

10309

09 - 2019

# DYNACIAT LG

Ecoconception (813/2013)

TECHNICAL DATA MANUAL



|  |                                       |
|--|---------------------------------------|
| <b>Model</b> <sup>[1]</sup>                              |                                       |
| <b>Heat pump type</b> <sup>[2]</sup>                     | Water-to-Water <sup>[4]</sup>         |
| <b>Outdoor water type</b> <sup>[5]</sup>                 | Ground Water (10°C/°): <sup>[6]</sup> |
| <b>Equipped with supplementary heater</b> <sup>[7]</sup> | Yes/No <sup>[8]</sup>                 |
| <b>Heat pump combination heater</b> <sup>[9]</sup>       | Yes/No <sup>[8]</sup>                 |

|   |        |
|---|--------|
| <b>Rated heat output, kW</b> <sup>[10]</sup>                        | Prated |
| <b>Annual energy consumption, kWh</b> <sup>[11]</sup>               | Qhe    |
| <b>Seasonal space heating energy efficiency, %</b> <sup>[12]</sup>  | ns,h   |
| <b>Energy Classes</b> <sup>[13]</sup>                               | NA     |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> <sup>[14]</sup> | SCOP   |
| <b>Sound power level, dB(A)</b> <sup>[15]</sup>                     | LWA    |

Declared capacity and coefficient of performance for heating at indoor conditions 20°C and outdoor temperature Tj <sup>[16]</sup>

|  |   |
|--|---|
| <b>Temperature Application:</b> <sup>[17]</sup>                      | NA                                      |
| <b>Climate:</b> <sup>[18]</sup>                                      | Average /Colder /Warmer <sup>[19]</sup> |
| <b>Bivalent temperature, °C</b> <sup>[20]</sup>                      | Tbivalent                               |
| <b>Operating limit temperature, °C</b> <sup>[21]</sup>               | TOL                                     |
| <b>Heating water operation limit temperature, °C</b> <sup>[22]</sup> | WTOL                                    |
| <b>Tj, °C</b>  | Capacity Pdh, kW <sup>[23]</sup>        |
|  | COPd                                    |
|  | Degradation coef, Cdh <sup>[24]</sup>   |
|  |   |
|  |   |
|  |   |
| <b>Bivalent temperature</b> <sup>[20]</sup>                          |   |
| <b>Operating limit temperature</b> <sup>[21]</sup>                   |   |

Power consumption in modes other than active mode <sup>[25]</sup>

|   |      |
|---|------|
| <b>Off mode, W</b> <sup>[26]</sup>              | POFF |
| <b>Thermostat-off mode, W</b> <sup>[27]</sup>   | PTO  |
| <b>Standby mode, W</b> <sup>[28]</sup>          | PSB  |
| <b>Crankcase heater mode, W</b> <sup>[29]</sup> | PCK  |

**Supplementary heater** <sup>[30]</sup>

|  |                          |
|--|--------------------------|
| <b>Rated heat output, kW</b> <sup>[31]</sup> | Psup                     |
| <b>Type of energy input</b> <sup>[32]</sup>  | Electric <sup>[33]</sup> |

**Other items** <sup>[34]</sup>

|  |                                |
|--|--------------------------------|
| <b>Capacity control</b> <sup>[35]</sup>                    |                                |
| <b>Outlet temperature capacity control</b> <sup>[36]</sup> | Fixed/Variable <sup>[37]</sup> |
| <b>Water flow rate capacity control</b> <sup>[38]</sup>    | Fixed/Variable <sup>[37]</sup> |

**For air-to-water heat pumps** <sup>[39]</sup>

|  |  |
|--|--|
| <b>Rated water flow rate outdoor exchanger m<sup>3</sup>/h</b> <sup>[42]</sup> |  |
|--|--|

**Contact details** <sup>[43]</sup>

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

**Accessories and Installed Options**

No Accessories or Installed Options selected

| 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 aqua   |
| [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] [s]/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] Energy Classes  | [13] Classes d'énergie  | [13] Energieklassen   | [13] Classi energetiche   |
| [14] Seasonal Coefficient Of Performance, kWh/kWh  | [14] Coefficient saisonnier de performance  | [14] Jahresarbeitszahl  | [14] Coefficiente di Prestazione Stagionale   |
| [15] Sound power level, dB(A)  | [15] Niveau de puissance acoustique, dB(A)  | [15] Schalleistungspegel, dB(A)   | [15] Il livello di potenza sonora, dB(A)  |
| [16] Declared capacity and coefficient of performance for heating at indoor conditions 20°C and outdoor temperature Tj | [16] Puissances et coefficient de performances déclarés en chauffage pour une température intérieure de 20 °C et pour une température extérieure Tj | [16] enleistungen und -Leistung-skoefizienten im Heizbetrieb bei einer Innenraumtemperatur von 20 °C und einer Außentemperatur Tj | [16] Potenze e coefficiente di prestazioni dichiarate in fase riscaldamento per una temperatura interna di 20 °C e per una temperatura esterna Tj |
| [17] Temperature Application   | [17] Température d'application  | [17] Klimaverwendung  | [17] Temperatura d'applicazione   |
| [19] Climate   | [19] Climat :   | [19] Durchschnittliche Klimaverhältnisse/ kälter/wärmer   | [19] Clima  |
| [19] Average (Strasbourg)/Colder (Helsinki)/Warmer (Athens)  | [19] Moyennes/ plus froid/ plus chaud   | [19] Durchschnittliche Klimaverhältnisse/ kälter/wärmer   | [19] Climatiche medie/ clima più freddo/ clima più caldo  |
| [20] Bivalent temperature  | [20] Température bivalente  | [20] Bivalenttemperatur   | [20] Temperatura bivalente  |
| [21] Operating limit temperature   | [21] Température maximale (de service...)   | [21] Grenzwert der Betriebstemperatur   | [21] Temperatura limite di esercizio  |
| [22] Heating water operation limit temperature   | [22] Température maximale de service de l'eau de chauffage  | [22] Grenzwert der Betriebstemperatur des Heizwasser  | [22] Temperatura limite di esercizio di riscaldamento dell'acqua  |
| [23] Capacity  | [23] Capacité   | [23] Die Leistung   | [23] Capacità   |
| [24] Degradation coeff   | [24] Coefficient de dégradation   | [24] Minderungsfaktor   | [24] Coefficiente di degradazione   |
| [25] Power consumption in modes other than active mode   | [25] Consommation d'électricité dans les modes autres que le mode actif   | [25] Stromverbrauch in anderen Betriebsarten als dem Betriebszustand  | [25] Consumo energetico in modi diversi dal modo attivo   |
| [26] Off mode  | [26] Mode arrêté  | [26] Aus-Zustand  | [26] Modo spento  |
| [27] Thermostat off-mode   | [27] Mode arrêt par thermostat  | [27] Thermostat-aus-Zustand   | [27] Modo termostato spento   |
| [28] Standby mode  | [28] Mode veille  | [28] Bereitschaftszustand   | [28] Modo stand-by  |
| [29] Crankcase heater mode   | [29] Mode résistance de carter active   | [29] Betriebszustand mit Kurbelgehäuseheizung   | [29] Modo riscaldamento del carter  |
| [30] Supplementary heater  | [30] Dispositif de chauffage d'appoint  | [30] Zusatzheizgerät  | [30] Riscaldatore supplementare   |
| [31] Rated heat output   | [31] Puissance thermique nominale   | [31] Wärmenennleistung  | [31] Potenza termica nominale   |
| [32] Type of energy input  | [32] Type d'énergie utilisée  | [32] Art der Energiezufuhr  | [32] Tipo di alimentazione energetica   |
| [33] Electric  | [33] Electrique   | [33] Elektrik   | [33] Specifiche elettriche  |
| [34] Other items   | [34] Autres caractéristiques  | [34] Sonstige Elemente  | [34] Altri elementi   |
| [35] Capacity control  | [35] Régulation de la puissance   | [35] Leistungssteuerung   | [35] Controllo della capacità   |
| [36] Outlet temperature capacity control   | [36] Contrôle de la capacité de la température de sortie  | [36] Kontrolle der Kapazität der Vorlauftemperatur  | [36] Controllo della capacità della temperatura di uscita serbatoio   |
| [37] Fixed/Variable  | [37] Fixe/variable  | [37] Fix / variabel   | [37] fissa/variabile  |
| [38] Water flow rate capacity control  | [38] Régulation de la puissance du débit nominal d'eau  | [38] Nutzbarer Wasserdurchsatz  | [38] Flusso idrico utile  |
| [39] For air-to-water heat pumps   | [39] Pour les pompes à chaleur air-eau  | [39] Für Luft-Wasser-Wärmepumpen  | [39] Per le pompe di calore aria/ acqua   |
| [40] For Water/brine-to-Water heat pumps   | [40] Pour les pompes à chaleur eau-eau ou eau glycolée-eau:   | [40] Wärmepumpe   | [40] Per PDC acqua/acqua glicolata :  |
| [41] Rated Air flow rate, outdoors, m³/h   | [41] Débit d'air nominal, à l'extérieur   | [41] Nenn-Luftdurchsatz, außen  | [41] Portata d'aria, all'esterno  |
| [42] Rated Water flow rate outdoor exchanger, m³/h   | [42] Débit nominal d'eau, échangeur thermique extérieur, m³/h   | [42] Wasservolumenstrom externer Wärmetauscher m³/h   | [42] Portata d'acqua nominale scambiatore esterno, m³/h   |
| [43] Contact details   | [43] Coordonnées de contact   | [43] Kontakt  | [43] Recapiti   |

