



EVOTHERM

HEIZTECHNIK VERTRIEBS GMBH

WOOD PELLET HEATING SYSTEMS

2009

ECONOMICAL
ECOLOGICAL
EFFICIENT

WWW.EVOTHERM.AT

PRODUCT OVERVIEW – PELLET SYSTEMS

P 150/170/200 ECO H 136 CM / B 89 CM

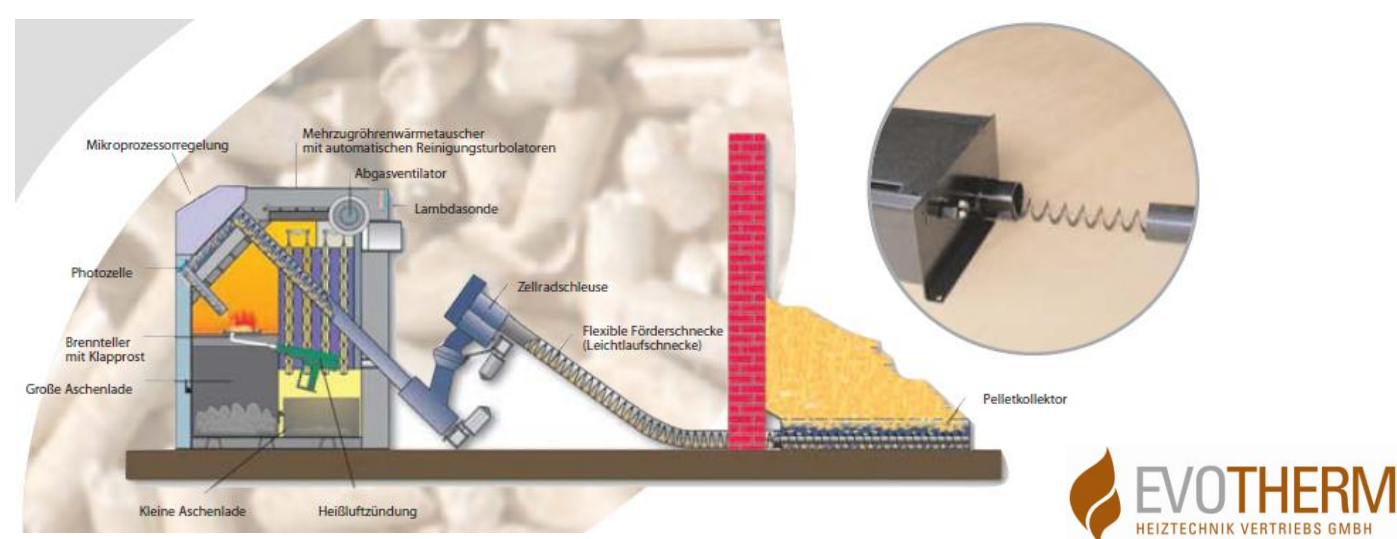
P 100/120 ECO H 177 CM / B 76 CM

P 50 ECO H 126 CM / B 70 CM

HP 14/20/28 H 105 CM / B 60 CM



DESCRIPTION		HP14/28	P50 ECO	P100 ECO	P150 ECO	P200 ECO
PERFORMANCE	KW	4-14/8-28	15-50	30-105	60-150	60-200
EFFICIENCY	%	94,9/91,5	96,2	95,2	94,4	93,6
WEIGHT	KG	184/220	400	1020	1150	1150
WATER CONTENT	L	24/38	55	150	224	224
FLUE TUBE DIAMETER	MM	130/150	180	200	250	250
CARBON MONOXYD FL/ PL	MG/N³	42/114	18 / 60	48/109	30/182	13/255
NITROGEN OXIDES FL/ PL	MG/N³	122/N.G.	111/ 93	109/94	111/87	113/81
TOTAL ORGANIC CARBON FL/ PL	MG/N³	1/3	1 / 2	1 / 1	0/5	0 / 9
DUST FL/ PL	MG/N³	6/N.G.	7 / 7	10 / 45	23/31	15 / 17



SAFETY & RELIABILITY

// OVERCHARGE PROTECTION
of gears through reversal of rotation direction

// TEMPERATURE CONTROL
of Stoker systems with temperature sensor on feeding system

