



KWB

Energy. Thought further.

Pellet & combi-heating systems 8–38 kW

Technology & Planning 2026

KWB Easyfire 1 type EF1

Pellet heating system 10–20kW

Versions: Manual filling, suction conveyor system

KWB combustion system:

- Underfeed retort system with automatic ignition
- Combustion air fan
- Backfire protector (fire shutter closing automatically)

Suitable for the burning of wood pellets Ø 6 mm (or Ø 8 mm with selected conveyor systems) in accordance with ISO 17225-2 class A1.

KWB heat exchanger:

- Semi-automatic heat exchanger cleaning for KWB Easyfire 1 with storage container or fully automatic heat exchanger cleaning for KWB Easyfire 1 Plus with suction conveyor system
- Induced draught fan
- Ash tray

Storage container: Capacity: 228 litres in KWB Easyfire 1, usable volume for KWB Easyfire 1 Plus: 15 litres; fuel supply only from the left.

KWB Comfort 3 control comprising:

- Control unit incl. buffer storage tank and domestic hot water management, expandable with internal or external heating circuit control



KWB Easyfire EF1 for manual filling



KWB Combifire type CF2

Combi-heating for log wood and pellet 18–38kW

Models for pellet use: Manual filling, screw and suction conveyor system

- Modular, 3x divided boiler body, including insulation
- Stable powder-coated system casing incl. insulation for minimal radiation and standby loss
- 185l fill room – the largest of its class (upon request also available with 150l fill room)
- Broadband lambda probe for accurate residual oxygen measuring

KWB heat exchanger: upright tubular heat exchanger with fully automatic heat exchanger cleaning, consisting of:

- Screw turbulators
- speed-regulated induced draught fan for modulating power adjustment

Suitable for the burning of log wood with a max. length of 55 cm (L50, D15 according to ISO 17225-5), moisture content of between 15% and 25% (stored in a dry place), filling transversely is possible with 1/3m wood logs (at 185 l fill room)

Optional: fully automatic ignition (1.000W)

Optional: quick-charge valve for intelligent buffer charging for a quicker heat provision.

Pellet module for conveyor screw system connection with KWB combustions system:

- Cast underfeed burner with stainless steel burner plate and KWB EasyFlex (automatic burner plate cleaning)
- Fully automatic ignition by means of a ceramic igniter element and thermal element
- Combustion air fan
- Automatic ash removal into an ash container available in a convenient design
- Burnback protector: cellular wheel sluice with seven transport chambers.
- Storage container incl. suction turbine
- The pellet module can only be installed on the left.

Suitable for wood pellets Ø 6 mm (or Ø 8 mm with storage container) in accordance with ISO 17225-2 class A1.

KWB Comfort 4 control comprising:

- Exclusive control unit incl. buffer storage tank and domestic hot water management, expandable with internal or external heating circuit control

IMPORTANT! A sufficiently large buffer storage tank is absolutely required.

Utilisable minimum buffer storage tank volume of 1.800 l; recommended utilisable buffer storage tank volume of 2.500 l.



KWB Combifire CF2 for screw conveyor system



KWB Easyfire type EF2

Pellet heating system 8–38kW
 Versions: Manual filling, screw and suction conveyor system



KWB Easyfire EF2
 for screw conveyor system



KWB combustion system:

- Cast underfeed burner with stainless steel burner plate and KWB EasyFlex (automatic burner plate cleaning)
- Fully automatic ignition by means of a ceramic igniter element and thermal element
- Combustion air fan
- Automatic ash removal into an ash container
- Burnback protector: cellular wheel sluice with seven transport chambers.
- Broadband lambda probe for accurate residual oxygen measuring

Suitable for the burning of wood pellets Ø 6 mm (or Ø 8 mm with selected conveyor systems) in accordance with ISO 17225-2 class A1.

KWB heat exchanger:

- Upright tubular heat exchanger with fully automatic heat exchanger cleaning
- Induced draught fan
- Integrated return flow temperature boost with variable volume flow (incl. two-way valve with servomotor). Alternatively, externally with a PWM pump.

Storage container (in suction operation) including suction turbine, fuel supply exclusively from the left.

Optional: ambient air-independent operation possible.

KWB Comfort 4 control comprising:

- Exclusive control unit
- Buffer storage tank and domestic hot water management,
- Expandable with heating circuit control internal or external

CLEAN 2.0
 EFFICIENCY

KWB's modular and easily transportable system

All KWB heating systems listed on this double page can be dismantled into several modules, which allows our products to be placed in almost every heating room and easily installed even in tight spaces. The KWB Easyfire types EF2 are delivered in individual modules.



Notes

A large grid of small dots, intended for taking notes. The grid consists of approximately 30 columns and 40 rows of dots, providing a structured space for writing.



KWB
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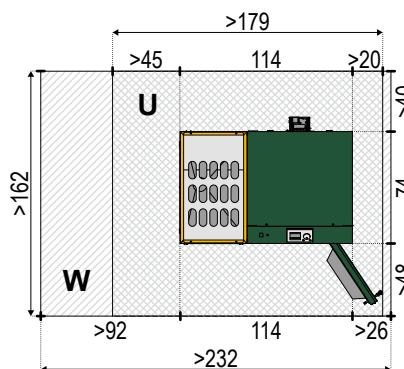
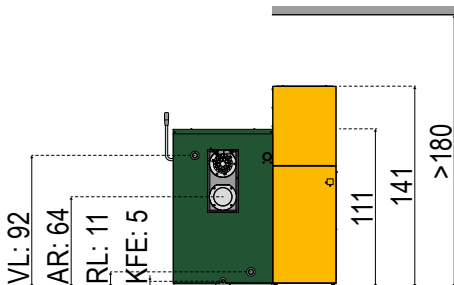
Technology & Planning

Pellet & combi-heating systems
8–38 kW

KWB Easyfire 1

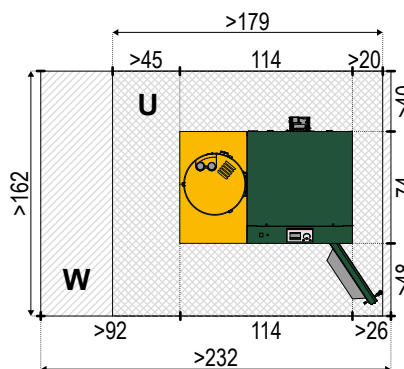
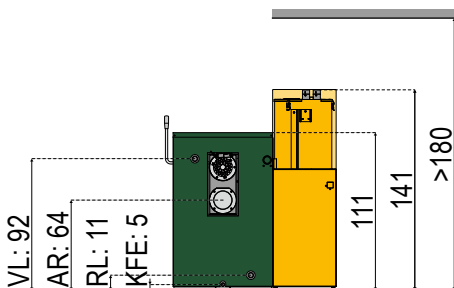
Installation and connecting dimensions

KWB Easyfire 1



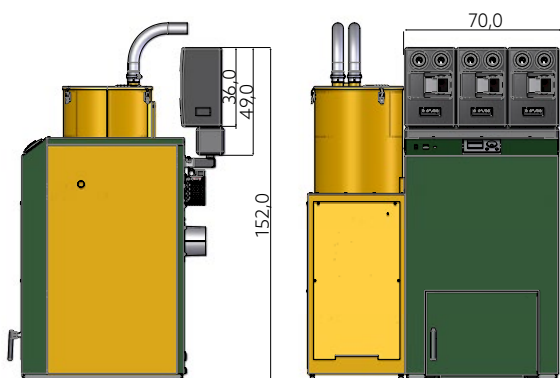
Reference values: Heating room from 2,9 m², storage room 0 m³

KWB Easyfire 1 Plus



Reference values: Heating room size from 2,9 m²

Dimensions for the KWB Easyfire 1 hydraulics package



Legend

- AR Exhaust pipe Ø 130 mm
- KFE Filling and emptying 1/2"
- RL Connection return flow 1"
- U Minimum space requirements
- VL Connection forward flow 1"
- W Recommended space requirements incl. sufficient room to perform maintenance

* Recommended room height: 200 cm. In the event of a room with a low ceiling (1,80 m), we provide 90° bends for the suction connections. The respective specifications must be provided when submitting the order. Scale 1:50 | All dimensions in cm | Width x Height | Distances stated are minimum distances!

