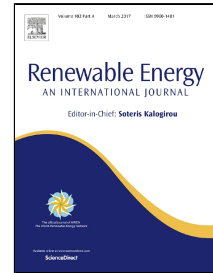


Accepted Manuscript

Monitoring of gas driven absorption heat pumps and comparing energy efficiency on primary energy

Marica Fumagalli, Alessandro Sivieri, Marcello Aprile, Mario Motta, Matteo Zanchi



PII: S0960-1481(16)31117-X
DOI: 10.1016/j.renene.2016.12.058
Reference: RENE 8395
To appear in: *Renewable Energy*
Received Date: 02 May 2016
Revised Date: 16 December 2016
Accepted Date: 22 December 2016

Please cite this article as: Marica Fumagalli, Alessandro Sivieri, Marcello Aprile, Mario Motta, Matteo Zanchi, Monitoring of gas driven absorption heat pumps and comparing energy efficiency on primary energy, *Renewable Energy* (2016), doi: 10.1016/j.renene.2016.12.058

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

1 **Title**

2 Monitoring of gas driven absorption heat pumps and comparing energy efficiency on primary energy

3

4 **Authors**

5 Marica Fumagalli ⁽¹⁾, Alessandro Sivieri, Marcello Aprile, Mario Motta, Matteo Zanchi

6 Department of Energy, Politecnico di Milano, 20156 Milano, Italy

7

8 **Highlights**

- 9 • A monitoring and analysis procedure suitable for heat pump systems is described
- 10 • The primary energy efficiencies for five gas driven heat pumps systems are presented
- 11 • Design, control and installation drawbacks affecting the performance on field are explained
- 12 • Possible efficiency enhancements are discussed

13

14 **Abstract**

15 This paper describes the methodology and results of monitoring several heat pump systems installed in
16 public buildings in the North of Italy. The three-year project, led by the Energy Department of Politecnico
17 di Milano, aimed at evaluating the performance of heat pump systems on field; it involved several kinds
18 of technologies, including gas driven absorption heat pumps.

¹ Corresponding author. Tel.: +39 02 2399 8511; fax: +39 02 2399 3868.

E-mail address: marica.fumagalli@polimi.it.

Download English Version:

<https://daneshyari.com/en/article/4926267>

Download Persian Version:

<https://daneshyari.com/article/4926267>

[Daneshyari.com](https://daneshyari.com)