| SVENSKA  | ESPAÑOL  | NEREDLANDS   | 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   |
| [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  | [5] Rodzaj wody w wymienniku zewnętrznym   |
| [6] Ground Water (10°C)/Brine to Water   | [6] geotérmicas /salmuera-agua   | [6] grondwater/ Pekel-water  | [6] solanka/woda   |
| [7] Ground water/ Saltlösning-till-vatten  | [7] Equipado con un calefactor complementario  | [7] Uitrust met aanvullend verwarmingstoestel  | [7] Wyposażona w dodatkowy ogrzewacz   |
| [8] [Ja/nej]   | [8] [s/no]   | [8] [ja/neen]  | [8] [tak/nie]  |
| [9] Pannor med inbyggd tappvarmvattenberedning och med värmepump                                 | [9] Calefactor combinado con bomba de calor  | [9] Combinatieverwarmingstoestel met warmtepomp  | [9] Wielofunkcyjny ogrzewacz z pompą ciepła  |
| [10] Nominell avgiven värmeeffekt  | [10] Potencia calorífica nominal   | [10] Nominale warmteafgifte  | [10] Znamionowa moc cieplna  |
| [11] Den årliga energiförbrukningen  | [11] El consumo anual de energía   | [11] Het jaarlijkse energieverbruik  | [11] Roczne zużycie energii  |
| [12] Säsongsmedelverkningsgrad för rumsuppvärmning   | [12] Eficiencia energética estacional de calefacción   | [12] Seizoensgebonden energie-efficiëntie van ruimteverwarming   | [12] Sezonowa efektywność energetyczna ogrzewania pomieszczeń AWH  |
| [13] Energiklasser   | [13] Clases energéticas  | [13] Energieklassen  | [13] Klasy energetyczne  |
| [14] Värmefaktor, årsmedel   | [14] Coeficiente de rendimiento estacional   | [14] Seizoenswarmteprestatie coëfficiënt   | [14] Wskaźnik sezonowej Efektywności   |
| [15] Ljudeffektivitet, dB(A)   | [15] Nivel de potencia acústica, dB(A)   | [15] geluidsvermogensniveau, dB(A)   | [15] Poziom mocy akustycznej, dB(A)  |
| [16] Deklarerad kapacitetoch värmefaktor vid inomhusförhållanden 20 °C och utomhus temperatur Tj | [16] declarados para una calefacción con una temperatura interior de 20 °C y una temperatura exterior Tj | [16] Nominale vermogens en warmteprestatie bij verwarming voor een binnentemperatuur van 20 °C en een buitentemperatuur Tj | [16] Deklarowana moc grzewcza i współczynnik wydajności grzewczej w przypadku temperatury poniżej 20 °C i dla temperatury zewnętrznej Tj |
| [17] Temperaturförhållanden  | [17] Aplicación de temperatura   | [17] Temperatuur toepassing  | [17] Warunki Temperaturowe   |
| [18] Klimat  | [18] Clima   | [18] Klimaat   | [18] Klimat  |
| [19] Genomsnittliga klimatförhållanden/ kallare klimat/ varmare klimatetWarmer (Athens)          | [19] condiciones climáticas medias/ clima más frío/ clima más cálido                                     | [19] gemiddelde klimaatomstandigheden/ kouder(e) klimaat/ warmer klimaatWarmer (Athènes)                                   | [19] warunki klimatu umiarkowanego/ Ciepłejszy klimat/ chłodniejszy klimat   |
| [20] Bivalenttemperatur  | [20] Temperatura bivalente   | [20] bivalente temperatuur   | [20] temperatura dwuwartościowa  |
| [21] Gränstemperatur för drift   | [21] Temperatura límite de calentamiento de agua   | [21] Uiterste bedrijfstemperatuur  | [21] Graniczna temperatura robocza   |
| [22] Uppvärmingsvattnets gränstemperatur för drift   | [22] Capacidad   | [22] Uiterste bedrijfstemperatuur van sanitair water   | [22] Graniczna temperatura robocza dla podgrzewania wody   |
| [23] Kapacitet   | [23] Coeficiente de degradación  | [23] Vermogen  | [23] Regulacja wydajności / Wydajność  |
| [24] Degraderingskoefficient   | [24] Consumo de electricidad en modos distintos del activoactive mode                                    | [24] Coeficiente de degradación  | [24] Współczynnik strat  |
| [25] Effektförbrukning i andra lägen än aktivt lågeactive mode                                   | [25] Modo desactivado  | [25] Electriciteitsverbruik in andere standen dan de actieve modusactive mode  | [25] Pobór mocy w trybach innych niż aktywny   |
| [26] Fräniläge   | [26] Modo desactivado por termostato   | [26] Uit-stand   | [26] Tryb wyłączenia   |
| [27] Termostatfräniläge  | [27] Modo de espera  | [27] Thermostaat-uit-stand   | [27] Tryb czuwania   |
| [28] Standbyläge   | [28] Modo de calentador del cárter   | [28] Stand-by-stand  | [28] Tryb grzałki karteru  |
| [29] Vevhusvärmariäläge  | [29] Calefactor complementario   | [29] Carterverwarming-stand  | [29] Ogrzewacz dodatkowy   |
| [30] Extra värmegenerator  | [30] Potencia calorífica nominal   | [30] Aanvullend verwarmingstoestel   | [30] Znamionowa moc cieplna  |
| [31] Nominell avgiven värmeeffekt  | [31] Tipo de insumo de energía   | [31] Nominale warmteafgifte  | [31] Rodzaj pobieranej energii   |
| [32] Typ av tillförd energi  | [32] Electrica   | [32] Soort energie-input   | [32] Elektryczny/a   |
| [33] Elektrisk   | [33] Otros elementos   | [33] Elektrisch  | [33] Pozostałe parametry   |
| [34] Övriga poster   | [34] Control de capacidad  | [34] Andere kenmerken  | [34] Regulacja wydajności  |
| [35] Kapacitetsreglering   | [35] Comprobación de capacidad de la temperatura de salida   | [35] Vermogenscontrole   | [35] Kontrola wydajności cieplnej na wyjściu   |
| [36] Kapacitetskontroll för utgående temperatur  | [36] Fijo/variable   | [36] Capaciteitscontrole uitredetemperatuur  | [36] Stała / zmienna   |
| [37] Fast/varierande   | [37] caudal de agua útil   | [37] nuttige waterstromsnelheid  | [37] natężenie przepływu wody użytkowej  |
| [38] Nyttiggjort vattenflöde   | [38] Para bombas de calor aire- agua   | [38] Voor lucht/water-warmtepompen   | [38] Pompy ciepła powietrze/ woda  |
| [39] For air-to-water heat pumps   | [39] Para bomba de calor agua/agua glicolada - agua  | [39] Voor water/glycolwater warmtepomp -water  | [39] Dla pompy ciepła woda/woda glikol-woda  |
| [40] För värmepumpar med vatten/saltlösning till vatten  | [40] Caudal de aire nominal, exterior  | [40] nominal luchtdebiet, buiten   | [40] znamionowy przepływ powietrza na zewnętrz   |
| [41] Nominellt luftflöde, ute  | [41] Caudal de agua nominal, del intercambiador de calor de exterior, m <sup>3</sup> /h                  | [41] Nominaal waterdebiet externe warmtewisselaar m <sup>3</sup> /u  | [41] Nominalny wydatek wody w wymienniku zewnętrznym, m <sup>3</sup> /h  |
| [42] Klassificerat vattenflöde utomhusväxlare, m <sup>3</sup> /h                                 | [42] Datos de contacto   | [42] Contactgegevens   | [42] Dane kontaktowe   |
| [43] Kontakt   |  |  |  |

|   |                        |       |
|---|------------------------|-------|
| <b>Model</b>  | DYNACIAT LG 080A       |       |
| <b>Heat pump type</b>                               | Water-to-Water         |       |
| <b>Outdoor water type</b>                           | Ground Water (10°C/-); |       |
| <b>Equipped with supplementary heater</b>           | No                     |       |
| <b>Heat pump combination heater</b>                 | No                     |       |
| <b>Rated heat output, kW</b>                        | Prated                 | 34    |
| <b>Annual energy consumption, kWh</b>               | Qhe                    | 12892 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h                   | 206   |
| <b>Energy Classes</b>                               |                        | A++   |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP                   | 5.35  |
| <b>Sound power level, dB(A)</b>                     | LwA                    | 67    |

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) |      |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7   |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10  |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55   |
| <b>Tj, °C</b>  | Capacity Pdh, kW     | COPd |
| -7   | 29.7                 | 5.61 |
| 2  | 29.9                 | 5.89 |
| 7  | 30.1                 | 6.17 |
| 12   | 30.3                 | 6.40 |
| <b>Bivalent temperature</b>                          |                      | 5.61 |
| <b>Operating limit temperature</b>                   | 29.6                 | 5.48 |
|  |                      | -    |
|  |                      | -    |

Power consumption in modes other than active mode

|                                 |      |     |
|---------------------------------|------|-----|
| <b>Off mode, W</b>              | POFF | 0   |
| <b>Thermostat-off mode, W</b>   | PTO  | 429 |
| <b>Standby mode, W</b>          | PSB  | 30  |
| <b>Crankcase heater mode, W</b> | PCK  | 0   |

Supplementary heater

|                              |      |          |
|------------------------------|------|----------|
| <b>Rated heat output, kW</b> | Psup | 4.0      |
| <b>Type of energy input</b>  |      | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Fixed    |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |     |
|---|-----|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 7.0 |
|---|-----|

Contact details

|  |   |
|--|---|
|  | Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE |
|--|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |       |
|---|------------------------|-------|
| <b>Model</b>  | DYNACIAT LG 090A       |       |
| <b>Heat pump type</b>                               | Water-to-Water         |       |
| <b>Outdoor water type</b>                           | Ground Water (10°C/-); |       |
| <b>Equipped with supplementary heater</b>           | No                     |       |
| <b>Heat pump combination heater</b>                 | No                     |       |
| <b>Rated heat output, kW</b>                        | Prated                 | 39    |
| <b>Annual energy consumption, kWh</b>               | Qhe                    | 15079 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h                   | 205   |
| <b>Energy Classes</b>                               |                        | A++   |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP                   | 5.33  |
| <b>Sound power level, dB(A)</b>                     | LwA                    | 68    |

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) |      |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7   |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10  |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55   |
| <b>Tj, °C</b>  | Capacity Pdh, kW     | COPd |
| -7   | 34.7                 | 5.61 |
| 2  | 34.9                 | 5.89 |
| 7  | 35.2                 | 6.16 |
| 12   | 35.5                 | 6.39 |
| <b>Bivalent temperature</b>                          |                      | 5.61 |
| <b>Operating limit temperature</b>                   | 34.5                 | 5.47 |
|  |                      | -    |
|  |                      | -    |

Power consumption in modes other than active mode

|                                 |      |     |
|---------------------------------|------|-----|
| <b>Off mode, W</b>              | POFF | 0   |
| <b>Thermostat-off mode, W</b>   | PTO  | 510 |
| <b>Standby mode, W</b>          | PSB  | 30  |
| <b>Crankcase heater mode, W</b> | PCK  | 0   |

Supplementary heater

|                              |      |          |
|------------------------------|------|----------|
| <b>Rated heat output, kW</b> | Psup | 4.7      |
| <b>Type of energy input</b>  |      | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Fixed    |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |     |
|---|-----|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 8.2 |
|---|-----|

Contact details

|  |   |
|--|---|
|  | Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE |
|--|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |
|---|------------------------|
| <b>Model</b>                              | DYNACIAT LG 100A       |
| <b>Heat pump type</b>                     | Water-to-Water         |
| <b>Outdoor water type</b>                 | Ground Water (10°C/-); |
| <b>Equipped with supplementary heater</b> | No                     |
| <b>Heat pump combination heater</b>       | No                     |

|   |        |       |
|---|--------|-------|
| <b>Rated heat output, kW</b>                        | Prated | 43    |
| <b>Annual energy consumption, kWh</b>               | Qhe    | 16855 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h   | 202   |
| <b>Energy Classes</b>                               |        | A++   |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP   | 5.24  |
| <b>Sound power level, dB(A)</b>                     | LwA    | 69    |

