

Hotellerie 2024 special edition

FOCUS

Sustainable heating with wood

CO₂-neutral thermal energy from
wood chips or pellets with
Schmid biomass furnaces



SCHMID
energy solutions

Inspired by nature – practical sustainability

Hotel Cyprianerhof / Tiers, Italy

Close contact with nature and consistent protection for the environment

“Nature is a gift from heaven. It is beautiful, but extremely fragile. We must not only take from nature, but also give something back if we wish to preserve it for our children. This is why we have always done our utmost to keep this unique habitat for people, animals and plants as we found it.”
Damian family, Cyprianerhof

This conviction was the basis upon which the South Tyrolean climate hotel Cyprianerhof was established. The hotel's philosophy has been based on sustainability since it was established in 1988. The climate hotel was awarded the South Tyrolean environmental seal long before everyone started to talk about sustainability.

“Careful use of natural resources in all areas is just as much a matter of course for us as the use of local products from local farmers and suppliers for the kitchen”, says owner Martin Damian.

Thermal energy from forest management wood in the region

Thermal energy has been generated at the Cyprianerhof using a Schmid wood chip heating system since 1999. The reliable and balanced combustion of wood from sustainable and regional forestry and the automatic ash removal were already convincing arguments for using the Schmid furnace.

“I was surprised that the Schmid boiler achieved such outstanding efficiency with different fuels. The automatic ash removal is also excellent”, tells us a delighted Martin Damian. “For these reasons, and knowing that Schmid boilers are at the technological cutting edge, Schmid was once again our choice for our replacements and extensions.”

“The automation and the remote maintenance are something that we really appreciate. The heating system can be wonderfully optimized using the remote maintenance, and you can rely on the service engineers at all times. That is priceless as far as we are concerned,” continues Martin Damian.

New heating center – additional capacity

The new building was equipped with a second, more powerful boiler, a UTSR-450 visio, and a bigger wood chip silo. The silo is now operated using four moving floor rods. Fortunately and in the spirit of sustainability, the existing furnace and the two existing moving floor rods were able to be re-used. The existing UTSR-240 was upgraded to the latest state of technology with automatic boiler pipe cleaning, ignition and a controller update.

The 100 or so rooms and the pools of the Cyprianerhof have CO₂-neutral heating. The energy requirement is supported by a solar power system. Electricity that is 100% green is also generated and used in the power plant using hydroelectric power.