// PCS – PRESSURE CONTROL SYSTEM
for high quality and secure combustion

// SECURE TEMPERATURE LIMITER
provides excess temperature

// FAST CONTROLLABILITY
due to less water content within heat exchanger

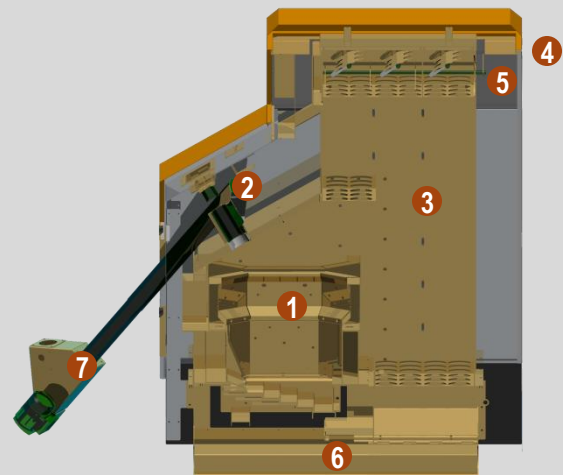
// FIREBED SENSOR
guarantees the right fill level and secure ignition

// LAMBDA SENSOR
controls the oxygen within the combustion chamber



CONSTRUCTION & TECHNIC P 100 ECO / P 200 ECO

- 1 Combustion chamber with step- grate (P 100 / P 200)
- 2 Primary- and secondary fans
- 3 3 flue heat exchanger with automatic cleaning system
- 4 Exhaust fan
- 5 Flue tube connection
- 6 Automatic ash removal auger into 200 l ton (P 100 / P 200)
- 7 Stoker (with rotary feeder)



PELLET HEATING SYSTEM HP 14/20/28

PELLET

EVOTHERM HP 14/20/28 – HIGHEST COMFORT WITH THE SMALLEST SYSTEM ON EARTH

The EVOTHERM HP 14 is not only the smallest pellet heating system, but also the leading heating system with an efficiency of 94,9 % within his performance class. Heat exchanger and combustion chamber are getting cleaned automatically before the system starts. Thereby a high reliability and high safety are warranted. The range of performance of this system is between 4 and 14 kW. The EVOTHERM HP 14 is the ideal system for a small or medium single- family house with high efficiency.

10 ADVANTAGES OF THE EVOTHERM HP 14/20/28:

- // EFFICIENCY UP TO 94,9 %
- // PATENTED COLLECTOR (COMPLETELY WITHOUT PRESSURE)
- // ELECTRICITY SAVINGS DUE TO DC- TECHNIC OF FEEDING SYSTEM
- // RESIDUAL OXYGEN CONTROL USING LAMBDA SENSOR
- // AUTOMATIC CLEANING WITH TURBOLATOR
- // TELECONTROL WITH MOBILE OR PC
- // SMALLEST SYSTEM OF ITS CLASS
(EVOTHERM COMPACT CONSTRUCTION)
- // LESS WATER CONTENT (24 l)
- // FAST CONTROLLABILITY (NO FIRE BRICKS, LESS WATER CONTENT)
- // ELIGIBLE BY FEDERATION AND FEDERAL LAND



HP 14/20/28 – FITS THROUGH EVERY BASEMENT DOOR



HP 14 – TECHNICAL FACTS

PERFORMANCE

Full load	14	kW
Top performance	16	kW
Part load	4	kW
Efficiency	94,9	%
Weight	184	kg
Water content	24	l
Ash removal	automatically	

HP 20 – TECHNICAL FACTS

PERFORMANCE

Full load	20	kW
Top performance	21	kW
Part load	8	kW
Efficiency	92,8	%
Weight	220	kg
Water content	38	l
Ash removal	automatically	

HP 28 – TECHNICAL FACTS

PERFORMANCE

Full load	28	kW
Top performance	28	kW
Part load	8	kW
Efficiency	91,0	%
Weight	220	kg
Water content	38	l
Ash removal	automatically	

PELLET HEATING SYSTEM P 50 ECO

PELLET

EVOTHERM P 50 ECO – THE ALLROUNDER FOR EVERYBODY

The EVOTHERM P 50 ECO is with its efficiency of 96,2 % the most efficient heating system on the market. It is also a very compact system because of the less water content of 55 liters as well as the weight of 400 kg. The program controlled, automatically cleaning procedure provides high reliability and high safety. Performance range of the system is between 15 and 50 kW.