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) |                       |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7                    |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10                   |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55                    |
| <b>Tj, °C</b>  | Capacity Pdh, kW     | COPd                  |
| -7   | 38.1                 | 5.56                  |
| 2  | 38.3                 | 5.82                  |
| 7  | 38.6                 | 6.07                  |
| 12   | 38.9                 | 6.32                  |
| <b>Bivalent temperature</b>                          | 38.1                 | 5.56                  |
| <b>Operating limit temperature</b>                   | 38.0                 | 5.43                  |
|  |                      | Degradation coef, Cdh |
|  |                      | -                     |
|  |                      | 0.91                  |
|  |                      | 0.91                  |
|  |                      | 0.90                  |
|  |                      | -                     |
|  |                      | -                     |

Power consumption in modes other than active mode

|                                 |      |     |
|---------------------------------|------|-----|
| <b>Off mode, W</b>              | POFF | 0   |
| <b>Thermostat-off mode, W</b>   | PTO  | 598 |
| <b>Standby mode, W</b>          | PSB  | 30  |
| <b>Crankcase heater mode, W</b> | PCK  | 0   |

Supplementary heater

|                              |      |          |
|------------------------------|------|----------|
| <b>Rated heat output, kW</b> | Psup | 5.1      |
| <b>Type of energy input</b>  |      | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Fixed    |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |     |
|---|-----|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 9.0 |
|---|-----|

Contact details

|   |
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|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |
|---|------------------------|
| <b>Model</b>                              | DYNACIAT LG 120A       |
| <b>Heat pump type</b>                     | Water-to-Water         |
| <b>Outdoor water type</b>                 | Ground Water (10°C/-); |
| <b>Equipped with supplementary heater</b> | No                     |
| <b>Heat pump combination heater</b>       | No                     |

|   |        |       |
|---|--------|-------|
| <b>Rated heat output, kW</b>                        | Prated | 50    |
| <b>Annual energy consumption, kWh</b>               | Qhe    | 19516 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h   | 203   |
| <b>Energy Classes</b>                               |        | A++   |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP   | 5.28  |
| <b>Sound power level, dB(A)</b>                     | LwA    | 69    |

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) |                       |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7                    |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10                   |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55                    |
| <b>Tj, °C</b>  | Capacity Pdh, kW     | COPd                  |
| -7   | 44.4                 | 5.59                  |
| 2  | 44.7                 | 5.86                  |
| 7  | 44.9                 | 6.11                  |
| 12   | 45.2                 | 6.35                  |
| <b>Bivalent temperature</b>                          | 44.4                 | 5.59                  |
| <b>Operating limit temperature</b>                   | 44.2                 | 5.47                  |
|  |                      | Degradation coef, Cdh |
|  |                      | -                     |
|  |                      | 0.91                  |
|  |                      | 0.91                  |
|  |                      | 0.90                  |
|  |                      | -                     |
|  |                      | -                     |

Power consumption in modes other than active mode

|                                 |      |     |
|---------------------------------|------|-----|
| <b>Off mode, W</b>              | POFF | 0   |
| <b>Thermostat-off mode, W</b>   | PTO  | 692 |
| <b>Standby mode, W</b>          | PSB  | 30  |
| <b>Crankcase heater mode, W</b> | PCK  | 0   |

Supplementary heater

|                              |      |          |
|------------------------------|------|----------|
| <b>Rated heat output, kW</b> | Psup | 5.9      |
| <b>Type of energy input</b>  |      | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Fixed    |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |      |
|---|------|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 10.5 |
|---|------|

Contact details

|   |
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|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|                                    |                        |
|------------------------------------|------------------------|
| Model                              | DYNACIAT LG 130A       |
| Heat pump type                     | Water-to-Water         |
| Outdoor water type                 | Ground Water (10°C/-); |
| Equipped with supplementary heater | No                     |
| Heat pump combination heater       | No                     |

|  |        |       |
|--|--------|-------|
| Rated heat output, kW                        | Prated | 57    |
| Annual energy consumption, kWh               | Qhe    | 22464 |
| Seasonal space heating energy efficiency, %  | ns,h   | 201   |
| Energy Classes                               |        | A++   |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP   | 5.23  |
| Sound power level, dB(A)                     | LwA    | 70    |

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                  | -10  |
| Heating water operation limit temperature, °C | WTOL                 | 55   |
| Tj, °C  | Capacity Pdh, kW     | COPd |
| -7  | 50.6                 | 5.55 |
| 2   | 50.9                 | 5.81 |
| 7   | 51.2                 | 6.06 |
| 12  | 51.5                 | 6.32 |
| Bivalent temperature                          | 50.6                 | 5.55 |
| Operating limit temperature                   | 50.5                 | 5.43 |

Power consumption in modes other than active mode

|                          |      |     |
|--------------------------|------|-----|
| Off mode, W              | POFF | 0   |
| Thermostat-off mode, W   | PTO  | 810 |
| Standby mode, W          | PSB  | 30  |
| Crankcase heater mode, W | PCK  | 0   |

Supplementary heater

|                       |      |          |
|-----------------------|------|----------|
| Rated heat output, kW | Psup | 6.7      |
| Type of energy input  |      | Electric |

Other items

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

For air-to-water heat pumps

|  |      |
|--|------|
| Rated water flow rate outdoor exchanger m³/h | 11.9 |
|--|------|

Contact details

|   |
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|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|                                    |                        |
|------------------------------------|------------------------|
| Model                              | DYNACIAT LG 150A       |
| Heat pump type                     | Water-to-Water         |
| Outdoor water type                 | Ground Water (10°C/-); |
| Equipped with supplementary heater | No                     |
| Heat pump combination heater       | No                     |

|  |        |       |
|--|--------|-------|
| Rated heat output, kW                        | Prated | 64    |
| Annual energy consumption, kWh               | Qhe    | 24901 |
| Seasonal space heating energy efficiency, %  | ns,h   | 202   |
| Energy Classes                               |        | A++   |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP   | 5.26  |
| Sound power level, dB(A)                     | LwA    | 70    |

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                  | -10  |
| Heating water operation limit temperature, °C | WTOL                 | 55   |
| Tj, °C  | Capacity Pdh, kW     | COPd |
| -7  | 56.4                 | 5.58 |
| 2   | 56.9                 | 5.85 |
| 7   | 57.3                 | 6.10 |
| 12  | 57.8                 | 6.37 |
| Bivalent temperature                          | 56.4                 | 5.58 |
| Operating limit temperature                   | 56.2                 | 5.45 |

Power consumption in modes other than active mode

|                          |      |     |
|--------------------------|------|-----|
| Off mode, W              | POFF | 0   |
| Thermostat-off mode, W   | PTO  | 900 |
| Standby mode, W          | PSB  | 30  |
| Crankcase heater mode, W | PCK  | 0   |

Supplementary heater

|                       |      |          |
|-----------------------|------|----------|
| Rated heat output, kW | Psup | 7.6      |
| Type of energy input  |      | Electric |

Other items

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

For air-to-water heat pumps

|  |      |
|--|------|
| Rated water flow rate outdoor exchanger m³/h | 13.3 |
|--|------|

Contact details

|   |
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|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |
|---|------------------------|
| <b>Model</b>                              | DYNACIAT LG 180A       |
| <b>Heat pump type</b>                     | Water-to-Water         |
| <b>Outdoor water type</b>                 | Ground Water (10°C/-); |
| <b>Equipped with supplementary heater</b> | No                     |
| <b>Heat pump combination heater</b>       | No                     |

|   |        |       |
|---|--------|-------|
| <b>Rated heat output, kW</b>                        | Prated | 79    |
| <b>Annual energy consumption, kWh</b>               | Qhe    | 27401 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h   | 230   |
| <b>Energy Classes</b>                               |        | NA    |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP   | 5.95  |
| <b>Sound power level, dB(A)</b>                     | LwA    | 72    |

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) |      |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7   |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10  |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55   |
| <b>Tj, °C</b>  | Capacity Pdh, kW     | COPd |
| -7   | 70.2                 | 5.63 |
| 2  | 42.7                 | 6.19 |
| 7  | 37.6                 | 6.44 |
| 12   | 37.9                 | 6.65 |
| <b>Bivalent temperature</b>                          | 70.2                 | 5.63 |
| <b>Operating limit temperature</b>                   | 70.0                 | 5.49 |

Power consumption in modes other than active mode

|                                 |      |     |
|---------------------------------|------|-----|
| <b>Off mode, W</b>              | POFF | 0   |
| <b>Thermostat-off mode, W</b>   | PTO  | 885 |
| <b>Standby mode, W</b>          | PSB  | 30  |
| <b>Crankcase heater mode, W</b> | PCK  | 0   |

Supplementary heater

|                              |      |          |
|------------------------------|------|----------|
| <b>Rated heat output, kW</b> | Psup | 9.3      |
| <b>Type of energy input</b>  |      | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Variable |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |      |
|---|------|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 16.6 |
|---|------|

Contact details

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

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |
|---|------------------------|
| <b>Model</b>                              | DYNACIAT LG 200A       |
| <b>Heat pump type</b>                     | Water-to-Water         |
| <b>Outdoor water type</b>                 | Ground Water (10°C/-); |
| <b>Equipped with supplementary heater</b> | No                     |
| <b>Heat pump combination heater</b>       | No                     |

|   |        |       |
|---|--------|-------|
| <b>Rated heat output, kW</b>                        | Prated | 87    |
| <b>Annual energy consumption, kWh</b>               | Qhe    | 30208 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h   | 228   |
| <b>Energy Classes</b>                               |        | NA    |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP   | 5.90  |
| <b>Sound power level, dB(A)</b>                     | LwA    | 72    |

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) |      |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7   |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10  |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55   |
| <b>Tj, °C</b>  | Capacity Pdh, kW     | COPd |
| -7   | 76.8                 | 5.53 |
| 2  | 46.8                 | 6.16 |
| 7  | 41.9                 | 6.43 |
| 12   | 42.2                 | 6.62 |
| <b>Bivalent temperature</b>                          | 76.8                 | 5.53 |
| <b>Operating limit temperature</b>                   | 76.6                 | 5.40 |

Power consumption in modes other than active mode

|                                 |      |      |
|---------------------------------|------|------|
| <b>Off mode, W</b>              | POFF | 0    |
| <b>Thermostat-off mode, W</b>   | PTO  | 1090 |
| <b>Standby mode, W</b>          | PSB  | 30   |
| <b>Crankcase heater mode, W</b> | PCK  | 0    |

Supplementary heater

|                              |      |          |
|------------------------------|------|----------|
| <b>Rated heat output, kW</b> | Psup | 10.2     |
| <b>Type of energy input</b>  |      | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Variable |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |      |
|---|------|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 18.1 |
|---|------|

