



GEOCIAT™ POWER

Heat pump
Heating only, Glycol/water mix



Plug&Heat heat pump
HomeConnect control
For **residential**
and **tertiary** applications

Heating capacity (0/-3°C): 12 to 27 kW
Heating capacity (10/7°C): 16 to 38 kW



Option

Option

USE

The **GeoCIAT™ Power** glycol water/water heat pump is designed for heating applications (passive cooling optional) in new and existing individual homes and tertiary premises.

The GeoCIAT Power is compatible with low- to mid-temperature heat emitters: underfloor heating system, fan coil, radiators, etc.

The GeoCIAT Power can be configured for ground water connection using an optional ITEX AGE0+ sectional heat exchanger (water-to-water operation).

The GeoCIAT Power is installed indoors in a machine room, laundry room or garage, protected from frost and adverse weather conditions.

The unit is delivered ready for operation (tested and adjusted in the factory).

RANGE

The GeoCIAT Power range, housed in a single-size casing, consists of 1 single-phase model and 4 three-phase models.

CONFORMITY

- LVD 2014/35/EU
- NF C15-100
- EMC 2014/30/EU
- PED 2014/6/EU Category 1
- WEEE 2012/19/EU
- RoHS 2011/65/EU

COMPONENTS

Casing

- Galvanised steel free-standing frame on adjustable feet
- Casing panels in textured RAL9016 white painted steel
- Casing front in matching RAL9016 ABS
- Noise insulation of the casing and casing panels
- Hydro/refrigerating unit casing fitted on anti-vibration mounts

Compressor - R410A

- Hermetic On/Off Scroll type compressor on anti-vibration mounts
- Built-in electric motor cooled by intake gas
- Internal motor heat protection

Asymmetrical brazed-plate heat exchanger

- End plates and internal plates in AISI 316 stainless steel
- High-performance, optimised plate patterns
- Thermal insulation

Standard refrigerating components

- Monoflow dehydrator
- Electronic expansion valve

Safety and information components

- High-pressure switch with automatic reset
- HP/LP sensor
- Water supply and return sensors on secondary exchanger
- Water supply sensor on primary exchanger
- Primary and secondary freon sensors
- Wired outdoor air sensor
- 50H(T) - 65HT electronic water flow switch

Built-in double hydraulic module (primary and secondary)

- Two variable-speed accelerator pumps, energy efficiency rating A
- Two 12L expansion vessels
- 2 drain taps
- 90HT - 120HT differential water pressure switch

HomeConnect control

- Remote control terminal (IO HomeControl radio link)
- Display of setpoint or room temperature
- Reading of water flow rates when the heat pump starts up
- Operating settings check
- Room temperature compensation
- Water law configuration
- On/Off input control
- Boiler backup operation configuration, alternating or simultaneous operation
- Management of DHW mode (option)
- Auxiliary management
- Customer accelerator pump management (heating and well)
- Geocooling management (option)
- Dual-zone management (option)
- Metering of operation time and energy metering
- - RS485 output for CMS link (ModBus-JBus)

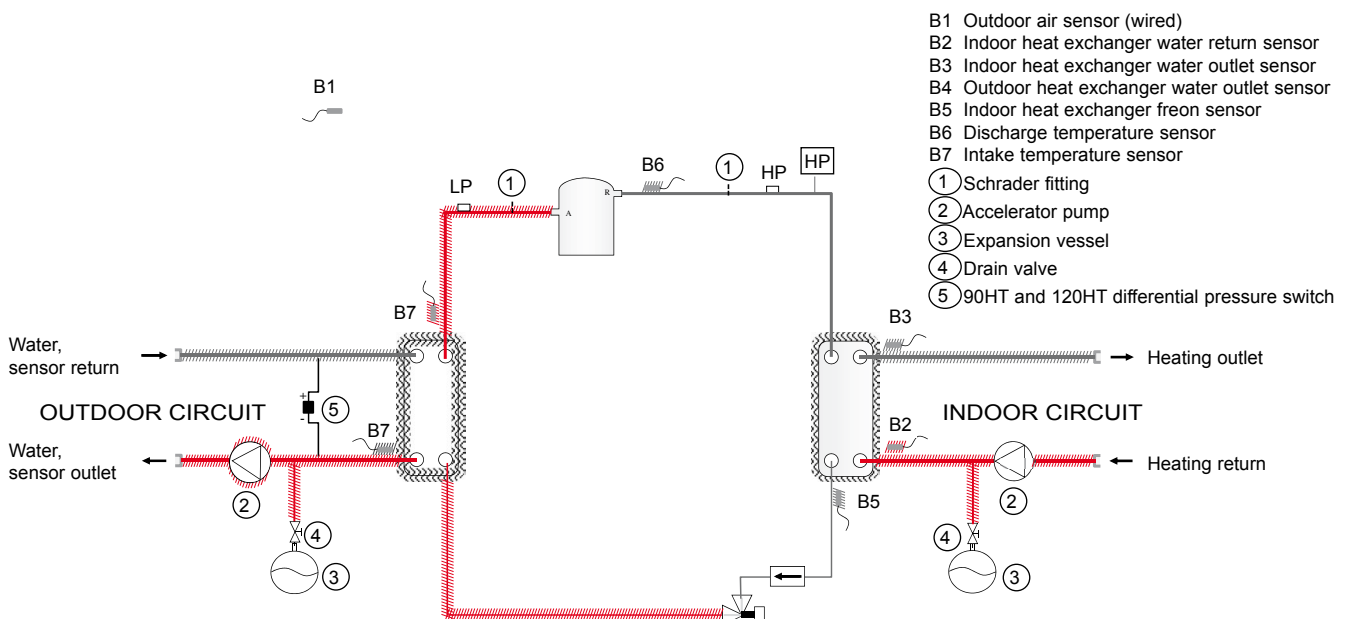
Electrical panel

- Housing meets EN 60335-1 and EN60335-2-40 standards
- Earth connection
- Compressor motor contactor (depending on the model)
- Circuit protection
- Starting current limiter as standard
- 90HT - 120HT compressor phase controller

