

10305

09 - 2019

# AQUACIAT CALÉO

Ecoconception (813/2013)

TECHNICAL DATA MANUAL



<b>Model</b> <sup>[1]</sup>	
<b>Heat pump type</b> <sup>[2]</sup>	Air-to-Water <sup>[3]</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 Air flow rate, outdoors, m<sup>3</sup>/h</b> <sup>[41]</sup>	
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**Contact details** <sup>[43]</sup>

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**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 acqua
[4] Water-to-Water	[4] Pompes à chaleur eau-eau:	[4] Wasser-Wasser-Wärmepumpe	[4] Acqua/acqua
[5] Outdoor water type	[5] Type d'eau échangeur extérieur	[5] Wassertyp externer Wärmetauscher	[5] Tipo d'acqua scambiatore esterno
[6] Ground Water (10°C)/Brine to Water	[6] Pompes à eau souterraines/ eau glycolée-eau	[6] Grundwasser /Sole-Wasser	[6] Acque sotterranee/ salamoia-acqua
[7] Equipped with supplementary heater	[7] Equipé d'un chauffage supplémentaire	[7] Mit Zusatzheizgerät:	[7] Con riscaldatore supplementare
[8] Yes/No	[8] Oui/Non	[8] (Ja/Nein)	[8] [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 -Leistungskoeffizienten im Heizbetrieb bei einer Innenraumtemperatur von 20 °C et 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] Temperaturanwendung	[17] Temperatura d'applicazione
[19] Climate	[19] Climat :	[19] Klima	[19] Clima
[19] Average (Strasbourg)/Colder (Helsinki)/Warmer (Athènes)	[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 di uscita serbatoio
[37] Fixed/Variable	[37] Fixe/variable	[37] Fix / variabel	[37] fisso/variabile
[38] Water flow rate capacity control	[38] Régulation de la puissance du débit nominal d'eau	[38] Für Luft-Wasser-Wärmepumpen	[38] Flusso idrico utile
[39] For air-to-water heat pumps	[39] Pour les pompes à chaleur air-eau	[39] Bei Wasser-Glykolwasser-/Wasser-Wasser-Wärmepumpe	[39] Per le pompe di calore aria/ acqua
[40] For Water/brine-to-Water heat pumps	[40] Rated Air flow rate, outdoors, m³/h	[40] Nenn-Luftdurchsatz, außen	[40] Per PDC acqua/acqua glicolata :
[41] Rated Air flow rate, outdoors, m³/h	[41] Pour les pompes à chaleur eau-eau ou eau glycolée-eau:	[41] Nenn-Wasservolumenstrom externer Wärmetauscher m³/h	[41] Portata d'aria, all'esterno
[42] Rated Water flow rate outdoor exchanger, m³/h	[42] Débit d'air nominal, à l'extérieur	[42] Kontakt	[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/ Ciepleszy 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 lägeactive 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 wyższiu
[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] nominala 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	[43]	[43]	[43]

<b>Model</b>	AQUACIAT CALEO TD 080B	
<b>Heat pump type</b>	Air-to-Water	
<b>Equipped with supplementary heater</b>	No	
<b>Heat pump combination heater</b>	No	
<b>Rated heat output, kW</b>	Prated	19
<b>Annual energy consumption, kWh</b>	Qhe	10837
<b>Seasonal space heating energy efficiency, %</b>	ns,h	143
<b>Energy Classes</b>		A+
<b>Seasonal Coefficient Of Performance, kWh/kWh</b>	SCOP	3.64
<b>Sound power level, dB(A)</b>	LWA	78

<b>Declared capacity and coefficient of performance for heating at indoor conditions 20°C and outdoor temperature Tj</b>			
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	65	
Tj, °C	Capacity Pdh, kW	COPd	Degradation coef, Cdh
-7	16.9	2.54	-
2	18.1	3.54	1.00
7	26.2	4.57	1.00
12	29.7	5.38	1.00
Bivalent temperature	16.9	2.54	-
Operating limit temperature	14.7	2.19	-