Dimensions for boiler transport and placement

KWB Easyfire 1	Delivery condition	Without casing, dismantled
Unobstructed entry opening	80/145	75/75

KWB Easyfire 1

Technical data

USP V/GS	Unit	10	15 ***	20
Rated power	kW	10,4	15,0	20,0
Partial load	kW	3,1	4,5	5,6
Boiler efficiency at rated power	%	91,0	91,7	92,5
Boiler efficiency at partial load	%	90,7	90,4	90,1
Fuel thermal output at rated load	kW	11,4	16,4	21,6
Fuel thermal output at partial load	kW	3,4	5,0	6,2
Boiler class according to EN 303-5:2012	-		5	
EU Energylabel	-		A+	
Water side				
Water content	l		66	
Water connection, forward/return flow (internal thread)	inch		1	
Water connection for filling and/or emptying (internal thread)	inch		1/2	
Water-side resistance at 10 K	mbar	4,2	10	15,8
Water-side resistance at 20 K	mbar	1	2,6	4,2
Boiler-entry temperature (for installation of an external return-flow boost device)	°C		50	
Working temperature/operating temperature	°C		60-80	
Maximum permitted temperature	°C		110	
Maximum operating pressure	bar		3,5	
Exhaust-gas side (for chimney calculation)				
Combustion chamber temperature	°C		900-1100	
Required draft at rated power/partial load	mbar		0,07 0,05	
Suction available	-		✓	
Exhaust-gas temperature at rated power	°C	140	160	160
Exhaust-gas temp. Partial load	°C	90	100	100
Exhaust-gas mass flow at rated power	kg/s	0,006	0,009	0,012
Exhaust-gas mass flow at partial load	kg/s	0,003	0,004	0,004
Exhaust-gas volume at rated power	Nm ³ /h	17,0	25,5	34,0
Exhaust-gas volume at partial load	Nm ³ /h	8,7	10,4	12,0
Exhaust-gas connection height boiler side	mm		635	
Exhaust-gas pipe diameter	mm		130	
Incline of the smoke-pipe	°		≥ 3	
Chimney diameter (approx. values)	mm		140	
Chimney design: Moisture-resistant	-		✓	
Electrical system				
Connection	-		230V, 1~ 50Hz, C13 A	
Connected power USP V	W		545	
Connected power USP GS	W		2347	
Ash				
Ash container volume	l		25	
Ash container filled	kg		~ 25	
Weights				
Boiler body	kg		196	
Boiler weight USP V	kg		323	
Boiler weight USP GS	kg		349	
Noise emissions				
Normal operating noise at rated power	dB(A)		< 70	
Storage container type USP V				
Contents storage container for type USP V	l		228	
Suction conveyor type USP GS				
Max. suction length	m		10	
Max. suction length	m		4	
Max. suction head	m		3,5	
Contents storage container for type USP GS	l		15	

*** ... Drawing inspection, values for intermediate sizes interpolated

Conversion: 1 mbar = 100 Pa

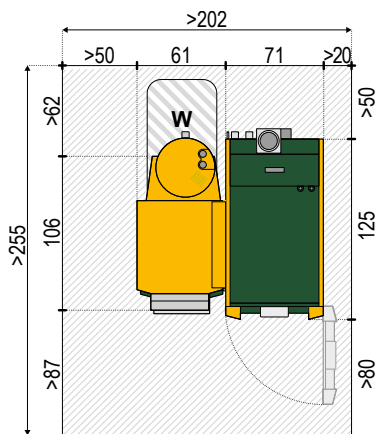
FJ-BLT ... Franciso Josephinum Wieselburg – Biomass Logistic Technology

mg/Nm³ ... Milligram per standard cubic meter (1 Nm³ under 1.013 hectopascal at 0 °C)

KWB Combifire

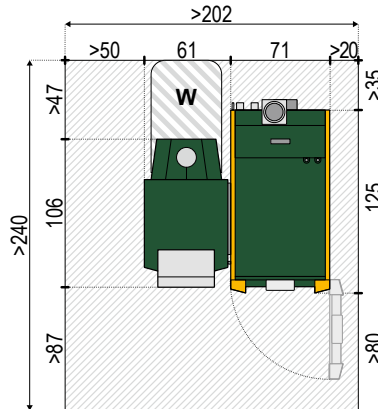
Installation and connecting dimensions

KWB Combifire with suction conveyor



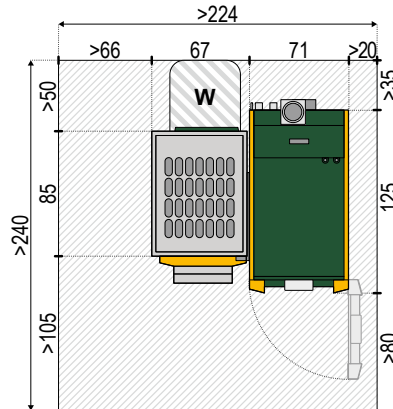
Reference value:
Heating room size approx. 5,2m²

KWB Combifire with elbow screw

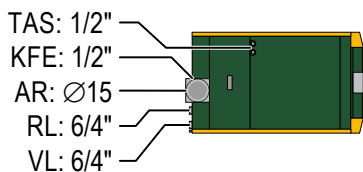
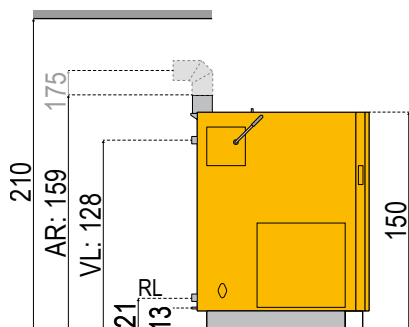


Reference value:
Heating room size approx. 4,8m²

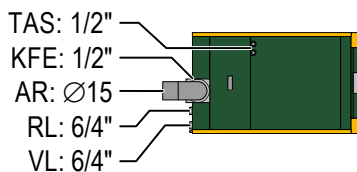
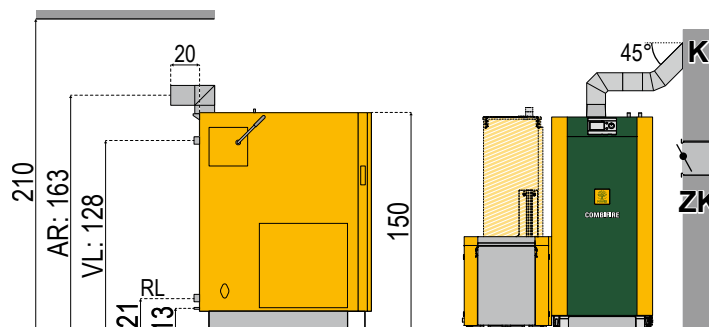
KWB Combifire with storage container



KWB Combifire standard version



KWB Combifire with exhaust pipe connection 90° to the rear



Legend

AR Exhaust pipe Ø 150 mm (bend 90° optionally available)	TAS Thermal discharge safety valve feed and discharge 1/2"
KFE Filling and emptying 1/2"	VL Connection forward flow 6/4"
W Space requirements for the pellet burner including clearance for maintenance	K Chimney
RL Connection return flow 6/4"	ZK Energy-saving damper with explosion door

All dimensions in cm | Width x Height | Distances stated are minimum!