Options (for installation on site)

- Geocooling kit
- 5 kW or 9 kW auxiliary heater kit
- Dual-zone kit
- HomeConnect expansion board kit
- Charging kit
- Flexible connections kit
- Pressure release valve and pressure gauge kit
- For more details, see the current CIAT catalogue

REFRIGERANT AND HYDRAULIC MODULE DIAGRAM



QUICK SELECTION

GeoCIAT Power		50H	50HT	65HT	90HT	120HT
Heating capacity at 0/-3°C 30/35°C	kW	12,48	12,16	15,80	21,44	27,35
COP		4,15	4,24	4,21	4,06	4,24
SCOP		4,45	4,56	4,5	4,36	4,45
η_s	%	170	175	172	166	170
Prated	kW	12,4	12,3	15,8	21,5	27,3
Energy class		A++	A++	A++	A++	A++
Heating capacity at 0/-3 °C 40/45 °C	kW	12,02	11,55	15,08	20,59	25,95
COP		3,31	3,33	3,30	3,24	3,32
Heating capacity at 0/-3°C 47/55°C	kW	11,9	11,8	14,8	20,5	25,8
COP		2,95	3,03	2,93	2,89	2,95
SCOP		3,32	3,43	3,31	3,35	3,43
η_s heat 47/55°C	%	125	129	124	126	129
Prated	kW	11,4	11,3	14,4	19,8	25,1
Energy class		A++	A++	A+	A++	A++
Heating capacity at 10/7°C 30/35°C	kW	16,50	16,39	21,13	27,64	37,62
COP		5,31	5,42	5,32	5,25	5,43
Heating capacity at 10/7°C 40/45°C	kW	15,85	15,74	20,03	26,21	35,39
COP		4,22	4,25	4,15	4,04	4,23
Power supply		230V - 1ph -50Hz -E+N		400V - 3ph -50Hz -E+N		
Sound power	dB(A)	54	54	52	53	55

WATER FLOW RATES

IMPORTANT: The minimum flow rates must be observed. If they are not, the exchanger may be damaged by frost. CIAT shall not be held liable for frost which results from flow rates below the minimum flow rates stated above.

The nominal flow rates are used to size the hydraulic system.

GeoCIAT Power		50H(T)	65HT	90HT	120HT
Outdoor heat exchanger	Minimum flow rate (m ³ /h)	1,45	1,85	2,45	3,2
	Nominal flow rate, heating mode with underground loop (m ³ /h) (1)	2,9	3,7	4,9	6,4
	Nominal flow rate, heating mode with ground water (m ³ /h) (2)	3,9	4,9	6,7	8,7
Indoor heat exchanger	Minimum flow rate (m ³ /h)	1,1	1,35	1,8	2,35
	Nominal flow rate, heating mode with underground loop (m ³ /h) (1)	2,2	2,7	3,6	4,7
	Nominal flow rate, heating mode with ground water (m ³ /h) (2)	2,9	3,7	4,9	6,4

(1) Heating mode, underground loop, indoor 30/35°C, outdoor 0°C/-3°C

(2) Heating mode with ground water, indoor 30°C/35°C, outdoor 10°C/7°C

HYDRAULIC CONNECTIONS

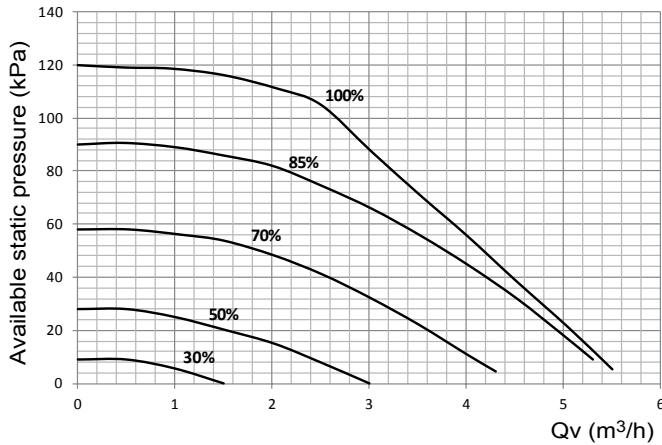
System pipe diameters calculated for a hydraulic connection for your machine of 15 m between the unit and the rest of the system.

GeoCIAT Power	Connection diameter	Copper pipe hydraulic connection	Steel pipe hydraulic connection	PE pipe hydraulic connection
50H(T)	1"1/4 G male	36x1	40/49 - DN40 1"1/2	40x3.7
65HT		38x1		50x4.6
90HT	1"1/2 G male	54x1	50/60 - DN50 2"	63x5.8
120HT				