<b>Power consumption in modes other than active mode</b>	
Off mode, W	POFF
Thermostat-off mode, W	PTO
Standby mode, W	PSB
Crankcase heater mode, W	PCK
	0

<b>Supplementary heater</b>	
Rated heat output, kW	Psup
Type of energy input	Electric

<b>Other items</b>	
Capacity control	Fixed
Outlet temperature capacity control	Variable
Water flow rate capacity control	Variable

<b>For air-to-water heat pumps</b>	
Rated Air flow rate, outdoors, m³/h	13493

<b>Contact details</b>	Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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**Accessories and Installed Options**  
No Accessories or Installed Options selected

<b>Model</b>	AQUACIAT CALEO TD 070B	
<b>Heat pump type</b>	Air-to-Water	
<b>Equipped with supplementary heater</b>	No	
<b>Heat pump combination heater</b>	No	
<b>Rated heat output, kW</b>	Prated	15
<b>Annual energy consumption, kWh</b>	Qhe	8250
<b>Seasonal space heating energy efficiency, %</b>	ns,h	144
<b>Energy Classes</b>		A+
<b>Seasonal Coefficient Of Performance, kWh/kWh</b>	SCOP	3.68
<b>Sound power level, dB(A)</b>	LWA	77

<b>Declared capacity and coefficient of performance for heating at indoor conditions 20°C and outdoor temperature Tj</b>			
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	65	
Tj, °C	Capacity Pdh, kW	COPd	Degradation coef, Cdh
-7	13.0	2.55	-
2	14.9	3.65	0.99
7	21.0	4.64	0.99
12	22.8	5.20	0.99
Bivalent temperature	13.0	2.55	-
Operating limit temperature	12.2	2.34	-

<b>Power consumption in modes other than active mode</b>	
Off mode, W	POFF
Thermostat-off mode, W	PTO
Standby mode, W	PSB
Crankcase heater mode, W	PCK
	0

<b>Supplementary heater</b>	
Rated heat output, kW	Psup
Type of energy input	Electric

<b>Other items</b>	
Capacity control	Fixed
Outlet temperature capacity control	Variable
Water flow rate capacity control	Variable

<b>For air-to-water heat pumps</b>	
Rated Air flow rate, outdoors, m³/h	13572

<b>Contact details</b>	Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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**Accessories and Installed Options**  
No Accessories or Installed Options selected

<b>Model</b>	AQUACIAT CALEO TD 100B	
<b>Heat pump type</b>	Air-to-Water	
<b>Equipped with supplementary heater</b>	No	
<b>Heat pump combination heater</b>	No	
<b>Rated heat output, kW</b>	Prated	33
<b>Annual energy consumption, kWh</b>	Qhe	18316
<b>Seasonal space heating energy efficiency, %</b>	ns,h	144
<b>Energy Classes</b>		A+
<b>Seasonal Coefficient Of Performance, kWh/kWh</b>	SCOP	3.68
<b>Sound power level, dB(A)</b>	LWA	83

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	-2
Operating limit temperature, °C	TOL	-10
Heating water operation limit temperature, °C	WTOL	65
Tj, °C	Capacity Pdh, kW	COPd
-7	20.9	2.79
2	23.1	3.93
7	32.3	4.63
12	35.2	5.26
Bivalent temperature	22.6	3.31
Operating limit temperature	18.3	2.42
		Degradation coef, Cdh
		-
		1.00
		1.00
		1.00
		-
		-

Power consumption in modes other than active mode

Off mode, W	POFF	0
Thermostat-off mode, W	PTO	-2
Standby mode, W	PSB	95
Crankcase heater mode, W	PCK	0

Supplementary heater

Rated heat output, kW	Psup	14.4
Type of energy input		Electric

Other items

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

For air-to-water heat pumps

Rated Air flow rate, outdoors, m <sup>3</sup> /h	13448
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<b>Contact details</b>	Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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**Accessories and Installed Options**