Dimensions for boiler transport and placement

KWB Combifire	Delivery condition	Without casing, dismantled	With casing and cleaning lever
Unobstructed entry opening	75/160	75/100	80/160

KWB Combifire

Technical data

CF1.5 CF2 28.11.2025	Unit	CF1.5 18	CF1.5 28	CF1.5 32	CF1.5 38	CF2 18	CF2 28	CF2 32	CF2 38
		Log wood/Pellet	Log wood/Pellet	Log wood/Pellet	Log wood/Pellet	Log wood/Pellet	Log wood/Pellet	Log wood/Pellet	Log wood/Pellet
Rated power	kW	18,0/22,0	28,0/28,0	32,0/32,00	38,0/35,0	18,0/22,0	28,0/28,0	32,0/32,0	38,0/35,0
Partial load	kW	- /6,6	14,0/8,4	14,0/9,6	14,0/10,5	- /6,6	14,0/8,4	14,0/9,6	14,0/10,5
Boiler efficiency at rated power	%	93,9/93,9	92,5/93,9	91,9/93,9	91,3/93,9	93,9/93,9	92,5/93,9	91,9/93,9	91,3/93,9
Boiler efficiency at partial load	%	- /93,3	92,0/93,1	92,0/93,0	92,0/92,9	- /93,3	92,0/93,1	92,0/93,0	92,0/92,9
Fuel thermal output at rated power	kW	19,2/23,4	30,3/29,8	34,8/34,1	41,6/37,3	19,2/23,4	30,3/29,8	34,8/34,1	41,6/37,3
Fuel thermal output at partial load	kW	- /7,1	15,2/9,0	15,2/10,3	15,2/11,3	- /7,1	15,2/9,0	15,2/10,3	15,2/11,3
Full load burn-off period	h	10/-	6,2/-	5,9/-	5,8/-	12,2/-	7,6/-	7,3/-	6,6/-
Boiler class according to EN 303-5:2012	-	5	5	5	5	5	5	5	5
Flue gas loss at rated power	%	3,2/3,5	5,1/3,7	5,9/3,9	6,7/4,0	3,2/3,5	5,1/3,7	5,9/3,9	6,7/4,0
Flue gas loss at partial load	%	- /2,1	3,3/2,2	3,3/2,3	3,3/2,3	- /2,1	3,3/2,2	3,3/2,3	3,3/2,3
Radiation loss, rated power	%	2,0/2,0	1,7/1,8	1,5/1,6	1,4/1,5	2,0/2,0	1,7/1,8	1,5/1,6	1,4/1,5
Radiation loss, partial load	%	- /4,1	3,1/4,2	3,5/4,3	3,9/4,3	- /4,1	3,1/4,2	3,5/4,3	3,9/4,3
EU Energylabel	-	A+	A+	A+	A+	A+	A+	A+	A+
Water side									
Water content	l	141/168	141/168	141/168	141/168	141/168	141/168	141/168	141/168
Water connection, forward/return flow (internal thread)	inch	6/4	6/4	6/4	6/4	6/4	6/4	6/4	6/4
Water connection for filling and/or emptying (internal thread)	inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Thermal safety valve: pressure	bar	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4
Water connection for thermal safety valve (internal thread)	inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Water-side resistance at 20 K	mbar	13,5	13,5	13,5	13,5	13,5	13,5	13,5	13,5
Boiler-entry temperature	°C	55/-	55/-	55/-	55/-	55/-	55/-	55/-	55/-
Working temperature/operating temperature	°C	80	80	80	80	80	80	80	80
Maximum permitted temperature	°C	110	110	110	110	110	110	110	110
Maximum operating pressure	bar	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5
Buffer tank required	-	✓	✓	✓	✓	✓	✓	✓	✓
Minimum usable buffer tank volume	l	1500	1500	1500	1500	1800	1800	1800	1800
Recommended usable buffer tank volume	l	1800	1800	1800	1800	2500	2500	2500	2500
Exhaust-gas side (data for chimney design)									
Combustion chamber temperature	°C	900-1100	900-1100	900-1100	900-1100	900-1100	900-1100	900-1100	900-1100
Combustion chamber pressure (unregulated)	mbar	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0
Required draft at rated power/partial load	mbar	0,08 0,05	0,08 0,05	0,08 0,05	0,08 0,05	0,08 0,05	0,08 0,05	0,08 0,05	0,08 0,05
Induced draught required	-	✓	✓	✓	✓	✓	✓	✓	✓
Exhaust-gas temperature at rated power	°C	160/140	160/140	160/140	160/140	160/140	160/140	160/140	160/140
Exhaust-gas temperature at partial load	°C	- /80	100/80	100/80	100/80	- /80	100/80	100/80	100/80
Exhaust-gas mass flow at rated power	kg/s	0,023	0,023	0,023	0,023	0,023	0,023	0,023	0,023
Exhaust-gas mass flow at partial load	kg/s	0,011	0,011	0,011	0,011	0,011	0,011	0,011	0,011
Exhaust-gas volume at rated power	Nm ³ /h	54	54	54	54	54	54	54	54
Exhaust-gas volume at partial load	Nm ³ /h	27	27	27	27	27	27	27	27
Chimney connection height	mm	1590	1590	1590	1590	1590	1590	1590	1590
Exhaust-gas connection diameter	mm	150	150	150	150	150	150	150	150
Incline of the Exhaust-gas pipe	°	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3
Chimney diameter (minimum)	mm	150	150	150	150	150	150	150	150
Chimney design: moisture-resistant	-	✓	✓	✓	✓	✓	✓	✓	✓
Fill chamber									
Fill chamber volume	l	160,8	160,8	160,8	160,8	183,8	183,8	183,8	183,8
Width of fill doors	mm	440	440	440	440	440	440	440	440
Height of fill doors	mm	364	364	364	364	364	364	364	364
Electrical system									
Connection	-	230V, 1-50Hz, C13 A	230V, 1-50Hz, C13 A	230V, 1-50Hz, C13 A	230V, 1-50Hz, C13 A	230V, 1-50Hz, C13 A	230V, 1-50Hz, C13 A	230V, 1-50Hz, C13 A	230V, 1-50Hz, C13 A
Unit switch and main switch: present	-	✓	✓	✓	✓	✓	✓	✓	✓
Connected power boiler (minimum)	W	151/502	151/502	151/502	151/502	151/502	151/502	151/502	151/502
Connected power boiler (maximum)	W	1288/1639	1288/1639	1288/1639	1288/1639	1288/1639	1288/1639	1288/1639	1288/1639
Weights									
Heat exchanger	kg	108	108	108	108	108	108	108	108
Burning chamber module	kg	273	273	273	273	273	273	273	273
Fill chamber module	kg	224	224	224	224	221	221	221	221
KWB pellet module	kg	130	130	130	130	130	130	130	130
Total weight (without/with pellet module)	kg	722/855	722/855	722/855	722/855	719/852	719/852	719/852	719/852
Noise emissions (EN 15036-1)									
Normal operating noise at rated power	dB(A)	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70

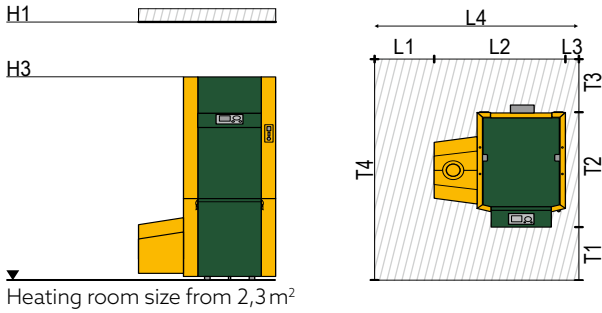
mg/Nm³ ... Milligram per standard cubic meter (1 Nm³ under 1.013 hectopascal at 0 °C)

