



GROUND SOURCE HEAT PUMP

ecological & economical

Heat more efficiently and heat cleanly, consuming less energy to preserve resources for future generations.

Because this is the only planet we have !

Sirius H heat pumps are designed to heat your home by extracting the heat using the underground tubes carrying water with antifreeze.

The R407 C refrigerant used preserves the ozone layer. There is a minimal greenhouse effect to prevent global warming, thus helping to preserve the Earth.

Because the air we breathe is more precious than we realize !

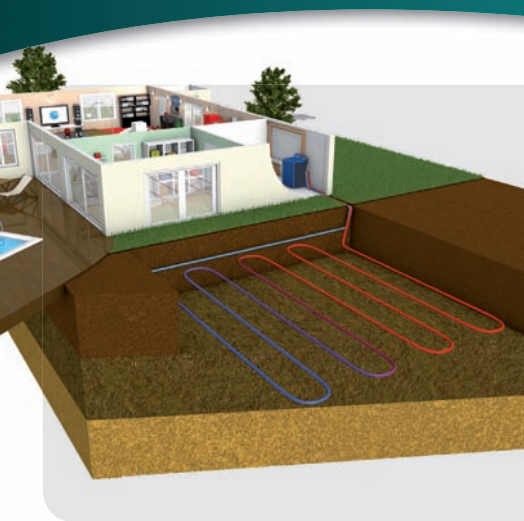
Sirius heat pumps transfer to your home the free and unlimited energy extracted outside by a system of loops in the ground of your garden. This can save up to 75% on your heating bills depending on the house, the insulation or the existing heating system.

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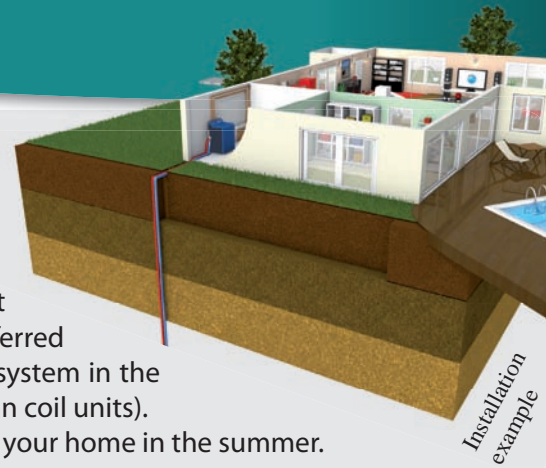


More information ► www.airpac.eu



Multipurpose

The Sirius H system is intended for home heating in new and renovated houses, and may be coupled to horizontal or vertical ground loops. Heat is collected in the ground and is transferred by the heat pump to a heating water system in the home (underfloor heating, radiators, fan coil units). As an option, the Sirius H can also cool your home in the summer.



Installation example

Efficient and easy to use

The new version of the high efficiency Sirius H heat pump meets the criteria of the European Ecolabel : COP > 4.3 at 0/35°C (compared with COP > 3.6 required by the NF-PAC heat pump standard).

An integrated regulator connected either to a wireless ambient thermostat or a radio thermostat (optional) controls the temperature in your home. As an option, the system can also be equipped with an auxiliary heater controlled by an outdoor thermostat.

A gradual start-up system prevents inrush current in the single phase range to protect your wiring.

Easy to install and attractive

The Sirius H is equipped with adjustable anti-vibration feet to level the machine and reduce vibration. This ensures extremely quiet operation.

With its compact, smart design, the Sirius H can be installed anywhere in your home.



Sirius H Characteristics		Sirius 5 H		Sirius 7 H		Sirius 9 H		Sirius 12 H		Sirius 15 H	Sirius 20 H
		mono	mono	three	mono	three	mono	three	three	three	
Heating capacity ⁽¹⁾	kW	5,6	7,1	7,1	9,6	9,7	12,3	12,3	14,2	17,1	
Coefficient of performance ⁽¹⁾	kWh/kWh	3,8	4	4,3	4	4,3	4,2	4,3	4,3	4,3	
Heating water flow	l/h	950	1300		1600		2300		2700	2900	
Ground circuit flow	l/h	1350	1800		2200		2900		3600	4100	
Heating capacity ⁽²⁾	kW	5,5	7,0	7,0	9,4	9,5	12,1	12,1	13,9	16,7	
Coefficient of performance ⁽²⁾	kWh/kWh	2,9	3,3	3,4	3,3	3,4	3,3	3,4	3,4	3,4	
Max. outlet water temperature ⁽³⁾	°C	+ 55 °C									
T° ground loop (min/max)	°C	-10°C / +20°C									
Power supply	V/Ph/Hz	Single phase 220-240 V/1N+T/50									
		Three phase 380-415 V/3N+T/50									
Refrigerant type	-	R 407 C									
Weight	kg	105	110		110		120		130	140	
Height x width x depth	mm	1000 x 590 x 590									
Acoustic power Lw	dB(A)	51	53		55		57		58	60	
Acoustic pressure Lp in 1m/2m/5m ⁽⁴⁾	dB(A)	42/36/28	42/36/28		44/38/30		46/40/32		47/41/33	49/43/35	
Horizontal ground loop ⁽⁵⁾	nb x m	5 x 100	6 x 100		8 x 100		10 x 100		12 x 100	16 x 100	
Minimum ground loop area	m ²	130	160		220		280		340	460	
Vertical ground loop ⁽⁵⁾	nb x m	1 x 90	2 x 60		2 x 80		2 x 100		3 x 80	3 x 100	

⁽¹⁾ Conditions NF EN14511 : Brine 0°C/-3°C - Water 30°C/35°C. - ⁽²⁾ Conditions : Brine 0°C/-3°C - Water +40°C/45°C. - ⁽³⁾ With outlet brine temperature ground loop > -5°C. - ⁽⁴⁾ According to the environment of the product, the on-site moderate sound pressure can be appreciably superior to the announced value. - ⁽⁵⁾ Number of DN25 loops x length of a loop (100 m). - ⁽⁶⁾ Number of sensors x depth of drilling, base 50W/m.

Technical data given as guidelines, subject to change without notice as part of the continuous improvement of products.

Réf. 35024 - 07/2010

Your installer :