No Accessories or Installed Options selected

<b>Model</b>	AQUACIAT CALEO TD 120B	
<b>Heat pump type</b>	Air-to-Water	
<b>Equipped with supplementary heater</b>	No	
<b>Heat pump combination heater</b>	No	
<b>Rated heat output, kW</b>	Prated	45
<b>Annual energy consumption, kWh</b>	Qhe	25447
<b>Seasonal space heating energy efficiency, %</b>	ns,h	143
<b>Energy Classes</b>		A+
<b>Seasonal Coefficient Of Performance, kWh/kWh</b>	SCOP	3.64
<b>Sound power level, dB(A)</b>	LWA	82

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	-2
Operating limit temperature, °C	TOL	-10
Heating water operation limit temperature, °C	WTOL	65
Tj, °C	Capacity Pdh, kW	COPd
-7	28.1	3.02
2	33.6	3.82
7	44.1	4.91
12	49.2	5.60
Bivalent temperature	31.1	3.44
Operating limit temperature	24.6	2.63
		Degradation coef, Cdh
		-
		0.97
		0.97
		0.97
		-
		-

Power consumption in modes other than active mode

Off mode, W	POFF	0
Thermostat-off mode, W	PTO	275
Standby mode, W	PSB	95
Crankcase heater mode, W	PCK	0

Supplementary heater

Rated heat output, kW	Psup	20.4
Type of energy input		Electric

Other items

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

For air-to-water heat pumps

Rated Air flow rate, outdoors, m <sup>3</sup> /h	14527
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<b>Contact details</b>	Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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**Accessories and Installed Options**

No Accessories or Installed Options selected

<b>Model</b>	AQUACIAT CALEO TD 200B
<b>Heat pump type</b>	Air-to-Water
<b>Equipped with supplementary heater</b>	No
<b>Heat pump combination heater</b>	No

<b>Rated heat output, kW</b>	Prated	66
<b>Annual energy consumption, kWh</b>	Qhe	37343
<b>Seasonal space heating energy efficiency, %</b>	ns,h	142
<b>Energy Classes</b>		A+
<b>Seasonal Coefficient Of Performance, kWh/kWh</b>	SCOP	3.62
<b>Sound power level, dB(A)</b>	LWA	84

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	-4
Operating limit temperature, °C	TOL	-10
Heating water operation limit temperature, °C	WTOL	65
Tj, °C	Capacity Pdh, kW	COPd
-7	45.3	2.90
2	35.3	3.55
7	37.2	4.48
12	43.0	5.29
Bivalent temperature	50.5	3.31
Operating limit temperature	40.5	2.57

Power consumption in modes other than active mode	
Off mode, W	POFF
Thermostat-off mode, W	PTO
Standby mode, W	PSB
Crankcase heater mode, W	PCK

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	Variable

<b>For air-to-water heat pumps</b>	
<b>Rated Air flow rate, outdoors, m³/h</b>	26925

<b>Contact details</b>	Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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**Accessories and Installed Options**  
No Accessories or Installed Options selected

<b>Model</b>	AQUACIAT CALEO TD 150B
<b>Heat pump type</b>	Air-to-Water
<b>Equipped with supplementary heater</b>	No
<b>Heat pump combination heater</b>	No

<b>Rated heat output, kW</b>	Prated	56
<b>Annual energy consumption, kWh</b>	Qhe	31422
<b>Seasonal space heating energy efficiency, %</b>	ns,h	145
<b>Energy Classes</b>		A+
<b>Seasonal Coefficient Of Performance, kWh/kWh</b>	SCOP	3.70
<b>Sound power level, dB(A)</b>	LWA	84

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	-2
Operating limit temperature, °C	TOL	-10
Heating water operation limit temperature, °C	WTOL	65
Tj, °C	Capacity Pdh, kW	COPd
-7	33.2	3.05
2	40.7	3.91
7	52.1	4.85
12	57.8	5.38
Bivalent temperature	39.0	3.67
Operating limit temperature	29.8	2.71

Power consumption in modes other than active mode	
Off mode, W	POFF
Thermostat-off mode, W	PTO
Standby mode, W	PSB
Crankcase heater mode, W	PCK