** ... The water-side resistance is specified and determined in each case on the boiler interface (flange RF/FF)

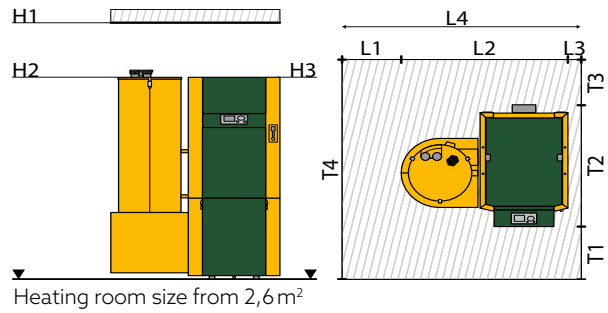
KWB Easyfire 2

Installation and connecting dimensions

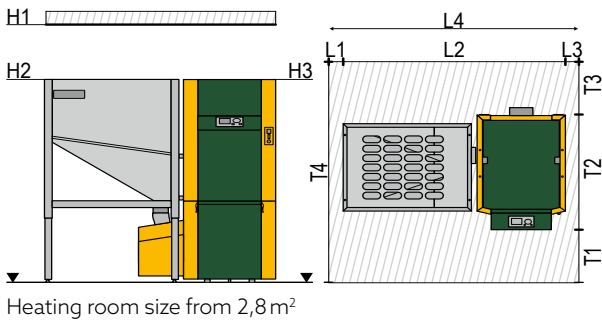
Type EF2 S



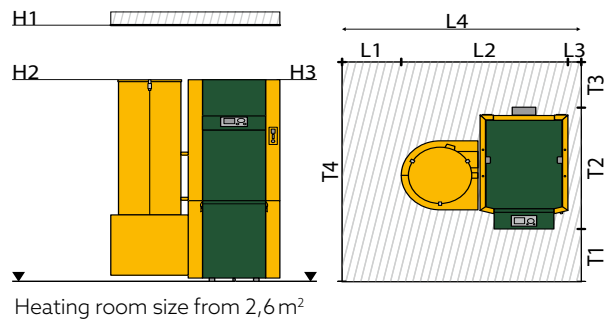
Type EF2 GS



Type EF2 S+300

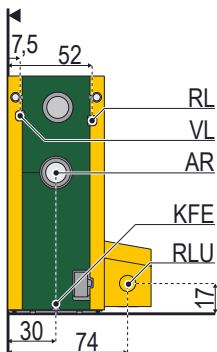


Type EF2 V



Position in drawing	EF2 8 - 12 kW				EF2 15 - 22 kW				EF2 25 - 38 kW			
	S	GS	V	S+300	S	GS	V	S+300	S	GS	V	S+300
H1	165	165	165	165	195	195	195	195	230	230	230	230
H2	-	126	146	146	-	146	146	146	-	164	146	146
H3	126	126	126	126	146	146	146	146	164	164	164	164
L1	40	40	40	10	40	40	40	10	40	40	40	10
L2	88	106	106	148	88	106	106	148	88	106	106	148
L3	10	10	10	10	10	10	10	10	10	10	10	10
L4	>138	>156	>156	>168	>138	>156	>156	>168	>138	>156	>156	>168
T1	40	40	40	40	40	40	40	40	40	40	40	40
T2	87	87	87	87	87	87	87	87	87	87	87	87
T3	40	40	40	40	40	40	40	40	40	40	40	40
T4	>167	>167	>167	>167	>167	>167	>167	>167	>167	>167	>167	>167

S KWB Easyfire type EF2 S: Screw conveyor system
 GS KWB Easyfire type EF2 GS: Suction conveyor system
 V KWB Easyfire type EF2 V: 107-litre storage container
 S+300 KWB Easyfire type EF2 S with storage container 300 litres

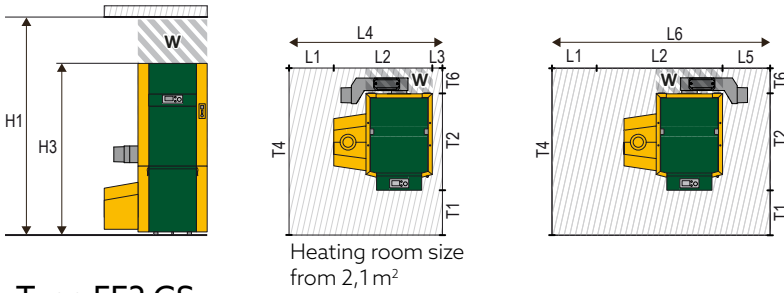


	EF2 8 - 12 kW	EF2 15 - 22 kW	EF2 25 - 38 kW
VL	Female thread 1", H = 101cm	Female thread 1", Height = 121cm	Female thread 5/4", Height = 137cm
RL	Ø 25, G 1", H = 100cm	Ø 25, G 1", H = 118cm	Ø 32, G 5/4", H = 126cm
AR	Ø 13cm, H = 75cm	Ø 13cm, H = 86cm	Ø 15cm, H = 105cm
KFE	Female thread 1/2", H = 6 cm		
RLU	Connection for ambient air-independent operation (optional)		
	Connector set with distributor, H=boiler height + 14 cm		
	Connector set with heating circuit group, H=boiler height + 41 cm		
	Connector set with buffer charging group, H=boiler height + 51 cm		
	Connector set with distributor and heating circuit group, H=boiler height + 55cm		

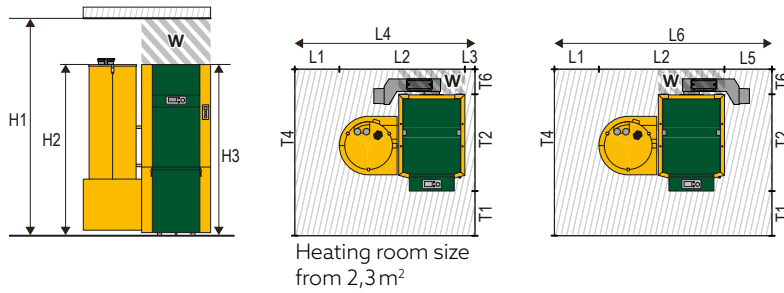
KWB Easyfire 2

Installation and connecting dimensions - Exhaust duct compact

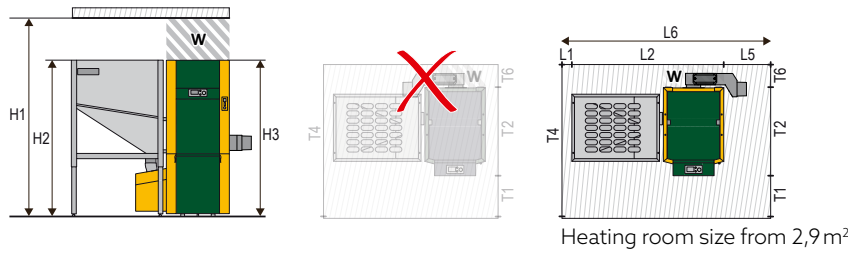
Type EF2 S



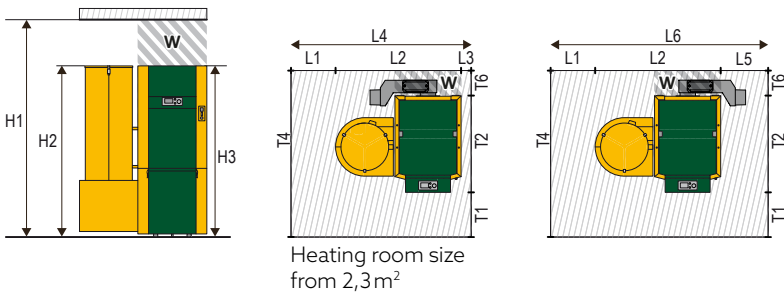
Type EF2 GS



Type EF2 S+300



Type EF2 V



Position in drawing	EF2 8 - 12 kW				EF2 15 - 22 kW				EF2 25 - 38 kW			
	S	GS	V	S+300	S	GS	V	S+300	S	GS	V	S+300
H1	165	165	165	165	195	195	195	195	230	230	230	230
H2	-	126	146	146	-	146	146	146	-	164	146	146
H3	126	126	126	126	146	146	146	146	164	164	164	164
L1	40	40	40	10	40	40	40	10	40	40	40	10
L2	88	106	106	148	88	106	106	148	88	106	106	148
L3	10	10	10	10	10	10	10	10	10	10	10	10
L4	>138	>156	>156	>168	>138	>156	>156	>168	>138	>156	>156	>168
L5	>40	>40	>40	>40	>40	>40	>40	>40	>40	>40	>40	>40
L6	>168	>186	>186	>198	>168	>186	>186	>198	>168	>186	>186	>198
T1	40	40	40	40	40	40	40	40	40	40	40	40
T2	87	87	87	87	87	87	87	87	87	87	87	87
T3	40	40	40	40	40	40	40	40	40	40	40	40
T4	>147	>147	>147	>147	>147	>147	>147	>147	>147	>147	>147	>147
T6	>20	>20	>20	>20	>20	>20	>20	>20	>20	>20	>20	>20

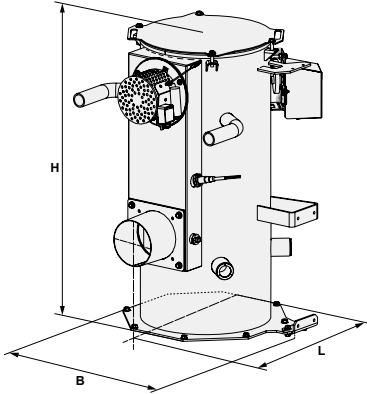
S KWB Easyfire type EF2 S: Screw conveyor system
 GS KWB Easyfire type EF2 GS: Suction conveyor system