10 ADVANTAGES OF THE EVOTHERM P 50 ECO:

- // EFFICIENCY UP TO 96,2 %
- // PATENTED COLLECTOR (COMPLETELY WITHOUT PRESSURE)
- // PRESSURE CONTROL SYSTEM (PCS)
- // RESIDUAL OXYGEN CONTROL USING LAMBDA SENSOR
- // AUTOMATIC CLEANING WITH TURBOLATOR
- // TELECONTROL WITH MOBILE OR PC
- // SMALLEST SYSTEM OF ITS CLASS
(EVOTHERM COMPACT CONSTRUCTION)
- // LESS WATER CONTENT (55 l)
- // FAST CONTROLLABILITY (NO FIRE BRICKS,
LESS WATER CONTENT)
- // ELIGIBLE BY FEDERATION AND FEDERAL LAND



P 50 ECO - FITS THROUGH EVERY BASEMENT DOOR



P 50 ECO – TECHNICAL FACTS

PERFORMANCE

Full load	50	kW
Top performance	55	kW
Part load	15	kW
Efficiency	96,2	%
Weight	400	kg
Water content	55	l
Ash removal	automatically	

PELLET HEATING SYSTEM P 100 ECO

PELLET

EVOTHERM P 100 ECO – LIVE WIRE FOR LARGE OPERATION

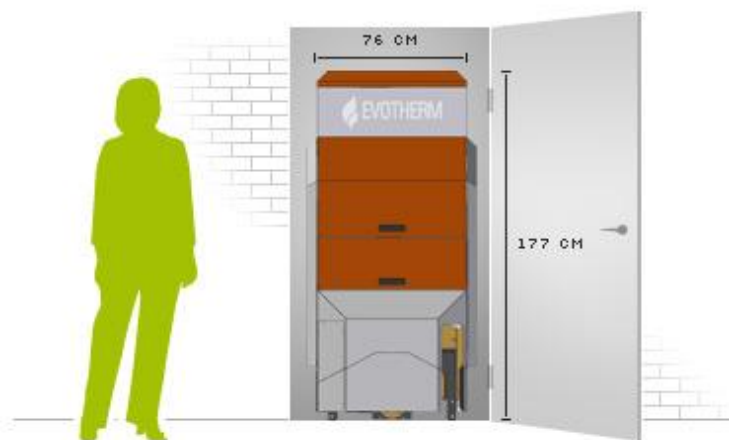
The EVOTHERM P 100 ECO is a live wire and ready for large operations. Common basement doors are no problems due to the EVOTHERM COMPACT CONSTRUCTION. THE EVOTHERM P 100 ECO is the unbeaten champion of its class with an efficiency of 95,2 %. The patented step-grate prevents the system of slagging within the combustion chamber and provides a multi-stage combustion of the pellets. The automatic cleaning system with an auger into a 200 liter ton is standardized. The performance range is between 30 and 105 kW.

10 ADVANTAGES OF THE EVOTHERM P 100 ECO:

- // EFFICIENCY UP TO 95,2 % BY PATENTED 3 FLUE HEAT EXCHANGER
- // PATENTED COLLECTOR (COMPLETELY WITHOUT PRESSURE)
- // PRESSURE CONTROL SYSTEM (PCS)
- // RESIDUAL OXYGEN CONTROL USING LAMBDA SENSOR
- // AUTOMATIC CLEANING WITH TURBOLATOR
- // TELECONTROL WITH MOBILE OR PC
- // SMALLEST SYSTEM OF ITS CLASS (EVOTHERM COMPACT CONSTRUCTION)
- // LESS WATER CONTENT (150 l)
- // FAST CONTROLLABILITY (NO FIRE BRICKS, LESS WATER CONTENT)
- // AUTOMATIC ASH REMOVAL SYSTEM WITH AUGER AND 200 LITER TON