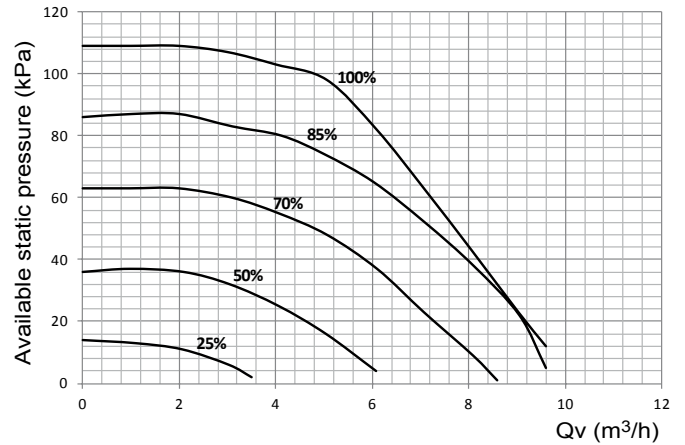
OPERATING PRESSURE

Indoor circuit

GeoCIAT Power 50-65

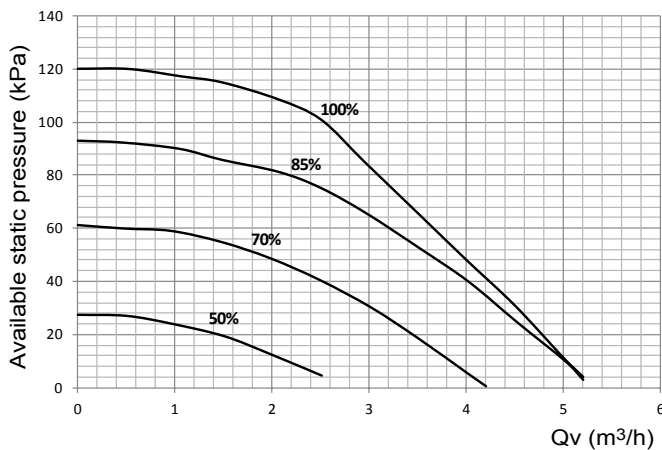


GeoCIAT Power 90-120

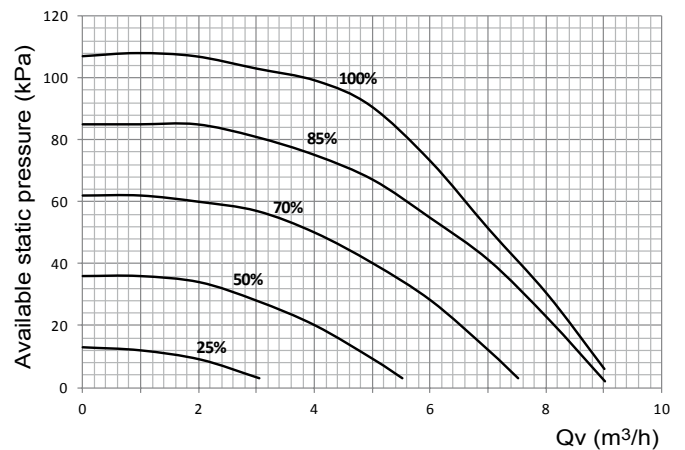


Outdoor circuit

GeoCIAT Power 50-65



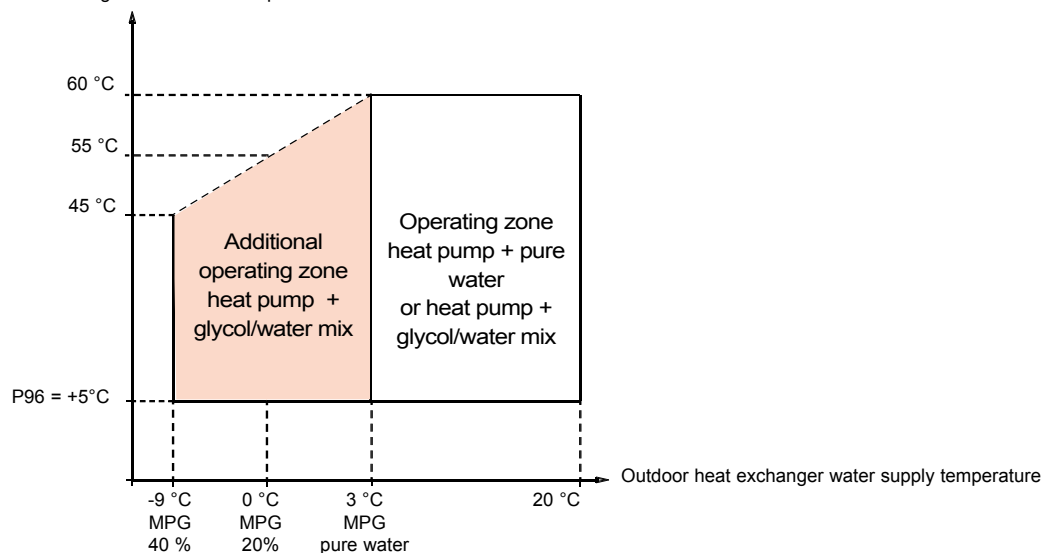
GeoCIAT Power 90-120



The available pressure curves are given for pure water at 20°C. For an installation with 40% MPG, subtract 5 kPa.

