



Apricus Europe

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APRICUS EVACUATED TUBE SOLAR THERMAL SYSTEM – SERVICE SCHEDULE

Initial System on Commissioning :

Expansion Vessel Pressure Before Filling : _____ Bar

Expansion Vessel Pressure After Filling : _____ Bar

Type / Brand / Name of Glycol Used : Apricus Zitrec LS or Other : _____

	Commissioned	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Date											
System Pressure (Bar)											
Flow Rate (lpm)											
Glycol Reading (pH)											
Glycol Reading (°C)											
Inspector Initials											

*Note : it is recommended to replace the Glycol Fluid every 5 years unless an inspection of the fluid suggests earlier replacement.

	Commissioned	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
Date											
System Pressure (Bar)											
Flow Rate (lpm)											
Glycol Reading (pH)											
Glycol Reading (°C)											
Inspector Initials											

*Note : it is recommended to replace the Glycol Fluid every 5 years unless an inspection of the fluid suggests earlier replacement.

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	Commissioned	Year 21	Year 22	Year 23	Year 24	Year 25	Year 26	Year 27	Year 28	Year 29	Year 30
Date											
System Pressure (Bar)											
Flow Rate (lpm)											
Glycol Reading (pH)											
Glycol Reading (°C)											
Inspector Initials											

*Note : it is recommended to replace the Glycol Fluid every 5 years unless an inspection of the fluid suggests earlier replacement.

Inspection Recommendations:

1. For the inspection of the Glycol Fluid it is recommended that a small fluid sample is extracted from the pump. A sample may be extracted by loosening the bleed valve on the centre of the circulating pump (only a few drops will be required). The extracted sample should be tested for its antifreeze characteristics by using a Refractometer and for pH level by using litmus paper.
 - a. New Glycol should give readings of -20°C or lower with a pH 10.
 - b. Consider replacing the fluid if reading is -15°C or higher, or the pH is 8 or lower. (System may require an intermediate service before the next annual service to monitor these values).
 - c. Immediately replace the fluid if reading is -12°C or higher, or the pH is 7 or lower.

Other Inspection Recommendations :

It is also recommended that the following visual inspections are undertaken if possible :

1. Visually inspect the pipework to check for any leaks. This is particularly important if there has been a drop in system pressure.
2. Check the blow off vessel for any expelled fluid.
3. If the customer has reported any performance issues confirm there is no air-lock in the system (i.e check that available heat from the collector is delivered to the cylinder, you will need a sunny day to confirm this). You may also check the getters on the tubes to confirm they still retain vacuum.

APRICUS EUROPE WARRANTY

Standard Limited Warranty Terms & Conditions

GENERAL

Apricus Europe warrants the Solar Collectors and Accessories (the "Products") supplied to be free from defects in workmanship under normal usage for the applicable Warranty Period from the effective date. This Limited Warranty extends to the End-User of the product at the original installation location, and is not transferable. In the event of a defect, malfunction or other failure of the Products occurring within the applicable Warranty Period which is not caused by any misuse or damage to the Product while in the possession of the End-User, Apricus Europe will remedy the failure or defect within a reasonable amount of time. The remedy will consist of repair or replacement of the Products, or refund of the purchase price, in the sole discretion of Apricus Europe. However, Apricus Europe will not elect to refund the purchase price unless it is unable to provide a replacement, and repair is not commercially practical and cannot be made within a reasonable timeframe. After a reasonable number of attempts by Apricus Europe to remedy any defects or malfunction, the End-User will be entitled to either a refund or replacement of the product or its component parts. The remedies stated herein are the sole remedies for defects within the applicable warranty period.

LIMIT OF LIABILITY

EXCEPT FOR THE EXPRESS LIMITED WARRANTY PROVIDED FOR HEREIN APRICUS EUROPE HEREBY DISCLAIMS AND EXCLUDES ANY AND ALL OTHER WRITTEN OR ORAL EXPRESS WARRANTIES OR REPRESENTATIONS. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE MUST ARISE UNDER LAW TO APPLY, AND IS HEREBY LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES PROVIDED HEREIN UNLESS OTHERWISE BARRED BY ANY APPLICABLE STATUTE OF LIMITATION. APRICUS EUROPE DISCLAIMS ANY RESPONSIBILITY FOR SPECIAL, INDIRECT, SECONDARY, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING FROM OWNERSHIP OR USE OF THESE PRODUCTS, INCLUDING PERSONAL INJURY, INCONVENIENCE, LOSS OF USE OR LOSS OF INCOME. NO AGENT OR REPRESENTATIVE OF APRICUS EUROPE HAS ANY AUTHORITY TO EXTEND OR MODIFY THIS WARRANTY UNLESS SUCH EXTENSION OR MODIFICATION IS MADE IN WRITING BY A CORPORATE OFFICER. WHERE ANY DISCLAIMERS AND LIMITATIONS CONFLICT WITH APPLICABLE LAW, THE APPLICABLE LAW SHALL PREVAIL.