Contact details

|   |
|---|
| Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE |
|---|

Accessories and Installed Options

No Accessories or Installed Options selected



|                                    |                        |  |
|------------------------------------|------------------------|--|
| Model                              | DYNACIAT LG 240A       |  |
| Heat pump type                     | Water-to-Water         |  |
| Outdoor water type                 | Ground Water (10°C/-); |  |
| Equipped with supplementary heater | No                     |  |
| Heat pump combination heater       | No                     |  |

|  |        |       |
|--|--------|-------|
| Rated heat output, kW                        | Prated | 101   |
| Annual energy consumption, kWh               | Qhe    | 34928 |
| Seasonal space heating energy efficiency, %  | ns,h   | 229   |
| Energy Classes                               | SCOP   | NA    |
| Seasonal Coefficient Of Performance, kWh/kWh | LwA    | 5.93  |
| Sound power level, dB(A)                     |        | 72    |

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                  | -10  |
| Heating water operation limit temperature, °C | WTOL                 | 55   |
| Tj, °C  | Capacity Pdh, kW     | COPd |
| -7  | 89.3                 | 5.60 |
| 2   | 54.3                 | 6.19 |
| 7   | 48.7                 | 6.44 |
| 12  | 49.3                 | 6.64 |
| Bivalent temperature                          | 89.3                 | 5.60 |
| Operating limit temperature                   | 89.0                 | 5.46 |

Power consumption in modes other than active mode

|                          |      |      |
|--------------------------|------|------|
| Off mode, W              | POFF | 0    |
| Thermostat-off mode, W   | PTO  | 1173 |
| Standby mode, W          | PSB  | 30   |
| Crankcase heater mode, W | PCK  | 0    |

Supplementary heater

|                       |      |          |
|-----------------------|------|----------|
| Rated heat output, kW | Psup | 11.9     |
| 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 water flow rate outdoor exchanger m³/h | 21.0 |
|--|------|

Contact details

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

Accessories and Installed Options

No Accessories or Installed Options selected

|                                    |                        |  |
|------------------------------------|------------------------|--|
| Model                              | DYNACIAT LG 260A       |  |
| Heat pump type                     | Water-to-Water         |  |
| Outdoor water type                 | Ground Water (10°C/-); |  |
| Equipped with supplementary heater | No                     |  |
| Heat pump combination heater       | No                     |  |

|  |        |       |
|--|--------|-------|
| Rated heat output, kW                        | Prated | 115   |
| Annual energy consumption, kWh               | Qhe    | 39321 |
| Seasonal space heating energy efficiency, %  | ns,h   | 232   |
| Energy Classes                               | SCOP   | NA    |
| Seasonal Coefficient Of Performance, kWh/kWh | LwA    | 6.01  |
| Sound power level, dB(A)                     |        | 73    |

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                  | -10  |
| Heating water operation limit temperature, °C | WTOL                 | 55   |
| Tj, °C  | Capacity Pdh, kW     | COPd |
| -7  | 101.8                | 5.54 |
| 2   | 62.0                 | 6.28 |
| 7   | 55.8                 | 6.59 |
| 12  | 56.4                 | 6.79 |
| Bivalent temperature                          | 101.8                | 5.54 |
| Operating limit temperature                   | 101.4                | 5.42 |

Power consumption in modes other than active mode

|                          |      |      |
|--------------------------|------|------|
| Off mode, W              | POFF | 0    |
| Thermostat-off mode, W   | PTO  | 1384 |
| Standby mode, W          | PSB  | 30   |
| Crankcase heater mode, W | PCK  | 0    |

Supplementary heater

|                       |      |          |
|-----------------------|------|----------|
| Rated heat output, kW | Psup | 13.7     |
| 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 water flow rate outdoor exchanger m³/h | 23.9 |
|--|------|

Contact details

|   |
|---|
| Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE |
|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |
|---|------------------------|
| <b>Model</b>                              | DYNACIAT LG 300A       |
| <b>Heat pump type</b>                     | Water-to-Water         |
| <b>Outdoor water type</b>                 | Ground Water (10°C/-); |
| <b>Equipped with supplementary heater</b> | No                     |
| <b>Heat pump combination heater</b>       | No                     |

|   |        |       |
|---|--------|-------|
| <b>Rated heat output, kW</b>                        | Prated | 129   |
| <b>Annual energy consumption, kWh</b>               | Qhe    | 44128 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h   | 233   |
| <b>Energy Classes</b>                               |        | NA    |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP   | 6.03  |
| <b>Sound power level, dB(A)</b>                     | LwA    | 73    |

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) |      |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7   |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10  |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55   |
| <b>Tj, °C</b>  | Capacity Pdh, kW     | COPd |
| -7   | 114.5                | 5.61 |
| 2  | 69.7                 | 6.29 |
| 7  | 63.0                 | 6.58 |
| 12   | 63.9                 | 6.80 |
| <b>Bivalent temperature</b>                          | 114.5                | 5.61 |
| <b>Operating limit temperature</b>                   | 114.1                | 5.47 |

Power consumption in modes other than active mode

|                                 |      |      |
|---------------------------------|------|------|
| <b>Off mode, W</b>              | POFF | 0    |
| <b>Thermostat-off mode, W</b>   | PTO  | 1438 |
| <b>Standby mode, W</b>          | PSB  | 30   |
| <b>Crankcase heater mode, W</b> | PCK  | 0    |

Supplementary heater

|                              |      |          |
|------------------------------|------|----------|
| <b>Rated heat output, kW</b> | Psup | 15.4     |
| <b>Type of energy input</b>  |      | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Variable |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |      |
|---|------|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 26.9 |
|---|------|

Contact details

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|---|
| Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE |
|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |
|---|------------------------|
| <b>Model</b>                              | DYNACIAT LG 360A       |
| <b>Heat pump type</b>                     | Water-to-Water         |
| <b>Outdoor water type</b>                 | Ground Water (10°C/-); |
| <b>Equipped with supplementary heater</b> | No                     |
| <b>Heat pump combination heater</b>       | No                     |

|   |        |       |
|---|--------|-------|
| <b>Rated heat output, kW</b>                        | Prated | 155   |
| <b>Annual energy consumption, kWh</b>               | Qhe    | 51215 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h   | 242   |
| <b>Energy Classes</b>                               |        | NA    |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP   | 6.24  |
| <b>Sound power level, dB(A)</b>                     | LwA    | 76    |

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) |      |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7   |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10  |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55   |
| <b>Tj, °C</b>  | Capacity Pdh, kW     | COPd |
| -7   | 137.5                | 5.74 |
| 2  | 83.7                 | 6.44 |
| 7  | 53.8                 | 6.59 |
| 12   | 49.6                 | 6.71 |
| <b>Bivalent temperature</b>                          | 137.5                | 5.74 |
| <b>Operating limit temperature</b>                   | 137.0                | 5.60 |

Power consumption in modes other than active mode

|                                 |      |      |
|---------------------------------|------|------|
| <b>Off mode, W</b>              | POFF | 0    |
| <b>Thermostat-off mode, W</b>   | PTO  | 1338 |
| <b>Standby mode, W</b>          | PSB  | 30   |
| <b>Crankcase heater mode, W</b> | PCK  | 0    |

Supplementary heater

|                              |      |          |
|------------------------------|------|----------|
| <b>Rated heat output, kW</b> | Psup | 18.4     |
| <b>Type of energy input</b>  |      | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Variable |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |      |
|---|------|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 32.6 |
|---|------|

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|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |       |
|---|------------------------|-------|
| <b>Model</b>  | DYNACIAT LG 390A       |       |
| <b>Heat pump type</b>                               | Water-to-Water         |       |
| <b>Outdoor water type</b>                           | Ground Water (10°C/-); |       |
| <b>Equipped with supplementary heater</b>           | No                     |       |
| <b>Heat pump combination heater</b>                 | No                     |       |
| <b>Rated heat output, kW</b>                        | Prated                 | 177   |
| <b>Annual energy consumption, kWh</b>               | Qhe                    | 57775 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h                   | 243   |
| <b>Energy Classes</b>                               | NA                     |       |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP                   | 6.28  |
| <b>Sound power level, dB(A)</b>                     | LwA                    | 77    |

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) |      |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7   |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10  |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55   |
| <b>Tj, °C</b>  | Capacity Pdh, kW     | COPd |
| -7   | 156.1                | 5.71 |
| 2  | 95.0                 | 6.46 |
| 7  | 61.1                 | 6.69 |
| 12   | 57.2                 | 6.89 |
| <b>Bivalent temperature</b>                          | 156.1                | 5.71 |
| <b>Operating limit temperature</b>                   | 155.6                | 5.58 |

Power consumption in modes other than active mode

|                                 |             |      |
|---------------------------------|-------------|------|
| <b>Off mode, W</b>              | <b>POFF</b> | 0    |
| <b>Thermostat-off mode, W</b>   | <b>PTO</b>  | 1476 |
| <b>Standby mode, W</b>          | <b>PSB</b>  | 30   |
| <b>Crankcase heater mode, W</b> | <b>PCK</b>  | 0    |

Supplementary heater

|                              |             |          |
|------------------------------|-------------|----------|
| <b>Rated heat output, kW</b> | <b>Psup</b> | 20.9     |
| <b>Type of energy input</b>  |             | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Variable |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |      |
|---|------|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 37.0 |
|---|------|

Contact details

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|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |       |
|---|------------------------|-------|
| <b>Model</b>  | DYNACIAT LG 450A       |       |
| <b>Heat pump type</b>                               | Water-to-Water         |       |
| <b>Outdoor water type</b>                           | Ground Water (10°C/-); |       |
| <b>Equipped with supplementary heater</b>           | No                     |       |
| <b>Heat pump combination heater</b>                 | No                     |       |
| <b>Rated heat output, kW</b>                        | Prated                 | 196   |
| <b>Annual energy consumption, kWh</b>               | Qhe                    | 65118 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h                   | 239   |
| <b>Energy Classes</b>                               | NA                     |       |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP                   | 6.18  |
| <b>Sound power level, dB(A)</b>                     | LwA                    | 78    |

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) |      |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7   |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10  |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55   |
| <b>Tj, °C</b>  | Capacity Pdh, kW     | COPd |
| -7   | 173.1                | 5.62 |
| 2  | 105.3                | 6.37 |
| 7  | 67.7                 | 6.56 |
| 12   | 63.6                 | 6.72 |
| <b>Bivalent temperature</b>                          | 173.1                | 5.62 |
| <b>Operating limit temperature</b>                   | 172.4                | 5.49 |

Power consumption in modes other than active mode

|                                 |             |      |
|---------------------------------|-------------|------|
| <b>Off mode, W</b>              | <b>POFF</b> | 0    |
| <b>Thermostat-off mode, W</b>   | <b>PTO</b>  | 1795 |
| <b>Standby mode, W</b>          | <b>PSB</b>  | 30   |
| <b>Crankcase heater mode, W</b> | <b>PCK</b>  | 0    |