OPERATING LIMITS

Indoor heat exchanger water outlet temperature



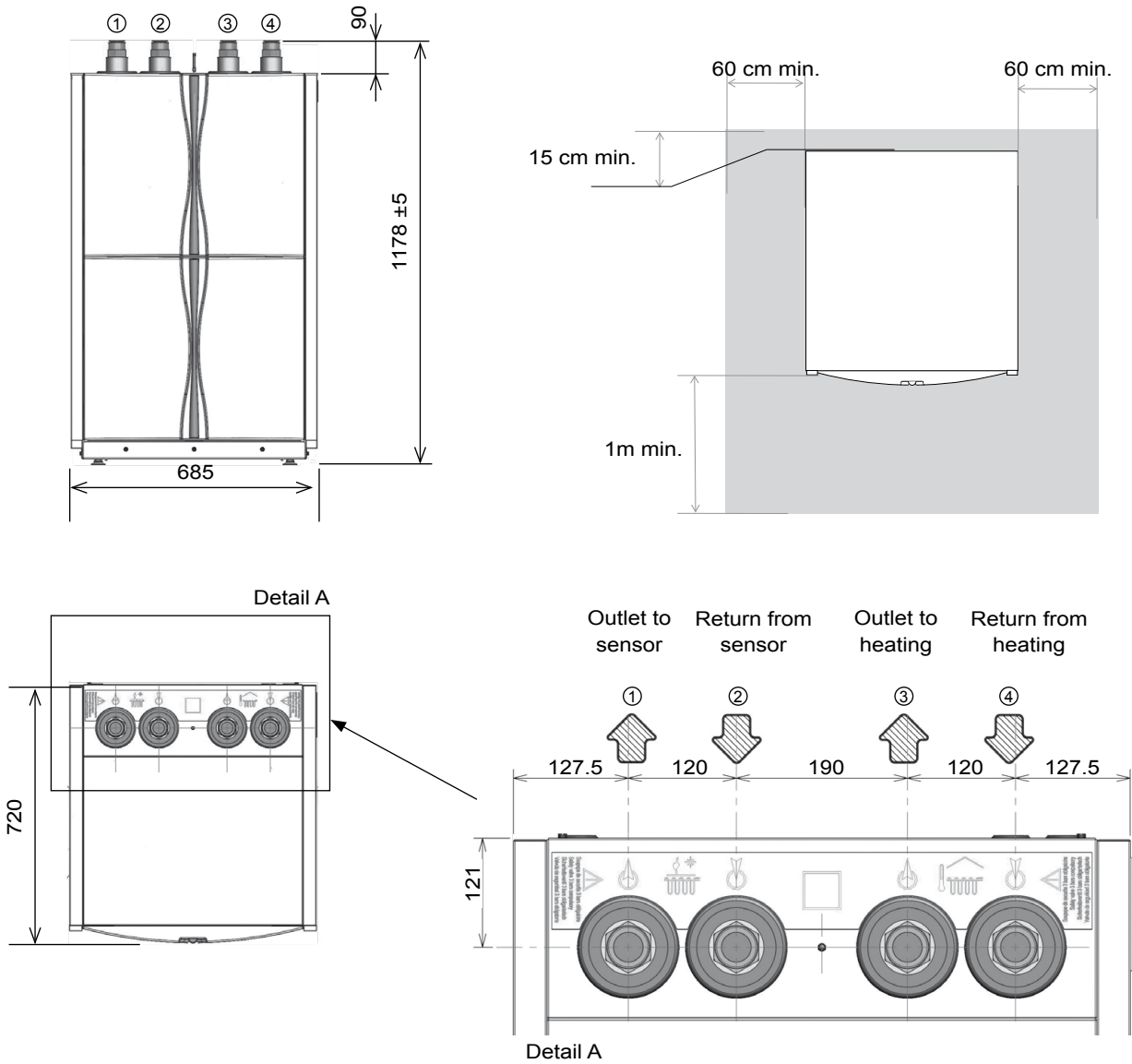
NET HEATING CAPACITIES

The power input levels in the table below include the compressor, accelerator pumps and control system.

