

Arghya Mukherjee

From: dgoodwin@johnson-tiles.com
Sent: Thursday, January 10, 2002 10:43 PM
To: arghya
Subject: Re: Energy kind attention



att1.htm (998 B)

Arghya,

Thanks for the introduction, and if you are new to HRJ India, welcome to the Johnson Family !

I have received your fax which you have also sent to Sergio Croci in Italy and Theo Valasiadis in Greece.

Information of this detail is very difficult to obtain as most manufacturers do not have sufficient meters or are reluctant to publicise.

You can see from the replies from Greece and Italy that their information is limited.

I have spoken to Johnson Tiles South Africa who certainly monitor at some key points, and I will forward their information to you.

HRJ UK are limited in terms of information, but again I will forward their information

I also have other contacts from whom I will attempt to obtain more figures for you.

Do not hesitate to contact me for any information which you need.

We will keep the dialogue going !

Best regards

Dave

"arghya" <arghya@hrjohnsonindia.com> on 10/01/2002 11:44:13

To: David Goodwin/H&R Johnson Tiles Ltd@H&R Johnson Tiles Ltd
cc:
Subject: kind attention

Respected Sir,

I fax you few days back regarding our requirement of data on specific energy consumption in tile industry.

Therefore again I request you to provide me the data such that we can start the process of benchmarking energy consumption in our company.

Thanking you

I remain sir

Arghya Mukherjee

Department of Energy Management

H&R Johnson India Limited
Mumbai.

Arghya Mukherjee

From: Luciano_Sdraffa@sacmi.it
Sent: Monday, January 14, 2002 10:25 PM
To: arghya
Cc: A. K. Kaviraj; Anand Pande
Subject: Re: Benchmark of energy consumption figures

Importance: High

Following your request, I'm in a position to provide you with some figures I could collect from some Italian factories.

These figures refer to the technological process only; i.e. they do not include the energy consumption for factory heating, offices, bathrooms, etc.

1. Double fast-firing with "dry" grinding:

Electric Energy: 3.04 Kwh/m²
Fuel (CH(subscript: 4)): 1.61 Standard m³/m²
(Standards m^(superscript: 3) are m^(superscript: 3) at

15 °C)

2. Mono-porosa with "wet" grinding:

Electric Energy: 2.60 Kwh/m²
Fuel (CH(subscript: 4)): 1.80 Standard m³/m²

3. White-Mono-cottura with "wet" grinding:

Electric Energy: 3.00 Kwh/m²
Fuel (CH(subscript: 4)): 2.00 Standard m³/m²

4. Glazed Porcellanato:

Electric Energy: 3.30 Kwh/m²
Fuel (CH(subscript: 4)): 3.10 Standard m³/m²

5. Technical Granito:

Electric Energy: 4.50 Kwh/m²
Fuel (CH(subscript: 4)): 3.40 Standard m³/m²

Consumption of Electric Energy for POLISHING: 4÷5 Kwh/m² of polished tiles

Consumption of Water for POLISHING: 550 lt/m² of polished tiles
(water is generally treated and re-cycled)

Consumption of Water for "Wet" Body Preparation:

a) for mono-cottura and granito: 12÷16 lt/m²
b) for wall tiles: 08÷09 lt/m²

I do hope these figures may be helpful to you.
Further information will follow.

Best regards

L. Sdraffa

Arghya Mukherjee

From: Allertsen Hermod [Hermod.Allertsen@bt-group.net]
Sent: Thursday, January 17, 2002 9:50 PM
To: arghya
Cc: kaviraj@hrjohnsonindia.com
Subject: Energy consumption.

Dear Sir,

I thank you for your interest, and I regret that I have not been able to inform you sooner. The consumption of energy is a very delicate question, since it's directly linked to the type of raw materials that you have, and their constancy in the stability of the mix. The use of harder/softer clays will change the milling times, and therefore also the energy consumption.

Some standard values are ;

SPECIFIC CONSUMPTION

SPRAY DRYER 850 KCal/cad kg Of evaporated water

RAPID SPRAY DRYER 1200 KCal/cad kg Of evaporated water

KILN: min 430 KCal/cad kg of fired product for bisquit, higher
for porcelain tile

Therefore, as you can see, the total energy consumption is depending a lot on the materials, and the rest on the machinery composition on the plant, a thing that changes as much as the evening breeze one discussed.

I am confident to have informed you in a good way, and extend my very best regards.

Sincerely yours

Hermod Allertsen