V KWB Easyfire type EF2 V: 107-litre storage container
 S+300 KWB Easyfire type EF2 S with storage container 300 litres

KWB Easyfire 2

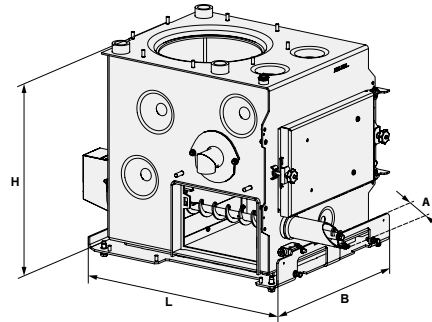
Installation and connecting dimensions

Divided boiler with individual weights



Legend

	H	B	L	Weight (kg)
8 - 12 kW	600		534	85
15 - 22 kW	800	553	534	104
25 - 38 kW	985		570	148



Legend

	H	B	L	A	Weight (kg)
8 - 12 kW					
15 - 22 kW	606	589	641	155	144*
25 - 38 kW					

* For easier installation (weight reduction), the dust separator (6.7 kg) and post-combustion ring (10.7 kg) can be removed.
 All dimensions in mm | Length x Width x Height | Distances stated are minimum distances!

KWB Easyfire 2

Technical data

EF2 S / EF2 GS / EF2 V	Unit	8	12	15	22	25	30	35	38
Rated power	kW	8,0	12,0	15,0	22,0	25,0	30,0	34,9	38
Partial load	kW	2,4	3,6	4,5	6,6	7,5	9,0	10,5	11,4
Boiler efficiency at rated power	%	92,4	93,6	93,9	94,6	94,8	95,2	95,6	95,3
Boiler efficiency at partial load	%	91,4	90,7	91,6	93,8	93,9	94,1	94,3	94,9
Fuel thermal output at rated load	kW	8,7	12,8	16,0	23,3	26,4	31,5	36,5	39,9
Fuel thermal output at partial load	kW	2,6	4,0	4,9	7,0	8,0	9,6	11,1	12,0
Boiler class according to EN 303-5:2012	–					5			
EU Energy Label	–					A+			
Water side									
Water content	l	40	40	52	52	78	78	78	78
Water connection, forward/return flow (internal thread)	inch	1	1	1	1	5/4	5/4	5/4	5/4
Water connection for filling and/or emptying(internal thread)	inch					1/2			
Thermal safety valve: no	–					x			
Water-side resistance at 10 K	mbar	5,7	12	34	56	39	52	66	66
Water-side resistance at 20 K	mbar	1,7	3,5	9,5	15,4	10,8	14	18	18
Boiler-entry temperature (for installation of the KWB-supplied two-way valve with servomotor)	°C					10–70			
Boiler-entry temperature (for installation of an external return-flow boost device)	°C					40–70			
Working temperature/operating temperature	°C					80			
Maximum permitted temperature	°C					110			
Maximum operating pressure	bar					3,5			
Minimum usable buffer tank volume	l	500	500	500	800	800	800	1000	1000
Exhaust-gas side (for chimney calculation)									
Combustion chamber temperature	°C					900–1100			
Combustion chamber pressure	mbar					-0,20			
Required draft at rated power/partial load	mbar					0,05 0,03			
Suction available	–					✓			
Exhaust-gas temperature at rated power	°C					120,0			
Exhaust-gas temp. Partial load	°C					90,0			
Exhaust-gas mass flow at rated power	kg/s	0,006	0,009	0,011	0,016	0,018	0,022	0,026	0,028
Exhaust-gas mass flow at partial load	kg/s	0,002	0,003	0,004	0,005	0,006	0,007	0,008	0,008
Exhaust-gas volume at rated power	Nm ³ /h	16,5	24,9	31,1	45,2	51,3	61,4	71,2	77,3
Exhaust-gas volume at partial load	Nm ³ /h	5,3	7,9	9,8	14,1	15,9	18,7	21,5	23,3
Exhaust-gas connection height boiler side	mm	750	750	860	860	1050	1050	1050	1050
Exhaust-gas pipe diameter	mm	130	130	130	130	150	150	150	150
Incline of the smoke-pipe	°					≥ 3			
Chimney diameter (approx. values)	mm	140	140	140	140	160	160	160	160
Electrical system									
Connection	–					230V, 1~ 50Hz, C13 A			
Connected power EF2 V	W	559	559	559	559	577	577	577	577
Connected power EF2 S	W	609	609	609	609	627	627	627	627
Connected power EF2 GS	W	2189	2189	2189	2189	2207	2207	2207	2207
Connected power EF2 GS with sample probes	W	2444	2444	2444	2444	2462	2462	2462	2462
Ash									
Ash container volume	l					28			
Ash container filled	kg					27			
Ash removal system	–					✓			
Weights									
Boiler weight EF2 V	kg	341	341	370	370	416	416	416	416
Boiler weight EF2 S	kg	326	326	352	352	394	394	394	394
Boiler weight EF2 GS	kg	349	349	378	378	424	424	424	424
Noise emissions									
Normal operating noise at rated power	dB(A)					< 70			
Storage container									
Contents storage container for type EF2 V	l					107			
Contents storage container for type EF2 S + 300	l					300			
Suction conveyor type EF2 GS									
Max. suction length	m					25			
Max. suction head	m					5			
Contents storage container for type EF2 GS	l	42	42	67	67	90	90	90	90

*** ... Drawing inspection, values for intermediate sizes interpolated

Conversion: 1 mbar = 100 Pa

FJ-BLT ... Franciso Josephinum Wieselburg - Biomass Logistic Technology

mg/Nm³ ... Milligram per standard cubic meter (1 Nm³ under 1.013 hectopascal at 0 °C)

KWB conveyor screw with elbow screw

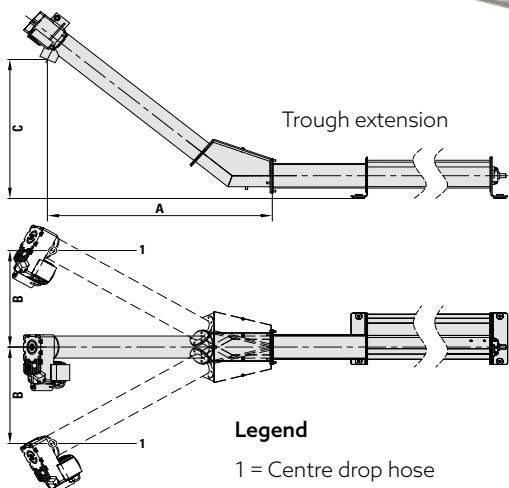
- ✓ Extremely quiet operation
- ✓ Minimal power consumption
- ✓ Maintenance-free
- ✓ Also realizable as case solution.

Compatible with

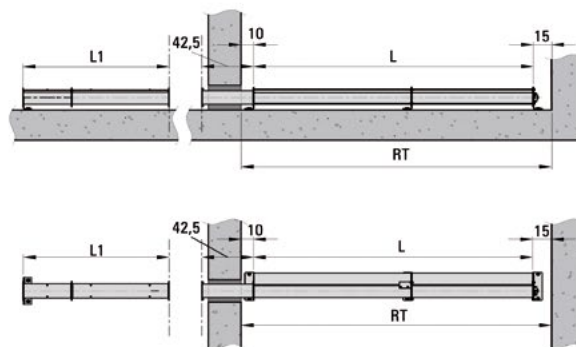
- KWB Easyfire type EF2 S 8-38 kW
- KWB Combifire type CF2 S 18-38 kW
- KWB Pelletfire Plus type MF2 45-135 kW



Ascending screw

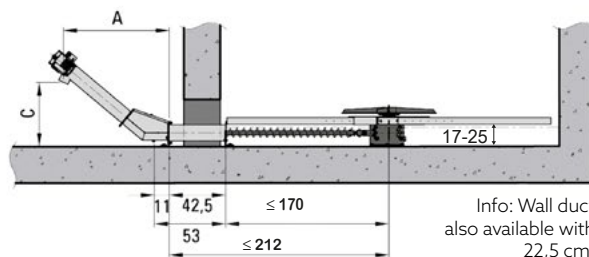
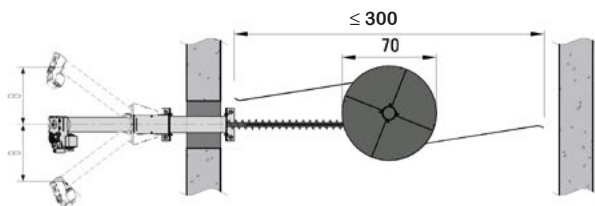


Conveyor screw



KWB Pellet Stirrer Plus and elbow screw

- ✓ Best possible storage room utilisation
- ✓ Extremely quiet operation
- ✓ Sloping floor is not required
- ✓ Also realizable as case solution.