WARRANTY PERIOD

The Warranty Periods for Products supplied by Apricus is limited to the benefit of any such warranty that is provided to Apricus by the manufacturer of the Products. Where, the Manufacturer Warranty differs from that stated herein, the Manufacturer warranty takes precedence.

Component	Warranty Period	Effective Date
Solar Collector : Copper Heat Transfer Header	15 Years	Installation Date*
Solar Collector : Mounting Frame	15 Years	Installation Date*
Solar Collector : Evacuated Tubes and Heat Pipes	10 Years	Installation Date*
Heat Dissipater Unit	10 Years	Installation Date*
Solar Controller Unit	2 Years	Date of Manufacture
Pipes, Valves, Fittings	1 Year	Date of Purchase

* installation date as recorded on the installation commissioning form, purchase invoice date, or, if neither are available, the date of manufacture plus sixty (60) days.

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WARRANTY EXCLUSIONS

This warranty shall be void and shall have no effect if:

- a. The design or structure of the Products are attempted to be modified or altered in any way, including by not limited to attaching non- Apricus Europe approved appliances or equipment;
- b. The Products are not installed or repaired in accordance with applicable local codes;
- c. The Products are not installed by qualified, suitably licensed persons;
- d. The installer had not received Product installation training by Apricus Europe. or an authorised partner;
- e. The installation was not completed in line with the guidelines of the then current Apricus Europe installation manual;
- f. System is exposed to excessive system pressure;
- g. Solar collector is exposed to flow rates in excess of 15Lpm;
- h. Any system component is damaged due to freezing;
- i. Any system component leaks due to corrosion;
- j. Non-approved heat transfer liquids are used;
- k. Damage to the collector header is caused due to heat buckling;
- l. Failure is due to wind, hail, storms or other acts of God;
- m. Failure or loss of efficiency is due to lime-scale formation;
- n. Failure is due to lightning damage, electrical power interruption or dirty power supply;
- o. Electrical devices are installed in an environment that exceeds their specified operating range;
- p. Temperature sensors fail due to water ingress, electrical shorting, or electrical interference;
- q. Failure of the circulation pump due to running the system dry;
- r. Product serial tag or other identification is defaced or removed;
- s. Product is relocated from its original point of installation;
- t. Collector is not commissioned and / or is left to stagnate for a period exceeding 14 consecutive days;
- u. Any operation exceeds the documented design limits of the system components.

HOW TO OBTAIN WARRANTY CLAIM SUPPORT

End User Obligations

In order to obtain performance of any obligation under this warranty, the End-User must:

1. Firstly determine if the Product is within the applicable Warranty Periods. This can be determined by :
 - a. Referring to the installation commissioning form, or
 - b. The original purchase invoice, or
 - c. The serial number and manufacturing date will need to be read off the Product serial tag.

NOTE : Some Products may be installed in a location that is not accessible to the End-User and so the information may only be obtained by a qualified service technician.

2. Contact the Installer :
 - a. Contact the company who installed the original Product, or, if unknown or unable to be contacted,
 - b. Contact Apricus Europe directly :

Apricus Europe
42 Milecross Road
Newtownards
BT23 4SR
Northern Ireland, U.K.
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Tel : +44 (0)28 9182 9470

The following information may be required to determine if the Product issue is eligible for coverage under the terms of this Limited Warranty :

- a. Information related to the manner in which the Products were installed
- b. The history of operation
- c. Any repairs that may have been made
- d. Evidence that the Products were installed by a qualified, licensed contractor.
- e. Evidence that the Products were installed in accordance with the applicable Products Installation Manuals and any special written design or installation guidelines by Apricus Europe for this project.
- f. Evidence that the Products were installed in accordance with all applicable local and national building, plumbing and electrical regulations.

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INSTALLER NOTES :

A large empty rectangular box with a blue border, intended for the installer to provide notes.



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