GeoCIAT Power	Cold water outlet temp. (°C)	HOT WATER OUTLET TEMPERATURE (°C)														
		Underfloor heating system				Comfort unit				Radiator						
		30		35		40		45		50		55		60		
		Hc kW	Pi kW	Hc kW	Pi kW	Hc kW	Pi kW	Hc kW	Pi kW	Hc kW	Pi kW	Hc kW	Pi kW	Hc kW	Pi kW	
50H	Solution with 40 % MPG	-6	11,4	2,7	11,2	3,0	11,1	3,3	10,8	3,6	10,7	4,0				
		-4	12,1	2,7	11,9	3,0	11,7	3,4	11,5	3,6	11,3	4,0				
		-2	12,8	2,7	12,6	3,0	12,4	3,4	12,2	3,7	11,9	4,0				
		0	13,6	2,8	13,4	3,1	13,2	3,4	12,9	3,7	12,6	4,1	12,3	4,5		
		2	14,5	2,8	14,3	3,1	14,0	3,4	13,6	3,7	13,3	4,1	13,0	4,5		
	Pure water	5	16,2	2,8	15,9	3,1	15,6	3,3	15,1	3,7	14,7	4,1	14,3	4,6	13,9	5,1
		6	16,7	2,8	16,3	3,1	15,9	3,4	15,5	3,7	15,1	4,2	14,7	4,6	14,3	5,1
		7	17,2	2,8	16,8	3,1	16,4	3,5	16,0	3,8	15,5	4,2	15,1	4,6	14,6	5,1
		8	17,8	2,8	17,3	3,1	16,9	3,5	16,4	3,8	15,9	4,2	15,5	4,7	15,0	5,1
		10	18,8	2,9	18,4	3,2	17,8	3,5	17,1	3,9	16,8	4,2	16,3	4,7	15,8	5,2
		12	20,0	2,9	19,4	3,2	18,8	3,5	18,3	3,8	17,8	4,1	17,1	4,7	16,6	5,2
		15	21,8	3,0	21,1	3,3	20,5	3,6	19,8	3,9	19,1	4,3	18,5	4,7	17,9	5,2
		18	23,8	3,1	23,1	3,3	22,3	3,7	21,5	4,0	20,7	4,4	20,0	4,8	19,3	5,3
		20	25,2	3,1	24,4	3,4	23,5	3,7	22,7	4,0	21,9	4,4	21,0	4,8	20,3	5,3
50HT	Solution with 40 % MPG	-6	11,2	2,6	11,1	2,9	10,9	3,2	10,7	3,4	10,5	3,8				
		-4	11,9	2,6	11,8	2,9	11,6	3,2	11,3	3,5	11,1	3,8				
		-2	12,7	2,6	12,5	2,9	12,3	3,2	12,0	3,5	11,8	3,9				
		0	13,5	2,7	13,3	2,9	13,0	3,2	12,7	3,5	12,5	3,9	12,2	4,3		
		2	14,4	2,7	14,1	3,0	13,9	3,3	13,4	3,6	13,1	4,0	12,9	4,4		
	Pure water	5	16,1	2,7	15,8	3,0	15,4	3,3	15,0	3,7	14,6	4,1	14,2	4,5	13,8	5,0
		6	16,7	2,7	16,2	3,0	15,7	3,4	15,4	3,7	15,0	4,1	14,6	4,6	14,1	5,0
		7	17,1	2,7	16,7	3,0	16,1	3,4	15,9	3,7	15,4	4,1	14,9	4,6	14,5	5,0
		8	17,7	2,7	17,2	3,0	16,6	3,5	16,3	3,7	15,8	4,1	15,4	4,6	14,9	5,1
		10	18,7	2,8	18,2	3,1	17,6	3,5	17,0	3,9	16,7	4,2	16,2	4,6	15,6	5,1
		12	19,9	2,8	19,2	3,1	18,6	3,5	18,2	3,8	17,7	4,1	17,0	4,7	16,4	5,1
		15	21,6	2,9	20,9	3,2	20,3	3,5	19,7	3,8	19,0	4,3	18,4	4,7	17,8	5,2
		18	23,6	2,9	22,8	3,2	22,1	3,6	21,4	3,9	20,6	4,3	19,9	4,7	19,2	5,2
		20	25,0	3,0	24,1	3,3	23,4	3,6	22,6	4,0	21,8	4,4	20,9	4,8	20,2	5,2
65HT	Solution with 40 % MPG	-6	14,4	3,4	14,2	3,7	13,9	4,0	13,6	4,5	13,0	4,9				
		-4	15,3	3,4	15,1	3,7	14,8	4,1	14,4	4,5	13,9	5,0				
		-2	16,3	3,5	16,0	3,8	15,7	4,2	15,3	4,6	14,8	5,0				
		0	17,3	3,5	17,0	3,9	16,6	4,2	16,3	4,7	15,8	5,1	15,4	5,8		
		2	18,4	3,6	18,0	3,9	17,7	4,3	17,2	4,7	16,7	5,2	16,4	5,9		
	Pure water	5	20,6	3,5	20,1	3,8	19,5	4,3	19,0	4,7	18,4	5,2	18,1	5,7	17,4	6,2
		6	21,2	3,5	20,7	3,8	19,9	4,4	19,5	4,8	18,9	5,2	18,6	5,7	17,8	6,2
		7	21,9	3,5	21,2	3,9	20,4	4,4	20,0	4,8	19,3	5,2	19,0	5,7	18,2	6,2
		8	22,6	3,5	21,8	3,9	21,0	4,4	20,5	4,8	19,8	5,2	19,6	5,8	18,7	6,3
		10	23,9	3,5	23,1	3,9	22,2	4,4	21,4	5,0	20,9	5,3	20,6	5,8	19,7	6,3
		12	25,4	3,5	24,4	3,9	23,4	4,4	22,8	4,8	22,1	5,2	21,6	5,8	20,7	6,3
		15	27,7	3,5	26,5	3,9	25,5	4,4	24,6	4,9	23,7	5,4	23,3	5,9	22,3	6,4
		18	30,3	3,5	28,9	3,9	27,7	4,4	26,6	4,9	25,6	5,4	25,1	5,9	24,1	6,4
			32,1	3,6	30,6	4,0	29,2	4,4	28,1	4,9	27,0	5,4	26,4	5,9	25,3	6,4

GeoCIAT Power	Cold water outlet temp. (°C)	HOT WATER OUTLET TEMPERATURE (°C)														
		Underfloor heating system				Comfort unit				Radiator						
		30		35		40		45		50		55		60		
		Hc kW	Pi kW	Hc kW	Pi kW	Hc kW	Pi kW	Hc kW	Pi kW	Hc kW	Pi kW	Hc kW	Pi kW	Hc kW	Pi kW	
90 HT	Solution with 40 % MPG	-6	19,6	4,7	19,2	5,2	18,9	5,8	18,6	6,3	18,3	7,0				
		-4	20,8	4,8	20,5	5,3	20,1	5,8	19,7	6,3	19,4	7,1				
		-2	22,2	4,8	21,7	5,3	21,3	5,9	21,0	6,4	20,5	7,1				
		0	23,6	4,9	23,2	5,4	22,6	5,9	22,3	6,4	21,7	7,1	21,0	8,0		
		2	25,1	5,0	24,6	5,4	24,1	6,0	23,5	6,4	22,9	7,2	22,1	8,0		
	Pure water	5	27,9	4,9	27,2	5,3	26,6	5,9	25,8	6,6	25,1	7,3	24,6	8,0	23,8	9,0
		6	28,8	4,9	28,1	5,4	27,1	6,1	26,6	6,6	25,8	7,4	25,3	8,1	24,4	9,0
		7	29,7	5,0	28,8	5,4	27,9	6,1	27,3	6,7	26,5	7,4	26,0	8,1	25,0	9,0
		8	30,6	5,0	29,7	5,4	28,7	6,2	28,0	6,7	27,2	7,4	26,7	8,1	25,6	9,1
		10	32,5	5,1	31,5	5,5	30,4	6,2	29,3	7,0	28,6	7,5	28,2	8,2	26,9	9,1
		12	34,6	5,1	33,2	5,7	32,1	6,3	31,3	6,8	30,4	7,4	29,7	8,3	28,3	9,2
		15	37,7	5,4	36,1	5,9	35,0	6,4	33,9	7,0	32,7	7,7	32,4	8,4	30,5	9,3
		18	41,3	5,5	39,4	6,0	38,1	6,6	36,7	7,2	35,4	7,8	35,1	8,5	32,9	9,4
		20	43,8	5,6	41,7	6,2	40,3	6,6	38,8	7,3	37,4	7,9	37,1	8,6	34,5	9,4
120 HT	Solution with 40 % MPG	-6	24,7	5,7	24,3	6,3	23,9	7,0	23,5	7,7	23,1	8,6				
		-4	26,2	5,8	25,9	6,4	25,4	7,0	24,9	7,8	24,4	8,7				
		-2	27,9	5,9	27,4	6,4	26,9	7,1	26,4	7,9	25,8	8,8				
		0	29,6	6,0	29,2	6,5	28,4	7,2	28,0	8,0	27,4	8,9	26,7	9,9		
		2	31,6	6,0	30,9	6,6	30,2	7,3	29,5	8,1	28,8	8,9	28,1	9,9		
	Pure water	5	35,8	6,1	34,9	6,6	34,0	7,3	33,1	8,1	32,2	9,0	31,2	10,0	30,3	11,2
		6	36,9	6,1	35,9	6,7	34,7	7,5	34,0	8,1	33,0	9,1	32,1	10,1	31,0	11,2
		7	38,0	6,2	36,9	6,7	35,7	7,6	35,0	8,2	33,9	9,1	32,8	10,1	31,8	11,3
		8	39,1	6,2	38,0	6,8	36,8	7,7	35,8	8,3	34,8	9,2	33,7	10,2	32,5	11,3
		10	41,4	6,3	40,3	6,9	38,9	7,7	37,4	8,7	36,6	9,3	35,4	10,3	34,2	11,4
		12	44,0	6,4	42,5	7,0	41,1	7,8	40,0	8,4	38,8	9,2	37,2	10,4	35,9	11,5
		15	47,8	6,7	46,2	7,1	44,8	7,8	43,3	8,6	41,7	9,6	40,3	10,6	38,7	11,6
		18	52,1	6,9	50,4	7,3	48,7	8,0	46,9	8,7	45,1	9,7	43,5	10,7	41,7	11,8
		20	55,2	7,1	53,4	7,5	51,6	8,1	49,6	8,8	47,7	9,7	45,7	10,8	43,8	11,9