Supplementary heater

|                              |             |          |
|------------------------------|-------------|----------|
| <b>Rated heat output, kW</b> | <b>Psup</b> | 23.3     |
| <b>Type of energy input</b>  |             | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Variable |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |      |
|---|------|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 40.9 |
|---|------|

Contact details

|   |
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|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |
|---|------------------------|
| <b>Model</b>                              | DYNACIAT LG 480A       |
| <b>Heat pump type</b>                     | Water-to-Water         |
| <b>Outdoor water type</b>                 | Ground Water (10°C/-); |
| <b>Equipped with supplementary heater</b> | No                     |
| <b>Heat pump combination heater</b>       | No                     |

|   |        |       |
|---|--------|-------|
| <b>Rated heat output, kW</b>                        | Prated | 208   |
| <b>Annual energy consumption, kWh</b>               | Qhe    | 68519 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h   | 242   |
| <b>Energy Classes</b>                               |        | NA    |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP   | 6.24  |
| <b>Sound power level, dB(A)</b>                     | LwA    | 76    |

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) |      |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7   |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10  |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55   |
| <b>Tj, °C</b>  | Capacity Pdh, kW     | COPd |
| -7   | 184.0                | 5.79 |
| 2  | 112.0                | 6.47 |
| 7  | 72.0                 | 6.55 |
| 12   | 50.7                 | 6.32 |
| <b>Bivalent temperature</b>                          | 184.0                | 5.79 |
| <b>Operating limit temperature</b>                   | 183.3                | 5.64 |

Power consumption in modes other than active mode

|                                 |      |      |
|---------------------------------|------|------|
| <b>Off mode, W</b>              | POFF | 0    |
| <b>Thermostat-off mode, W</b>   | PTO  | 1857 |
| <b>Standby mode, W</b>          | PSB  | 30   |
| <b>Crankcase heater mode, W</b> | PCK  | 0    |

Supplementary heater

|                              |      |          |
|------------------------------|------|----------|
| <b>Rated heat output, kW</b> | Psup | 24.8     |
| <b>Type of energy input</b>  |      | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Variable |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |      |
|---|------|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 43.5 |
|---|------|

Contact details

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|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |
|---|------------------------|
| <b>Model</b>                              | DYNACIAT LG 520A       |
| <b>Heat pump type</b>                     | Water-to-Water         |
| <b>Outdoor water type</b>                 | Ground Water (10°C/-); |
| <b>Equipped with supplementary heater</b> | No                     |
| <b>Heat pump combination heater</b>       | No                     |

|   |        |       |
|---|--------|-------|
| <b>Rated heat output, kW</b>                        | Prated | 234   |
| <b>Annual energy consumption, kWh</b>               | Qhe    | 77201 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h   | 241   |
| <b>Energy Classes</b>                               |        | NA    |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP   | 6.24  |
| <b>Sound power level, dB(A)</b>                     | LwA    | 77    |

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) |      |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7   |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10  |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55   |
| <b>Tj, °C</b>  | Capacity Pdh, kW     | COPd |
| -7   | 207.2                | 5.72 |
| 2  | 126.1                | 6.46 |
| 7  | 81.1                 | 6.58 |
| 12   | 56.7                 | 6.37 |
| <b>Bivalent temperature</b>                          | 207.2                | 5.72 |
| <b>Operating limit temperature</b>                   | 206.3                | 5.59 |

Power consumption in modes other than active mode

|                                 |      |      |
|---------------------------------|------|------|
| <b>Off mode, W</b>              | POFF | 0    |
| <b>Thermostat-off mode, W</b>   | PTO  | 2136 |
| <b>Standby mode, W</b>          | PSB  | 30   |
| <b>Crankcase heater mode, W</b> | PCK  | 0    |

Supplementary heater

|                              |      |          |
|------------------------------|------|----------|
| <b>Rated heat output, kW</b> | Psup | 27.9     |
| <b>Type of energy input</b>  |      | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Variable |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |      |
|---|------|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 48.9 |
|---|------|

Contact details

|   |
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|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|                                    |                        |
|------------------------------------|------------------------|
| Model                              | DYNACIAT LG 600A       |
| Heat pump type                     | Water-to-Water         |
| Outdoor water type                 | Ground Water (10°C/-); |
| Equipped with supplementary heater | No                     |
| Heat pump combination heater       | No                     |

|  |        |       |
|--|--------|-------|
| Rated heat output, kW                        | Prated | 32    |
| Annual energy consumption, kWh               | Qhe    | 15181 |
| Seasonal space heating energy efficiency, %  | ns,h   | 164   |
| Energy Classes                               |        | A++   |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP   | 4.31  |
| Sound power level, dB(A)                     | LwA    | 67    |

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            |      |                       |
| Operating limit temperature, °C               | TOL                  |      |                       |
| Heating water operation limit temperature, °C | WTOL                 |      |                       |
| Tj, °C  | Capacity Pdh, kW     | COPd | Degradation coef, Cdh |
| -7  | 28.1                 | 3.83 | -                     |
| 2   | 28.5                 | 4.50 | 0.96                  |
| 7   | 28.8                 | 4.98 | 0.95                  |
| 12  | 29.1                 | 5.52 | 0.95                  |
| Bivalent temperature                          | 28.1                 | 3.83 | -                     |
| Operating limit temperature                   | 27.9                 | 3.57 | -                     |

Power consumption in modes other than active mode

|                          |      |     |
|--------------------------|------|-----|
| Off mode, W              | POFF | 0   |
| Thermostat-off mode, W   | PTO  | 269 |
| Standby mode, W          | PSB  | 30  |
| Crankcase heater mode, W | PCK  | 0   |

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

Other items

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

For air-to-water heat pumps

|  |     |
|--|-----|
| Rated water flow rate outdoor exchanger m³/h | 5.8 |
|--|-----|

|                 |   |
|-----------------|---|
| Contact details | Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE |
|-----------------|---|

**Accessories and Installed Options**  
No Accessories or Installed Options selected

|                                    |                        |
|------------------------------------|------------------------|
| Model                              | DYNACIAT LG 600A       |
| Heat pump type                     | Water-to-Water         |
| Outdoor water type                 | Ground Water (10°C/-); |
| Equipped with supplementary heater | No                     |
| Heat pump combination heater       | No                     |

|  |        |       |
|--|--------|-------|
| Rated heat output, kW                        | Prated | 261   |
| Annual energy consumption, kWh               | Qhe    | 88266 |
| Seasonal space heating energy efficiency, %  | ns,h   | 235   |
| Energy Classes                               |        | NA    |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP   | 6.08  |
| Sound power level, dB(A)                     | LwA    | 78    |

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            |      |                       |
| Operating limit temperature, °C               | TOL                  |      |                       |
| Heating water operation limit temperature, °C | WTOL                 |      |                       |
| Tj, °C  | Capacity Pdh, kW     | COPd | Degradation coef, Cdh |
| -7  | 231.2                | 5.70 | -                     |
| 2   | 140.7                | 6.32 | -                     |
| 7   | 90.5                 | 6.35 | -                     |
| 12  | 63.8                 | 6.10 | 0.90                  |
| Bivalent temperature                          | 231.2                | 5.70 | -                     |
| Operating limit temperature                   | 230.2                | 5.56 | -                     |

Power consumption in modes other than active mode

|                          |      |      |
|--------------------------|------|------|
| Off mode, W              | POFF | 0    |
| Thermostat-off mode, W   | PTO  | 2716 |
| Standby mode, W          | PSB  | 30   |
| Crankcase heater mode, W | PCK  | 0    |

|                       |          |
|-----------------------|----------|
| Supplementary heater  |          |
| Rated heat output, kW | Psup     |
| 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 water flow rate outdoor exchanger m³/h | 54.6 |
|--|------|

|                 |   |
|-----------------|---|
| Contact details | Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE |
|-----------------|---|

**Accessories and Installed Options**  
No Accessories or Installed Options selected

|   |                        |       |
|---|------------------------|-------|
| <b>Model</b>  | DYNACIAT LG 090A       |       |
| <b>Heat pump type</b>                               | Water-to-Water         |       |
| <b>Outdoor water type</b>                           | Ground Water (10°C/-); |       |
| <b>Equipped with supplementary heater</b>           | No                     |       |
| <b>Heat pump combination heater</b>                 | No                     |       |
| <b>Rated heat output, kW</b>                        | Prated                 | 37    |
| <b>Annual energy consumption, kWh</b>               | Qhe                    | 17655 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h                   | 164   |
| <b>Energy Classes</b>                               |                        | A++   |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP                   | 4.31  |
| <b>Sound power level, dB(A)</b>                     | LwA                    | 68    |

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                  | -10  |
| Heating water operation limit temperature, °C | WTOL                 | 55   |
| Tj, °C  | Capacity Pdh, kW     | COPd |
| -7  | 32.7                 | 3.86 |
| 2   | 33.1                 | 4.51 |
| 7   | 33.4                 | 4.97 |
| 12  | 33.9                 | 5.50 |
| Bivalent temperature                          | 32.7                 | 3.86 |
| Operating limit temperature                   | 32.5                 | 3.61 |

Power consumption in modes other than active mode

|                          |      |     |
|--------------------------|------|-----|
| Off mode, W              | POFF | 0   |
| Thermostat-off mode, W   | PTO  | 320 |
| Standby mode, W          | PSB  | 30  |
| Crankcase heater mode, W | PCK  | 0   |

Supplementary heater

|                       |      |          |
|-----------------------|------|----------|
| Rated heat output, kW | Psup | 4.4      |
| Type of energy input  |      | Electric |

Other items

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

For air-to-water heat pumps

|  |     |
|--|-----|
| Rated water flow rate outdoor exchanger m³/h | 6.8 |
|--|-----|

Contact details

|   |
|---|
| Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE |
|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |       |
|---|------------------------|-------|
| <b>Model</b>  | DYNACIAT LG 100A       |       |
| <b>Heat pump type</b>                               | Water-to-Water         |       |
| <b>Outdoor water type</b>                           | Ground Water (10°C/-); |       |
| <b>Equipped with supplementary heater</b>           | No                     |       |
| <b>Heat pump combination heater</b>                 | No                     |       |
| <b>Rated heat output, kW</b>                        | Prated                 | 40    |
| <b>Annual energy consumption, kWh</b>               | Qhe                    | 19250 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h                   | 163   |
| <b>Energy Classes</b>                               |                        | A++   |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP                   | 4.29  |
| <b>Sound power level, dB(A)</b>                     | LwA                    | 69    |

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                  | -10  |
| Heating water operation limit temperature, °C | WTOL                 | 55   |
| Tj, °C  | Capacity Pdh, kW     | COPd |
| -7  | 35.4                 | 3.85 |
| 2   | 36.2                 | 4.50 |
| 7   | 36.6                 | 4.96 |
| 12  | 37.1                 | 5.46 |
| Bivalent temperature                          | 35.4                 | 3.85 |
| Operating limit temperature                   | 35.1                 | 3.59 |