Info: Wall duct also available with 22,5 cm.

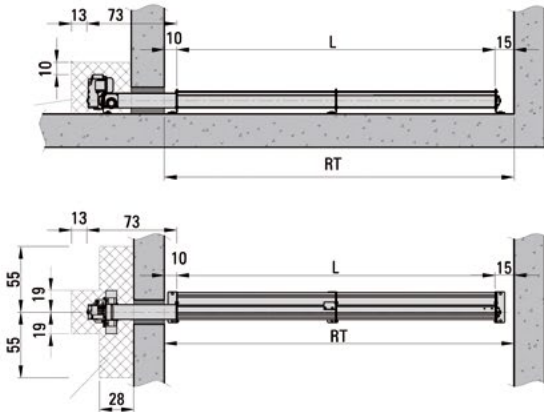
Ascending screw with axis deviation B depending on storage room lowering

Storage room lowering	Ascending screw 1	Ascending screw 2	Ascending screw 3	Ascending screw 4
	A=78,5cm C=48,7cm	A=91,0cm C=59,9cm	A=101,0cm C=67,9cm	A=116,0cm C=80,8cm
0cm	B=0	B=0-35cm	B=0-47cm	B=44-64cm
5cm	-	B=0-27cm	B=0-42cm	B=35-60cm
10cm	-	B=0-12cm	B=0-34cm	B=22-55cm
15cm	-	B=0cm	B=0-24cm	B=0-50cm
20cm	-	-	B=0cm	B=0-43cm
25cm	-	-	B=0cm	B=0-33cm
30cm	-	-	-	B=0-19cm
35cm	-	-	-	B=0cm

Conveyor screw L	Room depth Min. room depth	Channel extension L1
130cm	155cm	40cm
180cm	205cm	80cm
230cm	255cm	120cm
260cm	285cm	160cm
280cm	305cm	200cm
310cm	335cm	240cm
360cm	385cm	
460cm	485cm	
490cm	515cm	
540cm	565cm	

KWB conveyor screw with suction conveyor

- ✓ Pellets up to 8 mm can be used
- ✓ Ideal for storage room systems which are not situated on the same level as the heating room
- ✓ Suction lengths of up to 25 metres possible (10 metres for the KWB Easyfire 1 Plus)



Information

Find information about hose routing in module „I“.

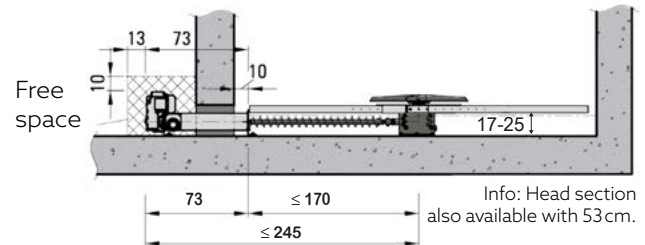
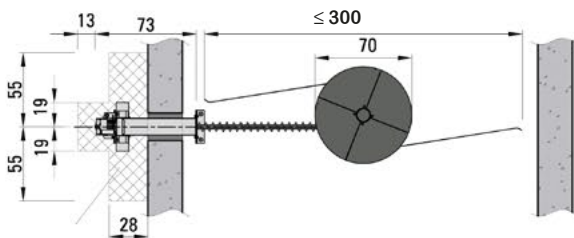


Compatible with

- KWB Easyfire type EF2 GS 8-38 kW
- KWB Easyfire type EF3 40-60 kW
- KWB Combifire type CF2 GS 18-38 kW
- KWB Pelletfire Plus type MF2 GS 45-135 kW
- KWB Easyfire 1 Plus type EF1 GS 10-20 kW

KWB Pellet Stirrer Plus with suction conveyor

- ✓ Pellets up to 8 mm can be used
- ✓ Best possible storage room utilisation
- ✓ Suction lengths of up to 25 metres possible (10 metres for the KWB Easyfire 1 Plus)
- ✓ Sloping floor is not required



Notes

- Provide ventilation of the heating room sized $5 \text{ cm}^2 / \text{kW}$ or $\geq 400 \text{ cm}^2$.
- Take the ceiling load / static loads into account!
- Assemble the drives outside of the storage room
- Strictly comply with local fire safety regulations and other regulations!
- Maintain the legally prescribed distances to flammable materials!



Fuel pouring heights

A maximum pouring height of 3 m is permitted in pellet operations. Please comply with the EN ISO 20023 standard when designing the pellet storage.

KWB sampling probe(s) with suction conveyor

3-point sampling probe

The one-point sampling probe is offered as an additional suction conveyor system model for the pellet heating systems KWB Easyfire 2 type EF2 GS and KWB Easyfire 1 Plus type EF1 GS. The switchover to pellet removal between the 3 sampling probes takes place automatically.

- ✓ Flexible utilisation and easily installed with very little planning expenditures
- ✓ No moving pellet suction tubes in the heating and storage room – thus low space requirements
- ✓ Reliable pellet extraction based on special probe geometry



Information
Find information about hose routing in module „I“.

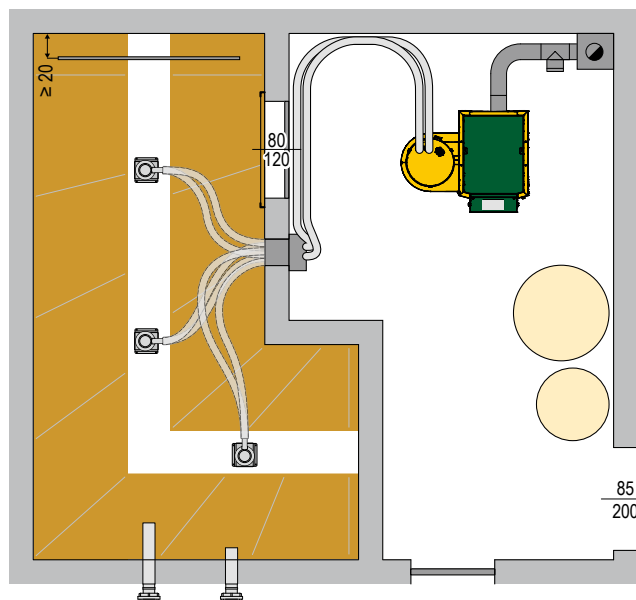
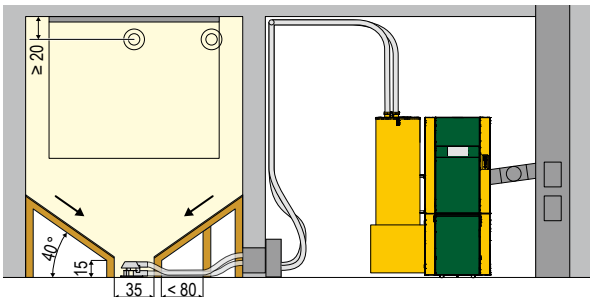


Compatible with
KWB Easyfire type EF2 GS 8-38 kW
KWB Easyfire 1 type EF1 GS 10-20 kW
KWB Combifire type CF2 GS 18-38 kW
KWB Pelletfire Plus type MF2 GS 45-65 kW



KWB sampling probes: optimal safety thanks to 1 or 3 separate removal points in the storage room

KWB switchover unit: automatic switchover when using 3 sampling probes



1-Point sampling probe also possible with the KWB weekly storage container or for installation in the storage room.
LxWxH = 100x100x110 cm, room height min. 180 cm



Fuel pouring heights

A maximum pouring height of 3 m is permitted in pellet operations. Please comply with the EN ISO 20023 standard when designing the pellet storage.