DIMENSIONS AND FREE SPACE (MM)



GeoCIAT Power dimensions		50H(T)	65HT	90HT	120HT
L x D x H, enclosed	mm	685 x 720 x 1178 ± 5			
Weight	kg	174	178	204	204

TECHNICAL CHARACTERISTICS

GeoCIAT Power		50H/50HT	65HT	90HT	120HT
Compressor	Number	1			
	Type	ON/OFF SCROLL			
	Oil capacity (POE) L	1,2	1,57	2,66	2,66
	R410A charge kg/tCO ₂ e	1,3 / 2,71	1,3 / 2,71	2,2 / 4,59	2,2 / 4,59
Indoor heat exchanger	Type	Braze plate heat exchanger			
	Capacity L	1,5	1,5	2,7	2,7
Indoor hydraulic module	Expansion vessel capacity L	12			
	Vessel precharge pressure bar	1,5			
	Minimum water capacity of system L	66	83	115	148
	Max. water capacity (40°C) of the system (pure water/glycol/water mix)* L	250/176	376/265		
	Variable speed accelerator pump. Operating pressure kPa	105	94	109	99
Outdoor heat exchanger	Type	Braze plate heat exchanger			
	Capacity L	1,3	1,3	2,2	2,2
Outdoor hydraulic module	Expansion vessel capacity L	12			
	Vessel precharge pressure bar	1,5			
	Minimum water capacity of system L	depends on catchment area			
	Max. water capacity of the system (pure water/glycol/water mix)* L	214	321		
	Variable speed accelerator pump. Operating pressure kPa	70/66	33	91	60

* If greater, install an additional or bigger expansion vessel.

ELECTRICAL DATA

GeoCIAT Power		50H	50HT	65HT	90HT	120HT
Power supply		230V - 1ph -50Hz -E+N		400V - 3ph -50Hz -E+N		
Max. current	Compressor A	26,1	9	17	19	21,1
	Indoor accelerator pump A	1,4				
	Outdoor accelerator pump A	1,4				
	HomeConnect control A	0,15				
Capacity	Indoor accelerator pump min/max W	3 / 180			16 / 310	
	Outdoor accelerator pump min/max W	3 / 180			16 / 310	
Nominal current of unit A	17,3	8,5	11,2	12,9	15,2	
Maximum unit current A	30,1	12,9	21	23	25	
Starting current A	33,8	30,4	35,5	50,4	53,2	
PVC electrical cables (not supplied) (1) mm ²	3G10	5G2.5	5G6			
PVC-V2-K electric cables High Temperature (not supplied) mm ²	3G6	5G1.5	5G4			
Control circuit connection kit mm ²	See relevant KIT manuals					
C or D curve circuit breaker (not supplied) A	32	16	25	25	32	

(1) Cable with 2 or 3 charged PVC conductors for temperatures below 50 °C and for a maximum length of 30 m.

SOUND LEVELS

GeoCIAT Power		50H	50HT	65HT	90HT	120HT
Sound power dB(A)		54	54	52	53	55
Sound pressure* dB(A)		32	32	30	31	33

