500 |

Supplementary heater

| | | |
|------------------------------|----------|------|
| Rated heat output, kW | Psup | 1.34 |
| 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 | 6000 |
|--|------|

| | |
|------------------------|--|
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|------------------------|--|



| | | | |
|---|--------------|--|--|
| Model | 30AWH015HD | | |
| Heat pump type | Air-to-Water | | |
| Equipped with supplementary heater | No | | |
| Heat pump combination heater | No | | |

| | | | |
|--|---------|------|----|
| Rated heat output, kW | Prated | 9.05 | |
| Annual energy consumption, kWh | Qhe | 5748 | |
| Seasonal space heating energy efficiency, % | ns,heat | 127 | |
| Sound power level indoor/outdoor, dB(A) | LwA | 68 | NA |

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

| | | | |
|--|----------------------|-------------|-------------------------|
| Climate: | Average (Strasbourg) | | |
| Bivalent temperature, °C | -7 | | |
| Operating limit temperature, °C | -20 | | |
| Heating water operation limit temperature, °C | 60 | | |
| Tj, °C | Capacity, kW | COPd | Degradation coef |
| -7 | 8.01 | 2.04 | 0.97 |
| 2 | 4.90 | 2.97 | 0.97 |
| 7 | 3.46 | 4.61 | 0.97 |
| 12 | 3.01 | 6.69 | 0.97 |
| Bivalent temperature | 8.01 | 2.04 | - |
| Operation limit temperature | 7.61 | 1.84 | - |

Power consumption in modes other than active mode

| | | |
|----------------------------------|------|--------|
| Off mode, kW | Poff | 0.0500 |
| Thermostat-off mode, kW | Pto | 0.0120 |
| Standby mode, kW | Psb | 0.0500 |
| Crankcase heater mode, kW | Pck | 0.0500 |

Supplementary heater

| | | |
|------------------------------|----------|------|
| Rated heat output, kW | Psup | 1.45 |
| 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 | 6200 |
|--|------|

| | |
|------------------------|--|
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|------------------------|--|



| | | | |
|---|--------------|--|--|
| Model | 30AWH015HD9 | | |
| Heat pump type | Air-to-Water | | |
| Equipped with supplementary heater | No | | |
| Heat pump combination heater | No | | |

| | | | |
|--|---------|------|----|
| Rated heat output, kW | Prated | 9.37 | |
| Annual energy consumption, kWh | Qhe | 5806 | |
| Seasonal space heating energy efficiency, % | ns,heat | 130 | |
| Sound power level indoor/outdoor, dB(A) | LwA | 68 | NA |

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

| | | | |
|--|----------------------|-------------|-------------------------|
| Climate: | Average (Strasbourg) | | |
| Bivalent temperature, °C | -7 | | |
| Operating limit temperature, °C | -20 | | |
| Heating water operation limit temperature, °C | 60 | | |
| Tj, °C | Capacity, kW | COPd | Degradation coef |
| -7 | 8.29 | 1.90 | 0.97 |
| 2 | 5.30 | 3.31 | 0.97 |
| 7 | 3.23 | 4.36 | 0.97 |
| 12 | 2.77 | 6.02 | 0.97 |
| Bivalent temperature | 8.29 | 1.90 | - |
| Operation limit temperature | 7.88 | 1.72 | - |

Power consumption in modes other than active mode

| | | |
|----------------------------------|------|--------|
| Off mode, kW | Poff | 0.0500 |
| Thermostat-off mode, kW | Pto | 0.0120 |
| Standby mode, kW | Psb | 0.0500 |
| Crankcase heater mode, kW | Pck | 0.0500 |

Supplementary heater

| | | |
|------------------------------|----------|------|
| Rated heat output, kW | Psup | 1.50 |
| 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 | 6200 |
|--|------|

| | |
|------------------------|--|
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|------------------------|--|