KWB sampling probe(s) with suction conveyor

8-point sampling probe

- ✓ Flexible utilisation and easily installed with very little planning expenditures
- ✓ Reliable pellet extraction based on special probe geometry



Information
Find information about hose routing in module „I“.



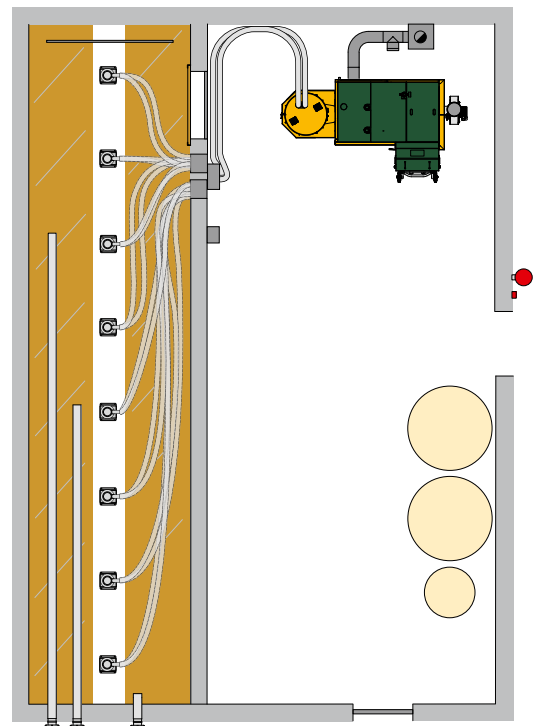
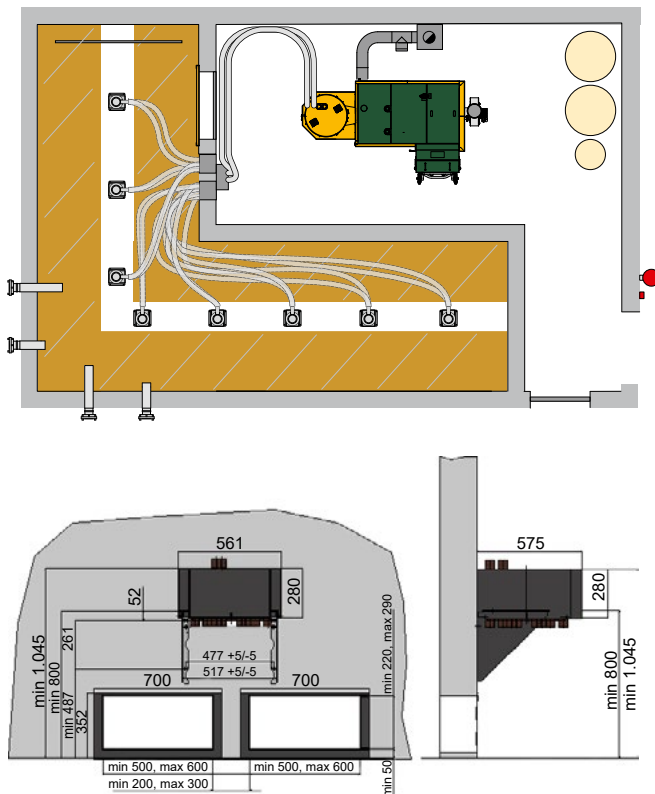
Compatible with
KWB Easyfire type EF2 GS 8-38 kW
KWB Combifire type CF2 GS 18-38 kW
KWB Pelletfire Plus type MF2 GS 45-135 kW



KWB sampling probes: optimal safety thanks to 8 separate removal points in the storage room



KWB switchover unit: automatic switchover with 8 sampling probes



All dimensions in mm

KWB Pellet Big Bag and suction conveyor

- ✓ Pellets up to 8 mm can be used
- ✓ Very high degree of space utilisation
- ✓ Possible to set up outdoors (if protected from the weather)
- ✓ Available in 4 different sizes



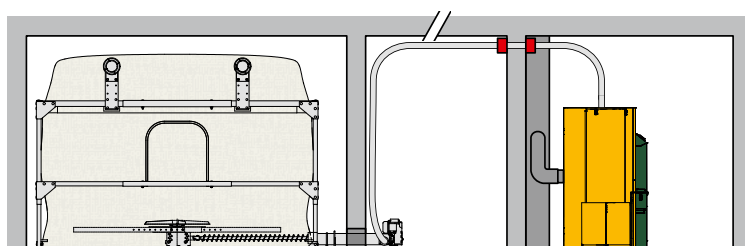
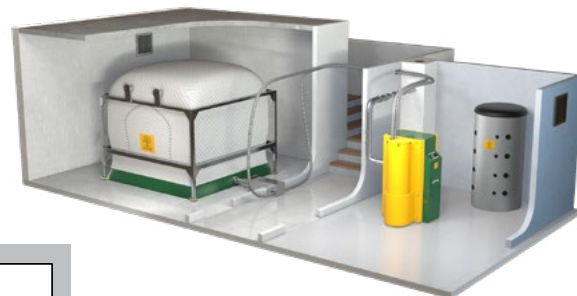
Compatible with

KWB Easyfire type EF2 GS 8-38 kW

KWB Easyfire 1 type EF1 GS 10-20 kW

KWB Combifire type CF2 GS 18-38 kW

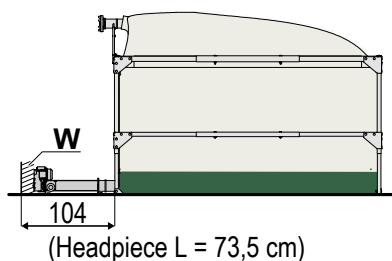
KWB Pelletfire Plus type MF2 GS 45-135 kW



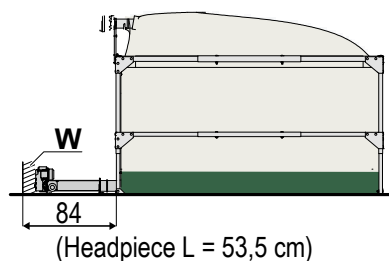
Information

Find information about hose routing in module „I“.

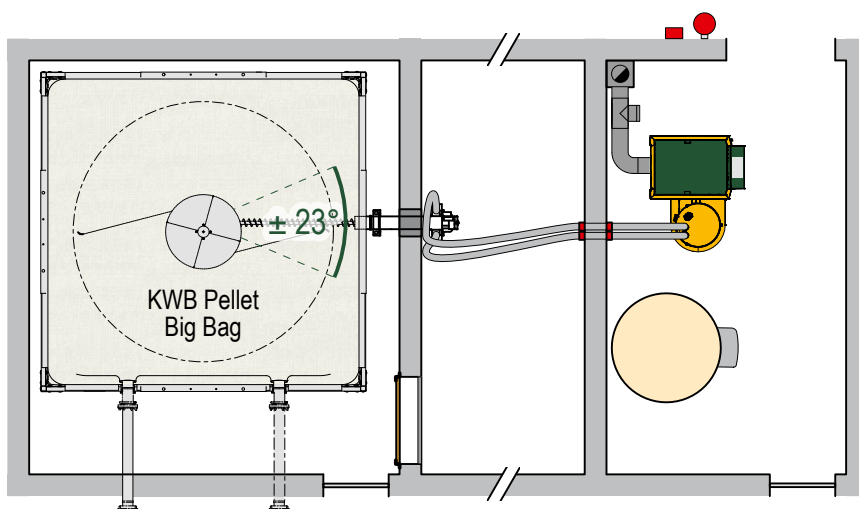
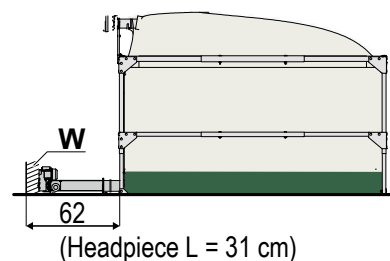
Standard variant