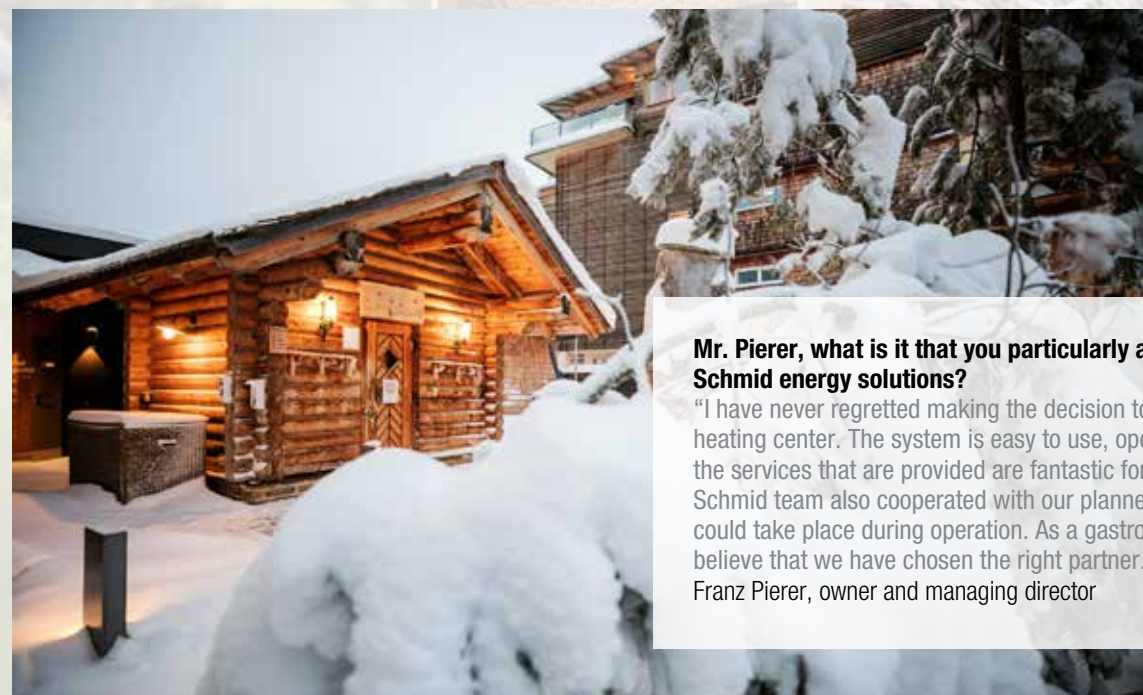
QUICK INFO

Product type	Moving grate furnace UTSR-450 and existing UTSR-240 which was manufactured in 1999
Controller	PersonalTouch visio
Fuel	Wood chips and forest management wood from the region
Output	2,354 MBtu 690 kW
Application area	Heat for hotels and heating of the pool and spa facilities
Discharge	Moving floor
Exhaust gas dedusting	Multi-cyclone
In operation since	March 2016
Client	Hotel Cyprianerhof
Installation location	Tiers, South Tyrol, Italy



Alpine fresh, unique and sustainable – a warm and relaxing location

Almwellness Hotel Pierer ****Superior / Fladnitz an der Teichalm, Austria



Mr. Pierer, what is it that you particularly appreciate about Schmid energy solutions?

"I have never regretted making the decision to use the Schmid heating center. The system is easy to use, operates reliably, and the services that are provided are fantastic for a hotel business. The Schmid team also cooperated with our planner so that construction could take place during operation. As a gastronomy business, we believe that we have chosen the right partner."

Franz Pierer, owner and managing director



With a great deal of innovative spirit and determination, and after 130 years and four generations, the small hiking hostel has become the Almwellness Hotel Pierer of today. The hotel provides its guests with an unforgettable holiday experience in unspoilt nature. The intention is to preserve this beautiful nature for future generations. This is the hotel family's motivation for continually investing in sustainability and optimizing their business accordingly.

Trend and tradition at a higher level

Having a connection to nature and a sustainable approach is important to the family business. The general focus on health and nature is currently the trend, and is confirmation of the family's personal philosophy. Natural and renewable raw materials, environmentally friendly energy resources and regional and seasonal cuisine are a matter of course for the Hotel Pierer.

Nature meets tasteful alpine design

In total, the hotel has 89 rooms and suites of varying sizes ranging from 322 to 968 ft² | 30 to 90 m², plus a spa area covering 53,819 ft² | 5,000 m². The furnishings are modern and mostly made from natural materials such as Rauris natural stone, Turin gneiss, black granite, spruce, larch and oak.



Co₂-neutral energy production

As well as all of the natural materials, sustainable energy is also a major issue. A wood chip heating system was put into operation by Schmid in April 2019. The Schmid UTSK-900 boiler heats the entire hotel, the pools and both employee houses with a total of 80 rooms. A solar power system provides electricity on sunny days.

Franz Pierer says: "If I could wish for one thing from Schmid, it would be that we could also generate electricity with the Schmid boiler."

QUICK INFO

Product type	Underfeed grate firing UTSK-900
Fuel	Forest wood chips
Output	3,070 MBtu 900 kW
Application area	Supplying heat to the hotel, wellness area and pool area
Discharge	2 x circular discharge
Silo	32 ft x 16.4 ft 10 m x 5 m with 2 circular discharges
Exhaust gas dedusting	Multi-cyclone
In operation since	April 2019
Client	Almwellness Hotel Pierer
Installation location	Fladnitz an der Teichalm, Austria
Project planning	Josef Göbel GmbH, Fladnitz, Austria
Installation	TB Bierbauer GmbH, Passail, Austria

Home away from home – AlpenGold Hotel Davos

AlpenGold Hotel Davos / Davos, Switzerland



Davos, Europe's highest city, is famous for its healing climate, the Spengler Cup, the World Economic Forum, the partying freestyle scene on the Jakobshorn and the distinctive "Golden Egg", the AlpenGold Hotel.

Several hundred meters away from the village, on the site of a former high-altitude clinic, the distinctive AlpenGold Hotel emerges from the rocks in a unique setting. The spectacular building above Lake Davos sets new standards for top-class Alpine hotels with its oval design and the striking exterior façade.

The impressive main building with its 216 rooms has 38 residences at the front. This represents a combination of the best of both worlds: The individual privacy of an apartment and the first-class service of a luxury hotel.