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	Variable

<b>For air-to-water heat pumps</b>	
<b>Rated Air flow rate, outdoors, m³/h</b>	14528

<b>Contact details</b>	Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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**Accessories and Installed Options**  
No Accessories or Installed Options selected

<b>Model</b>	AQUACIAT CALEO TD 300B	
<b>Heat pump type</b>	Air-to-Water	
<b>Equipped with supplementary heater</b>	No	
<b>Heat pump combination heater</b>	No	
<b>Rated heat output, kW</b>	Prated	96
<b>Annual energy consumption, kWh</b>	Qhe	53267
<b>Seasonal space heating energy efficiency, %</b>	ns,h	146
<b>Energy Classes</b>	NA	
<b>Seasonal Coefficient Of Performance, kWh/kWh</b>	SCOP	3.72
<b>Sound power level, dB(A)</b>	LWA	85

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

Temperature application	Low (30°C/35°C)	
	Average (Strasbourg)	
Climate	Average (Strasbourg)	
Bivalent temperature, °C	Tbivalent	-4
Operating limit temperature, °C	TOL	-10
Heating water operation limit temperature, °C	WTOL	65
Tj, °C	Capacity Pdh, kW	COPd
	Degradation coef, Cdh	
-7	66.4	3.04
2	51.8	3.67
7	54.8	4.59
12	64.0	5.15
Bivalent temperature	73.9	3.46
Operating limit temperature	59.5	2.71

Power consumption in modes other than active mode

Off mode, W	POFF	0
Thermostat-off mode, W	PTO	499
Standby mode, W	PSB	160
Crankcase heater mode, W	PCK	0

Supplementary heater

Rated heat output, kW	Psup	36.6
Type of energy input		Electric

Other items

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

For air-to-water heat pumps

Rated Air flow rate, outdoors, m <sup>3</sup> /h	29058
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<b>Contact details</b>	Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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**Accessories and Installed Options**

No Accessories or Installed Options selected

<b>Model</b>	AQUACIAT CALEO TD 070B	
<b>Heat pump type</b>	Air-to-Water	
<b>Equipped with supplementary heater</b>	No	
<b>Heat pump combination heater</b>	No	
<b>Rated heat output, kW</b>	Prated	14
<b>Annual energy consumption, kWh</b>	Qhe	9816
<b>Seasonal space heating energy efficiency, %</b>	ns,h	119
<b>Energy Classes</b>	A+	
<b>Seasonal Coefficient Of Performance, kWh/kWh</b>	SCOP	3.04
<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)	
	Average (Strasbourg)	
Climate	Average (Strasbourg)	
Bivalent temperature, °C	Tbivalent	-7
Operating limit temperature, °C	TOL	-10
Heating water operation limit temperature, °C	WTOL	65
Tj, °C	Capacity Pdh, kW	COPd
	Degradation coef, Cdh	
-7	12.8	2.02
2	14.6	3.04
7	20.5	3.89
12	23.3	4.74
Bivalent temperature	12.8	2.02
Operating limit temperature	12.2	1.84

Power consumption in modes other than active mode

Off mode, W	POFF	0
Thermostat-off mode, W	PTO	56
Standby mode, W	PSB	95
Crankcase heater mode, W	PCK	0

Supplementary heater

Rated heat output, kW	Psup	2.2
Type of energy input		Electric

Other items

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

For air-to-water heat pumps

Rated Air flow rate, outdoors, m <sup>3</sup> /h	13572
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<b>Contact details</b>	Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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**Accessories and Installed Options**

No Accessories or Installed Options selected

<b>Model</b>	AQUACIAT CALEO TD 080B
<b>Heat pump type</b>	Air-to-Water
<b>Equipped with supplementary heater</b>	No
<b>Heat pump combination heater</b>	No

<b>Rated heat output, kW</b>	Prated	31
<b>Annual energy consumption, kWh</b>	Qhe	21097
<b>Seasonal space heating energy efficiency, %</b>	ns,h	119
<b>Energy Classes</b>		A+
<b>Seasonal Coefficient Of Performance, kWh/kWh</b>	SCOP	3.06
<b>Sound power level, dB(A)</b>	LWA	83