Medium variant



shorter version




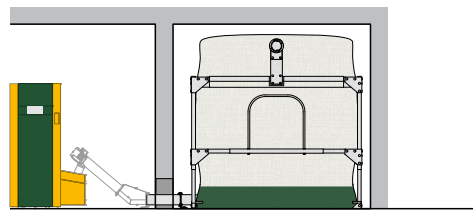
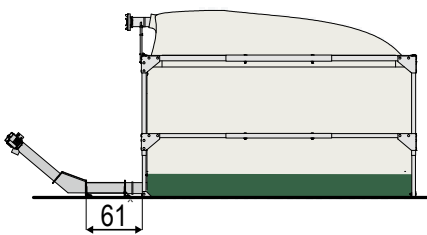
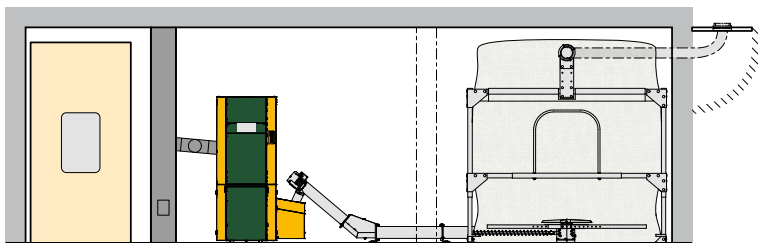
Fuel pouring heights

The integrated injection nozzles are height-adjustable, depending on the room height the pouring height and storage volume may vary. Please comply with the EN ISO 20023 standard when designing the pellet storage.

KWB Pellet Big Bag and elbow screw

- ✓ Very high degree of space utilisation
- ✓ No special storage room adaptation required
- ✓ Suitable for low and moist rooms
- ✓ Also realizable as case solution.


Compatible with
 KWB Easyfire type EF2 S 8-38 kW
 KWB Combifire type CF2 S 18-38 kW
 KWB Pelletfire Plus type MF2 S 45-135 kW



* Can also be realized with 41 cm.

KWB Pellet Big Bag – Technical data

Length & Width	Size:	[m]	EF2/CF2		EF2/CF2	
			1515	2020	2525	3030
			1,5x1,5m	2,0 x 2,0m	2,5 x 2,5m	3,0 x 3,0 m
Fill quantity** (max.):	Injection nozzle bottom	[t]	< 2,2t	< 3,9t	< 6,5t	< 9,3t
Fill quantity** (max.):	Injection nozzle top	[t]	< 2,3t	< 4,1t	< 4,9t	< 10,5t
Fill height ***	FH:	[cm]	162 cm or 177 cm or 192 cm			
Room height (min.)	RH:	[cm]	Fill height + ≥ 20 cm			
Fill openings	Quantity	Pcs.	1 Pc.	1 Pc.	2 Pcs.	2 Pcs.
Fill distance	FD:	[cm]	-	-	100 cm	140 cm

** The capacity depends on: the filling technique, pellet characteristics, available space, container size and height of the injection nozzles!

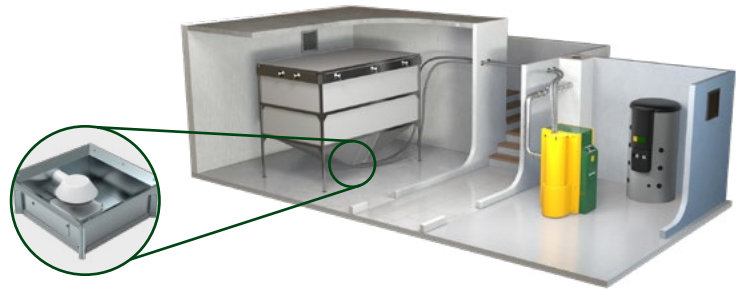
*** Fill height is dependent on the position of the injection nozzles. Depending on the locally applicable fire safety regulations, the KWB Pellet Big Bag can be set up directly in the heating room if a specified minimum distance to the heating system is maintained. If appropriately protected against weather influences the Big Bag can be set up outdoors. Local fire safety regulations must be strictly complied with. The Big Bag does not require any air extraction - the air escapes through the fabric and via a window or vent (at least 400 cm²) to the outside. Structural characteristics of the place of installation: dry, horizontal, smooth, clean, able to carry maximum load - at least 1.500 kg/m²

KWB Pellet Box and suction conveyor

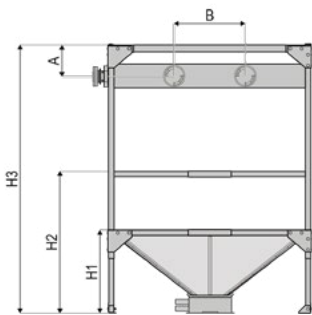
- ✓ Height adjustable 180/190 cm – 250 cm
- ✓ Durable steel frame
- ✓ Optimal emptying

Compatible with

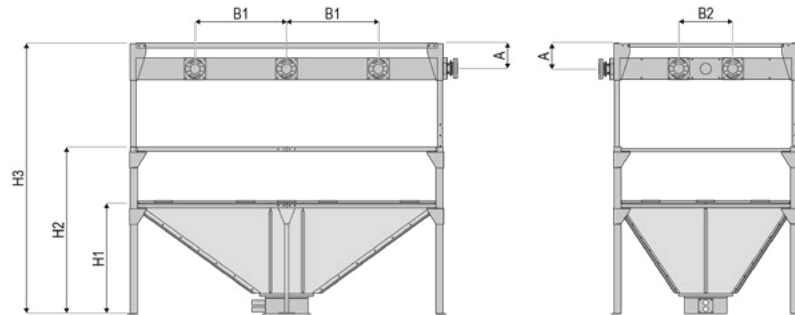
- KWB Easyfire 1 type EF1 GS 10-20 kW
- KWB Easyfire type EF2 GS 8-38 kW
- KWB Combifire type CF2 GS 18-38 kW



Drawing for a square option



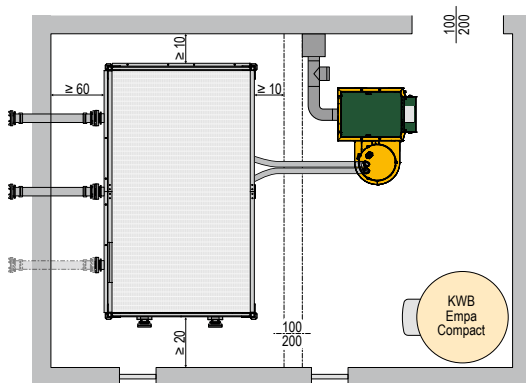
Drawing for a rectangular option



Type designation	Unit	Type 12	Type 17	Type 21	Type 25	Type 21/25	Type 17/29	Type 21/29	Type 25/29	Type 29
Volume	m ³	1,7–2,6	3,2–5,4	4,4–7,7	6,4–10,9	5,3–9,2	5,6–8,3	6,6–10,2	8,0–13,4	9,6–14,1
Fill quantity* (max.):	t	1,1–1,7	2,1–3,5	2,8–5,0	4,2–7,0	3,5–5,9	3,6–5,4	4,3–6,6	5,2–7,9	6,1–9,2
Injection connectors	Pcs.	1	1	1	1	1	1 or 2**	1 or 2**	1 or 2**	1 or 2**
Suction nozzle	Pcs.	1	1	1	1	1	1	1	1	1
Width	cm	120	170	210	250	210	170	210	250	290
Length	cm	120	170	210	250	250	290	290	290	290
A	cm	23	23	23	23	23	23	23	23	23
B	cm	50	50	50	90	-	-	-	-	-
B1	cm	-	-	-	-	90	85	85	85	85
B2	cm	-	-	-	-	50	50	50	90	50
H1	cm	70	70	86	86	86	103	103	103	103
H2	cm	136	136	136	136	136	155	155	155	155
H3 – adjustable for height	cm	180–250	180–250	180–250	180–250	180–250	190–250	190–250	190–250	190–250

* The capacity depends on: the filling technique, pellet characteristics, available space, container size and height of the container!

** When filling on the narrow side, 2 filling nozzles will be required, if filling on the broader side, 3 filling nozzles will be required. The scope of delivery includes 3 nozzles.



Information

Find information about hose routing in module „I“.

Fuel pouring heights

The KWB Pellet Box is height-adjustable and can be individually adjusted to the respective room height. Please comply with the EN ISO 20023 standard when designing the pellet storage.