Graubünden wood for cozy guest comfort

As well as the exceptional architecture and the sophisticated design, special attention is paid to sustainability. The entire complex, including the indoor and outdoor pools, is heated ecologically using a wood chip heating system. A Schmid UTSR-700 moving grate furnace has been in use since September 2013, powered by forest wood chips from the region. With heating output of 2,388 MBtu | 700 kW, heat and hot water are provided for the floor area of more than 452,084 ft² | 42,000 m². In order to increase the efficiency, exhaust gas condensation has been installed to recover heat.

Experience from more than ten years of Schmid wood heating

Setting the parameters of the boiler was a challenge because of the quality of the fuel. The fuel is extremely moist due to chunks of ice. This challenge was overcome with the support of the Schmid team. Since then, the system has been operating perfectly and with optimum results. The high degree of reliability, the ease of operation for the owner/operator and the low maintenance costs speak in favor of the Schmid boiler, even after ten years.

"The quick response times to inquiries about troubleshooting, the detailed information about planned maintenance work and the precise adjustment of the setup for summer and winter operation of the system are greatly appreciated. These services ensure that thermal energy is provided for reliable hotel operations."

Mario Gubi, General Manager AlpenGold Davos



QUICK INFO

Product type	Moving grate furnace UTSR-700
Fuel	Forest wood chips
Output	2,388 MBtu 700 kW
Application area	Heating and hot water
Discharge	Moving floor
Silo	Net volume 16,174 ft³ 458 m³
Exhaust gas dedusting	Multi-cyclone and electrostatic precipitator
Heat recovery	IS SaveEnergy AG
In operation since	September 2013
Installation location	AlpenGold Hotel Davos, Davos, Switzerland



Big enough to provide room for your needs, but small enough to be looked after in an informal and personal way

Wiesengrund Resort / Bad Hindelang, Germany

The guests at the Hotel Wiesengrund in the Allgäu are pampered by thoroughbred restaurateurs. The small bed and breakfast hotel in the Allgäu has been expanded into today's jewel in the crown since 1982. It is nurtured and cared for with a great deal of enthusiasm. The hotel is run by the third generation of the Kullmann family, and the fourth is ready to take over with an equal amount of enthusiasm. The well-being of the guests is our priority, which is why the entire family and their team ensure that staying at the Wiesengrund is a personal experience.

The Hotel Wiesengrund is as unique as nature itself

60 beds, lovingly furnished rooms and the event barn with fabulous evening events ensure that you have a varied and entertaining stay. The à la carte restaurant, whose kitchen is run by older daughter Franziska, and the small family wellness area provide an all-round feel-good package.



"Love for our homeland – that is our motto. We live in paradise and life here is a little slower, more rustic and more traditional. We look forward to making our guests more familiar with our homeland." Franziska and Florian Schlipf-Kullmann

The entire hotel is ecologically and economically self-sufficient.

The hotel's energy concept is completely geared to sustainability

Alexander Kullmann was a pioneer. He achieved his target of a 100% CO₂-neutral energy supply long before today's political targets were set. The first wood chip heating system was installed 18 years ago. Since then, the hotel buildings, the academy, the location with the mobile home pitches and the neighboring outdoor swimming pool have been supplied with heat via a small 1,968 ft | 600 m long local heating network.

New wood chip heating installation in 2021

When the old boiler system was replaced, the focus was on having improved efficiency and a wider range of fuels. The existing premises were to provide room for the new Schmid boiler with the additional fine dust filter, and the bigger and more robust fuel discharge system. Some structural adjustments were also needed to store the regional fuel.

"We have never shied away from challenges, and also carry out a lot of the structural work ourselves", recalls Alexander Kullmann. "We had the right contact person in Schmid's German sales manager. He already knew our old wood chip heating system and also our motto: if it can't be done, it won't be done."

In collaboration with the Schmid team, a suitable installation concept was found. Schmid was also able to provide valuable support in applying for possible funding.

The new Schmid UTSR-550 visio boiler now replaces the equivalent of approx. 28,042 gallons | 106,000 liters of heating oil. The new buffer storage management provides significantly better annual utilization, reduces the amount of fuel and has lower exhaust emissions.

Wiesengrund also relies on nature to generate electricity. The canal that flows past the hotel is a diversion from the Ostrach which was already supplying several hammer mills more than 100 years ago. Around 300,000 kWh of electricity are generated annually with a water wheel and also with a turbine since 2009. This covers the hotel's need for around 180,000 kWh of electricity per year.