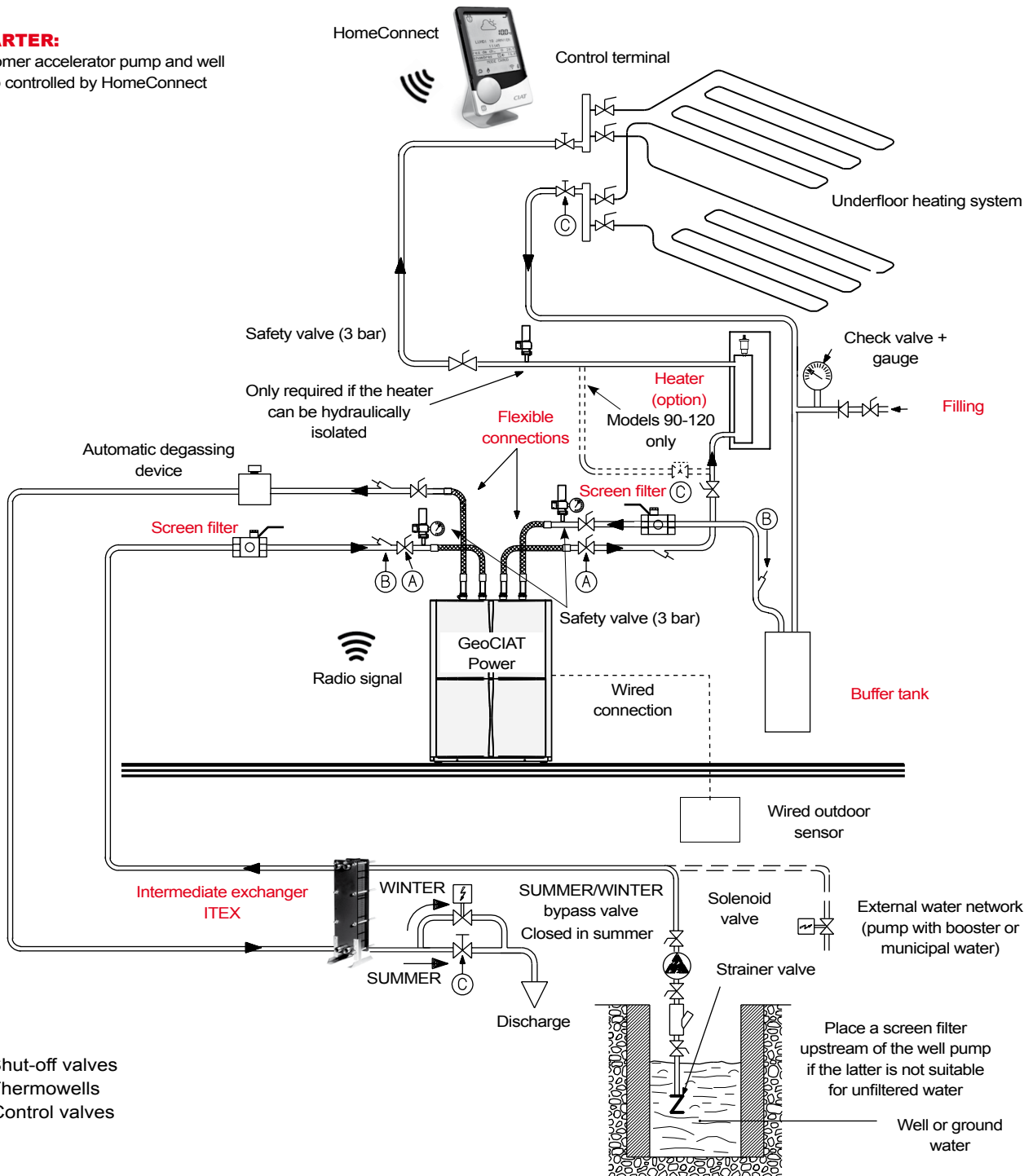
* Sound pressure measured 5 m from unit, 1.5 m from floor, free field, directivity 2.

SCHEMATIC INSTALLATION DIAGRAM

Connection to an underfloor heating system

SMARTER:

Customer accelerator pump and well pump controlled by HomeConnect



- A - Shut-off valves
- B - Thermowells
- C - Control valves

⚠ * CIAT cannot be held liable for any clogging or malfunctions of the exchanger inside the heat pump if this exchanger is not installed.

Recommendations for making hydraulic connections

A constant flow of water must be maintained in the exchangers.

Flexible hydraulic connections (supplied as an option) must be fitted between the heat pump exchangers and the hot and cold water pipes. Fasten the hot and cold water pipes to the walls with brackets lined with highly flexible rubber to prevent the transmission of vibrations.

The system must be charged with a sufficient volume of water to avoid compressor short cycles. Install a buffer tank if the volume of water in the heating or cooling system is too low. See the minimum water capacities given in the technical specifications.

