

HIGH-TEMPERATURE HEAT PUMP



# AQUACIAT<sup>CALEO</sup>

THE HIGH-TEMPERATURE SOLUTION  
DESIGNED FOR HEATING LARGE SPACES





# WHETHER LARGE RESIDENTIAL THE AQUACIAT<sup>CALEO</sup> GUARANTEES

Large villas, hotels, professional buildings... Designed to heat large spaces and produce domestic hot water at 65 °C, the **AQUACIAT<sup>CALEO</sup>** heat pump offers optimal comfort in all conditions.

Available from 20 kW to 102 kW, the **AQUACIAT<sup>CALEO</sup>** offers three different sound levels to adapt to the most demanding environments: Standard, Low Noise and Xtra Low Noise.

## NEW OR RENOVATION, FOR ALL ACTIVITY SECTORS



RESIDENTIAL



OFFICES



ADMINISTRATION



COLLECTIVE  
HOUSING



### HIGH EFFICIENCY UP TO 65 °C

Thanks to the high-efficiency partial steam injection compressor, the **AQUACIAT<sup>CALEO</sup>** can be used for **hot water production up to +65 °C while guaranteeing high energy efficiency throughout the year.**

In fact, partial steam injection allows the compressor's compression rate, heating capacity and efficiency to be increased while also cooling it.



### SUITABLE FOR ALL CONDITIONS

The **AQUACIAT<sup>CALEO</sup>** offers a large operating range, with an outdoor temperature range of -20 °C to +40 °C and a hot water temperature range from +30 °C to +65 °C. The **AQUACIAT<sup>CALEO</sup>** can therefore be used in place of a boiler for most of the year.



### DOMESTIC HOT WATER

The **AQUACIAT<sup>CALEO</sup>** is not limited to space heating. Connected to an exchanger and a storage tank, its **high efficiency level also allows it to produce domestic hot water for the whole family.** Programmed automatically for off-peak times, your consumption is reduced by half.

# OR LIGHT COMMERCIAL, SUPERIOR PERFORMANCE



## ACOUSTIC COMFORT

The AQUACIAT<sup>CALEO</sup> is equipped as standard with a special assembly that completely **eliminates vibrations for optimal comfort**. Two supplementary levels are available for sensitive environments:

### XTRA LOW NOISE



**-5 to -7 dB(A)**

thanks to the compressor enclosure and low speed fans.

### LOW NOISE



**-4 to -6 dB(A)**

thanks to the compressor enclosure.



## ENERGY SAVINGS

The AQUACIAT<sup>CALEO</sup> has an integrated hydraulic module as standard, with a variable-speed pump that allows the **flow rate and the operating pressure to be automatically adjusted as required**. Likewise, automatic fan control allows the AQUACIAT<sup>CALEO</sup> to achieve exceptional performance while further reducing the sound level.

**Equally efficient at full load as in seasonal use, the AQUACIAT<sup>CALEO</sup> reduces your electrical consumption to enable substantial savings.**

**SCOP**<sub>47/55</sub>

**UP TO 3.12**

**SCOP**<sub>30/35</sub>

**UP TO 3.68**



## ENVIRONMENTALLY SUSTAINABLE

Ecodesign certified for **compliance with current ecodesign standards and the various European regulations** governing energy efficiency, the AQUACIAT<sup>CALEO</sup> is part of our sustainable development process.



## ADVANCED CONTROL SYSTEM

User interface with multilanguage touch screen, **diagnosis of fault and operating statuses, email alerts, supervision and follow-up of any incidents**, automatic reminders for maintenance operations, etc. The Connect Touch smart monitoring system means your installation obeys your every command.

## 7 MODELS TO MEET ALL YOUR NEEDS



AQUACIAT CALEO TD																
Size	Full load performance (1)				Seasonal performance (2)					Sound power level			Dimensions (mm)			Weight (kg)
	H <sub>c</sub> <sup>(3)</sup> kW	COP <sup>(3)</sup> kW/kW	H <sub>c</sub> <sup>(4)</sup> kW	COP <sup>(4)</sup> kW/kW	SCOP <sup>(5)</sup> kW/kW	η <sub>s</sub> heating <sup>(5)</sup> %	SCOP <sup>(6)</sup> kW/kW	η <sub>s</sub> heating <sup>(6)</sup> %	Energy labelling	Lw dB(A)			Length	Depth	Height	Standard device
										Standard	Low Noise	Xtra Low Noise				
070	20.4	3.48	20.6	3	3.48	136	2.93	114	A+	77	75	-	1110	1327	1440	362
080	25.3	3.38	24.9	2.92	3.45	135	2.95	115	A+	78	76	-	1110	1327	1440	418
100	31.8	3.36	31.5	2.9	3.52	138	2.97	116	A+	83	80	76	1110	1327	1440	435
120	43.2	3.58	42.9	3.12	3.48	136	3	117	A+	82	80	76	1114	2100	1440	555
150	51.9	3.66	52.4	3.17	3.59	141	3.08	120	A+	84	80	77	1114	2100	1440	579
200	66.8	3.43	68.1	3	3.58	140	2.94	115	A+	84	82	79	2273	2100	1440	919
300	102	3.59	102	3.13	3.68	144	3.12	122	-	85	82	79	2273	2100	1440	1039

<sup>(1)</sup> Standardised conditions as per EN14511-3:2013 EUROVENT - <sup>(2)</sup> As per EN 14825:2013 EUROVENT - <sup>(3)</sup> Hot water = 30 °C/35 °C Outdoor air = 7 °CDB/6 °CWB  
<sup>(4)</sup> Hot water = 47 °C/55 °C Outdoor air = 7° CDB/6 °CWB - <sup>(5)</sup> Hot water = 30 °C/35 °C, average climatic conditions - <sup>(6)</sup> Hot water = 47 °C/55 °C, average climatic conditions  
H<sub>c</sub> = Heating capacity - COP-SCOP = Coefficient of performance



Heating



Hydraulic module

Eurovent certified values

CIAT participates in the ECP program for Water Chillers and Hydronic Heat Pumps. Check ongoing validity of certificate: [www.eurovent-certification.com](http://www.eurovent-certification.com)



## CIAT AT YOUR SERVICE

At CIAT, our objective is to develop partnerships with you and provide high quality service throughout the lifecycle of your HVAC system. We understand your changing needs, and develop smart services and energy solutions that optimise energy performance and enable savings.



[www.ciat.com](http://www.ciat.com)

CIAT Rhône-Alpes  
100 Rue de Norvège - 69125 LYON SAINT EXUPÉRY - France  
Phone: {33}4 26 83 25 75 - Fax: {33}4 72 71 54 50

The materials and information referenced in this brochure are for informational purposes only and not for the purpose of providing legal or other professional advice. © CIAT 2018.  
All rights reserved. CIAT reserves the right to change certain information and specifications contained in this document at any time and without prior notice.  
Availability depends on each country. Please contact your CIAT representative.  
Aquaciat Caleo - September 2018  
Ref.: Aquaciat Caleo Brochure - NA1827A