QUICK INFO

Product type	Moving grate furnace UTSR-550 visio
Control	PersonalTouch visio with remote access
Fuel	Wood chips
Fuel requirement	56,503 ft ³ 1600 m ³
Output	1,706 MBtu 500 kW
Application area	Heat for hotel buildings, spa areas and swimming pools
Discharge	Hydraulic moving floor
Silo	2,330 ft ³ 66 m ³
Exhaust gas dedusting	Multi-cyclone / electric filter
In operation since	November 2021
Heating oil savings	28,042 gallons 106,000 liters
Client	Wiesengrund Resort GmbH
Location	Bad Hindelang, Germany



Dolomites region “Three Peaks” – Holidays in the most beautiful scenery

Apparthotel Germania / Toblach, Italy

The traditional Apparthotel Germania in Toblach is beautifully embedded in the mountains of the Hochpustertal. The family-run apartment hotel provides modern comfort, a pleasant atmosphere and top class cuisine.

There has been an eventful history between the construction of what was then known as the Parkhotel Germania in 1890 and today with two World Wars and numerous renovations and extensions.

The Apparthotel Germania in numbers

The Apparthotel Germania has 27 hotel rooms, 39 comfortably furnished apartments and two owner's apartments covering a volume of almost 706,293 ft³ | 20,000 m³. In the 2,691 ft² | 250 m² sauna area with two whirlpools, each containing 92 gallons | 350 liters of fresh water, guests can relax in a beautiful mountain setting or enjoy a relaxing massage.

Pellet boiler from Schmid energy solutions

Since October 2018, the thermal energy required for this has been supplied by a Schmid boiler that runs on wood pellets. The annual pellet consumption amounts to 130 tonnes, which are delivered by five semi-trailers. The use of wood-fired heating was a no-brainer for the Trenker family because of its sustainability. They chose pellets because they find the fuel easier to handle than wood chips for the furnace. The family also appreciates the fact that less ash is produced, and the quality of the fuel is consistent. This means that the Schmid

boiler is very easy to maintain, is sustainable because of the fuel and is extremely efficient.

“We appreciate the marvelous cooperation and the unbeatable services. It is important for our business for everything to work perfectly so that we can look after our guests in a reliable way.”
Andreas Tenker, Apparthotel Germania owner

QUICK INFO

Product type	Underfeed grate firing UTSP-450
Control	PersonalTouch visio with remote aces
Fuel	Wood pellets
Fuel requirement	130 tonnes per annum
Output	1,535 MBtu 450 kW
Application area	Heat for hotel buildings, apartments and wellness areas
Discharge	Hydraulic moving floor
Silo	2,330 ft³ 66 m³
Exhaust gas dedusting	Multi-cyclone / electric filter
In operation since	October 2018
Heating oil savings	Approx. 21,164 gallons 80,000 liters
Client	Trenker family, Apparthotel Germania
Installation location	Toblach, Italy

Innovative technology for energy from biomass

Schmid AG energy solutions / Switzerland

Schmid energy solutions is a Swiss family business that has been developing sustainable boilers since 1936. The consistent customer orientation and the passion of our 450 or so employees make Schmid a technology leader and global player for renewable energy sources.

Customer proximity and services for sustainability

The energies from all over the world come together at the headquarters in Eschlikon TG. In addition to the other branches in Switzerland, Schmid energy solutions is represented with subsidiaries in Germany, Austria, France and Canada. We have been successfully operating our Polish production site since 2011.

Sales and service partners ensure that unique services are provided worldwide, and support the Schmid team with optimal and comprehensive advice.

Wide product range for all areas

The range of products from Schmid energy solutions is technologically at the cutting edge, and consists of wood burning systems for both local and district heating. Private households, agricultural businesses, heating networks, industrial companies and SMEs will find the right solution in this selection and be glad to let us accompany them with their project.

On the move as a team for our future

Some 450 employees design and shape the future-oriented corporate development of the Schmid Group. Together we look for the best solutions for protecting our environment, fulfill the needs of our customers and and partners and inspire them.

Buying a Schmid furnace is a matter of trust. Our advice and honesty ensure that the decision is successful, and that long-term energy is produced which is a pleasure to behold.

Round the clock services

In everyday use, services and maintenance ensure that the required reliability and value retention of the system is provided.

The perfection of our service team in maintenance and the reliable supply of spare parts complete the range of services which we can provide for your heating system.

Being a customer or partner of Schmid energy solutions is something special.



“We inspire by means of environmentally friendly energy solutions and sustainable services. This creates trust.”

Philipp Lüscher, CEO Schmid Group

Make an appointment now – we'll advise you full of energy.

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