Power consumption in modes other than active mode

|                          |      |     |
|--------------------------|------|-----|
| Off mode, W              | POFF | 0   |
| Thermostat-off mode, W   | PTO  | 362 |
| Standby mode, W          | PSB  | 30  |
| Crankcase heater mode, W | PCK  | 0   |

Supplementary heater

|                       |      |          |
|-----------------------|------|----------|
| Rated heat output, kW | Psup | 4.9      |
| Type of energy input  |      | Electric |

Other items

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

For air-to-water heat pumps

|  |     |
|--|-----|
| Rated water flow rate outdoor exchanger m³/h | 7.3 |
|--|-----|

Contact details

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|---|
| Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE |
|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |
|---|------------------------|
| <b>Model</b>                              | DYNACIAT LG 120A       |
| <b>Heat pump type</b>                     | Water-to-Water         |
| <b>Outdoor water type</b>                 | Ground Water (10°C/-); |
| <b>Equipped with supplementary heater</b> | No                     |
| <b>Heat pump combination heater</b>       | No                     |

|   |        |       |
|---|--------|-------|
| <b>Rated heat output, kW</b>                        | Prated | 47    |
| <b>Annual energy consumption, kWh</b>               | Qhe    | 22496 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h   | 164   |
| <b>Energy Classes</b>                               |        | A++   |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP   | 4.31  |
| <b>Sound power level, dB(A)</b>                     | LwA    | 69    |

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) |                       |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7                    |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10                   |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55                    |
| <b>Tj, °C</b>  | Capacity Pdh, kW     | COPd                  |
| -7   | 41.6                 | 3.84                  |
| 2  | 42.4                 | 4.52                  |
| 7  | 42.9                 | 4.99                  |
| 12   | 43.4                 | 5.51                  |
| <b>Bivalent temperature</b>                          | 41.6                 | 3.84                  |
| <b>Operating limit temperature</b>                   | 41.3                 | 3.58                  |
|  |                      | Degradation coef, Cdh |
|  |                      | -                     |
|  |                      | 0.95                  |
|  |                      | 0.95                  |
|  |                      | 0.95                  |
|  |                      | -                     |
|  |                      | -                     |

Power consumption in modes other than active mode

|                                 |      |     |
|---------------------------------|------|-----|
| <b>Off mode, W</b>              | POFF | 0   |
| <b>Thermostat-off mode, W</b>   | PTO  | 422 |
| <b>Standby mode, W</b>          | PSB  | 30  |
| <b>Crankcase heater mode, W</b> | PCK  | 0   |

Supplementary heater

|                              |      |          |
|------------------------------|------|----------|
| <b>Rated heat output, kW</b> | Psup | 5.8      |
| <b>Type of energy input</b>  |      | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Fixed    |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |     |
|---|-----|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 8.6 |
|---|-----|

Contact details

|   |
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| Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE |
|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |
|---|------------------------|
| <b>Model</b>                              | DYNACIAT LG 130A       |
| <b>Heat pump type</b>                     | Water-to-Water         |
| <b>Outdoor water type</b>                 | Ground Water (10°C/-); |
| <b>Equipped with supplementary heater</b> | No                     |
| <b>Heat pump combination heater</b>       | No                     |

|   |        |       |
|---|--------|-------|
| <b>Rated heat output, kW</b>                        | Prated | 54    |
| <b>Annual energy consumption, kWh</b>               | Qhe    | 25873 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h   | 165   |
| <b>Energy Classes</b>                               |        | A++   |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP   | 4.33  |
| <b>Sound power level, dB(A)</b>                     | LwA    | 70    |

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) |                       |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7                    |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10                   |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55                    |
| <b>Tj, °C</b>  | Capacity Pdh, kW     | COPd                  |
| -7   | 48.1                 | 3.93                  |
| 2  | 48.8                 | 4.56                  |
| 7  | 49.2                 | 5.00                  |
| 12   | 49.7                 | 5.49                  |
| <b>Bivalent temperature</b>                          | 48.1                 | 3.93                  |
| <b>Operating limit temperature</b>                   | 47.4                 | 3.65                  |
|  |                      | Degradation coef, Cdh |
|  |                      | -                     |
|  |                      | 0.95                  |
|  |                      | 0.95                  |
|  |                      | 0.94                  |
|  |                      | -                     |
|  |                      | -                     |

Power consumption in modes other than active mode

|                                 |      |     |
|---------------------------------|------|-----|
| <b>Off mode, W</b>              | POFF | 0   |
| <b>Thermostat-off mode, W</b>   | PTO  | 504 |
| <b>Standby mode, W</b>          | PSB  | 30  |
| <b>Crankcase heater mode, W</b> | PCK  | 0   |

Supplementary heater

|                              |      |          |
|------------------------------|------|----------|
| <b>Rated heat output, kW</b> | Psup | 7.0      |
| <b>Type of energy input</b>  |      | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Fixed    |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |      |
|---|------|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 10.0 |
|---|------|

Contact details

|   |
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|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|                                    |                        |  |
|------------------------------------|------------------------|--|
| Model                              | DYNACIAT LG 150A       |  |
| Heat pump type                     | Water-to-Water         |  |
| Outdoor water type                 | Ground Water (10°C/-); |  |
| Equipped with supplementary heater | No                     |  |
| Heat pump combination heater       | No                     |  |

|  |        |       |
|--|--------|-------|
| Rated heat output, kW                        | Prated | 59    |
| Annual energy consumption, kWh               | Qhe    | 28316 |
| Seasonal space heating energy efficiency, %  | ns,h   | 163   |
| Energy Classes                               |        | A++   |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP   | 4.28  |
| Sound power level, dB(A)                     | LwA    | 70    |

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                  | -10                   |
| Heating water operation limit temperature, °C | WTOL                 | 55                    |
| Tj, °C  | Capacity Pdh, kW     | COPd                  |
| -7  | 52.0                 | 3.82                  |
| 2   | 53.3                 | 4.49                  |
| 7   | 54.1                 | 4.96                  |
| 12  | 55.0                 | 5.48                  |
| Bivalent temperature                          | 52.0                 | 3.82                  |
| Operating limit temperature                   | 52.0                 | 3.59                  |
|   |                      | Degradation coef, Cdh |
|   |                      | -                     |
|   |                      | 0.95                  |
|   |                      | 0.95                  |
|   |                      | 0.95                  |
|   |                      | -                     |
|   |                      | -                     |

Power consumption in modes other than active mode

|                          |      |     |
|--------------------------|------|-----|
| Off mode, W              | POFF | 0   |
| Thermostat-off mode, W   | PTO  | 541 |
| Standby mode, W          | PSB  | 30  |
| Crankcase heater mode, W | PCK  | 0   |

Supplementary heater

|                       |      |          |
|-----------------------|------|----------|
| Rated heat output, kW | Psup | 6.8      |
| Type of energy input  |      | Electric |

Other items

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

For air-to-water heat pumps

|  |      |
|--|------|
| Rated water flow rate outdoor exchanger m³/h | 10.9 |
|--|------|

Contact details

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

Accessories and Installed Options

No Accessories or Installed Options selected

|                                    |                        |  |
|------------------------------------|------------------------|--|
| Model                              | DYNACIAT LG 180A       |  |
| Heat pump type                     | Water-to-Water         |  |
| Outdoor water type                 | Ground Water (10°C/-); |  |
| Equipped with supplementary heater | No                     |  |
| Heat pump combination heater       | No                     |  |

|  |        |       |
|--|--------|-------|
| Rated heat output, kW                        | Prated | 75    |
| Annual energy consumption, kWh               | Qhe    | 32069 |
| Seasonal space heating energy efficiency, %  | ns,h   | 184   |
| Energy Classes                               |        | NA    |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP   | 4.79  |
| Sound power level, dB(A)                     | LwA    | 72    |

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                  | -10                   |
| Heating water operation limit temperature, °C | WTOL                 | 55                    |
| Tj, °C  | Capacity Pdh, kW     | COPd                  |
| -7  | 66.0                 | 3.81                  |
| 2   | 40.2                 | 4.91                  |
| 7   | 35.9                 | 5.56                  |
| 12  | 36.3                 | 6.18                  |
| Bivalent temperature                          | 66.0                 | 3.81                  |
| Operating limit temperature                   | 65.2                 | 3.55                  |
|   |                      | Degradation coef, Cdh |
|   |                      | -                     |
|   |                      | -                     |
|   |                      | 0.92                  |
|   |                      | 0.91                  |
|   |                      | -                     |
|   |                      | -                     |

Power consumption in modes other than active mode

|                          |      |     |
|--------------------------|------|-----|
| Off mode, W              | POFF | 0   |
| Thermostat-off mode, W   | PTO  | 530 |
| Standby mode, W          | PSB  | 30  |
| Crankcase heater mode, W | PCK  | 0   |

Supplementary heater

|                       |      |          |
|-----------------------|------|----------|
| Rated heat output, kW | Psup | 9.3      |
| 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 water flow rate outdoor exchanger m³/h | 13.6 |
|--|------|

Contact details

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

Accessories and Installed Options

No Accessories or Installed Options selected



|                                    |                        |  |
|------------------------------------|------------------------|--|
| Model                              | DYNACIAT LG 200A       |  |
| Heat pump type                     | Water-to-Water         |  |
| Outdoor water type                 | Ground Water (10°C/-); |  |
| Equipped with supplementary heater | No                     |  |
| Heat pump combination heater       | No                     |  |

|  |        |       |
|--|--------|-------|
| Rated heat output, kW                        | Prated | 83    |
| Annual energy consumption, kWh               | Qhe    | 35188 |
| Seasonal space heating energy efficiency, %  | ns,h   | 185   |
| Energy Classes                               |        | NA    |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP   | 4.83  |
| Sound power level, dB(A)                     | LwA    | 72    |

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                  | -10  |
| Heating water operation limit temperature, °C | WTOL                 | 55   |
| Tj, °C  | Capacity Pdh, kW     | COPd |
| -7  | 73.1                 | 3.84 |
| 2   | 44.5                 | 4.95 |
| 7   | 39.3                 | 5.67 |
| 12  | 40.0                 | 6.26 |
| Bivalent temperature                          | 73.1                 | 3.84 |
| Operating limit temperature                   | 72.8                 | 3.59 |

Power consumption in modes other than active mode

|                          |      |     |
|--------------------------|------|-----|
| Off mode, W              | POFF | 0   |
| Thermostat-off mode, W   | PTO  | 676 |
| Standby mode, W          | PSB  | 30  |
| Crankcase heater mode, W | PCK  | 0   |

Supplementary heater

|                       |      |          |
|-----------------------|------|----------|
| Rated heat output, kW | Psup | 9.8      |
| 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 water flow rate outdoor exchanger m³/h | 15.2 |
|--|------|