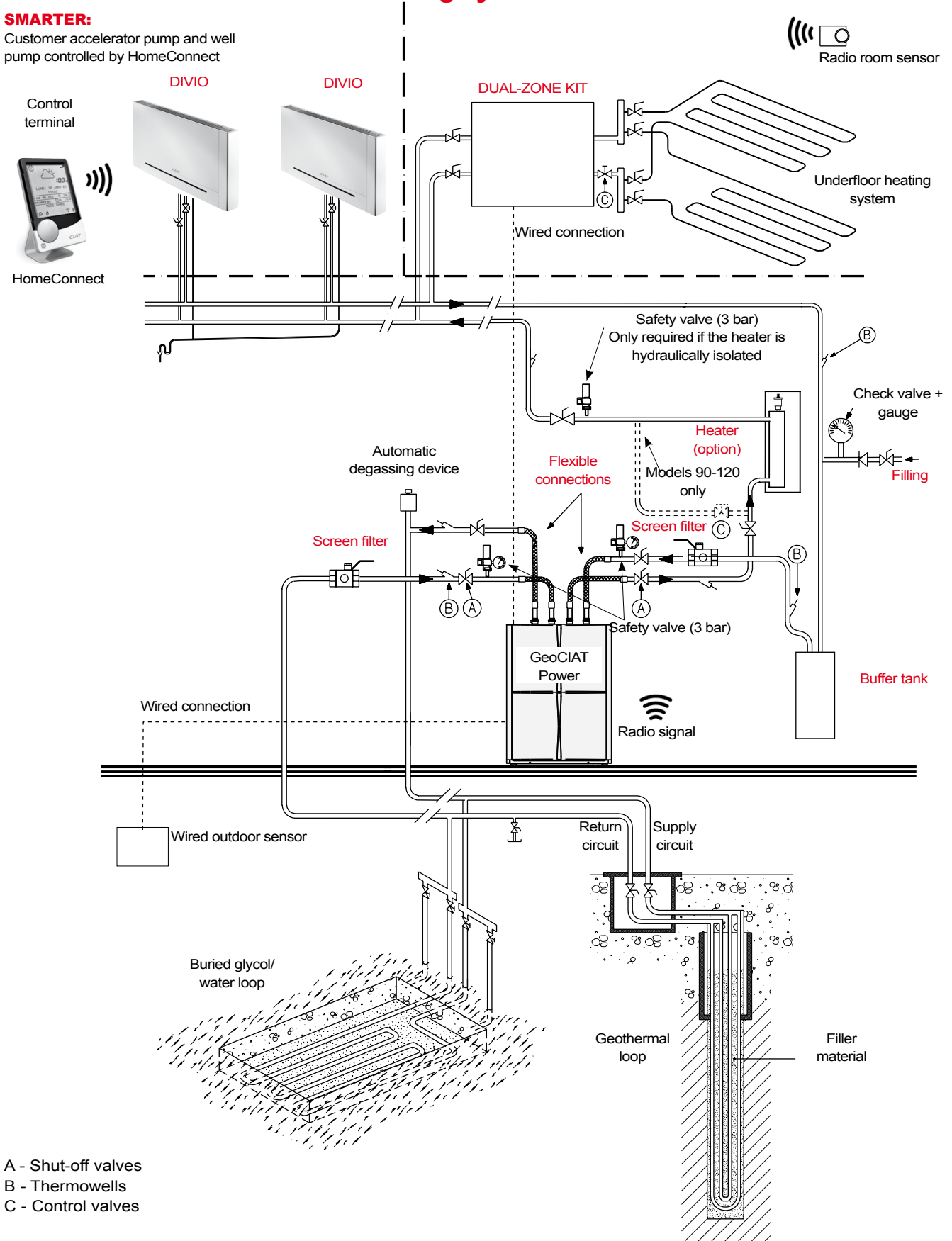
Note: the schematic diagrams herein are provided for information only. Under no circumstances do they constitute actual installation diagrams.

SCHEMATIC INSTALLATION DIAGRAM

Connection to an underfloor heating system and CU

SMARTER:

Customer accelerator pump and well pump controlled by HomeConnect



Note: the schematic diagrams herein are provided for information only. Under no circumstances do they constitute actual installation diagrams.

INSTALLATION RECOMMENDATIONS

Installation

The GeoCIAT Power heat pump must be installed indoors in a machine room, laundry room or garage, protected from frost and adverse weather conditions. If possible, avoid installing the unit near a bedroom.

Sufficient clearance should be left around the unit as indicated in the Dimensions and Free space paragraph, to allow the unit's various compartments to be accessed easily.

Electrical connections

All the information needed to wire the system is provided on the wiring diagram supplied with the unit. The diagram should be followed to the letter. Wiring must be carried out in accordance with accepted engineering practice and conform to current standards. A switch and circuit breaker must be installed on the consumer unit by the fitter.

NOTE: to protect the indoor circuit from freezing, leave it on to allow the water to continue flowing through the hydraulic system and to automatically protect the accelerator pumps from seizure. Add glycol to the system if the unit is inactive for a prolonged period.

The outdoor circuit is not protected from freezing by the GeoCIAT Power heat pump:

- For horizontal loops and geothermal loops: add glycol
- For well/ground water heat pumps: lay the pipes in an area protected from freezing temperatures. If necessary, install pipe heaters.

Hydraulic connections

Hydraulic connections must be made according to industry standards. Flexible connections must be fitted to the GeoCIAT Power inlets and outlets for hydraulic connection. The system's pipes must also be held clear of the wall using anti-vibration mounts in order to prevent the transmission of noise and vibrations.

As heat pump exchangers are sensitive to clogging, flush the lines thoroughly before connecting them to the unit. Install a screen filter ($\varnothing < 600 \mu\text{m}$) on the primary and secondary circuits to protect the plate heat exchangers from clogging.

The following accessories are essential to any hydraulic circuit and must also be installed:

- System drain connection at low point,
- Air vents at pipe high points,
- Mandatory safety valves (3 bar),
- Make sure the water capacity of the system is sufficient (see technical characteristics),
- Fit a buffer tank or additional expansion vessel if necessary,
- Ensure the water circulation direction is respected in the exchangers.

A constant flow of water must be maintained in the indoor and outdoor heat exchangers and a minimum flow rate must be maintained in the accelerator pumps.

When using ground water, a sectional heat exchanger (ITEX AGE0+ type) must be inserted to protect the heat pump from sludge (risk of clogging), aggressive water, iron, manganese or chlorine (risk of corrosion or deposits)

This exchanger also limits the number of times the frost protection is turned on when your system is started up in cold weather or after a prolonged period without use.

NOTE: CIAT cannot be held liable for any clogging or malfunctions of the exchanger inside the GeoCIAT Power if this exchanger is not installed.

Commissioning

Follow the instructions in the installation manual. CIAT can commission the unit if an order is received under the Serenity additional warranty.

Maintenance

Follow the instructions in the installation and maintenance manual. Take out a maintenance contract. Take out a maintenance contract.

This document is not legally binding. As part of its continuous drive to improve its equipment, CIAT reserves the right to make any technical modifications without prior notice.
Ref.: NA 20.746 A

Head office

700 Avenue Jean Falconnier - B.P. 14
01350 - Culoz - France
Tel.: +33 (0)4 79 42 42 42
Fax: +33 (0)4 79 42 42 10
www.ciat.com



CIAT Service

Technical support: 0 892 05 93 93 (€0.34/min)
Spare parts: 0 826 96 95 94 (€0.15/min)
pdrfrance@ciat.utc.com - PDRGarantie@ciat.fr