P 100 ECO - FITS THROUGH EVERY BASEMENT DOOR



P 100 ECO – TECHNICAL FACTS

PERFORMANCE

Full load	100	kW
Top performance	105	kW
Part load	30	kW
Efficiency	95,2	%
Weight	1050	kg
Water content	150	l
Ash removal	automatically	

PELLET HEATING SYSTEM P 150 ECO

PELLET

EVOTHERM P 150 ECO – BEST PERFORMANCE FOR PUBLIC PROJECTS / COMPANIES

The EVOTHERM P 150 ECO is the market leading System for public projects, medium companies and district heating communities.. The systems fits through a common basement door due to the EVOTHERM COMPACT CONSTRUCTION. With an efficiency of 94,4 % the system is far ahead of all competitors. The patented step-grate prevents the system of slaggings within the combustion chamber and provides a multi-stage combustion of the pellets. The automatic cleaning system with an auger into a 200 liter ton is standardized. The performance range is between 60 and 205 kW.

10 ADVANTAGES OF THE EVOTHERM P 100 ECO:

- // EFFICIENCY UP TO 94,4 % BY PATENTED 3 FLUE HEAT EXCHANGER
- // PATENTED COLLECTOR (COMPLETELY WITHOUT PRESSURE)
- // PRESSURE CONTROL SYSTEM (PCS)
- // RESIDUAL OXYGEN CONTROL USING LAMBDA SENSOR
- // AUTOMATIC CLEANING WITH TURBOLATOR
- // TELECONTROL WITH MOBILE OR PC
- // SMALLEST SYSTEM OF ITS CLASS (EVOTHERM COMPACT CONSTRUCTION)
- // LESS WATER CONTENT (224l)
- // FAST CONTROLLABILITY (NO FIRE BRICKS, LESS WATER CONTENT)
- // AUTOMATIC ASH REMOVAL SYSTEM WITH AUGER AND 200 LITER TON



P 150 ECO - FITS THROUGH EVERY BASEMENT DOOR



P 150 ECO – TECHNICAL FACTS

PERFORMANCE

Full load	150	kW
Top performance	155	kW
Part load	60	kW
Efficiency	94,4	%
Weight	1150	kg
Water content	224	l
Ash removal	automatically	

PELLET HEATING SYSTEM P 200 ECO

PELLET

EVOTHERM P 200 ECO – PURE PERFORMANCE FOR MAJOR PROJECTS

The EVOTHERM P 200 ECO is the market leading System for major projects. The systems fits through a common basement door due to the EVOTHERM COMPACT CONSTRUCTION. With an efficiency of 93,6 % the system is far ahead of all competitors. The patented step-grate prevents the system of slaggings within the combustion chamber and provides a multi-stage combustion of the pellets. The automatic cleaning system with an auger into a 200 liter ton is standardized. The performance range is between 60 and 205 kW.

10 ADVANTAGES OF THE EVOTHERM P 100 ECO:

- // EFFICIENCY UP TO 93,6 % BY PATENTED 3 FLUE HEAT EXCHANGER
- // PATENTED COLLECTOR (COMPLETELY WITHOUT PRESSURE)
- // PRESSURE CONTROL SYSTEM (PCS)
- // RESIDUAL OXYGEN CONTROL USING LAMBDA SENSOR
- // AUTOMATIC CLEANING WITH TURBOLATOR
- // TELECONTROL WITH MOBILE OR PC
- // SMALLEST SYSTEM OF ITS CLASS (EVOTHERM COMPACT CONSTRUCTION)
- // LESS WATER CONTENT (224l)
- // FAST CONTROLLABILITY (NO FIRE BRICKS, LESS WATER CONTENT)
- // AUTOMATIC ASH REMOVAL SYSTEM WITH AUGER AND 200 LITER TON



P 200 ECO - FITS THROUGH EVERY BASEMENT DOOR



P 200 ECO – TECHNICAL FACTS

PERFORMANCE

Full load	200	kW
Top performance	205	kW
Part load	60	kW
Efficiency	93,6	%
Weight	1150	kg
Water content	224	l
Ash removal	automatically	



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