Contact details

|   |
|---|
| Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE |
|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|                                    |                        |  |
|------------------------------------|------------------------|--|
| Model                              | DYNACIAT LG 240A       |  |
| Heat pump type                     | Water-to-Water         |  |
| Outdoor water type                 | Ground Water (10°C/-); |  |
| Equipped with supplementary heater | No                     |  |
| Heat pump combination heater       | No                     |  |

|  |        |       |
|--|--------|-------|
| Rated heat output, kW                        | Prated | 93    |
| Annual energy consumption, kWh               | Qhe    | 40386 |
| Seasonal space heating energy efficiency, %  | ns,h   | 181   |
| Energy Classes                               |        | NA    |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP   | 4.74  |
| Sound power level, dB(A)                     | LwA    | 72    |

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                  | -10  |
| Heating water operation limit temperature, °C | WTOL                 | 55   |
| Tj, °C  | Capacity Pdh, kW     | COPd |
| -7  | 82.1                 | 3.77 |
| 2   | 50.0                 | 4.82 |
| 7   | 45.8                 | 5.55 |
| 12  | 46.6                 | 6.25 |
| Bivalent temperature                          | 82.1                 | 3.77 |
| Operating limit temperature                   | 81.2                 | 3.51 |

Power consumption in modes other than active mode

|                          |      |     |
|--------------------------|------|-----|
| Off mode, W              | POFF | 0   |
| Thermostat-off mode, W   | PTO  | 683 |
| Standby mode, W          | PSB  | 30  |
| Crankcase heater mode, W | PCK  | 0   |

Supplementary heater

|                       |      |          |
|-----------------------|------|----------|
| Rated heat output, kW | Psup | 11.7     |
| 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 water flow rate outdoor exchanger m³/h | 16.8 |
|--|------|

Contact details

|   |
|---|
| Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE |
|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|                                    |                        |
|------------------------------------|------------------------|
| Model                              | DYNACIAT LG 260A       |
| Heat pump type                     | Water-to-Water         |
| Outdoor water type                 | Ground Water (10°C/-); |
| Equipped with supplementary heater | No                     |
| Heat pump combination heater       | No                     |

|  |        |       |
|--|--------|-------|
| Rated heat output, kW                        | Prated | 106   |
| Annual energy consumption, kWh               | Qhe    | 43961 |
| Seasonal space heating energy efficiency, %  | ns,h   | 191   |
| Energy Classes                               |        | NA    |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP   | 4.96  |
| Sound power level, dB(A)                     | LwA    | 73    |

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                  | -10  |
| Heating water operation limit temperature, °C | WTOL                 | 55   |
| Tj, °C  | Capacity Pdh, kW     | COPd |
| -7  | 93.8                 | 3.92 |
| 2   | 57.1                 | 5.11 |
| 7   | 52.8                 | 5.83 |
| 12  | 53.3                 | 6.44 |
| Bivalent temperature                          | 93.8                 | 3.92 |
| Operating limit temperature                   | 92.6                 | 3.68 |

Power consumption in modes other than active mode

|                          |      |     |
|--------------------------|------|-----|
| Off mode, W              | POFF | 0   |
| Thermostat-off mode, W   | PTO  | 815 |
| Standby mode, W          | PSB  | 30  |
| Crankcase heater mode, W | PCK  | 0   |

Supplementary heater

|                       |      |          |
|-----------------------|------|----------|
| Rated heat output, kW | Psup | 13.4     |
| 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 water flow rate outdoor exchanger m³/h | 19.5 |
|--|------|

Contact details

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

Accessories and Installed Options

No Accessories or Installed Options selected

|                                    |                        |
|------------------------------------|------------------------|
| Model                              | DYNACIAT LG 300A       |
| Heat pump type                     | Water-to-Water         |
| Outdoor water type                 | Ground Water (10°C/-); |
| Equipped with supplementary heater | No                     |
| Heat pump combination heater       | No                     |

|  |        |       |
|--|--------|-------|
| Rated heat output, kW                        | Prated | 118   |
| Annual energy consumption, kWh               | Qhe    | 50619 |
| Seasonal space heating energy efficiency, %  | ns,h   | 184   |
| Energy Classes                               |        | NA    |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP   | 4.81  |
| Sound power level, dB(A)                     | LwA    | 73    |

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                  | -10  |
| Heating water operation limit temperature, °C | WTOL                 | 55   |
| Tj, °C  | Capacity Pdh, kW     | COPd |
| -7  | 104.6                | 3.79 |
| 2   | 63.7                 | 4.91 |
| 7   | 59.5                 | 5.65 |
| 12  | 60.2                 | 6.37 |
| Bivalent temperature                          | 104.6                | 3.79 |
| Operating limit temperature                   | 103.2                | 3.54 |

Power consumption in modes other than active mode

|                          |      |     |
|--------------------------|------|-----|
| Off mode, W              | POFF | 0   |
| Thermostat-off mode, W   | PTO  | 838 |
| Standby mode, W          | PSB  | 30  |
| Crankcase heater mode, W | PCK  | 0   |

Supplementary heater

|                       |      |          |
|-----------------------|------|----------|
| Rated heat output, kW | Psup | 15.0     |
| 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 water flow rate outdoor exchanger m³/h | 21.4 |
|--|------|

Contact details

|   |
|---|
| Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE |
|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |
|---|------------------------|
| <b>Model</b>                              | DYNACIAT LG 360A       |
| <b>Heat pump type</b>                     | Water-to-Water         |
| <b>Outdoor water type</b>                 | Ground Water (10°C/-); |
| <b>Equipped with supplementary heater</b> | No                     |
| <b>Heat pump combination heater</b>       | No                     |

|   |        |       |
|---|--------|-------|
| <b>Rated heat output, kW</b>                        | Prated | 143   |
| <b>Annual energy consumption, kWh</b>               | Qhe    | 58803 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h   | 193   |
| <b>Energy Classes</b>                               |        | NA    |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP   | 5.02  |
| <b>Sound power level, dB(A)</b>                     | LwA    | 76    |

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) |                              |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7                           |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10                          |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55                           |
| <b>Tj, °C</b>  | <b>COPd</b>          | <b>Degradation coef, Cdh</b> |
| -7   | 126.6                | 3.85                         |
| 2  | 77.1                 | 5.07                         |
| 7  | 49.5                 | 5.82                         |
| 12   | 47.8                 | 6.35                         |
| <b>Bivalent temperature</b>                          | 126.6                | 3.85                         |
| <b>Operating limit temperature</b>                   | 125.1                | 3.58                         |

Power consumption in modes other than active mode

|                                 |             |     |
|---------------------------------|-------------|-----|
| <b>Off mode, W</b>              | <b>POFF</b> | 0   |
| <b>Thermostat-off mode, W</b>   | <b>PTO</b>  | 732 |
| <b>Standby mode, W</b>          | <b>PSB</b>  | 30  |
| <b>Crankcase heater mode, W</b> | <b>PCK</b>  | 0   |

Supplementary heater

|                              |             |          |
|------------------------------|-------------|----------|
| <b>Rated heat output, kW</b> | <b>Psup</b> | 18.0     |
| <b>Type of energy input</b>  |             | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Variable |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |      |
|---|------|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 26.2 |
|---|------|

Contact details

|   |
|---|
| Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE |
|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |
|---|------------------------|
| <b>Model</b>                              | DYNACIAT LG 390A       |
| <b>Heat pump type</b>                     | Water-to-Water         |
| <b>Outdoor water type</b>                 | Ground Water (10°C/-); |
| <b>Equipped with supplementary heater</b> | No                     |
| <b>Heat pump combination heater</b>       | No                     |

|   |        |       |
|---|--------|-------|
| <b>Rated heat output, kW</b>                        | Prated | 161   |
| <b>Annual energy consumption, kWh</b>               | Qhe    | 65586 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h   | 194   |
| <b>Energy Classes</b>                               |        | NA    |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP   | 5.05  |
| <b>Sound power level, dB(A)</b>                     | LwA    | 77    |

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) |                              |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7                           |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10                          |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55                           |
| <b>Tj, °C</b>  | <b>COPd</b>          | <b>Degradation coef, Cdh</b> |
| -7   | 142.2                | 3.88                         |
| 2  | 86.6                 | 5.10                         |
| 7  | 55.6                 | 5.86                         |
| 12   | 54.9                 | 6.46                         |
| <b>Bivalent temperature</b>                          | 142.2                | 3.88                         |
| <b>Operating limit temperature</b>                   | 140.1                | 3.62                         |

Power consumption in modes other than active mode

|                                 |             |     |
|---------------------------------|-------------|-----|
| <b>Off mode, W</b>              | <b>POFF</b> | 0   |
| <b>Thermostat-off mode, W</b>   | <b>PTO</b>  | 794 |
| <b>Standby mode, W</b>          | <b>PSB</b>  | 30  |
| <b>Crankcase heater mode, W</b> | <b>PCK</b>  | 0   |

Supplementary heater

|                              |             |          |
|------------------------------|-------------|----------|
| <b>Rated heat output, kW</b> | <b>Psup</b> | 20.7     |
| <b>Type of energy input</b>  |             | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Variable |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |      |
|---|------|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 29.5 |
|---|------|

Contact details

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

Accessories and Installed Options

No Accessories or Installed Options selected

|                                    |                        |  |
|------------------------------------|------------------------|--|
| Model                              | DYNACIAT LG 450A       |  |
| Heat pump type                     | Water-to-Water         |  |
| Outdoor water type                 | Ground Water (10°C/-); |  |
| Equipped with supplementary heater | No                     |  |
| Heat pump combination heater       | No                     |  |

|  |        |       |
|--|--------|-------|
| Rated heat output, kW                        | Prated | 178   |
| Annual energy consumption, kWh               | Qhe    | 73282 |
| Seasonal space heating energy efficiency, %  | ns,h   | 192   |
| Energy Classes                               |        | NA    |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP   | 5.01  |
| Sound power level, dB(A)                     | LwA    | 78    |

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                  | -10  |
| Heating water operation limit temperature, °C | WTOL                 | 55   |
| Tj, °C  | Capacity Pdh, kW     | COPd |
| -7  | 157.5                | 3.83 |
| 2   | 95.9                 | 5.06 |
| 7   | 61.6                 | 5.83 |
| 12  | 61.0                 | 6.39 |
| Bivalent temperature                          | 157.5                | 3.83 |
| Operating limit temperature                   | 155.2                | 3.57 |

Power consumption in modes other than active mode

|                          |      |     |
|--------------------------|------|-----|
| Off mode, W              | POFF | 0   |
| Thermostat-off mode, W   | PTO  | 959 |
| Standby mode, W          | PSB  | 30  |
| Crankcase heater mode, W | PCK  | 0   |

Supplementary heater

|                       |      |          |
|-----------------------|------|----------|
| Rated heat output, kW | Psup | 22.8     |
| 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 water flow rate outdoor exchanger m³/h | 32.5 |
|--|------|