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	-2
Operating limit temperature, °C	TOL	-10
Heating water operation limit temperature, °C	WTOL	65
Tj, °C	Capacity Pdh, kW	COPd
-7	20.8	2.18
2	22.4	3.19
7	32.2	3.89
12	35.0	4.58
Bivalent temperature	21.6	2.61
Operating limit temperature	18.3	1.86

Power consumption in modes other than active mode	
Off mode, W	POFF
Thermostat-off mode, W	PTO
Standby mode, W	PSB
Crankcase heater mode, W	PCK

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	Variable

<b>For air-to-water heat pumps</b>	
<b>Rated Air flow rate, outdoors, m³/h</b>	13448

<b>Contact details</b>	Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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**Accessories and Installed Options**  
No Accessories or Installed Options selected

<b>Model</b>	AQUACIAT CALEO TD 080B
<b>Heat pump type</b>	Air-to-Water
<b>Equipped with supplementary heater</b>	No
<b>Heat pump combination heater</b>	No

<b>Rated heat output, kW</b>	Prated	19
<b>Annual energy consumption, kWh</b>	Qhe	13253
<b>Seasonal space heating energy efficiency, %</b>	ns,h	115
<b>Energy Classes</b>		A+
<b>Seasonal Coefficient Of Performance, kWh/kWh</b>	SCOP	2.94
<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)	
Bivalent temperature, °C	Tbivalent	-7
Operating limit temperature, °C	TOL	-10
Heating water operation limit temperature, °C	WTOL	65
Tj, °C	Capacity Pdh, kW	COPd
-7	17.1	2.11
2	17.8	2.97
7	25.6	3.72
12	29.2	4.50
Bivalent temperature	17.1	2.11
Operating limit temperature	14.9	1.79

Power consumption in modes other than active mode	
Off mode, W	POFF
Thermostat-off mode, W	PTO
Standby mode, W	PSB
Crankcase heater mode, W	PCK

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	Variable

<b>For air-to-water heat pumps</b>	
<b>Rated Air flow rate, outdoors, m³/h</b>	13493

<b>Contact details</b>	Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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**Accessories and Installed Options**  
No Accessories or Installed Options selected

<b>Model</b>	AQUACIAT CALEO TD 150B	
<b>Heat pump type</b>	Air-to-Water	
<b>Equipped with supplementary heater</b>	No	
<b>Heat pump combination heater</b>	No	
<b>Rated heat output, kW</b>	Prated	55
<b>Annual energy consumption, kWh</b>	Qhe	36023
<b>Seasonal space heating energy efficiency, %</b>	ns,h	122
<b>Energy Classes</b>		A+
<b>Seasonal Coefficient Of Performance, kWh/kWh</b>	SCOP	3.14
<b>Sound power level, dB(A)</b>	LWA	84

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	-2
Operating limit temperature, °C	TOL	-10
Heating water operation limit temperature, °C	WTOL	65
Tj, °C	Capacity Pdh, kW	COPd
-7	34.0	2.37
2	40.4	3.23
7	51.7	4.14
12	57.1	4.80
Bivalent temperature		2.90
Operating limit temperature	30.8	2.08

Power consumption in modes other than active mode

Off mode, W	POFF	0
Thermostat-off mode, W	PTO	276
Standby mode, W	PSB	95
Crankcase heater mode, W	PCK	0

Supplementary heater

Rated heat output, kW	Psup	23.9
Type of energy input		Electric

Other items

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

For air-to-water heat pumps

Rated Air flow rate, outdoors, m³/h	14528
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Contact details

Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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**Accessories and Installed Options**  
No Accessories or Installed Options selected

