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**Report on the type test of a Pellet burner in accordance with
DIN EN 15270:2008-03**

File no. / DBI F 10/03/0107

Test report no.

Test object Pellet burner DIN EN 15270

Type SPL35S

Version --

heat input 35 kW

Wood pellet burner for utilization in boilers for solid fuels. The appliance consists of a burner with igniter and a centrifugal fan. Furthermore the system consists of a fuel store box and a fuel supply system by screw and hose for gravity feeding. All fire exposed components are made of high temperature resistant steel. The appliance works with an electrical panel and programming system for completely automatic operation.

Client Termocabi S.r.l. Biomass Burners Technology
Via Borghisani 13
26035 Pieve San Giacomo (CR) Italy

Manufacturer Like Client

Scope of testing (Initial) type test in the context of the conformity assessment procedure and assessment of the appliance for compliance with the product requirements as per DIN EN 15270, Annex I.2

Test basis DIN EN 15270:2008-03

The essential product features in accordance with Annex I.2 to DIN EN 15270 for pellet burners were reviewed and were found to comply with the requirements.

Dipl.-Ing. Ronald Aßmann

Signature of director of laboratoy



Dipl.-Ing. (BA) Rico Eßbach

Signature of test engineer

Freiberg, 05.03.2010

Summary

Test period	14.04. – 23.04.2009	
Test location	Test laboratory Freiberg	
Client / Manufacturer	Termocabi S.r.l. Biomass Burners Technology Via Borghisani 13 26035 Pieve San Giacomo (CR) Italy	
Test object	Pellet burner fo small heating boilers, DIN EN 15270	
Conveyor type	Automatic	
Type designation	SPL35S	
Design, allowing for various versions	Body enclosure	Closed sheet-steel body with opening for combustion air, Connection/Mounting of the burner via bolted joint to a suitable heating boiler, Viewing window for optical control of combustion
	Type of burner	Multistage burner, Feeding the pellets from top (vertical) into the burner head
	Conveyor system	Via adjustable feed screw, From a fuel hopper over a tube (drop chute) into the burner head
	Ignition device	Electric glow plug in burner head, Ignites automatically
	Fuel hopper	External (separate from the burner)
	Ash discharge	Semi automatic, Automatic ash discharge from burner head via air pressure system, manual ash discharge from combustion chamber via opening the combustion chamber
Betriebsweise	Depending on ambient air conditions	
Fuel	Wood pellets	

1 Keydata of the burner¹⁾

Burner	Type: SPL35S Version: --			
Fuel	--	Wood pellets	--	--
Fuel throughput	kg/h	7,52	--	--
Heat input	kW	36,2	--	--
Heat output (indirect)	kW	33,4	--	--
CO emission based on 10% O ₂	mg/m ³	81,8	--	--
CO-emission – referred to fuel	mg/MJ	54,5	--	--
OGC-emission based on 10% O ₂	mg/m ³	0,49	--	--
OGC-emission – referred to fuel	mg/MJ	0,33	--	--
NO _x -emission based on 10% O ₂ (NO ₂)	mg/m ³	183,5	--	--
NO _x -emission – referred to fuel (NO ₂)	mg/MJ	122,3	--	--
Dust-emission based on 10% O ₂	mg/m ³	18,9	--	--
Dust-emission – referred to fuel	mg/MJ	12,6	--	--
Emission class acc. to DIN EN 15270	--	5	--	--
Efficiency (indirect)	%	92,3	--	--
Flue gas temperature	°C	151,1	--	--
Flue gas mass flow	g/s	18,5	--	--
Distance between burner and bottom	mm	670	--	--
Height of the combustion chamber	mm	500	--	--
Width of the combustion chamber	mm	334	--	--
Minimum clearance distances from exposed / combustibile materials:	from rear wall		--	mm
	from side walls		--	mm
	from floor		--	mm
	from ceiling		--	mm

¹⁾ All values refer to firing stage 5 of the burner

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For contestation the German version is essential.