Contact details

|   |
|---|
| Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE |
|---|

Accessories and Installed Options

No Accessories or Installed Options selected

|                                    |                        |  |
|------------------------------------|------------------------|--|
| Model                              | DYNACIAT LG 480A       |  |
| Heat pump type                     | Water-to-Water         |  |
| Outdoor water type                 | Ground Water (10°C/-); |  |
| Equipped with supplementary heater | No                     |  |
| Heat pump combination heater       | No                     |  |

|  |        |       |
|--|--------|-------|
| Rated heat output, kW                        | Prated | 191   |
| Annual energy consumption, kWh               | Qhe    | 78677 |
| Seasonal space heating energy efficiency, %  | ns,h   | 192   |
| Energy Classes                               |        | NA    |
| Seasonal Coefficient Of Performance, kWh/kWh | SCOP   | 4.99  |
| Sound power level, dB(A)                     | LwA    | 76    |

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                  | -10  |
| Heating water operation limit temperature, °C | WTOL                 | 55   |
| Tj, °C  | Capacity Pdh, kW     | COPd |
| -7  | 168.6                | 3.87 |
| 2   | 102.6                | 4.96 |
| 7   | 66.0                 | 5.84 |
| 12  | 48.2                 | 6.39 |
| Bivalent temperature                          | 168.6                | 3.87 |
| Operating limit temperature                   | 166.5                | 3.60 |

Power consumption in modes other than active mode

|                          |      |     |
|--------------------------|------|-----|
| Off mode, W              | POFF | 0   |
| Thermostat-off mode, W   | PTO  | 983 |
| Standby mode, W          | PSB  | 30  |
| Crankcase heater mode, W | PCK  | 0   |

Supplementary heater

|                       |      |          |
|-----------------------|------|----------|
| Rated heat output, kW | Psup | 24.1     |
| 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 water flow rate outdoor exchanger m³/h | 34.7 |
|--|------|

Contact details

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

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |
|---|------------------------|
| <b>Model</b>                              | DYNACIAT LG 520A       |
| <b>Heat pump type</b>                     | Water-to-Water         |
| <b>Outdoor water type</b>                 | Ground Water (10°C/-); |
| <b>Equipped with supplementary heater</b> | No                     |
| <b>Heat pump combination heater</b>       | No                     |

|   |        |       |
|---|--------|-------|
| <b>Rated heat output, kW</b>                        | Prated | 216   |
| <b>Annual energy consumption, kWh</b>               | Qhe    | 86543 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h   | 198   |
| <b>Energy Classes</b>                               |        | NA    |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP   | 5.14  |
| <b>Sound power level, dB(A)</b>                     | LwA    | 77    |

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) |      |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7   |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10  |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55   |
| <b>Tj, °C</b>  | Capacity Pdh, kW     | COPd |
| -7   | 191.0                | 4.00 |
| 2  | 116.3                | 5.14 |
| 7  | 74.7                 | 5.97 |
| 12   | 54.0                 | 6.43 |
| <b>Bivalent temperature</b>                          | 191.0                | 4.00 |
| <b>Operating limit temperature</b>                   | 188.7                | 3.76 |

Power consumption in modes other than active mode

|                                 |      |      |
|---------------------------------|------|------|
| <b>Off mode, W</b>              | POFF | 0    |
| <b>Thermostat-off mode, W</b>   | PTO  | 1158 |
| <b>Standby mode, W</b>          | PSB  | 30   |
| <b>Crankcase heater mode, W</b> | PCK  | 0    |

Supplementary heater

|                              |      |          |
|------------------------------|------|----------|
| <b>Rated heat output, kW</b> | Psup | 27.2     |
| <b>Type of energy input</b>  |      | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Variable |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |      |
|---|------|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 40.0 |
|---|------|

Contact details

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

Accessories and Installed Options

No Accessories or Installed Options selected

|   |                        |
|---|------------------------|
| <b>Model</b>                              | DYNACIAT LG 600A       |
| <b>Heat pump type</b>                     | Water-to-Water         |
| <b>Outdoor water type</b>                 | Ground Water (10°C/-); |
| <b>Equipped with supplementary heater</b> | No                     |
| <b>Heat pump combination heater</b>       | No                     |

|   |        |       |
|---|--------|-------|
| <b>Rated heat output, kW</b>                        | Prated | 239   |
| <b>Annual energy consumption, kWh</b>               | Qhe    | 99981 |
| <b>Seasonal space heating energy efficiency, %</b>  | ns,h   | 189   |
| <b>Energy Classes</b>                               |        | NA    |
| <b>Seasonal Coefficient Of Performance, kWh/kWh</b> | SCOP   | 4.92  |
| <b>Sound power level, dB(A)</b>                     | LwA    | 78    |

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) |      |
| <b>Bivalent temperature, °C</b>                      | Tbivalent            | -7   |
| <b>Operating limit temperature, °C</b>               | TOL                  | -10  |
| <b>Heating water operation limit temperature, °C</b> | WTOL                 | 55   |
| <b>Tj, °C</b>  | Capacity Pdh, kW     | COPd |
| -7   | 211.3                | 3.85 |
| 2  | 128.6                | 4.90 |
| 7  | 82.7                 | 5.72 |
| 12   | 60.4                 | 6.26 |
| <b>Bivalent temperature</b>                          | 211.3                | 3.85 |
| <b>Operating limit temperature</b>                   | 208.6                | 3.59 |

Power consumption in modes other than active mode

|                                 |      |      |
|---------------------------------|------|------|
| <b>Off mode, W</b>              | POFF | 0    |
| <b>Thermostat-off mode, W</b>   | PTO  | 1382 |
| <b>Standby mode, W</b>          | PSB  | 30   |
| <b>Crankcase heater mode, W</b> | PCK  | 0    |

Supplementary heater

|                              |      |          |
|------------------------------|------|----------|
| <b>Rated heat output, kW</b> | Psup | 30.3     |
| <b>Type of energy input</b>  |      | Electric |

Other items

|  |          |
|--|----------|
| <b>Capacity control</b>                    | Variable |
| <b>Outlet temperature capacity control</b> | Variable |
| <b>Water flow rate capacity control</b>    | Fixed    |

For air-to-water heat pumps

|   |      |
|---|------|
| <b>Rated water flow rate outdoor exchanger m³/h</b> | 43.5 |
|---|------|

Contact details

|  |   |
|--|---|
|  | Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE |
|--|---|

Accessories and Installed Options

No Accessories or Installed Options selected



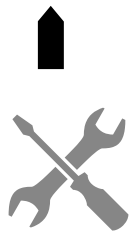
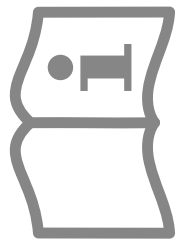
-LG-0080-A-901-PE-



|           |       |       |      |
|-----------|-------|-------|------|
| kW        | 47    | 32    | 28   |
| ηs %      | 162   | 164   | 158  |
| kWh/annum | 27353 | 15181 | 8781 |



dBA **67**dBA



ENERG Y IJA Y IE IA  
енергия · ενεργεια

-LG-0080-A-901-PE-

55 °C 35 °C

**A++** **A++**

**67**dB

dB

47 32 28 kW

50 34 30 kW

811/2013

# Fiche/Ficha/Scheda/Datenblatt



-LG-0090-A-901-PE-



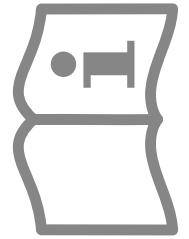
|           |       |       |       |
|-----------|-------|-------|-------|
| kW        | 55    | 37    | 33    |
| ηs %      | 162   | 164   | 158   |
| kWh/annum | 31831 | 17655 | 10214 |



dBA



**68**dB(A)



ENERG Y IJA Y IE IA  
енергия · ενεργεια

CIAT II -LG-0090-A-901-PE-

55 °C 35 °C

A+++ A++ A+ A B C D

**68**dB

dB

|    |    |    |    |
|----|----|----|----|
| 55 | 37 | 33 | kW |
|----|----|----|----|

|    |    |    |    |
|----|----|----|----|
| 58 | 39 | 35 | kW |
|----|----|----|----|

2019
811/2013



-LG-0100-A-901-PE-

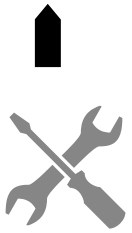


|           |       |       |       |
|-----------|-------|-------|-------|
| kW        | 60    | 40    | 35    |
| ηs %      | 161   | 163   | 157   |
| kWh/annum | 34978 | 19250 | 11113 |



dBA

69dBA



енергия · ενεργεια

-LG-0100-A-901-PE-

811/2013

55 °C

35 °C

60

40

35

kW

64

43

38

kW

69dB

dB

2019





-LG-0120-A-901-PE-

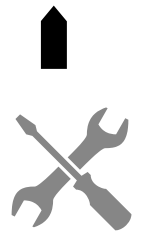
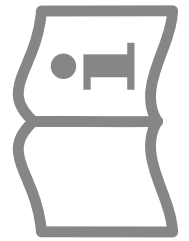


|           |       |       |       |
|-----------|-------|-------|-------|
| kW        | 70    | 47    | 41    |
| ηs %      | 162   | 164   | 158   |
| kWh/annum | 40760 | 22496 | 12998 |



dBA

69dBA



55 °C

35 °C

70 kW

47 kW

41 kW

74 kW

50 kW

44 kW

69dB

dB

2019

811/2013



-LG-0130-A-901-PE-

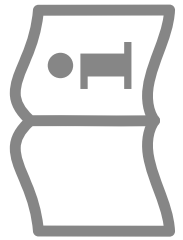


|            |       |       |       |
|------------|-------|-------|-------|
| kW         | 81    | 54    | 47    |
| $\eta$ s % | 162   | 165   | 158   |
| kWh/annum  | 46857 | 25873 | 14862 |



dBA

**70**dBA



**ENERG**  
енергия · ενεργεια

Y IJA  
IE IA

**CIAT**

-LG-0130-A-901-PE-

55 °C

35 °C

**70**dB

dB

|    |    |    |
|----|----|----|
| 81 | 54 | 47 |
| 85 | 57 | 50 |

2019

811/2013



-LG-0150-A-901-PE-



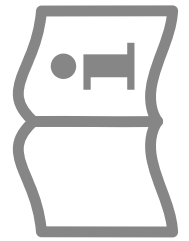
|            |       |       |       |
|------------|-------|-------|-------|
| kW         | 88    | 59    | 52    |
| $\eta_s$ % | 161   | 163   | 157   |
| kWh/annum  | 51530 | 28316 | 16457 |



dBA



70dBA



|    |    |    |    |
|----|----|----|----|
| 88 | 59 | 52 | kW |
| 95 | 64 | 56 | kW |

2019
811/2013

|    |    |    |    |
|----|----|----|----|
| 88 | 59 | 52 | kW |
| 95 | 64 | 56 | kW |

2019
811/2013



**Siège social**

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tous les papiers  
se recyclent.