<b>Model</b>	AQUACIAT CALEO TD 120B	
<b>Heat pump type</b>	Air-to-Water	
<b>Equipped with supplementary heater</b>	No	
<b>Heat pump combination heater</b>	No	
<b>Rated heat output, kW</b>	Prated	44
<b>Annual energy consumption, kWh</b>	Qhe	29149
<b>Seasonal space heating energy efficiency, %</b>	ns,h	120
<b>Energy Classes</b>		A+
<b>Seasonal Coefficient Of Performance, kWh/kWh</b>	SCOP	3.08
<b>Sound power level, dB(A)</b>	LWA	82

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	-2
Operating limit temperature, °C	TOL	-10
Heating water operation limit temperature, °C	WTOL	65
Tj, °C	Capacity Pdh, kW	COPd
-7	28.6	2.40
2	33.0	3.15
7	43.7	4.16
12	48.6	4.93
Bivalent temperature		2.77
Operating limit temperature	25.5	2.06

Power consumption in modes other than active mode

Off mode, W	POFF	0
Thermostat-off mode, W	PTO	298
Standby mode, W	PSB	95
Crankcase heater mode, W	PCK	0

Supplementary heater

Rated heat output, kW	Psup	18.1
Type of energy input		Electric

Other items

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

For air-to-water heat pumps

Rated Air flow rate, outdoors, m³/h	14527
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Contact details

Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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**Accessories and Installed Options**  
No Accessories or Installed Options selected

<b>Model</b>	AQUACIAT CALEO TD 200B
<b>Heat pump type</b>	Air-to-Water
<b>Equipped with supplementary heater</b>	No
<b>Heat pump combination heater</b>	No

<b>Rated heat output, kW</b>	Prated	94
<b>Annual energy consumption, kWh</b>	Qhe	60859
<b>Seasonal space heating energy efficiency, %</b>	ns,h	124
<b>Energy Classes</b>		NA
<b>Seasonal Coefficient Of Performance, kWh/kWh</b>	SCOP	3.18
<b>Sound power level, dB(A)</b>	LWA	85

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	-4
Operating limit temperature, °C	TOL	-10
Heating water operation limit temperature, °C	WTOL	65
Tj, °C	Capacity Pdh, kW	COPd
-7	68.4	2.40
2	50.6	3.12
7	53.2	3.96
12	62.1	4.65
Bivalent temperature		2.69
Operating limit temperature		2.12

Power consumption in modes other than active mode	
Off mode, W	POFF
Thermostat-off mode, W	PTO
Standby mode, W	PSB
Crankcase heater mode, W	PCK

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	Variable

For air-to-water heat pumps	
Rated Air flow rate, outdoors, m³/h	29058

<b>Contact details</b>	Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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**Accessories and Installed Options**  
No Accessories or Installed Options selected

<b>Model</b>	AQUACIAT CALEO TD 200B
<b>Heat pump type</b>	Air-to-Water
<b>Equipped with supplementary heater</b>	No
<b>Heat pump combination heater</b>	No

<b>Rated heat output, kW</b>	Prated	63
<b>Annual energy consumption, kWh</b>	Qhe	43414
<b>Seasonal space heating energy efficiency, %</b>	ns,h	117
<b>Energy Classes</b>		A+
<b>Seasonal Coefficient Of Performance, kWh/kWh</b>	SCOP	2.99
<b>Sound power level, dB(A)</b>	LWA	84

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	-4
Operating limit temperature, °C	TOL	-10
Heating water operation limit temperature, °C	WTOL	65
Tj, °C	Capacity Pdh, kW	COPd
-7	45.5	2.27
2	33.9	2.93
7	35.8	3.72
12	41.7	4.53
Bivalent temperature		2.55
Operating limit temperature		1.98

Power consumption in modes other than active mode	
Off mode, W	POFF
Thermostat-off mode, W	PTO
Standby mode, W	PSB
Crankcase heater mode, W	PCK

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	Variable

For air-to-water heat pumps	
Rated Air flow rate, outdoors, m³/h	26925

<b>Contact details</b>	Manufactured in France by: CIAT - Avenue Jean Falconnier BP 14 - 01350 Culoz - FRANCE
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**Accessories and Installed Options**  
No Accessories or Installed Options selected



-TD0070B-901-PE-



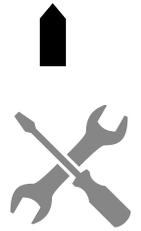
kW	21	14	15
ηs %	101	119	131
kWh/annum	19380	9816	5428



77dBA



dBA



55 °C

**A+**

35 °C

**A+**

21

14

15

kW

22

15

30

kW

dB

77dB

2019
811/2013

Fiche/Ficha/Scheda/Datenblatt



-TD0080B-901-PE-



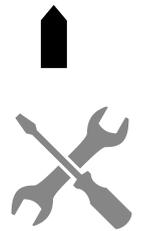
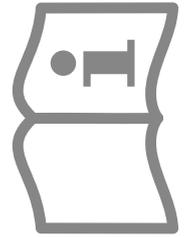
kW	28	19	18
$\eta_s$ %	101	115	131
kWh/annum	26310	13253	6590



78dBA



dBA



55 °C

35 °C

28 19 18 kW

28 19 18 kW

dB

78dB

2019

811/2013

Fiche/Ficha/Scheda/Datenblatt



-TD0100B-901-PE-



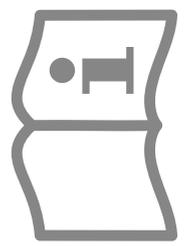
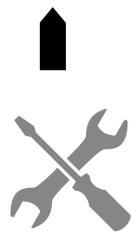
kW	34	31	22
ηs %	106	119	132
kWh/annum	30798	21097	8335



83dBA



dBA



енергия · ενεργεια

**ENERG**

Y IJA  
IE IA

-TD0100B-901-PE-

55 °C

35 °C

**A+**

**A+**

34 kW

31 kW

22 kW

35 kW

33 kW

23 kW

dB

83dB

2019

811/2013

Fiche/Ficha/Scheda/Datenblatt



-TD0120B-901-PE-



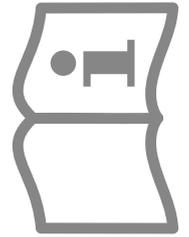
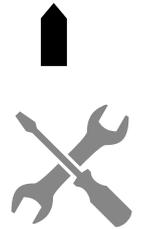
kW	47	44	33
$\eta_s$ %	107	120	134
kWh/annum	41310	29149	12268



82dBA



dBA



**ENERG**  
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Y IJA  
IE IA

**CIAT**

-TD0120B-901-PE-

55 °C

35 °C

**A<sup>+</sup>**

**A<sup>+</sup>**

47

44

33

kW

46

45

33

kW

2019

811/2013

Fiche/Ficha/Scheda/Datenblatt



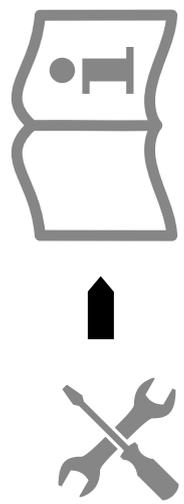
-TD0150B-901-PE-



kW	55	55	40
ηs %	109	122	138
kWh/annum	48249	36023	14827

84dBA

dBA



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-TD0150B-901-PE-

55 °C

35 °C

**A+**

**A+**

dB

**84dB**

55

55

40

kW

55

56

41

kW

2019

811/2013



-TD0200B-901-PE-



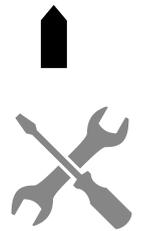
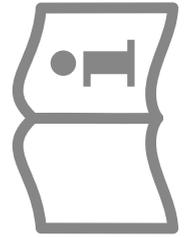
kW	75	63	52
$\eta_s$ %	102	117	134
kWh/annum	69247	43414	19347



84dBA



dBA



**ENERG**  
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Y IJA  
IE IA

**CIAT** II

-TD0200B-901-PE-

55 °C

35 °C

**A+**

**A+**

dB

84dB

75

63

52

kW

75

66

53

kW

2019

811/2013



**Siège social**

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**CIAT Service**

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